



Your specialist retailer:

Scintilla AG | P.O. Box 632 | CH - 4501 Solothurn | info@hawera.de

1 619 H00 015 - en - PT-AC/MKH, Printed in Germany - Imprimé en Allemagne

Subject to technical alterations. No liability is accepted for printing errors.

Range Catalogue



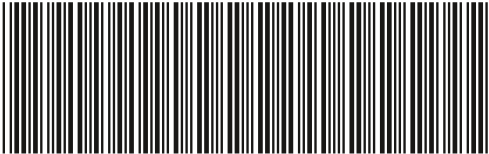
www.hawera.com



Power for Productivity.



Range Catalogue



1619H000F50001



Power for Productivity.

Hawera:

Power for Productivity



Hawera manufactures high-performance tools for drilling, chiselling and cutting concrete, stone and masonry. Productive stoneworking on the construction site is our top priority. According to the principle of "Power for Productivity", we develop, produce and sell tools that deliver more performance with less effort: due to faster work progress, better results, longer lifetime.

Hawera holds a top position in the area of concrete and stone drilling. The range is completed by highly efficient sawing tools that cut building materials, wood, metal and plastic.

We want to further strengthen our market position as a tool specialist by making targeted investments in product development, by using our own in-house manufacturing with high quality standards and by working together with strong market partners.



Power for Productivity.



L Neutral cardboard packaging with sticker without any type of suspension



M Neutral cardboard packaging with sticker and suspension



N Metal case with sticker and Euro hole



P Printed plastic case with Euro hole



Q Wrap bag



R Paper bag with sticker without hanger



S Merchandise non-packaged with sticker

T Plastic carrying case

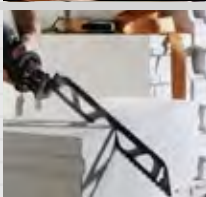
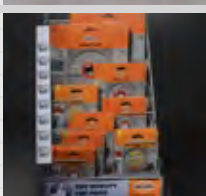


V Printed cardboard packaging with label without hanger



W Plastic bag with label

Contents:

Hawera	 Die produktive Kraft.	Market leader in tools for working on stone	4	
Drilling		Concrete and masonry drill bits Metal drill bits Wood drill bits Holesaws	7 9 57 83 103	
Chiselling		SDS-plus shank SDS-max shank Hexagonal shank	125 128 130 132	
Diamond cutting and drilling		Diamond cutting discs Diamond drill bits	135 136 151	
Circular sawing		Metal and multi-purpose circular saw blades Wood and construction circular saw blades	163 172 177	
Jigsawing Sabre sawing		Jigsaw blades Sabre saw blades	187 188 206	
Sets		Concrete and masonry drill bit sets Metal drill bit sets Wood drill bit sets	226 230 234	
		Holesaw sets Chisel sets Diamond drill bit sets Screwdriver bit sets	237 239 240 242	
Modules		Miscellaneous modules	243	
Index		Part numbers Overview of packaging types	251 262	

The basis of Hawera's success:

Innovation and in-house manufacturing

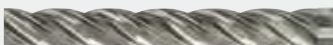


The success story of Hawera (**Hartmetall-Werkzeugfabrik Ravensburg** (English: Carbide Tool Factory of Ravensburg)) begins in 1952. **Pioneering achievements** in the development and production of **impact drill bits**, **hammer drill bits** and in the market-defining **SDS-plus** and **SDS-max** shank systems are the cornerstones of the company.

Nowadays, the plant in Ravensburg produces over 24 million drilling tools per year. Hawera manufactures its tools itself, so it has control over the quality and availability of its products.

Constant expansion of expertise

The Ravensburg plant stands for user-oriented innovation and competitive production. Great success is being achieved with the latest generation of SDS-plus and SDS-max hammer drill bits.

1952	Foundation of the future Hawera by Hermann Probst	
1956	Production of masonry drill bits for fixing systems	
1964	First production of hammer drill bits in Europe	
1975	Manufacture of the first SDS-plus hammer drill bits for hammers with quick-change coupling	
1985	Manufacture of the first SDS-max hammer drill bits for hammers with quick-change chuck	
1999	Launch of hammer drill bits SDS-plus S4	
2004	Launch of impact and rotary drill bits MultiConstruction	
2008	Launch of hammer drill bits SDS-plus X5L	
2010	Launch of hammer drill bits SDS-max SpeedX	
2012	Launch of hammer drill bits SDS-plus PowerLSplus	
2017	Launch of hammer drill bits SDS-plus SHARX	

Hawera's range of services:

Tools for stoneworking are the core competence of Hawera. Knowledge and experience in dealing with concrete, stone, masonry and tiles enable us to also make outstanding achievements in the development of chisels and diamond tools. In addition to this, we offer versatile circular saw blades and a jigsaw and sabre saw blade range from St. Niklaus in Switzerland.



Concrete and masonry drill bits

Hammer drill bits are Hawera's leader products.
For rotary hammers up to 4 kg with SDS-plus shank. Over 4 kg: with SDS-max. Cylindrical and hex shank for impact and rotary drill bits.



Exemplary innovations:

The best drill bit for reinforced concrete: SDS-plus **SHARX**

Full carbide head
> **maximum destructive power**

4-cutter design
> **interference-free work**

4-flute continuation of the head design
> **max. drilling dust removal**



Chisels

High material removal rate, long lifetime: the decisive qualities of a chisel. Hawera is the leader at this: inductively hardened steel, innovative cutting geometry, self-sharpening.



With maximum destructive power: **RTecSPEED** SDS-max pointed chisel

Unique power spin action
> **efficient work progress**

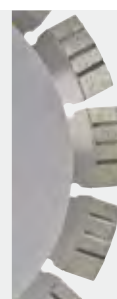
Star-shaped cutting edge, self-sharpening
> **100 hours of high material removal rate**

RTec reflection element
> **30% higher material removal rate**



Diamond tools

Innovative diamond products:
Fast and long-life cutting discs for concrete, stone, ceramics and asphalt.
Ceramic diamond drill bits for efficient dry use. And for extra-hard jobs: with water cooling.



Up to 40% faster: **SUPER UNIVERSAL**

Speed Stripes segments
> **less side friction**

Higher diamond cutting segments, laser-welded
> **longer lasting**

Sophisticated diamond technology
> **speed + longevity**



Circular saw blades

Universal? Quick cut? Precision?
Hawera offers the suitable circular saw blade for the construction site. With the desired tooth pitch.
For hand-held circular saws, mitre saws, table saws.



Top performance in all types of wood: **SUPERTEC** precision saw blade

Width of cut: 3.2 mm
> **up to 40% greater stability**

«VibrationControl» dampening slots
> **clean, smooth cutting**



Jigsaw / sabre saw blades

Better results with the right saw blade.
The colour code guides you to the application range, the special tooth geometry to the cutting result and the right shank to your machine.



For the toughest demolition work: **TC EXTRA-LONGLIFE** Sabre saw blade

Carbide technology
> **outstanding lifetime**

Individually welded-on carbide teeth
> **max. impact resistance**

Progressive tooth pitch
> **powerful through thick and thin**

Information pictograms: Practical orientation aid

For the appropriate machine

Drilling



Rotary hammer

Cordless
combi drill

Impact drill



Drill



SDS-plus shank



SDS-max shank



CYL shank



HEX shank



Power-Change adapter

Cutting



Angle grinder



Petrol saw



Table saw



Joint cutter

Sawing



Jigsaw



Sabre sawing



Hand-held circular saw



Mitre saw

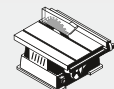


Table saw

For special benefit



Long lifetime



Fast drilling



Effortless drilling



Precise drilling



Active centring tip

Notched tungsten
carbide tip5-cutter
full carbide head

4-cutter full carbide head



No impact

100-percent
power transferPrüfgemeinschaft
Mauerbohrer e.V.
(masonry drill bit
testing association)

More impact force



Rapid work progress



Longer lasting



Self-sharpening



High material removal rate



Diamond segments



Fast coarse cut



Quick cut



Clean cut



Effortless cut



Powerful cut

For demolition and
rescue work

Carbide technology



Drilling
Concrete and stone
Metal
Wood

Hawera drill bits:

The overview



Concrete and masonry drill bits

9

Hammer drill bits SDS-plus

16

Core cutters SDS-plus

29

Hammer drill bits SDS-max

31

Core cutters SDS-max

36

Impact and rotary drill bits

38

Diamond drill bits

151



Metal drill bits

57

Twist drill bits

62

Countersink bits

79

Weld spot drill bits

80

Rasp drill bits

80

Sheet metal cone drill bits and step drill bits

80

Accessories for metalworking

82



Wood drill bits

83

Twist drill bits

88

Auger bits

90

Spade bits

92

Formwork and installation drill bits

95

Forstner drill bits

97

Hinge cutting bits and countersinks

99



Holesaws

103

Holesaws

108

Hole cutters

124



Drilling Concrete and stone

Hawera concrete and masonry drill bits:

Powerful and productive

Creating added value

High-performance products produce better results over a longer period of time – a good basis for economy. In the case of Hawera concrete and masonry drill bits, this means:

➤ More holes with the same drill bit

= longer lifetime.

Innovation + tungsten carbide expertise as factors for success

➤ More holes per unit of time

= the performance of modern rotary hammers is the benchmark for our concrete drill bits.

Hawera is synonymous with productivity

➤ More dimensionally correct holes

= safety for fixing systems.

The name Hawera stands for expertise on the construction site.

Creating a new performance category

Rotary hammers are becoming increasingly powerful and fast. What is needed are drill bits that meet these new standards.

A key to this is the optimal removal of drilling dust. With innovative drilling head technology and high-performance flutes, Hawera is shaping the new generation of concrete and masonry drill bits.

Clear trend towards powerful rotary hammers (>3 joules)

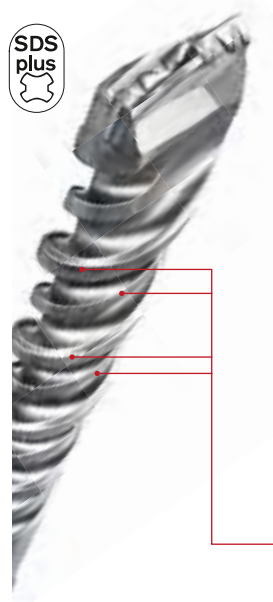
Market shares of the various performance categories



POWERLS PLUS efficient and robust

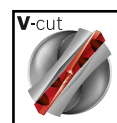
new **S4L** performance category

3 – 26 mm diameter



Active centring tip*

For active cutting in concrete
➤ high stability and precision



Notched tungsten carbide tip

Special V-shaped design
➤ grinds concrete into extremely fine drilling dust
➤ fast drilling dust removal



4-flute turbo design

Consistently high drilling dust removal rates
➤ reduces unwanted dust explosion

*Diameter ≤ 10 mm

Drilling without annoying stoppages or blockages



This level of efficiency is achieved through the combination of an innovative drilling head and large-sized flutes which prevent stoppage of the drill bit.



Hammer drill bits, SDS-plus and SDS-max

SHARX

new

new generation **XSL**

3.5 – 30 mm diameter



Full carbide head
Tungsten Carbide
(extra-hard, fine grade carbide)
➤ highest drilling power
➤ longest lifetime in reinforced concrete



4 sharp cutters
Horizontal cutting edges
➤ maximum power transfer
➤ precise drilling



4-flute Turbo Robust Design
Seamless transition from the cutting edges to the flute channels
➤ fast removal of drilling dust
➤ no jamming when pulling out the bit, even in deep holes

Longest lifetime in reinforced concrete



Whatever is lurking in the workpiece, Sharx bits drill through reinforced concrete quickly and precisely with their tough full carbide head. Longest lifetime for extreme applications on the construction site.



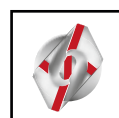
POWERLSP^{MAX}

known as **SPEED X**

12 – 52 mm diameter



Active centring tip*
For active cutting in concrete
➤ high stability and precision



Full carbide 5-cutter
With 2 inclined, aggressive side spurs
➤ maximum destructive power
➤ fast drilling action



2-flute turbo design
Large sized flutes
➤ high speed

Professional fitting of anchors



Efficiency through rapid work progress and long life. Safety through accurate drill hole diameter.



The Hawera Power Team

Hammer drill bits

Hammer drill bits SDS-plus and SDS-max



Diameter range:

Application range:

Performance / price categories:

Performance profile

> Lifetime

> Speed

> Drilling dust removal

SHARX

new

New generation **X5L**



5 – 30 mm diameter

Reinforced concrete, concrete, masonry, natural stone

★★★★★

• • • • •

• • • • •

• • • • •

Special drill bits:

Hammer drill bits SDS-plus



Diameter range:

Application range:

Performance / price categories:

Performance profile

> Lifetime

> Speed

> Drilling dust removal

REBAR CUTTER



16 – 32 mm diameter

For cutting through rebar in concrete

★★★

• •

• • •

• •

Hammer drill bits SDS-max



Diameter range:

Application range:

Performance / price categories:

Performance profile

> Lifetime

> Speed

> Drilling dust removal

BREAKTHROUGH

Breakthrough drill bits



45 – 80 mm diameter

Large-diameter breakthroughs in concrete, masonry and limestone

★★★

• • •

• • •

• • • •

POWERLSP PLUS

known as **X5L**



5 – 16 mm diameter

Concrete, reinforced concrete, masonry, natural stone

★★★★★

• • • • •
• • • • •
• • • • •

POWERLS PLUS

New generation **S4L**



3 – 26 mm diameter

Hard concrete, reinforced concrete, masonry and granite

★★★

• • •
• • • •
• • • •

POWERLSP MAX

known as **SPEED X**



12 – 52 mm diameter

Concrete, concrete with rebar, masonry, limestone and natural stone

★★★★★

• • • •
• • • • •
• • • • •

CORECUTTER PLUS

Hammer core cutter



25 – 112 mm diameter

Large-diameter breakthroughs in extremely hard concrete and masonry

★★★

• • • •
• • • • •
• •

SPEED CLEAN PLUS **new**

Dust extraction drill bits



12 – 24 mm diameter

Concrete; drilling and cleaning in the same operation

★★★★★

• • • •
• • • • •
• •

CORECUTTER MAX

Hammer core cutter



45 – 150 mm diameter

Large-diameter breakthroughs in concrete, masonry and limestone

★★★★★

• • • •
• • •
• •

SPEED CLEAN MAX **new**

Dust extraction drill bits



14 – 35 mm diameter

Concrete; drilling and cleaning in the same operation

★★★★★

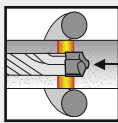
• • • •
• • • •
• • • • •

Technological basis

for the performance of our concrete and masonry drill bits

Longevity / robustness

through tungsten carbide expertise and cutting-edge bonding technology



Grit size

The durability of tungsten carbide is defined by the grit size: the finer the grit, the greater the resistance of the tungsten carbide cutting edges.

Tungsten carbide composition

The concentration of tungsten carbide in the grit mixture defines the hardness of the metal.

Hawera products have a very fine grit and contain a very high percentage of tungsten carbide.

Bonding technology

Tungsten carbide head / fluted body
The type of bonding process (brazing + hardening) is a crucial factor determining the robustness and durability of the drill bit. Hawera methods: vacuum brazing and hardening, AWB brazing and hardening, innovative diffusion bonding technology.

Optimal material removal

through process-optimised flutes and innovative head design



Notched tungsten carbide tip

Rapid drilling dust removal into the flute is ensured by the special head design.

Flute design

This is defined by the number of flutes, the core diameter of the drill bit and the size of the flutes. The key factor to achieve an ideal balance between rapid drilling dust removal, power transfer and durability.

Clean, precise drilling

through intelligent drill heads



Centring tip

For active centring and optimal guidance during drilling.

Number of cutting edges

The number of cutting edges is dependent by the material to be drilled (e.g. 4-cutter for reinforced concrete)

Wear indicator

As long as the indicator is visible: the drill hole diameter is within tolerance

Application recommendation

Hawera hammer drill bits

	SHARK	POWERLSP-PLUS	POWERLS-PLUS	REBARCUTTER	CORECUTTER-PLUS	SPEED CLEAN-PLUS	POWERLSP-MAX	BREAKTHROUGH	CORECUTTER-MAX	SPEED CLEAN-MAX
Application range	SDS-plus 						SDS-max 			
Concrete, reinforced	•	•	•	•*	•	•	•	•	•	•
Concrete	•	•	•	•	•	•	•	•	•	•
Granite	•	•	•	•	•	•	•	•	•	•
Limestone	•	•	•	•	•	•	•	•	•	•
Clinker	•	•	•	•	•	•	•	•	•	•
Hollow core brick	•	•	•	•*	•	•	•	•	•	•
Marble	•	•	•	•	•	•	•	•	•	•
Marble, hard	•	•	•	•	•	•	•	•	•	•
Masonry	•	•	•	•	•	•	•	•	•	•
Porous concrete	•	•	•	•	•	•	•	•	•	•
Slate	•	•	•	•	•	•	•	•	•	•
Solid brick	•	•	•	•	•	•	•	•	•	•

* non-impact use only

• very suitable

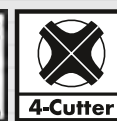




Hawera hammer drill bits:

SHARX

Longest lifetime in reinforced concrete – Sharp, tough full carbide head with 4 cutting edges for extreme applications on the construction site



Pyramid-shaped centring tip

> A precise drilling start and symmetrical drilled hole

Full carbide head with 4 cutting edges

> Horizontal cutting edges for maximum power transfer
> Tungsten Carbide (extra-hard, fine grade carbide) for the longest lifetime in reinforced concrete
> Wear indicator for precisely drilled holes, especially when using fixings

Innovative diffusion welding technology

> Impact-resistant connection between full carbide head and flute
> High heat resistance even in extreme applications

Perfect flute design

> Seamless transition from the cutting edges to the flute channels
> Large recesses for fast removal of drilling dust
> No jamming when pulling out the bit, even in deep holes

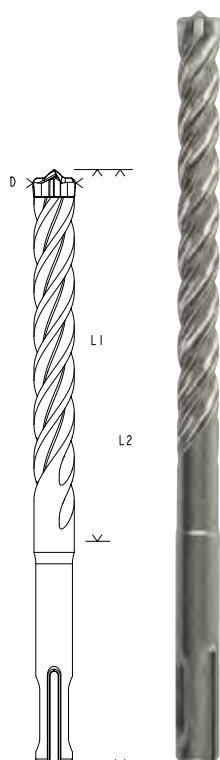
Hammer drill bit Sharx

Recommended for working on:

Masonry, concrete and reinforced concrete

User instructions:

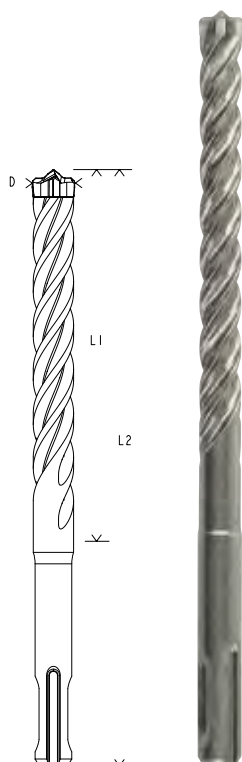
For use in rotary hammers with SDS-plus holder



Diameter D mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
3.5	50	115	A1	1	F 00Y 266 315*	3 165 140 845 120
3.5	100	160	A1	1	F 00Y 266 316*	3 165 140 845 137
4.0	50	115	A1	1	F 00Y 266 297*	3 165 140 809 757
4.0	100	165	A1	1	F 00Y 266 298*	3 165 140 809 764
5.0	50	115	A1	1	F 00Y 266 452*	3 165 140 891 974
5.0	100	165	A1	1	F 00Y 266 453*	3 165 140 891 981
5.0	150	215	A1	1	F 00Y 266 454*	3 165 140 891 998
5.0	200	265	A1	1	F 00Y 266 455*	3 165 140 892 001
5.0	250	315	A1	1	F 00Y 266 456*	3 165 140 892 018
5.0	400	465	A1	1	F 00Y 266 457*	3 165 140 892 025
5.5	50	115	A1	1	F 00Y 266 458*	3 165 140 892 032
5.5	100	165	A1	1	F 00Y 266 459*	3 165 140 892 049
5.5	150	215	A1	1	F 00Y 266 460*	3 165 140 892 056
5.5	200	265	A1	1	F 00Y 266 461*	3 165 140 892 063
5.5	250	315	A1	1	F 00Y 266 462*	3 165 140 892 070
5.5	400	465	A1	1	F 00Y 266 463*	3 165 140 892 087
6.0	50	115	A1	1	F 00Y 266 464*	3 165 140 892 094

* Available from 2017

Hammer drill bit Sharx



Diameter D mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
6.0	100	165	A1	1	F 00Y 266 465*	3 165 140 892 100
6.0	150	215	A1	1	F 00Y 266 466*	3 165 140 892 117
6.0	200	265	A1	1	F 00Y 266 467*	3 165 140 892 124
6.0	250	315	A1	1	F 00Y 266 468*	3 165 140 892 131
6.0	400	465	A1	1	F 00Y 266 469*	3 165 140 892 148
6.5	50	115	A1	1	F 00Y 266 470*	3 165 140 892 155
6.5	100	165	A1	1	F 00Y 266 471*	3 165 140 892 162
6.5	150	215	A1	1	F 00Y 266 472*	3 165 140 892 179
6.5	200	265	A1	1	F 00Y 266 473*	3 165 140 892 186
6.5	250	315	A1	1	F 00Y 266 474*	3 165 140 892 193
7.0	50	115	A1	1	F 00Y 266 475*	3 165 140 892 209
7.0	100	165	A1	1	F 00Y 266 476*	3 165 140 892 216
7.0	150	215	A1	1	F 00Y 266 477*	3 165 140 892 223
8.0	50	115	A1	1	F 00Y 266 478*	3 165 140 892 230
8.0	100	165	A1	1	F 00Y 266 479*	3 165 140 892 247
8.0	150	215	A1	1	F 00Y 266 480*	3 165 140 892 254
8.0	200	265	A1	1	F 00Y 266 481*	3 165 140 892 261
8.0	250	315	A1	1	F 00Y 266 482*	3 165 140 892 278
8.0	300	365	A1	1	F 00Y 266 483*	3 165 140 892 285
8.0	400	460	A1	1	F 00Y 266 484*	3 165 140 892 292
9.0	100	165	A1	1	F 00Y 266 485*	3 165 140 892 308
9.0	150	215	A1	1	F 00Y 266 486*	3 165 140 892 315
10.0	50	115	A1	1	F 00Y 266 487*	3 165 140 892 322
10.0	100	165	A1	1	F 00Y 266 488*	3 165 140 892 339
10.0	150	215	A1	1	F 00Y 266 489*	3 165 140 892 346
10.0	200	265	A1	1	F 00Y 266 490*	3 165 140 892 353
10.0	315	250	A1	1	F 00Y 266 491*	3 165 140 892 360
10.0	300	365	A1	1	F 00Y 266 492*	3 165 140 892 377
10.0	400	465	A1	1	F 00Y 266 493*	3 165 140 892 384
11.0	100	165	A1	1	F 00Y 266 494*	3 165 140 892 391
11.0	150	215	A1	1	F 00Y 266 495*	3 165 140 892 407
11.0	200	265	A1	1	F 00Y 266 496*	3 165 140 892 414
12.0	100	165	A1	1	F 00Y 266 497*	3 165 140 892 421
12.0	150	215	A1	1	F 00Y 266 498*	3 165 140 892 438
12.0	200	265	A1	1	F 00Y 266 499*	3 165 140 892 445
12.0	250	315	A1	1	F 00Y 266 500*	3 165 140 892 452
12.0	300	365	A1	1	F 00Y 266 501*	3 165 140 892 469
12.0	400	465	A1	1	F 00Y 266 502*	3 165 140 892 476
13.0	100	165	A1	1	F 00Y 266 503*	3 165 140 892 483
13.0	150	215	A1	1	F 00Y 266 504*	3 165 140 892 490
13.0	200	265	A1	1	F 00Y 266 505*	3 165 140 892 506
14.0	100	165	A1	1	F 00Y 266 506*	3 165 140 892 513
14.0	150	215	A1	1	F 00Y 266 507*	3 165 140 892 520
14.0	200	265	A1	1	F 00Y 266 508*	3 165 140 892 537
14.0	250	315	A1	1	F 00Y 266 509*	3 165 140 892 544
14.0	300	365	A1	1	F 00Y 266 510*	3 165 140 892 551
14.0	400	465	A1	1	F 00Y 266 511*	3 165 140 892 568
15.0	165	100	A1	1	F 00Y 266 512*	3 165 140 892 575
15.0	265	200	A1	1	F 00Y 266 513*	3 165 140 892 582
15.0	465	400	A1	1	F 00Y 266 514*	3 165 140 892 599
16.0	215	150	A1	1	F 00Y 266 515*	3 165 140 892 605
16.0	265	200	A1	1	F 00Y 266 516*	3 165 140 892 612
16.0	315	250	A1	1	F 00Y 266 517*	3 165 140 892 629
16.0	465	400	A1	1	F 00Y 266 518*	3 165 140 892 636

Hammer drill bit Sharx

Diameter D mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------------	----------------	---------------	-------------	----------



SpeedX Design

18.0	200	250	A1	1	F 00Y 265 403	3 165 140 566 780
18.0	400	450	A1	1	F 00Y 265 404	3 165 140 566 797
20.0	200	250	A1	1	F 00Y 265 405	3 165 140 566 803
20.0	400	450	A1	1	F 00Y 265 406	3 165 140 566 810
22.0	200	250	A1	1	F 00Y 265 407	3 165 140 566 827
22.0	400	450	A1	1	F 00Y 265 408	3 165 140 566 834
24.0	400	450	A1	1	F 00Y 265 409	3 165 140 566 841
25.0	400	450	A1	1	F 00Y 265 410	3 165 140 566 858
28.0	400	450	A1	1	F 00Y 265 411	3 165 140 566 865
30.0	400	450	A1	1	F 00Y 265 412	3 165 140 566 872

10-piece bulk pack

5.0	50	110	D	10	F 00Y 266 519*	3 165 140 892 643
5.0	100	160	D	10	F 00Y 266 520*	3 165 140 892 650
6.0	50	115	D	10	F 00Y 266 521*	3 165 140 892 667
6.0	100	165	D	10	F 00Y 266 522*	3 165 140 892 674
6.0	150	215	D	10	F 00Y 266 523*	3 165 140 892 681
6.0	200	265	D	10	F 00Y 266 524*	3 165 140 892 698
6.5	200	265	D	10	F 00Y 266 526*	3 165 140 892 711
6.5	315	250	D	10	F 00Y 266 527*	3 165 140 892 728
8.0	100	165	D	10	F 00Y 266 529*	3 165 140 892 742
8.0	150	215	D	10	F 00Y 266 530*	3 165 140 892 759
8.0	200	265	D	10	F 00Y 266 531*	3 165 140 892 766
10.0	100	165	D	10	F 00Y 266 532*	3 165 140 892 773
10.0	150	215	D	10	F 00Y 266 533*	3 165 140 892 780
10.0	200	265	D	10	F 00Y 266 534*	3 165 140 892 797
12.0	100	165	D	10	F 00Y 266 535*	3 165 140 892 803
12.0	150	215	D	10	F 00Y 266 536*	3 165 140 892 810
12.0	200	265	D	10	F 00Y 266 528*	3 165 140 892 735

* Available from 2017

Sets – Hammer drill bits Sharx

Set contents diameter mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------------	----------------------	----------------	---------------	-------------	----------

7-piece hammer drill bit set "Sharx" in plastic case

5.0	50	115	P	7	F 00Y 266 537*	3 165 140 892 827
6.0	50	115				
6.0	50	115				
6.0	100	165				
8.0	100	165				
10.0	100	165				
12.0	100	165				

* Available from 2017



Hawera hammer drill bits:

POWERLSP PLUS

3x longer life and precise drilling,
even in rebar



Known as **X5L**



5-cutter full carbide head, diffusion bonding technology

- > Shaped cutting edges for maximum destructive power, exceptionally long life and minimal wear
- > No jamming when rebar is hit

activeQ

- > Active centring tip for active cutting in concrete

Fine grade, highly durable carbide

- > Long life/best resistance

Wear indicator

- > The visibility of the wear indicator can be used as a guide for the placement of fixings

2 + 2 flute design

- > Vibration-optimised flute design for maximum power transfer and speed

Hammer drill bits PowerLSPplus

Recommended for working on:

Masonry, concrete and reinforced concrete

User instructions:

For use in rotary hammers with SDS-plus holder



Diameter D mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
5.0	50	110	A1	1	F 00Y 265 051	3 165 140 440 462
5.0	100	160	A1	1	F 00Y 265 052	3 165 140 440 479
5.0	150	210	A1	1	F 00Y 265 053	3 165 140 440 486
5.5	50	110	A1	1	F 00Y 265 054	3 165 140 440 493
5.5	100	160	A1	1	F 00Y 265 055	3 165 140 440 509
6.0	50	115	A1	1	F 00Y 265 056	3 165 140 440 516
6.0	100	165	A1	1	F 00Y 265 057	3 165 140 440 523
6.0	150	215	A1	1	F 00Y 265 058	3 165 140 440 530
6.0	200	265	A1	1	F 00Y 265 059	3 165 140 440 547
6.5	100	165	A1	1	F 00Y 265 061	3 165 140 440 561
6.5	200	265	A1	1	F 00Y 265 063	3 165 140 440 585
6.5	250	315	A1	1	F 00Y 265 749	3 165 140 604 826

Hammer drill bits PowerLSPplus

Diameter D mm		Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
8.0	50	115	A1	1	F 00Y 265 066	3 165 140 440 615	
8.0	100	165	A1	1	F 00Y 265 067	3 165 140 440 622	
8.0	150	215	A1	1	F 00Y 265 068	3 165 140 440 639	
8.0	200	265	A1	1	F 00Y 265 069	3 165 140 440 646	
8.0	250	315	A1	1	F 00Y 265 750	3 165 140 604 833	
8.0	300	365	A1	1	F 00Y 265 070	3 165 140 440 653	
8.0	400	465	A1	1	F 00Y 265 071	3 165 140 440 660	
10.0	100	165	A1	1	F 00Y 265 073	3 165 140 440 684	
10.0	150	215	A1	1	F 00Y 265 074	3 165 140 440 691	
10.0	200	265	A1	1	F 00Y 265 075	3 165 140 440 707	
10.0	250	315	A1	1	F 00Y 265 751	3 165 140 604 840	
10.0	300	365	A1	1	F 00Y 265 076	3 165 140 440 714	
10.0	400	465	A1	1	F 00Y 265 077	3 165 140 440 721	
12.0	100	165	A1	1	F 00Y 265 078	3 165 140 440 738	
12.0	150	215	A1	1	F 00Y 265 079	3 165 140 440 745	
12.0	200	265	A1	1	F 00Y 265 080	3 165 140 440 752	
12.0	300	365	A1	1	F 00Y 265 081	3 165 140 440 769	
12.0	400	465	A1	1	F 00Y 265 082	3 165 140 440 776	
14.0	100	165	A1	1	F 00Y 265 343	3 165 140 538 480	
14.0	150	215	A1	1	F 00Y 265 344	3 165 140 538 497	
14.0	200	265	A1	1	F 00Y 265 345	3 165 140 538 503	
14.0	300	365	A1	1	F 00Y 265 346	3 165 140 538 510	
14.0	400	465	A1	1	F 00Y 265 347	3 165 140 538 527	
15.0	200	265	A1	1	F 00Y 265 757	3 165 140 605 663	
16.0	150	215	A1	1	F 00Y 265 758	3 165 140 605 670	
16.0	200	265	A1	1	F 00Y 265 759	3 165 140 605 687	
16.0	400	465	A1	1	F 00Y 265 760	3 165 140 605 694	



Hammer drill bits PowerLSPplus

Diameter D mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------------	----------------	---------------	-------------	----------

10-piece bulk pack



5.0	50	110	E	10	F 00Y 265 083	3 165 140 440 783
5.0	100	160	E	10	F 00Y 265 084	3 165 140 440 790
6.0	50	115	E	10	F 00Y 265 086	3 165 140 440 813
6.0	100	165	E	10	F 00Y 265 087	3 165 140 440 820
6.0	150	215	E	10	F 00Y 265 088	3 165 140 440 837
6.5	100	165	E	10	F 00Y 265 089	3 165 140 440 844
6.5	200	265	E	10	F 00Y 265 256	3 165 140 522 434
6.5	250	315	E	10	F 00Y 265 752	3 165 140 604 857
8.0	100	165	E	10	F 00Y 265 091	3 165 140 440 868
8.0	150	215	E	10	F 00Y 265 092	3 165 140 440 875
8.0	200	265	E	10	F 00Y 265 753	3 165 140 604 864
10.0	100	165	E	10	F 00Y 265 093	3 165 140 440 882
10.0	150	215	E	10	F 00Y 265 094	3 165 140 440 899
10.0	200	265	E	10	F 00Y 265 095	3 165 140 440 905
12.0	100	165	E	10	F 00Y 265 096	3 165 140 440 912
12.0	150	215	E	10	F 00Y 265 097	3 165 140 440 929

30-piece bulk pack

5.0	100	160	E	30	F 00Y 265 352	3 165 140 553 896
6.0	50	115	E	30	F 00Y 265 353	3 165 140 553 902
6.0	100	165	E	30	F 00Y 265 354	3 165 140 553 919
8.0	100	165	E	30	F 00Y 265 355	3 165 140 553 926
8.0	150	215	E	30	F 00Y 265 356	3 165 140 553 933
10.0	100	165	E	30	F 00Y 265 357	3 165 140 553 940
10.0	150	215	E	30	F 00Y 265 358	3 165 140 553 957
10.0	200	265	E	30	F 00Y 265 359	3 165 140 553 964

25-piece bulk pack

12.0	100	165	E	25	F 00Y 265 360	3 165 140 553 971
12.0	150	215	E	25	F 00Y 265 361	3 165 140 553 988



Sets – hammer drill bits PowerLSPplus

Set contents diameter mm	Working length(s) mm	Overall length(s) mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------------	----------------------	----------------	---------------	-------------	----------



5-piece hammer drill bit set “PowerLSPplus” in PowerBox

5.0	50	110	P	5	F 00Y 265 101	3 165 140 440 967
6.0	50	115				
6.0	100	165				
8.0	100	165				
10.0	100	165				

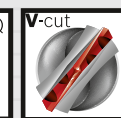


Hawera hammer drill bits:

POWERLSPLUS

User-friendly drilling without annoying clogging and jamming

New generation **S4L**



2-cutter, AWB brazing and hardening

> Diameter-optimised brazing and hardening technology for increased drill bit robustness and reduced vibration during drilling

activeQ*

> Active centring tip for active cutting in concrete

Toothed tungsten carbide

> Ensures the drilling dust goes directly into the flute, preventing clogging of the drill hole at the bottom

Long-life tungsten carbide

> Long life/high resistance

Wear indicator

> The visibility of the wear indicator can be used as a guide for the placement of fixings

4-flute turbo design

> Patented 4-flute design for efficient drilling dust removal

*Diameter ≤ 10 mm

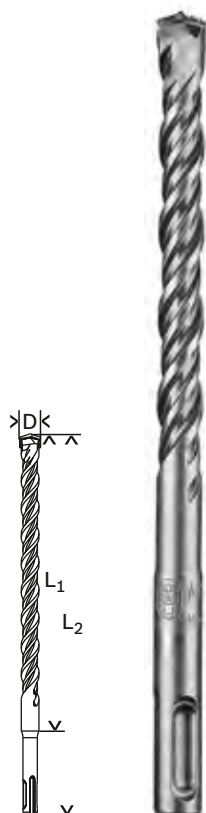
Hammer drill bits PowerLSplus

Recommended for working on:

Masonry and concrete

User instructions:

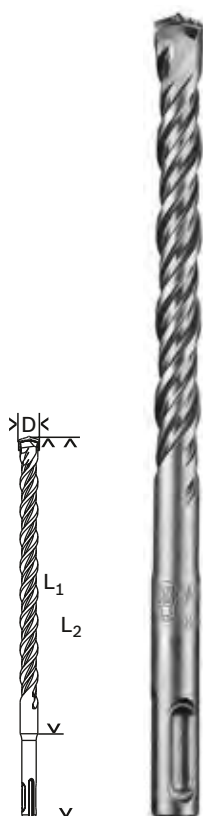
For use in rotary hammers with SDS-plus holder



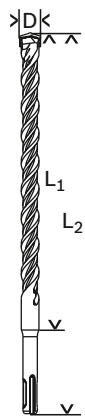
Diameter D mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
3.0	50	100	A2	1	F 00Y 266 000	3 165 140 654 982
3.5	50	110	A2	1	F 00Y 211 875	4 014 468 045 622
4.0	50	115	A2	1	F 00Y 101 470	4 014 468 004 902
4.0	100	165	A2	1	F 00Y 143 186	4 014 468 023 750
5.0	50	115	A2	1	F 00Y 101 471	4 014 468 003 745
5.0	100	165	A2	1	F 00Y 101 472	4 014 468 003 967
5.0	150	215	A2	1	F 00Y 139 806	4 014 468 019 418
5.0	200	265	A2	1	F 00Y 265 161	3 165 140 483 681
5.0	250	315	A2	1	F 00Y 205 437	4 014 468 042 423
5.0	400	465	A2	1	F 00Y 265 162	3 165 140 483 698
5.5	50	115	A2	1	F 00Y 101 473	4 014 468 004 919
5.5	150	210	A2	1	F 00Y 203 262	4 014 468 040 344
5.5	200	265	A2	1	F 00Y 203 263	4 014 468 040 351

Hammer drill bits PowerLSplus

Diameter D mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
5.5	250	315	A2	1	F 00Y 210 133	4 014 468 045 035
5.5	400	465	A2	1	F 00Y 210 134	4 014 468 045 042
6.0	50	115	A2	1	F 00Y 101 474	4 014 468 003 769
6.0	100	165	A2	1	F 00Y 101 475	4 014 468 003 776
6.0	150	215	A2	1	F 00Y 136 246	4 014 468 004 933
6.0	200	265	A2	1	F 00Y 138 337	4 014 468 004 940
6.0	250	315	A2	1	F 00Y 265 163	3 165 140 483 704
6.0	400	465	A2	1	F 00Y 141 939	4 014 468 021 831
6.5	50	115	A2	1	F 00Y 101 476	4 014 468 004 957
6.5	100	165	A2	1	F 00Y 101 477	4 014 468 004 964
6.5	150	210	A2	1	F 00Y 202 868	4 014 468 040 276
6.5	200	265	A2	1	F 00Y 143 132	4 014 468 023 590
6.5	250	315	A2	1	F 00Y 143 134	4 014 468 042 324
6.5	400	465	A2	1	F 00Y 266 029	3 165 140 655 279
6.5	485	550	A2	1	F 00Y 266 242	3 165 140 770 668
7.0	50	115	A2	1	F 00Y 101 478	4 014 468 004 971
7.0	100	165	A2	1	F 00Y 101 479	4 014 468 004 988
7.0	150	215	A2	1	F 00Y 101 487	4 014 468 042 331
7.0	200	265	A2	1	F 00Y 266 033	3 165 140 655 316
7.0	250	315	A2	1	F 00Y 266 034	3 165 140 655 323
8.0	50	115	A2	1	F 00Y 101 480	4 014 468 004 995
8.0	100	165	A2	1	F 00Y 101 481	4 014 468 003 783
8.0	150	215	A2	1	F 00Y 101 482	4 014 468 003 790
8.0	200	265	A2	1	F 00Y 104 620	4 014 468 005 008
8.0	250	315	A2	1	F 00Y 144 273	4 014 468 028 687
8.0	400	465	A2	1	F 00Y 138 338	4 014 468 005 015
8.0	550	615	A2	1	F 00Y 141 941	4 014 468 021 848
8.5	100	165	A2	1	F 00Y 265 164	3 165 140 483 711
8.5	150	215	A2	1	F 00Y 265 165	3 165 140 483 728
8.5	200	265	A2	1	F 00Y 266 045	3 165 140 655 439
9.0	100	165	A2	1	F 00Y 104 303	4 014 468 005 022
9.0	150	215	A2	1	F 00Y 101 483	4 014 468 005 039
9.0	200	265	A2	1	F 00Y 266 048	3 165 140 655 460
10.0	50	115	A2	1	F 00Y 101 484	4 014 468 005 053
10.0	100	165	A2	1	F 00Y 101 485	4 014 468 003 806
10.0	150	215	A2	1	F 00Y 104 621	4 014 468 003 813
10.0	200	265	A2	1	F 00Y 101 486	4 014 468 005 060
10.0	250	315	A2	1	F 00Y 104 635	4 014 468 003 820
10.0	400	465	A2	1	F 00Y 104 623	4 014 468 005 084
10.0	550	615	A2	1	F 00Y 132 430	4 014 468 017 735
10.0	950	1005	A2	1	F 00Y 141 943	4 014 468 021 855
11.0	100	165	A2	1	F 00Y 101 488	4 014 468 005 091
11.0	150	215	A2	1	F 00Y 133 995	4 014 468 005 107
11.0	200	265	A2	1	F 00Y 101 489	4 014 468 005 114
12.0	100	165	A2	1	F 00Y 101 490	4 014 468 003 837
12.0	150	215	A2	1	F 00Y 104 624	4 014 468 003 844
12.0	200	265	A2	1	F 00Y 101 491	4 014 468 003 851
12.0	250	315	A2	1	F 00Y 137 931	4 014 468 005 121
12.0	400	465	A2	1	F 00Y 104 633	4 014 468 003 868
12.0	550	615	A2	1	F 00Y 104 271	4 014 468 003 875
12.0	950	1005	A2	1	F 00Y 138 071	4 014 468 017 742
13.0	100	165	A2	1	F 00Y 101 492	4 014 468 005 145
13.0	150	215	A2	1	F 00Y 133 996	4 014 468 005 152
13.0	200	265	A2	1	F 00Y 138 340	4 014 468 005 169
14.0	100	165	A2	1	F 00Y 101 494	4 014 468 005 176



Hammer drill bits PowerLSplus



Diameter D mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
14.0	150	215	A2	1	F 00Y 104 625	4 014 468 003 882
14.0	200	265	A2	1	F 00Y 101 495	4 014 468 005 183
14.0	250	315	A2	1	F 00Y 104 626	4 014 468 003 899
14.0	400	465	A2	1	F 00Y 104 300	4 014 468 005 190
14.0	550	615	A2	1	F 00Y 104 272	4 014 468 005 220
14.0	950	1005	A2	1	F 00Y 138 072	4 014 468 017 759
15.0	100	165	A2	1	F 00Y 101 496	4 014 468 005 206
15.0	200	265	A2	1	F 00Y 101 497	4 014 468 005 213
15.0	400	465	A2	1	F 00Y 104 627	4 014 468 021 664
16.0	150	215	A2	1	F 00Y 104 294	4 014 468 003 905
16.0	200	265	A2	1	F 00Y 138 341	4 014 468 005 244
16.0	250	315	A2	1	F 00Y 205 436	4 014 468 042 416
16.0	400	465	A2	1	F 00Y 104 629	4 014 468 003 912
16.0	550	615	A2	1	F 00Y 104 276	4 014 468 003 929
16.0	950	1005	A2	1	F 00Y 138 073	4 014 468 017 766
17.0	150	215	A2	1	F 00Y 137 235	4 014 468 021 657
17.0	250	315	A2	1	F 00Y 140 975	4 014 468 029 769
17.0	400	465	A2	1	F 00Y 222 485	3 165 140 525 664
18.0	150	200	A2	1	F 00Y 104 279	4 014 468 003 936
18.0	250	300	A2	1	F 00Y 104 305	4 014 468 003 622
18.0	400	450	A2	1	F 00Y 104 630	4 014 468 005 275
18.0	550	600	A2	1	F 00Y 138 552	4 014 468 013 645
18.0	950	1000	A2	1	F 00Y 138 074	4 014 468 017 773
19.0	150	200	A2	1	F 00Y 104 280	4 014 468 005 282
19.0	300	250	A2	1	F 00Y 140 976	4 014 468 044 922
19.0	400	450	A2	1	F 00Y 104 631	4 014 468 021 688
20.0	150	200	A2	1	F 00Y 104 282	4 014 468 003 639
20.0	250	300	A2	1	F 00Y 104 632	4 014 468 005 299
20.0	400	450	A2	1	F 00Y 104 634	4 014 468 003 646
20.0	550	600	A2	1	F 00Y 104 304	4 014 468 005 305
20.0	950	1000	A2	1	F 00Y 138 075	4 014 468 017 780
22.0	200	250	A2	1	F 00Y 104 284	4 014 468 003 653
22.0	400	450	A2	1	F 00Y 104 285	4 014 468 003 660
22.0	550	600	A2	1	F 00Y 138 555	4 014 468 013 652
22.0	950	1000	A2	1	F 00Y 138 076	4 014 468 017 797
24.0	200	250	A2	1	F 00Y 104 288	4 014 468 005 329
24.0	400	450	A2	1	F 00Y 104 289	4 014 468 005 336
25.0	200	250	A2	1	F 00Y 104 290	4 014 468 005 343
25.0	400	450	A2	1	F 00Y 104 291	4 014 468 005 350
25.0	550	600	A2	1	F 00Y 266 109	3 165 140 656 078
25.0	950	1000	A2	1	F 00Y 144 000	4 014 468 026 065
26.0	200	250	A2	1	F 00Y 104 292	4 014 468 021 862
26.0	400	450	A2	1	F 00Y 104 293	4 014 468 005 367

10-piece bulk pack

3.5	50	110	E	10	F 00Y 211 870	4 014 468 045 578
3.5	100	160	E	10	F 00Y 212 239	4 014 468 046 360
4.0	50	115	E	10	F 00Y 136 980	4 014 468 044 854
4.0	100	165	E	10	F 00Y 211 871	4 014 468 045 585
5.0	50	115	E	10	F 00Y 136 979	4 014 468 013 102
5.0	100	165	E	10	F 00Y 138 473	4 014 468 013 621
5.5	100	165	E	10	F 00Y 265 167	3 165 140 483 742
6.0	50	115	E	10	F 00Y 136 981	4 014 468 013 126
6.0	100	165	E	10	F 00Y 136 982	4 014 468 013 133

Hammer drill bits PowerLSplus

Diameter D mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------------	----------------	---------------	-------------	----------

10-piece bulk pack



6.0	150	215	E	10	F 00Y 142 679	4 014 468 023 217
6.5	100	165	E	10	F 00Y 211 873	4 014 468 045 608
6.5	150	215	E	10	F 00Y 211 874	4 014 468 045 615
6.5	200	265	E	10	F 00Y 265 168	3 165 140 483 759
7.0	100	165	E	10	F 00Y 137 806	4 014 468 013 348
8.0	100	165	E	10	F 00Y 136 984	4 014 468 013 157
8.0	150	215	E	10	F 00Y 136 985	4 014 468 013 164
8.0	200	265	E	10	F 00Y 142 680	4 014 468 023 392
10.0	100	165	E	10	F 00Y 136 986	4 014 468 013 171
10.0	150	215	E	10	F 00Y 136 987	4 014 468 013 188
10.0	200	265	E	10	F 00Y 142 681	4 014 468 023 408
12.0	100	165	E	10	F 00Y 136 988	4 014 468 013 195
12.0	150	215	E	10	F 00Y 136 989	4 014 468 013 201
12.0	200	265	E	10	F 00Y 142 682	4 014 468 023 415

Sets – Hammer drill bits PowerLSplus

Set contents diameter mm	Working length(s) mm	Overall length(s) mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------------	----------------------	----------------	---------------	-------------	----------



5-piece hammer drill bit set "PowerLSplus" in PowerBox

5.0	50	115	P	5	F 00Y 266 203	3 165 140 709 569
6.0	50	115				
6.0	100	165				
8.0	100	165				
10.0	100	165				
6.0	100	165	P	5	F 00Y 266 205	3 165 140 709 583
6.0	100	165				
8.0	100	165				
8.0	100	165				
10.0	100	165				



7-piece hammer drill bit set "PowerLSplus" in plastic case

5.0	50	115	P	7	F 00Y 124 389	4 014 468 003 950
6.0	50	115				
6.0	50	115				
6.0	100	165				
8.0	100	165				
8.0	100	165				
10.0	100	165				



Hawera rebar cutter:

REBAR CUTTER

Specially designed for drilling into rebar



Tungsten carbide teeth:

> Specially shaped and firmly anchored tungsten carbide tooth for maximum drilling speed

Long-life tungsten carbide:

> Long life/high resistance

Ventilation hole:

> Dissipates heat and allows the removal of metal chips

Unique flute design:

> Steep flute allows optimal removal of drilling dust and provides longer life

2 + 2 flute design:

> Vibration-optimised flute design for maximum power transfer and speed

RebarCutter SDS-plus

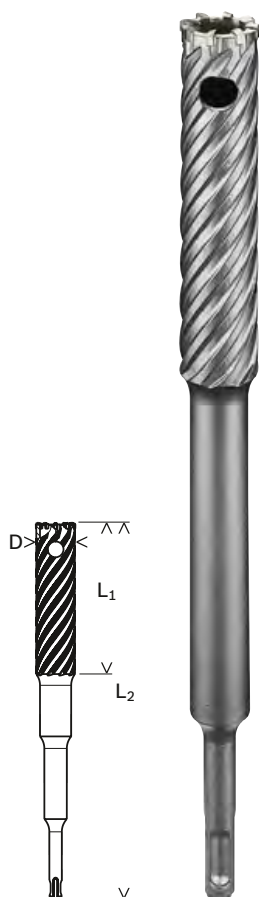
Recommended for working on:

Rebar in concrete

User instructions:

For non-impact use in rotary hammers with SDS-plus holder. Only cut through rebar with the permission of the architect.

Only use the Rebar Cutter without impact.



Diameter D mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
16	120	300	E	1	F 00Y 265 618	3 165 140 576 604
18	120	300	E	1	F 00Y 265 619	3 165 140 576 611
20	120	300	E	1	F 00Y 265 620	3 165 140 576 628
22	120	300	E	1	F 00Y 265 621	3 165 140 576 635
25	120	300	E	1	F 00Y 265 622	3 165 140 576 642
28	120	300	E	1	F 00Y 265 623	3 165 140 576 659
32	120	300	E	1	F 00Y 265 624	3 165 140 576 666



Hawera dust extraction drill bits:

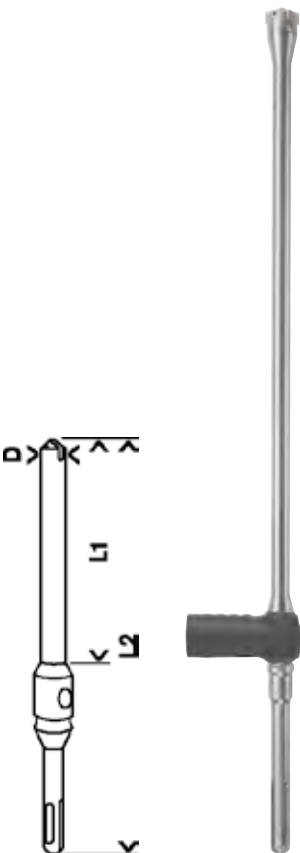
SPEED CLEAN PLUS

Drilling and cleaning in the same operation



- 4 cutters:**
- > Extremely robust and aggressive carbide cutting edges for a fast drilling rate
 - > Fine grade, highly durable carbide for long life and best wear resistance
- activeQ:**
- > Active centring tip for active cutting in concrete
- Extraction holes:**
- > 2 extraction holes for optimum dust removal
- Wear indicator:**
- > The visibility of the wear indicator can be used as a guide for the placement of fixings

Dust extraction drill bit SpeedCleanplus



Recommended for working on:
Concrete

User instructions:
12 to 15 mm diameters are two-cutters.
The best result is achieved in combination with an SDS-plus rotary hammer and a dust class M dust extractor.
Always follow the instructions provided by the fixings manufacturer regarding the fitting of fixings.

Diameter D mm	Working length (L1) mm	Total length (L2) mm	Packaging type	Pack quantity	Part number	EAN code
12	200	330	A1	1	F 00Y 266 539*	3 165 140 901 567
14	250	380	A1	1	F 00Y 266 540*	3 165 140 901 574
15	250	380	A1	1	F 00Y 266 541*	3 165 140 901 581
16	250	380	A1	1	F 00Y 266 542*	3 165 140 901 598
18	320	450	A1	1	F 00Y 266 543*	3 165 140 901 604
20	320	450	A1	1	F 00Y 266 544*	3 165 140 901 611
22	320	450	A1	1	F 00Y 266 545*	3 165 140 901 628
24	320	450	A1	1	F 00Y 266 546*	3 165 140 901 635

* Available from 2017



Hawera core cutters:

CORECUTTER PLUS

For switch sockets



Asymmetric tungsten carbide teeth:

> The number of cutting edges is adapted to the diameter

Fine grade, highly durable carbide:

> Long life/best resistance

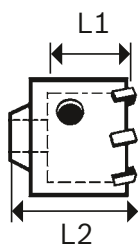
Impact core cutters CoreCutterplus

Recommended for working on:

Concrete, masonry and limestone

User instructions:

For use in rotary hammers with SDS-plus or hex shank

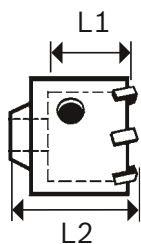


Diameter mm	Core cutter depth (L1) mm	Working length (L2) mm	Number of teeth	Packaging type	Pack quantity	Part number	EAN code
-------------	---------------------------	------------------------	-----------------	----------------	---------------	-------------	----------

Individual cutters, without pilot drill bit and shank

25	50	72	4	G	1	F 00Y 124 563	4 014 468 006 128
30	50	72	6	G	1	F 00Y 124 564	4 014 468 006 135
35	50	72	6	G	1	F 00Y 124 565	4 014 468 006 142
40	50	72	6	G	1	F 00Y 124 566	4 014 468 006 159
50	50	72	6	G	1	F 00Y 124 567	4 014 468 006 166
68	50	72	6	G	1	F 00Y 124 568	4 014 468 006 173
82	50	72	6	G	1	F 00Y 124 569	4 014 468 006 180
90	50	72	6	G	1	F 00Y 124 570	4 014 468 006 197
100	50	72	6	G	1	F 00Y 124 571	4 014 468 006 203
112	50	72	6	G	1	F 00Y 124 572	4 014 468 006 210

Impact core cutters CoreCutterplus, complete



Diameter mm	Core cutter depth (L1) mm	Working length (L2) mm	Packaging type	Pack quantity	Part number	EAN code
-------------	---------------------------	------------------------	----------------	---------------	-------------	----------

Complete cutters, with pilot drill bit and shank

68	54	72	E	1	F 00Y 141 317	4 014 468 020 346
82	54	72	E	1	F 00Y 141 318	4 014 468 020 353

Accessories – Impact core cutters CoreCutterplus

Mount for machine side	Diameter mm	Overall length mm	Packaging type	Pack quantity	Part number	EAN code
------------------------	-------------	-------------------	----------------	---------------	-------------	----------

Hexagon WAF 9.5 mm shanks without pilot drill bit



Hexagon WAF 9.5	76	L	1	F 00Y 142 458	4 014 468 023 255
-----------------	----	---	---	---------------	-------------------

Hexagon WAF 11 mm shanks without pilot drill bit



Hexagon WAF 11	-	78	L	1	F 00Y 142 455	4 014 468 023 224
----------------	---	----	---	---	---------------	-------------------

SDS-plus shanks without pilot drill bit



SDS-plus	-	105	L	1	F 00Y 142 459	4 014 468 023 262
SDS-plus	-	220	L	1	F 00Y 142 460	4 014 468 023 279
SDS-plus	-	370	L	1	F 00Y 142 461	4 014 468 023 286

Pilot drill bit with diameter of 8 mm for shank



-	8	120	G	1	F 00Y 142 462	4 014 468 023 293
---	---	-----	---	---	---------------	-------------------

HSS pilot drill bit with diameter of 7.2 mm; for wood

-	7.2	109	C	1	F 00Y 142 464	4 014 468 023 316
---	-----	-----	---	---	---------------	-------------------

Tungsten carbide pilot drill bit with diameter of 8 mm for shank



-	8	120	C	1	F 00Y 142 463	4 014 468 023 309
---	---	-----	---	---	---------------	-------------------



Hawera hammer drill bits:

POWERLSP^{MAX}

Highest drilling speed



Known as **SPEEDX**



Full carbide 5-cutter

> Extremely robust and aggressive full carbide S-cutter and inclined side cutters for aggressive drilling rates

activeQ

> Active centring tip for active cutting in concrete and reinforced concrete

Fine grade, highly durable carbide

> Long life/best resistance

Wear indicator

> The visibility of the wear indicator can be used as a guide for the placement of fixings

2 + 2 flute design

> Vibration-optimised flute design for maximum power transfer and speed

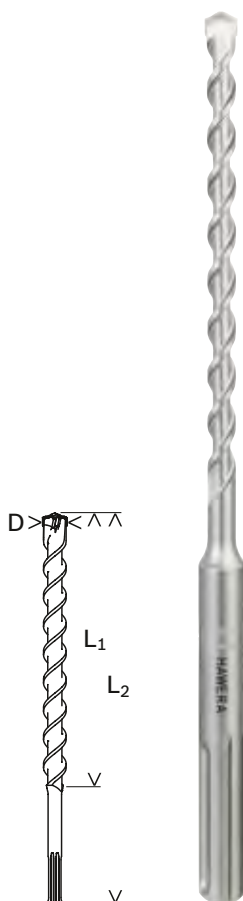
Hammer drill bits PowerLSPmax

Recommended for working on:

Concrete and reinforced concrete, masonry and limestone

User instructions:

For use in rotary hammers with SDS-max holder; * 12 to 15 mm diameter are two-cutters. Working lengths of 200, 400, 600, 800 and 1200 mm. Re-closable tradesman packaging

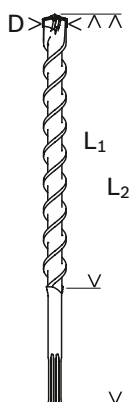


Diameter D mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
12.0	200	340	E	1	F 00Y 265 422*	3 165 140 566 971
12.0	400	540	E	1	F 00Y 265 423*	3 165 140 566 988
12.0	600	740	E	1	F 00Y 265 424*	3 165 140 566 995
12.0	800	940	E	1	F 00Y 265 425*	3 165 140 567 008
14.0	200	340	E	1	F 00Y 265 428*	3 165 140 567 039
14.0	400	540	E	1	F 00Y 265 429*	3 165 140 567 046
14.0	600	740	E	1	F 00Y 265 430*	3 165 140 567 053
14.0	800	940	E	1	F 00Y 265 431*	3 165 140 567 060
15.0	200	340	E	1	F 00Y 265 433*	3 165 140 567 084
15.0	400	450	E	1	F 00Y 265 434*	3 165 140 567 091

* Two-cutter

Hammer drill bits PowerLSPmax

Diameter D mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
16.0	200	340	E	1	F 00Y 265 435	3 165 140 567 107
16.0	400	540	E	1	F 00Y 265 436	3 165 140 567 114
16.0	600	740	E	1	F 00Y 265 437	3 165 140 567 121
16.0	800	940	E	1	F 00Y 265 438	3 165 140 567 138
16.0	1200	1340	E	1	F 00Y 265 439	3 165 140 567 145
17.0	200	340	E	1	F 00Y 265 440	3 165 140 567 152
17.0	400	540	E	1	F 00Y 265 441	3 165 140 567 169
18.0	200	340	E	1	F 00Y 265 442	3 165 140 567 176
18.0	400	540	E	1	F 00Y 265 443	3 165 140 567 183
18.0	600	740	E	1	F 00Y 265 444	3 165 140 567 190
18.0	800	940	E	1	F 00Y 265 445	3 165 140 567 206
18.0	1200	1340	E	1	F 00Y 265 446	3 165 140 567 213
19.0	200	320	E	1	F 00Y 265 447	3 165 140 567 220
19.0	400	520	E	1	F 00Y 265 448	3 165 140 567 237
20.0	200	320	E	1	F 00Y 265 449	3 165 140 567 244
20.0	400	520	E	1	F 00Y 265 450	3 165 140 567 251
20.0	600	720	E	1	F 00Y 265 451	3 165 140 567 268
20.0	800	920	E	1	F 00Y 265 452	3 165 140 567 275
20.0	1200	1320	E	1	F 00Y 265 453	3 165 140 567 282
22.0	200	320	E	1	F 00Y 265 454	3 165 140 567 299
22.0	400	520	E	1	F 00Y 265 455	3 165 140 567 305
22.0	600	720	E	1	F 00Y 265 456	3 165 140 567 312
22.0	800	920	E	1	F 00Y 265 457	3 165 140 567 329
22.0	1200	1320	E	1	F 00Y 265 458	3 165 140 567 336
24.0	200	320	E	1	F 00Y 265 459	3 165 140 567 343
24.0	400	520	E	1	F 00Y 265 460	3 165 140 567 350
25.0	200	320	E	1	F 00Y 265 461	3 165 140 567 367
25.0	400	520	E	1	F 00Y 265 462	3 165 140 567 374
25.0	600	720	E	1	F 00Y 265 463	3 165 140 567 381
25.0	800	920	E	1	F 00Y 265 464	3 165 140 567 398
25.0	1200	1320	E	1	F 00Y 265 465	3 165 140 567 404
26.0	200	320	E	1	F 00Y 265 466	3 165 140 567 411
26.0	400	520	E	1	F 00Y 265 467	3 165 140 567 428
28.0	200	320	E	1	F 00Y 265 468	3 165 140 567 435
28.0	400	520	E	1	F 00Y 265 469	3 165 140 567 442
28.0	600	720	E	1	F 00Y 265 470	3 165 140 567 459
28.0	800	920	E	1	F 00Y 265 471	3 165 140 567 466
28.0	1200	1320	E	1	F 00Y 265 472	3 165 140 567 473
30.0	200	320	E	1	F 00Y 265 473	3 165 140 567 480
30.0	400	520	E	1	F 00Y 265 474	3 165 140 567 497
32.0	200	320	E	1	F 00Y 265 475	3 165 140 567 503
32.0	400	520	E	1	F 00Y 265 476	3 165 140 567 510
32.0	600	720	E	1	F 00Y 265 477	3 165 140 567 527
32.0	800	920	E	1	F 00Y 265 478	3 165 140 567 534
32.0	1200	1320	E	1	F 00Y 265 479	3 165 140 567 541
35.0	400	520	E	1	F 00Y 265 480	3 165 140 567 558
35.0	600	720	E	1	F 00Y 265 481	3 165 140 567 565
35.0	800	920	E	1	F 00Y 265 482	3 165 140 567 572
35.0	1200	1320	E	1	F 00Y 265 483	3 165 140 567 589
38.0	400	520	E	1	F 00Y 265 484	3 165 140 567 596
38.0	600	720	E	1	F 00Y 265 485	3 165 140 567 602
40.0	400	520	E	1	F 00Y 265 486	3 165 140 567 619
40.0	600	720	E	1	F 00Y 265 487	3 165 140 567 626
40.0	800	920	E	1	F 00Y 265 488	3 165 140 567 633
40.0	1200	1320	E	1	F 00Y 265 489	3 165 140 567 640
45.0	400	520	E	1	F 00Y 265 490	3 165 140 567 657
52.0	400	520	E	1	F 00Y 265 491	3 165 140 567 664





Hawera hammer drill bits:

BREAKTHROUGH

For large holes



3 cutter, vacuum brazing and hardening:

> For fast breakthrough and high removal rates by large bit bodies

Fine grade, highly durable carbide:

> Long life/best resistance

Long shank:

> For breakthrough drilling

2 spiral U-shape:

> Standard lifetime/good drilling dust removal

BreakThrough drill bits, SDS-max

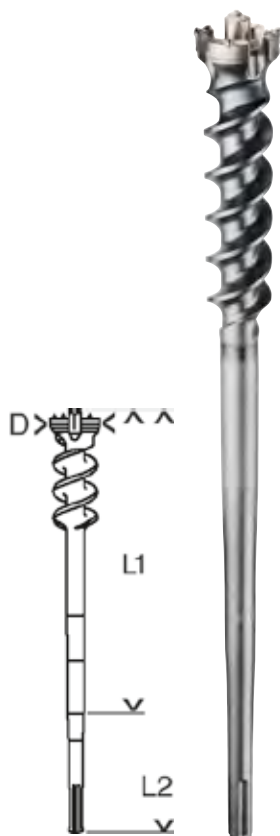
Recommended for breakthroughs with large diameters (45 - 80 mm) in:

Concrete, masonry, limestone, e.g. for external cable and pipe connections

User instructions:

Use only breakthrough drill bits in suitable hammer classes, due to the risk of overload. Observe the operating instructions for the rotary hammer.

One-piece tool, bell-shaped head with asymmetrically positioned tungsten carbide pins and tungsten carbide centre cutter. Large-volume spiral flute, tapered shank.



Diameter D mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------------	----------------	---------------	-------------	----------

One-piece tool with tapered shank, shot-blasted and dry-coated

45	450	590	D	1	F 00Y 139 693	4 014 468 019 159
45	850	990	D	1	F 00Y 139 694	4 014 468 019 166
55	450	590	D	1	F 00Y 139 695	4 014 468 019 173
55	850	990	D	1	F 00Y 139 696	4 014 468 019 180
65	450	590	D	1	F 00Y 139 697	4 014 468 019 197
65	850	990	D	1	F 00Y 139 698	4 014 468 019 203
80	450	590	D	1	F 00Y 139 699	4 014 468 019 210
80	850	990	D	1	F 00Y 139 700	4 014 468 019 227



Accessories – Hammer drill bits

Mount for machine side	Mount for tool side	Overall length mm	Packaging type	Pack quantity	Part number	EAN code
------------------------	---------------------	-------------------	----------------	---------------	-------------	----------



Adapter with slot locking device for fitting hammer drill bits with SDS-plus shank

SDS-max	SDS-plus	220	E	1	F 00Y 139 765	4 014 468 019 272
---------	----------	-----	---	---	---------------	-------------------



Hawera dust extraction drill bits:

SPEED CLEAN MAX

Drilling and cleaning in the same operation



4 cutters:

- > Extremely robust and aggressive carbide cutting edges for a fast drilling rate
- > Fine grade, highly durable carbide for long life and best wear resistance

activeQ:

- > Active centring tip for active cutting in concrete

Extraction holes:

- > 2 extraction holes for optimum dust removal

Wear indicator:

- > The visibility of the wear indicator can be used as a guide for the placement of fixings

Dust extraction drill bit SpeedCleanmax

Recommended for working on:

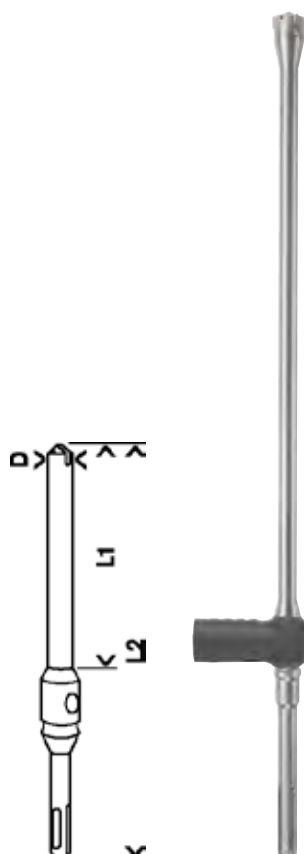
Concrete

User instructions:

14 mm diameter is two-cutter.

The best result is achieved in combination with an SDS-max rotary hammer and a dust class M dust extractor.

Always follow the instructions provided by the fixings manufacturer regarding the fitting of fixings.



Diameter D mm	Working length (L1) mm	Total length (L2) mm	Packaging type	Pack quantity	Part number	EAN code
14	400	620	A1	1	F 00Y 266 547*	3 165 140 901 642
16	400	620	A1	1	F 00Y 266 548*	3 165 140 901 659
18	400	620	A1	1	F 00Y 266 549*	3 165 140 901 666
20	400	620	A1	1	F 00Y 266 550*	3 165 140 901 673
22	400	620	A1	1	F 00Y 266 551*	3 165 140 901 680
24	400	620	A1	1	F 00Y 266 552*	3 165 140 901 697
25	500	720	A1	1	F 00Y 266 553*	3 165 140 901 703
28	600	820	A1	1	F 00Y 266 554*	3 165 140 901 710
30	600	820	A1	1	F 00Y 266 555*	3 165 140 901 727
32	600	820	A1	1	F 00Y 266 556*	3 165 140 901 734
35	650	870	A1	1	F 00Y 266 557*	3 165 140 901 741

* Available from 2017



Hawera core cutters:

CORECUTTER^{MAX}

For switch sockets



Asymmetric tungsten carbide teeth:

> The number of cutting edges is adapted to the diameter

Fine grade, highly durable carbide:

> Long life/best resistance

Long shank:

> For breakthrough drilling

2 spiral U-shape:

> Standard lifetime/good drilling dust removal

Hammer core cutters CoreCuttermax, one-piece

Recommended for working on:

Concrete, masonry and limestone

User instructions:

One-piece design ensures optimal power transfer from the machine. Aggressive drilling rates and high running smoothness through asymmetric tooth layout.



Diameter D mm	Core cutter depth (L1) mm	Working length (L2) mm	Number of teeth	Packaging type	Pack quantity	Part number	EAN code
45	80	420	6	M	1	F 00Y 265 384	3 165 140 557 597
50	80	160	6	M	1	F 00Y 265 385	3 165 140 557 603
50	80	420	6	M	1	F 00Y 265 386	3 165 140 557 610
55	80	160	6	M	1	F 00Y 265 387	3 165 140 557 627
55	80	420	6	M	1	F 00Y 265 388	3 165 140 557 634
68	80	160	6	M	1	F 00Y 265 389	3 165 140 557 641
68	80	420	6	M	1	F 00Y 265 390	3 165 140 557 658
82	80	160	8	M	1	F 00Y 265 391	3 165 140 557 665
82	80	420	8	M	1	F 00Y 265 392	3 165 140 557 672
90	80	160	8	M	1	F 00Y 265 393	3 165 140 557 689
90	80	420	8	M	1	F 00Y 265 394	3 165 140 557 696
100	80	300	11	M	1	F 00Y 265 395	3 165 140 557 702
125	80	300	11	M	1	F 00Y 265 396	3 165 140 557 719
150	80	300	13	M	1	F 00Y 265 397	3 165 140 557 726

Hammer core cutters CoreCuttermax, two-piece

Recommended for working on:

Limestone, masonry and concrete



Diameter D mm	Core cutter depth (L1) mm	Working length (L2)	Packaging type	Pack quantity	Part number	EAN code
---------------	---------------------------	---------------------	----------------	---------------	-------------	----------

Two-piece core cutter with special threaded connection; supplied complete, with pilot drill bit

45	80	112	M	1	F 00Y 145 570	4 014 468 033 322
50	80	111	M	1	F 00Y 145 571	4 014 468 033 339
55	80	109	M	1	F 00Y 145 572	4 014 468 033 346
68	80	108	M	1	F 00Y 145 573	4 014 468 033 353
82	80	102	M	1	F 00Y 145 574	4 014 468 033 360
90	80	100	M	1	F 00Y 145 575	4 014 468 033 377
100	80	96	M	1	F 00Y 145 576	4 014 468 033 384
125	80	97	M	1	F 00Y 145 577	4 014 468 033 391
150	80	92	M	1	F 00Y 145 578	4 014 468 033 407

Accessories – Hammer core cutters CoreCuttermax

Diameter D in mm	Length mm	Mount for machine side	Packaging type	Pack quantity	Part number	EAN code
------------------	-----------	------------------------	----------------	---------------	-------------	----------

Adapter



-	200	SDS-max	A1	1	F 00Y 145 705	4 014 468 033 674
-	200	SDS-max	A1	1	F 00Y 265 209	3 165 140 490 320
-	460	SDS-max	A1	1	F 00Y 145 706	4 014 468 033 681

Pilot drill bit



11.0	125	-	D	1	F 00Y 265 211	3 165 140 490 344
11.5	136	-	C	1	F 00Y 265 595	3 165 140 571 616



Fixing set: fixing pin and rubber ring

-	-	-	W	1	F 00Y 265 398	3 165 140 560 092
---	---	---	---	---	---------------	-------------------

Impact and rotary drill bits, cylindrical:

ACTIVEPOWER powerful and fast

The successor to **ELASTICSUPER**

3 – 20 mm diameter



Active centring tip

For active cutting in concrete
➤ high stability and precision



Shank design for PowerTransfer

Wings ensure that the drill bit locks securely into the drill chuck
➤ full power transfer, fast drilling action



**Full speed ahead:
20% faster**

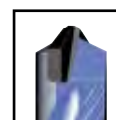


The full power of the machine is transferred to the drill bit. This is new to cylindrical drill bits. The benefits: no spinning, continuously fast drilling progress.



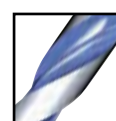
MULTI CONSTRUCTION versatile and fast

3 – 20 mm diameter



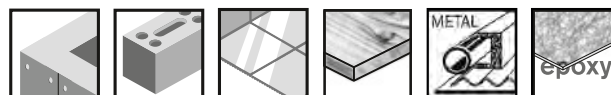
Sharp tungsten carbide cutting edge

Multiple diamond-ground
➤ versatile to use



Innovative steep spiral

➤ fast drilling dust and chip removal



**High-performance multi-purpose drill bit:
The all-rounder**



The only drill bit in its class that can be used for both rotary and impact drilling. Fewer drill bit changes. For concrete, masonry, ceramics, wood, plastics, structural steel and aluminium.



Application recommendation

Hawera impact and rotary drill bits

	ACTIVE POWER	PERFECT POWER	BASIC POWER	MULTI CONSTRUCTION	SOFT CERAMICS	GRANITE POWER	MULTI CONSTRUCTION	POWER CERAMICS
Application range	Cylindrical 						Hexagonal 	
Concrete, reinforced	•	•		•		•	•	
Concrete	•	•					•	
Roofing tiles				○*	○*		○*	•
Tiles				•*	•*		•*	•
Veneered chipboard				•*			•*	
Gypsum plasterboard				•*			•*	
Granite	○					•		
Hardwood				•*			•*	
Limestone	•	•	•	•		•	•	
Ceramics				•*	•*		•*	
Clinker	•	•		•		•	•	
Plastic laminated chipboard and fibre boards				•*			•*	
Plastics				•*			•*	
Hollow core brick	•	•	•	•		•	•	•
Marble	•	•		•	•*	•	•	
Marble, hard	○			•		•	•	
Masonry	•	•	•	•		•	•	
Multi-layer materials				•*			•*	
Porous concrete	•	•	•	•		•	•	
Slate				•*	•*		•*	
Solid brick	•	•	•	•		•	•	•
Softwood				•*			•*	
Cement-bonded fibre boards				•*			•*	
Cement-bonded chipboard				•*			•*	

* non-impact use only

• very suitable

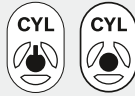
○ suitable



The Hawera Power Team

Concrete and masonry drill bits

Impact and rotary drill bits Cylindrical



Diameter range:

Application range:

Performance / price categories:

Performance profile

> Lifetime

> Speed

> Drilling dust removal

ACTIVEPOWER



3 – 20 mm diameter

Concrete, granite, masonry, limestone,
natural and artificial stone

★★★★★

• • • •

• • • • •

• • • • •

Special drill bits:

Impact and rotary drill bits Cylindrical



Diameter range:

Application range:

Performance / price categories:

Performance profile

> Lifetime

> Speed

> Drilling dust removal

MULTI CONSTRUCTION



3 – 20 mm diameter

Tiles / ceramics up to a score hardness of 8,
concrete B35, masonry, bricks, wood, plastics,
multi-layer materials, aluminium and structural steel

★★★★★

• • •

• • • • •

• • • •

Impact and rotary drill bits Hexagonal



Diameter range:

Application range:

Performance / price categories:

Performance profile

> Lifetime

> Speed

> Drilling dust removal

MULTI CONSTRUCTION



3 – 10 mm diameter

Tiles / ceramics, concrete B35, masonry, bricks,
wood, plastics, multi-layer materials, aluminium
and structural steel

★★★★★

• • •

• • • • •

• • • •

PERFECTPOWER



3 - 25 mm diameter

Concrete, masonry, limestone,
natural and artificial stone

★ ★ ★

• • •
• • •
• • •

BASICPOWER



3 - 20 mm diameter

Masonry, limestone, brick

★ ★

•
• •
• • •

SOFT CERAMICS



3 - 16 mm diameter

Soft to medium density tiles,
porcelain and ceramics

★ ★ ★

• • •
• • •
• • •

GRANITE POWER



4 - 14 mm diameter

Natural stone, concrete, masonry, granite

★ ★ ★

• • • •
• • •
• • •

POWER CERAMICS **new**



3 - 10 mm diameter

Roofing tiles, soft to medium density tiles

★ ★ ★ ★

• • • • •
• • • •
• • •



Hawera impact and rotary drill bits:

ACTIVEPOWER

Hammer-resistant heavy duty concrete drill bit – the specialist for concrete and masonry, basis ISO 5468



Hammer drilling head design

> High drilling performance and long lifetime

Precision-ground, high-temperature-brazed tungsten carbide tip

> Fast, accurate and safe drilling

Hardened steel body in unique design with deep U-shaped flute

> Reduction of clogging caused by drilling dust

Wide and deeply supported tungsten carbide plate

> Prevents the tip from breaking out

Concrete drill bits ActivePower

Recommended for working on:

Concrete, masonry and limestone

User instructions:

For use in impact drills up to 1000 W and rotary hammers with chuck toolholder; well suited to drilling holes for fixings
Extremely bend-resistant concrete drill bit with diamond-ground tungsten carbide tip manufactured to DIN 8039, specially alloyed steel quality and environmentally friendly dry rust protection



Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter d mm	Packaging type	Pack quantity	Part number	EAN code
3.0	50	90	2.8	B1	1	F 00Y 266 150	3 165 140 690 867
3.5	50	90	3.3	B1	1	F 00Y 266 151	3 165 140 690 874
4.0	50	90	3.8	B1	1	F 00Y 266 152	3 165 140 690 881
5.0	50	100	4.5	B1	1	F 00Y 266 154	3 165 140 690 904
5.0	100	150	4.5	B1	1	F 00Y 266 155	3 165 140 690 911
5.5	50	100	4.5	B1	1	F 00Y 266 156	3 165 140 690 928
6.0	50	100	5.5	B1	1	F 00Y 266 158	3 165 140 690 942
6.0	100	150	5.5	B1	1	F 00Y 266 159	3 165 140 690 959
6.0	200	250	5.5	B1	1	F 00Y 266 160	3 165 140 690 966
6.5	50	100	5.5	B1	1	F 00Y 266 161	3 165 140 690 973
7.0	50	100	6.5	B1	1	F 00Y 266 163	3 165 140 690 997
8.0	50	100	7.2	B1	1	F 00Y 266 165	3 165 140 691 017
8.0	100	150	7.2	B1	1	F 00Y 266 166	3 165 140 691 024
8.0	200	250	7.2	B1	1	F 00Y 266 167	3 165 140 691 031
10.0	100	150	9	B1	1	F 00Y 266 169	3 165 140 691 055

Concrete drill bits ActivePower

Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter d mm	Packaging type	Pack quantity	Part number	EAN code
10.0	200	250	9	B1	1	F 00Y 266 170	3 165 140 691 062
12.0	90	150	10	B1	1	F 00Y 266 171	3 165 140 691 079
12.0	190	250	10	B1	1	F 00Y 266 172	3 165 140 691 086
14.0	90	150	10	B1	1	F 00Y 266 173	3 165 140 691 093
16.0	140	200	10	C	1	F 00Y 266 175	3 165 140 691 116

Sets – Concrete drill bits ActivePower

Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------



5-piece concrete drill bit set "ActivePower" in PowerBox

4.0	P	5	F 00Y 266 184	3 165 140 691 208
5.0				
6.0				
6.0				
8.0				



7-piece concrete drill bit set "ActivePower" in PowerBox

4.0	P	7	F 00Y 266 185	3 165 140 691 215
5.0				
5.0				
6.0				
6.0				
8.0				
10.0				



Hawera impact and rotary drill bits:

PERFECTPOWER

Hammer-resistant concrete drill bit – the specialist for concrete, stone and masonry, basis ISO 5468



Hammer drilling head design

> Drills quickly, even in hard concrete and stone

High-temperature-brazed tungsten carbide tip

> Long lifetime and fast drilling

Hardened steel body with milled U-shaped flute

> Rapid drilling dust removal and high productivity

Wide and deeply supported tungsten carbide plate

> Prevents the tip from breaking out

Concrete drill bits PerfectPower

Recommended for working on:

Concrete, masonry, limestone, natural and artificial stone

User instructions:

For use in impact drills up to 1000 W and rotary hammers with chuck toolholder; well suited to drilling holes for fixings; Extremely bend-resistant concrete drill bit made of tempered special steel; tungsten carbide tip manufactured to DIN 8039; environmentally friendly dry rust protection



Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter d mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------------	---------------------	----------------	---------------	-------------	----------

3.0	40	70	2.8	B2	1	F 00Y 201 979	4 014 468 037 764
3.5	40	70	3.3	B2	1	F 00Y 202 033	4 014 468 038 273
4.0	40	75	3.3	B2	1	F 00Y 201 981	4 014 468 037 788
4.5	40	75	3.8	B2	1	F 00Y 201 983	4 014 468 037 795
5.0	50	85	4.5	B2	1	F 00Y 201 985	4 014 468 037 818
5.0	90	150	4.5	B2	1	F 00Y 201 986	4 014 468 037 825
5.5	50	85	4.5	B2	1	F 00Y 201 988	4 014 468 037 832
6.0	60	100	5.5	B2	1	F 00Y 201 991	4 014 468 037 856
6.0	90	150	5.5	B2	1	F 00Y 201 993	4 014 468 037 863
6.5	60	100	5.5	B2	1	F 00Y 201 994	4 014 468 037 870
7.0	60	100	6.5	B2	1	F 00Y 201 997	4 014 468 037 900
8.0	80	120	7.5	B2	1	F 00Y 201 999	4 014 468 037 924
8.0	90	150	7.2	B2	1	F 00Y 203 438	4 014 468 040 443
8.0	150	200	7.5	B2	1	F 00Y 202 000	4 014 468 037 931

Concrete drill bits PerfectPower

Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter d mm	Packaging type	Pack quantity	Part number	EAN code
8.0	350	400	7.5	C	1	F 00Y 202 001	4 014 468 037 948
9.0	80	120	8.0	B2	1	F 00Y 202 002	4 014 468 037 955
10.0	80	120	9.0	B2	1	F 00Y 202 003	4 014 468 037 962
10.0	90	150	9.0	B2	1	F 00Y 203 439	4 014 468 040 450
10.0	150	200	9.0	B2	1	F 00Y 202 004	4 014 468 037 979
10.0	250	300	9.0	C	1	F 00Y 202 005	4 014 468 037 986
10.0	350	400	8.0	C	1	F 00Y 202 006	4 014 468 037 993
10.0	550	600	9.2	D	1	F 00Y 202 007	4 014 468 038 006
11.0	90	150	10.0	B2	1	F 00Y 202 008	4 014 468 038 013
12.0	90	150	10.0	B2	1	F 00Y 202 009	4 014 468 038 020
12.0	150	200	10.0	B2	1	F 00Y 202 010	4 014 468 038 037
12.0	250	300	10.0	C	1	F 00Y 202 011	4 014 468 038 044
12.0	350	400	10.0	C	1	F 00Y 202 012	4 014 468 038 051
12.0	550	600	10.0	D	1	F 00Y 202 013	4 014 468 038 068
13.0	90	150	10.0	B2	1	F 00Y 202 014	4 014 468 038 075
14.0	90	150	10.0	B2	1	F 00Y 202 015	4 014 468 038 082
14.0	250	300	10.0	C	1	F 00Y 202 016	4 014 468 038 099
14.0	350	400	10.0	C	1	F 00Y 202 017	4 014 468 038 105
16.0	100	160	12.3	C	1	F 00Y 202 020	4 014 468 038 136
16.0	350	400	12.3	C	1	F 00Y 202 021	4 014 468 038 143
18.0	100	160	12.3	C	1	F 00Y 202 023	4 014 468 038 167
18.0	350	400	12.3	C	1	F 00Y 202 024	4 014 468 038 174
20.0	100	160	12.7	C	1	F 00Y 202 026	4 014 468 038 198



10-piece bulk pack

4.0	40	75	3.3	I	10	F 00Y 202 333	4 014 468 039 614
5.0	50	85	4.5	I	10	F 00Y 202 334	4 014 468 039 621
6.0	60	100	5.5	I	10	F 00Y 202 335	4 014 468 039 638
8.0	80	120	7.5	I	10	F 00Y 202 336	4 014 468 039 645
10.0	80	120	9.0	I	10	F 00Y 202 337	4 014 468 039 652
12.0	90	150	10.0	I	10	F 00Y 202 338	4 014 468 039 669



Sets – Concrete drill bits PerfectPower

Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------



5-piece concrete drill bit set "PerfectPower" in plastic case

4.0	P	5	F 00Y 202 349	4 014 468 039 744
5.0				
6.0				
8.0				
10.0				



7-piece concrete drill bit set "PerfectPower" in metal case

4.0	N	7	F 00Y 202 351	4 014 468 039 768
5.0				
6.0				
7.0				
8.0				
10.0				
12.0				



Hawera impact and rotary drill bits:

BASICPOWER

The low-cost impact drill bit for all work in stone, basis ISO 5468

Known as **COLT**

Concrete drill bits BasicPower

Recommended for working on:

Masonry, limestone, brick

User instructions:

For use in all impact drills; with tungsten carbide tip manufactured to DIN 8039



Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter d mm	Packaging type	Pack quantity	Parr number	EAN code
3.0	30	60	2.5	B2	1	F 00Y 104 387	4 014 468 011 801
4.0	40	75	3.3	B2	1	F 00Y 104 360	4 014 468 011 689
5.0	50	85	4.0	B2	1	F 00Y 104 361	4 014 468 011 696
5.5	50	85	4.5	B2	1	F 00Y 104 369	4 014 468 022 043
6.0	60	100	4.8	B2	1	F 00Y 104 362	4 014 468 011 702
6.0	90	150	4.8	B2	1	F 00Y 138 369	4 014 468 013 560
6.0	150	200	4.8	B2	1	F 00Y 141 295	4 014 468 020 292
7.0	60	100	5.5	B2	1	F 00Y 104 363	4 014 468 011 719
8.0	80	120	6.0	B2	1	F 00Y 104 364	4 014 468 011 726
8.0	150	200	6.0	B2	1	F 00Y 141 256	4 014 468 022 326
8.0	350	400	6.0	C	1	F 00Y 140 461	4 014 468 022 135
9.0	80	120	7.0	B2	1	F 00Y 104 370	4 014 468 011 771
10.0	80	120	8.0	B2	1	F 00Y 104 365	4 014 468 011 733
10.0	150	200	8.0	B2	1	F 00Y 141 257	4 014 468 022 333
10.0	350	400	8.0	C	1	F 00Y 140 463	4 014 468 022 142
12.0	90	150	9.0	B2	1	F 00Y 104 366	4 014 468 011 740
12.0	150	200	9.0	B2	1	F 00Y 141 296	4 014 468 020 308
12.0	350	400	9.0	C	1	F 00Y 140 465	4 014 468 022 159
14.0	90	150	9.5	B2	1	F 00Y 104 367	4 014 468 011 757
16.0	90	150	12.7	C	1	F 00Y 104 368	4 014 468 011 764



Hawera impact and rotary drill bits:

MULTI CONSTRUCTION

High-performance multi-purpose drill bit – the all-rounder provides optimum results in rotary and impact drilling



Sharp, multiple diamond-ground cutting edges

- > Pointed main spur for accurate centring
- > Problem solver also for hard tiles and ceramics up to a score hardness of 8

Bit body made of alloyed special steel and low-stress high-temperature brazing of the cutting edges

- > Special multi-purpose grinding, no need for annoying drill bit changes
- > Optimum results in a wide range of materials

New type of steep spiral manufactured to own factory standard and robust drilling head with tungsten carbide plate

- > High drilling rate in virtually all materials
- > Long lifetime due to increased drilling dust removal and high level of heat conductivity

Multi-purpose drill bits MultiConstruction

Recommended for working on:

Virtually all materials used in interior fitting work, e.g. tiles and ceramics up to a score hardness of 8, Eternit, masonry, wood, aluminium, structural steel, light building materials, bricks, plastic, concrete B35 and multi-layer materials

User instructions:

For rotary and impact drilling with impact drills and cordless drill drivers; drill at reduced speed of approx. 400-600 rpm when working on tiles with a score hardness of 8; enables drilling in vertically perforated bricks without destroying the cavity webs; ideal for interior fitting work and renovation; ideal for cordless drill drivers because of up to 40% more holes per battery charge



Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter d mm	Packaging type	Pack quantity	Part number	EAN code
3.0	40	70	2.8	B1	1	F 00Y 202 053	4 014 468 037 504
4.0	40	75	3.8	B1	1	F 00Y 202 054	4 014 468 037 511
5.0	50	85	4.5	B1	1	F 00Y 202 055	4 014 468 037 528
5.5	50	85	4.5	B1	1	F 00Y 202 056	4 014 468 037 535
6.0	60	100	5.5	B1	1	F 00Y 202 057	4 014 468 037 542
6.0	90	150	5.5	B1	1	F 00Y 202 058	4 014 468 037 559
6.0	200	250	5.5	B1	1	F 00Y 202 115	4 014 468 066 931
6.5	60	100	5.5	B1	1	F 00Y 202 059	4 014 468 037 566
6.5	90	150	5.5	B1	1	F 00Y 202 060	4 014 468 037 573
7.0	60	100	6.5	B1	1	F 00Y 202 061	4 014 468 037 580
7.0	200	250	6.5	B1	1	F 00Y 202 117	4 014 468 066 955
8.0	80	120	7.2	B1	1	F 00Y 202 063	4 014 468 037 603
8.0	90	150	7.2	B1	1	F 00Y 265 144	3 165 140 462 150
8.0	200	250	7.2	B1	1	F 00Y 202 064	4 014 468 037 610
9.0	80	120	8.0	B1	1	F 00Y 202 065	4 014 468 037 627
10.0	80	120	9.0	B1	1	F 00Y 202 066	4 014 468 037 634
10.0	90	150	9.0	B1	1	F 00Y 265 145	3 165 140 462 167
10.0	200	250	9.0	B1	1	F 00Y 202 067	4 014 468 037 641
11.0	90	150	10.0	B1	1	F 00Y 202 068	4 014 468 037 658

Multi-purpose drill bits MultiConstruction



Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter d mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------------	---------------------	----------------	---------------	-------------	----------

12.0	90	150	10.0	B1	1	F 00Y 202 069	4 014 468 037 665
12.0	200	250	10.0	B1	1	F 00Y 202 070	4 014 468 037 672
14.0	200	250	12.3	B1	1	F 00Y 202 071	4 014 468 037 689
18.0	350	400	16.6	C	1	F 00Y 266 200	3 165 140 693 448

10-piece bulk pack

4.0	40	75	3.8	I	10	F 00Y 224 792	4 014 468 064 449
5.0	50	85	4.5	I	10	F 00Y 224 793	4 014 468 064 456
6.0	60	100	5.5	I	10	F 00Y 224 795	4 014 468 064 470
8.0	80	120	7.2	I	10	F 00Y 224 798	4 014 468 064 500



Sets of MultiConstruction multi-purpose drill bits



Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------

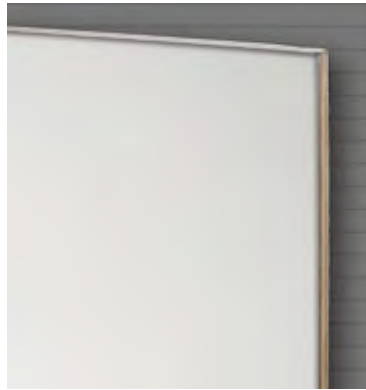
4-piece multi-purpose drill bit set “MultiConstruction” in plastic case

4.0	P	4	F 00Y 202 366	4 014 468 039 911
5.0				
6.0				
8.0				



7-piece multi-purpose drill bit set “MultiConstruction” in metal case

4.0	N	7	F 00Y 202 367	4 014 468 039 935
5.0				
6.0				
6.0				
8.0				
10.0				
12.0				



Hawera rotary drill bits:

SOFT CERAMICS

Ideal tile drill bit for all soft to medium density tiles



Sharp, diamond-ground tungsten carbide cutter

- > Precise drilling starts
- > Prevents the drill bit from "wandering"

Reinforced drilling head

- > Long lifetime

No cooling required

- > Clean and efficient working

Tile drill bits SoftCeramics

Recommended for working on:

Soft to medium density tiles, porcelain, ceramics and non-toughened glass

User instructions:

No cooling required. Use drill bit at low speeds and without impact.



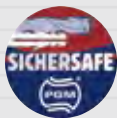
Diameter D mm	Overall length L2 mm	Shank diameter mm	Packaging type	Pack quantity	Part number	EAN code
3.0	70	2.8	H	1	F 00Y 265 721	3 165 140 599 337
4.0	70	3.3	H	1	F 00Y 265 722	3 165 140 599 344
5.0	70	4.0	H	1	F 00Y 265 723	3 165 140 599 351
6.0	80	4.0	H	1	F 00Y 265 725	3 165 140 599 375
8.0	80	5.5	H	1	F 00Y 265 728	3 165 140 599 405
10.0	90	6.0	H	1	F 00Y 265 729	3 165 140 599 412
12.0	90	8.0	H	1	F 00Y 265 730	3 165 140 599 429
14.0	90	8.0	H	1	F 00Y 265 731	3 165 140 599 436
16.0	90	8.0	H	1	F 00Y 265 732	3 165 140 599 443



Hawera impact and rotary drill bits:

GRANITEPOWER

Hammer-resistant heavy duty drill bit –
the specialist for stone



Hammer drilling head design

> High drilling performance and long lifetime

Precision-ground, high-temperature-brazed tungsten carbide tip

> Fast, accurate and safe drilling

Hardened steel body in a unique spiral shape with deep guide channel and U-shape

> Risk of blockage reduced thanks to borehole cuts

Wide and deeply supported tungsten carbide plate

> Prevents the tip from breaking out

GranitePower natural stone drill bit

Recommended for working on:

Granite, natural and artificial stone

User instructions:

For use in impact drills and rotary hammers with chuck toolholder



Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter mm	Packaging type	Pack quantity	Part number	EAN code
4.0	40	75	3.8	B1	1	F 00Y 266 299	3 165 140 804 318
5.0	50	85	4.5	B1	1	F 00Y 266 300	3 165 140 804 325
6.0	60	100	5.5	B1	1	F 00Y 266 301	3 165 140 804 332
6.0	90	150	5.5	B1	1	F 00Y 266 302	3 165 140 804 349
7.0	60	100	6.5	B1	1	F 00Y 266 303	3 165 140 804 356
8.0	80	120	7.2	B1	1	F 00Y 266 304	3 165 140 804 363
8.0	90	150	7.2	B1	1	F 00Y 266 305	3 165 140 804 370
10.0	80	120	9.0	B1	1	F 00Y 266 306	3 165 140 804 387
12.0	90	150	10.0	B1	1	F 00Y 266 307	3 165 140 804 394
14.0	90	150	12.3	B1	1	F 00Y 266 308	3 165 140 804 400



Hawera impact and rotary drill bits:

MULTI CONSTRUCTION

The all-rounder with 1/4" hex shank



Sharp, diamond-ground cutting edges

> Problem solver also for hard materials such as tiles and ceramics

Robust carbide centring tip

> Precise drilling thanks to accurate centring

1/4" hex shank

> Optimum power transfer, especially when used with cordless screwdrivers

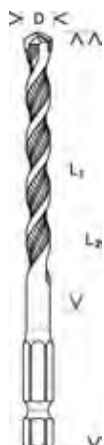
Multi-purpose drill bits MultiConstruction

Recommended for working on:

Tiles, ceramics, masonry, wood, aluminium, brick and plastic

User instructions:

For non-impact use in drills and cordless screwdrivers



Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter mm	Packaging type	Pack quantity	Part number	EAN code
3.0	45	90	1/4"-Hex	B2	1	F 00Y 266 285	3 165 140 800 372
4.0	45	90	1/4"-Hex	B2	1	F 00Y 266 286	3 165 140 800 389
5.0	50	100	1/4"-Hex	B2	1	F 00Y 266 287	3 165 140 800 396
5.5	60	100	1/4"-Hex	B2	1	F 00Y 266 288	3 165 140 800 402
6.0	60	100	1/4"-Hex	B2	1	F 00Y 266 289	3 165 140 800 419
6.0	200	250	1/4"-Hex	B2	1	F 00Y 266 290	3 165 140 800 426
6.5	200	250	1/4"-Hex	B2	1	F 00Y 266 291	3 165 140 800 433
7.0	60	100	1/4"-Hex	B2	1	F 00Y 266 292	3 165 140 800 440
8.0	60	100	1/4"-Hex	B2	1	F 00Y 266 293	3 165 140 800 457
10.0	90	150	1/4"-Hex	B2	1	F 00Y 266 294	3 165 140 800 464



Sets – Multi-purpose drill bits MultiConstruction



Set contents diameter mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------------	----------------------	----------------	---------------	-------------	----------

3-piece multi-purpose drill bit set “MultiConstruction” in plastic bag

5.0	50	100	C	3	F 00Y 266 295	3 165 140 800 471
6.0	60	100				
8.0	50	100				



5-piece multi-purpose drill bit set “MultiConstruction” in plastic tube

4.0	45	90	D	5	F 00Y 266 296	3 165 140 800 488
5.0	50	100				
6.0	60	100				
6.0	60	100				
8.0	50	100				



Hawera impact and rotary drill bits:

POWER CERAMICS

The specialist for roofing tiles



High-quality, durable carbide tip

- > Asymmetrical head design for less friction
- > Less heat formation; longer lifetime

U-shaped twin flute

- > Long lifetime and good drilling dust removal

1/4" hex shank

- > Optimum power transfer, especially when used with cordless screwdrivers

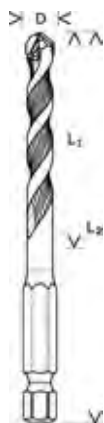
Tile drill bit PowerCeramics

Recommended for working on:

Roofing tiles and soft to medium density tiles

User instructions:

For non-impact use in drills and cordless screwdrivers



Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter mm	Packaging type	Pack quantity	Part number	EAN code
3.0	45	90	1/4"-Hex	B1	1	F 00Y 266 442*	3 165 140 891 875
4.0	45	90	1/4"-Hex	B1	1	F 00Y 266 443*	3 165 140 891 882
5.0	45	90	1/4"-Hex	B1	1	F 00Y 266 444*	3 165 140 891 899
5.5	45	90	1/4"-Hex	B1	1	F 00Y 266 445*	3 165 140 891 905
6.0	45	90	1/4"-Hex	B1	1	F 00Y 266 446*	3 165 140 891 912
7.0	45	90	1/4"-Hex	B1	1	F 00Y 266 447*	3 165 140 891 929
8.0	45	90	1/4"-Hex	B1	1	F 00Y 266 448*	3 165 140 891 936
10.0	45	90	1/4"-Hex	B1	1	F 00Y 266 449*	3 165 140 891 943

* Available from 2017



Sets – Tile drill bits PowerCeramics

Set contents diameter mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------------	----------------------	----------------	---------------	-------------	----------

3-piece tile drill bit set "PowerCeramics" in plastic bag

5.0	45	90	C	3 F 00Y 266 450*	3 165 140 891 950
6.0	45	90			
8.0	45	90			

5-piece tile drill bit set "PowerCeramics" in plastic tube

4.0	45	90	D	5 F 00Y 266 451*	3 165 140 891 967
5.0	45	90			
6.0	45	90			
8.0	45	90			
10.0	45	90			

* Available from 2017



**Drilling
Metal**

Hawera metal twist drill bits:

Convenient

If the "bite", precision and durability of our masonry drill bits are some of the factors contributing to the success of our company, then these features must also apply to our metal drill bits. Hawera metal twist drill bits excel due to the sum of their qualities: fast, precise, durable.

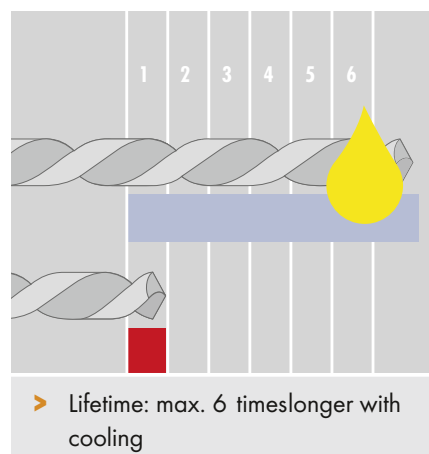


Convenience is when you can use an all-round drill bit like the HSS-G to achieve **precise results much faster** with considerably **less feed pressure**.



HSS-TIN

The metal drill bit for **extreme applications** in trade and industry. The titanium nitride coating causes less friction, therefore providing a rapid drilling rate. When used with cooling, a max. **6 times longer lifetime** is achieved.



HSS-CO

The expert for **stainless steel**. The cobalt alloy ensures heat resistance and, therefore, a high resistance to wear. Ideal for precise drilling in corrosion-resistant and heat-resistant steel with a tensile strength of up to 1000 N/mm².

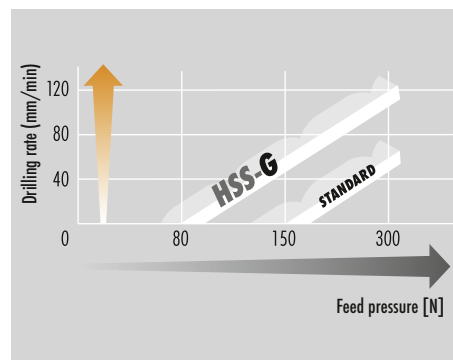


> **INOX**



HSS-G

The **"sprinter"** that cuts quickly and precisely at low feed pressure. With a wide range of applications, it is also suitable for long-chipping materials, such as **certain** copper and aluminium alloys.

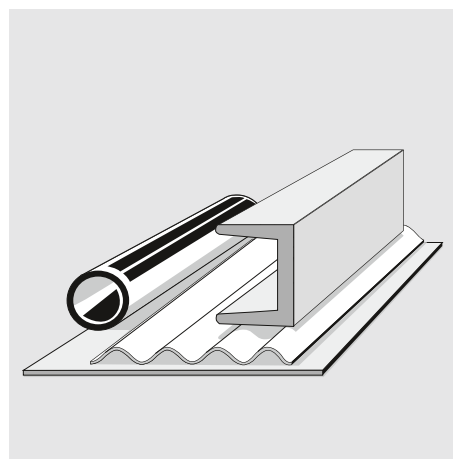


- 40% faster
- 50% less feed pressure



HSS-R

The powerful **universal drill bit**. Rolled, oxide-coated spiral flute for rapid chip removal. Low risk of breakage – and therefore long lifetime – thanks to high elasticity.



Information about application and speed recommendations on the following two pages:

Flute angle and point angle

Cooling is definitely recommended when drilling in metal. Since this is not always possible, Hawera twist drill bits are specially designed, so that they achieve optimum results by means of fast chip removal.

For hard, tough and short-chipping materials:

- Drill bits with small flute angle (Type N)
- Drill bits with split point (Type A)

Type N



small flute angle
= γ 19° to 40°

Type A



Split point manufactured to DIN 1412C

For soft, tough and long-chipping materials:

- Drill bits with large flute angle (Type W)
- Drill bits with chisel edge (Type B)

Type W



large flute angle
= γ 27° to 45°

Type B



Chisel edge

Application recommendation

Metals	Tensile strength N/mm ²		Rockwell hardness	Optimum drill bit tip	Optimum flute angle	HSS-TiN DIN 338	HSS-Co DIN 338	HSS-G DIN 338	HSS-G DIN 340	HSS-R DIN 338	HSS-R DIN 1879	Recommended cooling
Non-alloyed steel	350	HRB 62	A	N	•		•	•		•		Drill emulsion, cutting oil
	750	HRC 21	A/B	N	•		•	•	•	•		
Steel plates	800	HRC 22	A	N	•		•			•		Drill emulsion, ester oil
Non-alloyed tool steel	800	HRC 22	A/B	N	•		•	•	•	•		Drill emulsion, cutting oil
Alloyed tool steel	880	HRC 26	A	N	•	•	•	•		•		Drill emulsion, ester oil
	1000	HRC 31	A	N	•	•	•					Drill emulsion, ester oil
Stainless steels	550	HRB 85	A	N	•		•	•				Ester oil, cutting oil
	1100	HRC 34	D	N		•						Ester oil, cutting oil
Spring steel	1100	HRC 34	A	N		•						Ester oil, cutting oil
Cast iron	800	HRC 22	A	N	•	•	•	•	•			Dry
Malleable cast iron	700	HRC 95	A	N	•	•	•	•	•			Drill emulsion, cutting oil
Cast steel	770	HRC 20	A	N	•	•	•	•	•			Drill emulsion, cutting oil
Alloyed aluminium	350		A	N/W			•					Drill emulsion, cutting oil
Alloyed copper			A	N/W	•		•			•		Drill emulsion, cutting oil
Bronze			A	N	•		•		•	•		Dry
Brass			A	N	•							Drill emulsion

Plastics	Optimum drill bit tip		Optimum flute angle	HSS-TiN DIN 338	HSS-Co DIN 338	HSS-G DIN 338	HSS-G DIN 340	HSS-R DIN 338	HSS-R DIN 1879	Recommended cooling
PVC, polyamide	A/B	N/W			•	•	•	•		Water
Perspex	A/B	N	•		•	•	•	•		Water
Bakelite	A/B	N	•		•	•	•	•		Water
Pertinax	A/B	N			•	•	•	•		Dry
Resopal	A/B	H			•	•	•	•		Dry
Hard rubber	A/B	N			•	•	•	•		Dry

Speed recommendation

Metals	Tensile strength N/mm²		Rockwell hardness	Optimum drill bit tip	Optimum flute angle	Cutting speed m/min	Diameter 2 mm	Diameter 5 mm	Diameter 10 mm	Diameter 15 mm	Diameter 20 mm	Recommended cooling
Non-alloyed steel	350	HRB 62	A	N	28 - 30	4780	1910	960	640	480	Drill emulsion, cutting oil	
	750	HRC 21	A/B	N	26 - 28	4460	1780	890	590	440	Drill emulsion, cutting oil	
Steel plates	800	HRC 22	A	N	26 - 28	4480	1780	890	590	440	Drill emulsion	
Non-alloyed tool steel	800	HRC 22	A/B	N	26 - 28	4460	1780	890	590	440	Drill emulsion, cutting oil	
Alloyed tool steel	880	HRC 26	A	N	22 - 24	3980	1600	800	530	400	Drill emulsion, ester oil	
	1000	HRC 31	A	N	12 - 14	2000	830	400	280	210	Drill emulsion, ester oil	
Stainless steels	550	HRB 85	A	N	14 - 16	2390	960	480	320	240	Ester oil, cutting oil	
Spring steel	1100	HRC 34	A	N	8 - 10	1450	570	290	190	140	Ester oil, cutting oil	
Cast iron	800	HRC 22	A	N	25 - 30	4460	1780	890	590	450	Dry	
Malleable cast iron	700	HRC 95	A	N	25 - 30	4460	1780	890	590	450	Drill emulsion, cutting oil	
Cast steel	770	HRC 20	A	N	20 - 24	3500	1400	700	460	350	Drill emulsion, cutting oil	
Alloyed aluminium	350		A	N/W	50 - 60	7950	3180	590	1060	790	Drill emulsion, cutting oil	
Alloyed copper			A/B	N/W	28 - 30	4780	1910	960	640	480	Drill emulsion, cutting oil	
Bronze			A/B	N	40 - 60	7960	3180	1500	1060	790	Dry	
Brass			A	N	40 - 60	7690	3180	1500	1080	790	Drill emulsion	

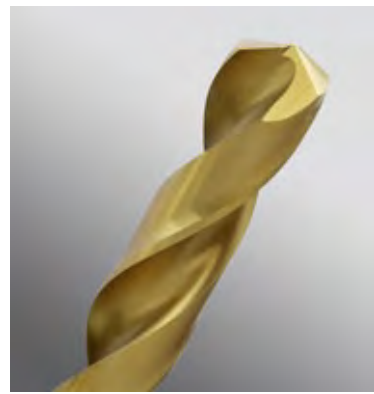




Hawera metal twist drill bits:

HSS-TIN

For extreme applications in trade and industry



Split point and point angle 135°

- > Up to 40% faster drilling rate than comparable drill bits with 118° drill bit tip without split point
- > Pilot drilling without pre-punching

Titanium-nitride coating

- > Extremely low friction and reduced friction deposit
- > Extremely long lifetime due to increased resistance to wear

Metal twist drill bits HSS-TIN, DIN 338

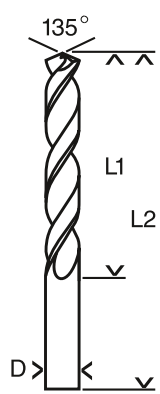
Recommended for working on:

Alloyed and non-alloyed steel up to a tensile strength of 900 N/mm², malleable cast iron, sintered iron, new silver, copper, bronze and particularly for hard plastics such as perspex

User instructions:

Do not use in aluminium; work with coolant; bit life is extended when used with appropriate cooling system, maximum by a factor of 6

Twist drill bit made of high speed steel manufactured to DIN 338; right-hand cutting twist drill bit, type N, drill bit tip 135°, split point manufactured to DIN 1412C, diameter tolerance h 8; steel drill bit ground from solid metal with high surface quality due to titanium-nitride coating



Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------------	-------------------	----------------	---------------	-------------	----------

Pack of 1

3.0	33	61	3.0	B2	1	F 00Y 145 089	4 014 468 031 472
3.2	36	65	3.2	B2	1	F 00Y 145 091	4 014 468 031 496
3.3	36	65	3.3	B2	1	F 00Y 145 092	4 014 468 031 502
3.5	39	70	3.5	B2	1	F 00Y 145 093	4 014 468 031 519
4.0	43	75	4.0	B2	1	F 00Y 145 094	4 014 468 031 526
4.2	43	75	4.2	B2	1	F 00Y 145 096	4 014 468 031 540
4.5	47	80	4.5	B2	1	F 00Y 145 097	4 014 468 031 557
5.0	52	86	5.0	B2	1	F 00Y 145 098	4 014 468 031 564
5.5	57	93	5.5	B2	1	F 00Y 145 101	4 014 468 031 595
6.0	57	93	6.0	B2	1	F 00Y 145 102	4 014 468 031 601

Metal twist drill bits HSS-TIN, DIN 338

Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------------	-------------------	----------------	---------------	-------------	----------

Pack of 1

6.5	63	101	6.5	B2	1	F 00Y 145 103	4 014 468 031 618
7.0	69	109	7.0	B2	1	F 00Y 145 105	4 014 468 031 632
7.5	69	109	7.5	B2	1	F 00Y 145 106	4 014 468 031 649
8.0	75	117	8.0	B2	1	F 00Y 145 107	4 014 468 031 656
8.5	75	117	8.5	B2	1	F 00Y 145 108	4 014 468 031 663
9.0	81	125	9.0	B2	1	F 00Y 145 109	4 014 468 031 670
10.0	87	133	10.0	B2	1	F 00Y 145 111	4 014 468 031 694
11.0	94	142	11.0	B2	1	F 00Y 145 114	4 014 468 031 724
12.0	101	151	12.0	B2	1	F 00Y 145 116	4 014 468 031 748
13.0	101	151	13.0	B2	1	F 00Y 145 118	4 014 468 031 762

Sets – Metal twist drill bits HSS-TIN, DIN 338

Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------



19-piece ProBox metal drill bit set "HSS-TIN" in plastic case

1; 1.5; 2; 2.5	P	19	F 00Y 265 820	3 165 140 647 533
3; 3.5; 4; 4.5				
5; 5.5; 6; 6.5				
7; 7.5; 8; 8.5				
9; 9.5; 10				



25-piece ProBox metal drill bit set "HSS-TIN" in plastic case

1; 1.5; 2; 2.5	P	25	F 00Y 265 824	3 165 140 647 571
3; 3.5; 4; 4.5				
5; 5.5; 6; 6.5				
7; 7.5; 8; 8.5; 9; 9.5;				
10; 10.5; 11; 11.5;				
12; 12.5; 13				



Hawera metal twist drill bits:

HSS-Co

Precision drill bit for tough and hard steel



Alloyed high speed steel (5% Co)

> Excellent resistance to heat and wear

35° flute angle

> Optimum chip removal

Self-centring properties of the split point drill tip

> Pilot drilling without pre-punching

Metal twist drill bits HSS-Co, DIN 338

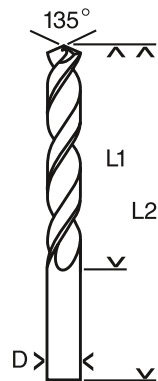
Recommended for working on:

Alloyed and non-alloyed steel up to a tensile strength of 1000 N/mm², stainless steel V2A/V4A, cast iron, cast steel, acid and heat-resistant steels

User instructions:

Recommended for use in a drill stand or in a pillar drill; work with coolant

Twist drill bit made of alloyed high speed steel manufactured to DIN 338, cobalt content 5%; right-hand cutting twist drill bit, type N, drill bit tip 135°, split point manufactured to DIN 1412C, diameter tolerance h 8; steel drill bit ground from solid metal, surface quality according to special factory standards



Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------------	-------------------	----------------	---------------	-------------	----------

Pack of 1

1.0	12	34	1.0	C1	1	F 00Y 145 153	4 014 468 032 127
1.5	18	40	1.5	C1	1	F 00Y 145 154	4 014 468 032 134
2.0	24	49	2.0	C1	1	F 00Y 145 155	4 014 468 032 141
2.5	30	57	2.5	C1	1	F 00Y 145 156	4 014 468 032 158
3.0	33	61	3.0	B2	1	F 00Y 145 157	4 014 468 032 165
3.2	36	65	3.2	B2	1	F 00Y 145 159	4 014 468 032 189
3.3	36	65	3.3	B2	1	F 00Y 145 160	4 014 468 032 196
3.5	39	70	3.5	B2	1	F 00Y 145 161	4 014 468 032 202
4.0	43	75	4.0	B2	1	F 00Y 145 162	4 014 468 032 219

Metal twist drill bits HSS-Co, DIN 338


Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------------	-------------------	----------------	---------------	-------------	----------

Pack of 1

4.1	43	75	4.1	B2	1	F 00Y 145 163	4 014 468 032 226
4.2	43	75	4.2	B2	1	F 00Y 145 164	4 014 468 032 233
4.5	47	80	4.5	B2	1	F 00Y 145 165	4 014 468 032 240
4.8	52	86	4.8	B2	1	F 00Y 145 300	4 014 468 032 783
5.0	52	86	5.0	B2	1	F 00Y 145 167	4 014 468 032 257
5.1	52	86	5.1	B2	1	F 00Y 145 168	4 014 468 032 264
5.2	52	86	5.2	B2	1	F 00Y 145 169	4 014 468 032 271
5.5	57	93	5.5	B2	1	F 00Y 145 170	4 014 468 032 288
6.0	57	93	6.0	B2	1	F 00Y 145 171	4 014 468 032 295
6.5	63	101	6.5	B2	1	F 00Y 145 172	4 014 468 032 301
6.8	69	109	6.8	B2	1	F 00Y 145 173	4 014 468 032 318
7.0	69	109	7.0	B2	1	F 00Y 145 174	4 014 468 032 325
7.5	69	109	7.5	B2	1	F 00Y 145 175	4 014 468 032 332
8.0	75	117	8.0	B2	1	F 00Y 145 176	4 014 468 032 349
8.5	75	117	8.5	B2	1	F 00Y 145 177	4 014 468 032 356
9.0	81	125	9.0	B2	1	F 00Y 145 178	4 014 468 032 363
9.5	81	125	9.5	B2	1	F 00Y 145 179	4 014 468 032 370
10.0	87	133	10.0	B2	1	F 00Y 145 180	4 014 468 032 387
10.2	87	133	10.2	B2	1	F 00Y 145 181	4 014 468 032 394
10.5	87	133	10.5	B2	1	F 00Y 145 182	4 014 468 032 400
11.0	94	142	11.0	B2	1	F 00Y 145 183	4 014 468 032 417
11.5	94	142	11.5	B2	1	F 00Y 145 184	4 014 468 032 424
12.0	101	151	12.0	B2	1	F 00Y 145 185	4 014 468 032 431
12.5	101	151	12.5	B2	1	F 00Y 145 186	4 014 468 032 448
13.0	101	151	13.0	B2	1	F 00Y 145 187	4 014 468 033 100

Pack of 10


1.0	12	34	1.0	D	10	F 00Y 124 390	4 014 468 012 082
1.5	18	40	1.5	D	10	F 00Y 124 391	4 014 468 012 099
2.0	24	49	2.0	D	10	F 00Y 124 392	4 014 468 012 105
2.5	30	57	2.5	D	10	F 00Y 124 393	4 014 468 012 112
3.0	33	61	3.0	D	10	F 00Y 124 394	4 014 468 012 129
3.2	36	65	3.2	D	10	F 00Y 124 396	4 014 468 012 143
3.3	36	65	3.3	D	10	F 00Y 124 397	4 014 468 012 150
3.5	39	70	3.5	D	10	F 00Y 124 398	4 014 468 012 167
4.0	43	75	4.0	D	10	F 00Y 124 399	4 014 468 012 174
4.1	43	75	4.1	D	10	F 00Y 124 400	4 014 468 012 181
4.2	43	75	4.2	D	10	F 00Y 124 401	4 014 468 012 198
4.5	47	80	4.5	D	10	F 00Y 124 402	4 014 468 012 204
4.8	52	86	4.8	D	10	F 00Y 145 935	4 014 468 035 289
5.0	52	86	5.0	D	10	F 00Y 124 403	4 014 468 012 211
5.1	52	86	5.1	D	10	F 00Y 124 404	4 014 468 012 228
5.2	52	86	5.2	D	10	F 00Y 124 405	4 014 468 012 235
5.5	57	93	5.5	D	10	F 00Y 124 406	4 014 468 012 242
6.0	57	93	6.0	D	10	F 00Y 124 407	4 014 468 012 259



Sets – Metal twist drill bits HSS-Co, DIN 338

Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------



19-piece ProBox metal drill bit set "HSS-Co" in plastic case

1; 1.5; 2; 2.5	P	19	F 00Y 265 819	3 165 140 647 526
3; 3.5; 4; 4.5				
5; 5.5; 6; 6.5				
7; 7.5; 8; 8.5				
9; 9.5; 10				



25-piece ProBox metal drill bit set "HSS-Co" in plastic case

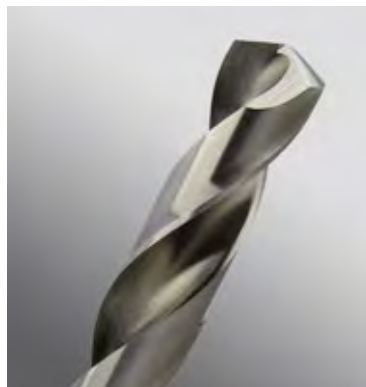
1; 1.5; 2; 2.5	P	25	F 00Y 265 823	3 165 140 647 564
3; 3.5; 4; 4.5				
5; 5.5; 6; 6.5				
7; 7.5; 8; 8.5				
9; 9.5; 10 10.5; 11;				
11.5; 12; 12.5; 13				



Hawera metal twist drill bits:

HSS-G

Precision-ground steel drill bit with wide range of applications



Precision grinding

> Up to 40% faster drilling rate at up to 50% less feed pressure than standard HSS drill bits

Conically reinforced drill bit core

> Greater break resistance and long operating times

Self-centring properties of the split point drill tip

> No need to pre-punch or pilot drill up to 10 mm diameter

Metal twist drill bits HSS-G, DIN 338

Recommended for working on:

Alloyed and non-alloyed steel up to a tensile strength of 900 N/mm², cast steel, cast iron, sintered iron, malleable cast iron, non-ferrous metals and hard plastics

User instructions:

Also suitable for long-chipping materials

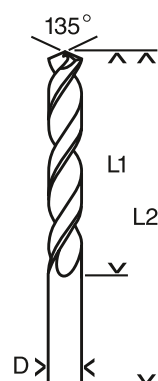


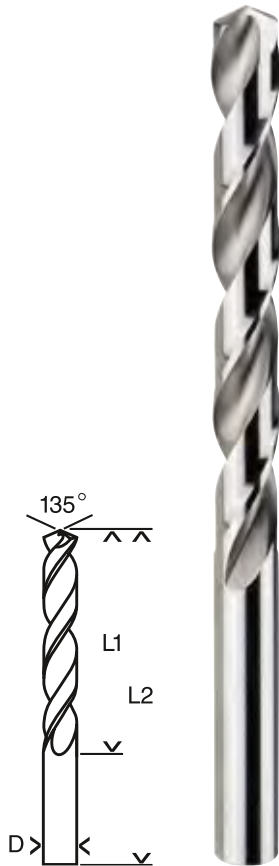
Twist drill bit made of high speed steel manufactured to DIN 338; right-hand cutting twist drill bit, type N, drill bit tip 135°, split point manufactured to DIN 1412C, chemical-thermal hardening process, diameter tolerance h 8; steel drill bit ground from solid metal; excellent surface quality due to special factory standards; outer diameter tapered towards shank to reduce friction

Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------------	-------------------	----------------	---------------	-------------	----------

Pack of 1

1.0	12	34	1.0	C	2	F 00Y 145 755	4 014 468 033 780
1.5	18	40	1.5	C	2	F 00Y 145 757	4 014 468 033 797
2.0	24	49	2.0	C	2	F 00Y 145 760	4 014 468 033 803
2.5	30	57	2.5	C	2	F 00Y 145 762	4 014 468 033 810
3.0	33	61	3.0	B2	1	F 00Y 145 764	4 014 468 033 827
3.1	36	65	3.1	B2	1	F 00Y 145 765	4 014 468 033 834
3.2	36	65	3.2	B2	1	F 00Y 145 773	4 014 468 033 841
3.3	36	65	3.3	B2	1	F 00Y 145 775	4 014 468 033 858
3.5	39	70	3.5	B2	1	F 00Y 145 776	4 014 468 033 865
4.0	43	75	4.0	B2	1	F 00Y 145 778	4 014 468 033 872



Metal twist drill bits HSS-G, DIN 338


Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------------	-------------------	----------------	---------------	-------------	----------

Pack of 1

4.1	43	75	4.1	B2	1	F 00Y 145 779	4 014 468 033 889
4.2	43	75	4.2	B2	1	F 00Y 145 781	4 014 468 033 896
4.5	47	80	4.5	B2	1	F 00Y 145 782	4 014 468 033 902
4.8	52	86	4.8	B2	1	F 00Y 145 784	4 014 468 033 919
5.0	52	86	5.0	B2	1	F 00Y 145 785	4 014 468 033 926
5.1	52	86	5.1	B2	1	F 00Y 145 786	4 014 468 033 933
5.2	52	86	5.2	B2	1	F 00Y 145 787	4 014 468 033 940
5.5	57	93	5.5	B2	1	F 00Y 145 788	4 014 468 033 957
6.0	57	93	6.0	B2	1	F 00Y 145 789	4 014 468 033 964
6.5	63	101	6.5	B2	1	F 00Y 145 790	4 014 468 033 971
6.8	69	109	6.8	B2	1	F 00Y 145 791	4 014 468 033 988
7.0	69	109	7.0	B2	1	F 00Y 145 792	4 014 468 033 995
7.5	69	109	7.5	B2	1	F 00Y 145 793	4 014 468 034 008
8.0	75	117	8.0	B2	1	F 00Y 145 794	4 014 468 034 015
8.5	75	117	8.5	B2	1	F 00Y 145 795	4 014 468 034 022
9.0	81	125	9.0	B2	1	F 00Y 145 796	4 014 468 034 039
9.5	81	125	9.5	B2	1	F 00Y 145 797	4 014 468 034 046
10.0	87	133	10.0	B2	1	F 00Y 145 798	4 014 468 034 053
10.2	87	133	10.2	B2	1	F 00Y 145 799	4 014 468 034 060
10.5	87	133	10.5	B2	1	F 00Y 145 800	4 014 468 034 077
11.0	94	142	11.0	B2	1	F 00Y 145 801	4 014 468 034 084
11.5	94	142	11.5	B2	1	F 00Y 145 909	4 014 468 035 159
12.0	101	151	12.0	B2	1	F 00Y 145 802	4 014 468 034 091
12.5	101	151	12.5	B2	1	F 00Y 145 911	4 014 468 035 173
13.0	101	151	13.0	B2	1	F 00Y 145 803	4 014 468 034 107

Pack of 10

1.0	12	34	1.0	D	1	F 00Y 145 811	4 014 468 034 183
1.2	16	38	1.2	D	1	F 00Y 145 813	4 014 468 034 206
1.5	18	40	1.5	D	1	F 00Y 145 816	4 014 468 034 237
1.7	20	43	1.7	D	1	F 00Y 145 818	4 014 468 034 251
2.0	24	49	2.0	D	1	F 00Y 145 821	4 014 468 034 282
2.1	24	49	2.1	D	1	F 00Y 145 822	4 014 468 034 299
2.2	27	53	2.2	D	1	F 00Y 145 823	4 014 468 034 305
2.4	30	57	2.4	D	1	F 00Y 145 825	4 014 468 034 329
2.5	30	57	2.5	D	1	F 00Y 145 826	4 014 468 034 336
2.7	33	61	2.7	D	1	F 00Y 145 828	4 014 468 034 350
2.8	33	61	2.8	D	1	F 00Y 145 829	4 014 468 034 367
3.0	33	61	3.0	D	1	F 00Y 145 831	4 014 468 034 381
3.1	36	65	3.1	D	1	F 00Y 145 833	4 014 468 034 398
3.2	36	65	3.2	D	1	F 00Y 145 834	4 014 468 034 404
3.3	36	65	3.3	D	10	F 00Y 145 835	4 014 468 034 411
3.5	39	70	3.5	D	10	F 00Y 145 837	4 014 468 034 435
3.7	39	70	3.7	D	10	F 00Y 145 839	4 014 468 034 459
3.8	43	75	3.8	D	10	F 00Y 145 840	4 014 468 034 466
3.9	43	75	3.9	D	10	F 00Y 145 841	4 014 468 034 473
4.0	43	75	4.0	D	10	F 00Y 145 843	4 014 468 034 497
4.1	43	75	4.1	D	10	F 00Y 145 844	4 014 468 034 503
4.2	43	75	4.2	D	10	F 00Y 145 845	4 014 468 034 510
4.4	47	80	4.4	D	10	F 00Y 145 847	4 014 468 034 534



Metal twist drill bits HSS-G, DIN 338

Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------------	-------------------	----------------	---------------	-------------	----------

Pack of 10



4.5	47	80	4.5	D	10	F 00Y 145 848	4 014 468 034 541
4.8	52	86	4.8	D	10	F 00Y 145 851	4 014 468 034 572
4.9	52	86	4.9	D	10	F 00Y 145 852	4 014 468 034 589
5.0	52	86	5.0	D	10	F 00Y 145 853	4 014 468 034 596
5.1	52	86	5.1	D	10	F 00Y 145 854	4 014 468 034 602
5.2	52	86	5.2	D	10	F 00Y 145 855	4 014 468 034 619
5.5	57	93	5.5	D	10	F 00Y 145 858	4 014 468 034 640
6.0	57	93	6.0	D	10	F 00Y 145 863	4 014 468 034 695
6.1	63	101	6.1	D	10	F 00Y 145 864	4 014 468 034 701
6.2	63	101	6.2	D	10	F 00Y 145 865	4 014 468 034 718
6.5	63	101	6.5	D	10	F 00Y 145 868	4 014 468 034 749
6.8	69	109	6.8	D	10	F 00Y 145 871	4 014 468 034 770
7.0	69	109	7.0	D	10	F 00Y 145 873	4 014 468 034 794
7.5	69	109	7.5	D	10	F 00Y 145 878	4 014 468 034 848

Pack of 5

8.0	75	117	8.0	D	5	F 00Y 145 883	4 014 468 034 893
8.2	75	117	8.2	D	5	F 00Y 145 885	4 014 468 034 916
8.5	75	117	8.5	D	5	F 00Y 145 888	4 014 468 034 947
9.0	81	125	9.0	D	5	F 00Y 145 893	4 014 468 034 992
9.5	81	125	9.5	D	5	F 00Y 145 898	4 014 468 035 043
10.0	87	133	10.0	D	5	F 00Y 145 903	4 014 468 035 098
10.2	87	133	10.2	D	5	F 00Y 145 904	4 014 468 035 104
10.5	87	133	10.5	D	5	F 00Y 145 907	4 014 468 035 135



Sets – Metal twist drill bits HSS-G, DIN 338

Set contents diameter mm	Diameter mm, stone	Diameter mm, metal	Diameter mm, wood	Packaging type	Pack quantity	Part number	EAN code
--------------------------	--------------------	--------------------	-------------------	----------------	---------------	-------------	----------



19-piece ProBox metal twist drill bit set “HSS-G” in plastic case

1; 1.5; 2; 2.5	-	-	-	P	19	F 00Y 265 818	3 165 140 647 519
3; 3.5; 4; 4.5							
5; 5.5; 6; 6.5							
7; 7.5; 8; 8.5							
9; 9.5; 10							



25-piece ProBox metal twist drill bit set “HSS-G” in plastic case

1; 1.5; 2; 2.5	-	-	-	P	25	F 00Y 265 822	3 165 140 647 557
3; 3.5; 4; 4.5							
5; 5.5; 6; 6.5							
7; 7.5; 8; 8.5							
9; 9.5; 10; 10.5							
11; 11.5; 12;							
12.5; 13							

Metal twist drill bits HSS-G, DIN 340 (long)

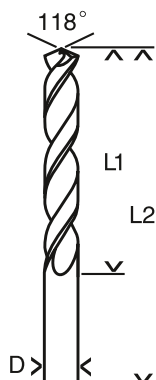
Recommended for working on:

Alloyed and non-alloyed steel up to a tensile strength of 900 N/mm², cast steel, cast iron, sintered iron, malleable cast iron, non-ferrous metals and hard plastics

User instructions:

Long drill bit version for drilling deep holes and for drilling through drill bushes

Twist drill bit made of high speed steel manufactured to DIN 340; right-hand cutting twist drill bit, type N, drill bit tip 118°, chisel edge, diameter tolerance h 8; steel drill bit ground from solid metal; vapour-plated



Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------------	-------------------	----------------	---------------	-------------	----------

Pack of 1

3.0	66	100	3.0	B2	1	F 00Y 145 131	4 014 468 031 908
3.2	69	106	3.2	B2	1	F 00Y 145 132	4 014 468 031 915
3.5	73	112	3.5	B2	1	F 00Y 145 133	4 014 468 031 922
4.0	78	119	4.0	B2	1	F 00Y 145 134	4 014 468 031 939
4.2	78	119	4.2	B2	1	F 00Y 145 135	4 014 468 031 946
4.5	82	126	4.5	B2	1	F 00Y 145 136	4 014 468 031 953
4.8	87	132	4.8	B2	1	F 00Y 145 137	4 014 468 031 960
5.0	87	132	5.0	B2	1	F 00Y 145 138	4 014 468 031 977
5.5	91	139	5.5	B2	1	F 00Y 145 139	4 014 468 031 984
6.0	91	139	6.0	B2	1	F 00Y 145 140	4 014 468 031 991
6.5	97	148	6.5	B2	1	F 00Y 145 141	4 014 468 032 004
7.0	102	156	7.0	B2	1	F 00Y 145 142	4 014 468 032 011
7.5	102	156	7.5	B2	1	F 00Y 145 143	4 014 468 032 028
8.0	109	165	8.0	C	1	F 00Y 145 144	4 014 468 032 035
8.5	109	165	8.5	C	1	F 00Y 145 145	4 014 468 032 042
9.0	115	175	9.0	C	1	F 00Y 145 146	4 014 468 032 059
9.5	115	175	9.5	C	1	F 00Y 145 147	4 014 468 032 066
10.0	121	184	10.0	C	1	F 00Y 145 148	4 014 468 032 073
11.0	128	195	11.0	C	1	F 00Y 145 150	4 014 468 032 097
12.0	134	205	12.0	C	1	F 00Y 145 151	4 014 468 032 103
13.0	134	205	13.0	C	1	F 00Y 145 152	4 014 468 032 110

Pack of 10

3.0	66	100	3.0	D	10	F 00Y 240 160	4 014 468 014 932
3.5	73	112	3.5	D	10	F 00Y 240 165	4 014 468 014 956
4.0	78	119	4.0	D	10	F 00Y 240 170	4 014 468 014 970
4.2	78	119	4.2	D	10	F 00Y 240 172	4 014 468 014 994
4.5	82	126	4.5	D	10	F 00Y 240 175	4 014 468 015 007
4.8	87	132	4.8	D	10	F 00Y 145 218	4 014 468 032 516
5.0	87	132	5.0	D	10	F 00Y 240 180	4 014 468 015 014
5.5	91	139	5.5	D	10	F 00Y 240 185	4 014 468 015 052
6.0	91	139	6.0	D	10	F 00Y 240 190	4 014 468 015 083
6.5	97	148	6.5	D	10	F 00Y 240 195	4 014 468 015 090





Metal twist drill bits HSS-G, DIN 340 (long)

Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------------	-------------------	----------------	---------------	-------------	----------

Pack of 5

7.0	102	156	7.0	D	5	F 00Y 240 200	4 014 468 015 113
8.0	109	165	8.0	D	5	F 00Y 240 210	4 014 468 015 137
10.0	121	184	10.0	D	5	F 00Y 240 230	4 014 468 015 175

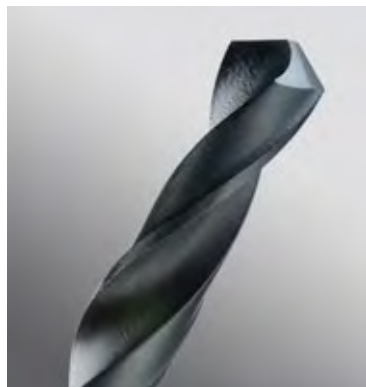




Hawera metal twist drill bits:

HSS-R

Universal use in all different kinds of metals



Low-heat shaping manufacturing process

- > High level of elasticity
- > Torsion-resistant, i.e. less risk of breakage, particularly when drilling < 6 mm diameter

Oxide coating of the spiral flute

- > Rapid chip removal

Particularly tough core thickness and distinct hardness within its area of application

- > Long lifetime

Metal twist drill bits HSS-R, similar to DIN 338

Recommended for working on:

Alloyed and non-alloyed steel up to a tensile strength of 900 N/mm², cast iron, sintered iron, malleable cast iron, non-ferrous metals and hard plastics

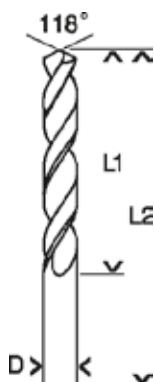


Twist drill bit made of high speed steel manufactured to DIN 338; right-hand cutting twist drill bit, type N, drill bit tip 118°, chisel edge, diameter tolerance h 8; rolled spiral flute with ground point, vapour-plated; temperature-resistant cutting edge up to 400°C

Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------------	-------------------	----------------	---------------	-------------	----------

Pack of 1

1.0	12	34	1.0	C	1	F 00Y 241 155	4 014 468 006 975
1.5	18	40	1.5	C	1	F 00Y 241 156	4 014 468 006 982
2.0	24	49	2.0	C	1	F 00Y 241 157	4 014 468 006 999
2.5	30	57	2.5	C	1	F 00Y 241 158	4 014 468 007 002
3.0	33	61	3.0	B2	1	F 00Y 241 159	4 014 468 007 019
3.1	36	65	3.1	B2	1	F 00Y 143 624	4 014 468 023 897
3.2	36	65	3.2	B2	1	F 00Y 241 161	4 014 468 007 033
3.3	36	65	3.3	B2	1	F 00Y 241 162	4 014 468 007 040
3.4	36	65	3.4	B2	1	F 00Y 241 163	4 014 468 007 057
3.5	39	70	3.5	B2	1	F 00Y 241 164	4 014 468 007 064
4.0	43	75	4.0	B2	1	F 00Y 241 166	4 014 468 007 088
4.1	43	75	4.1	B2	1	F 00Y 241 167	4 014 468 007 095
4.2	43	75	4.2	B2	1	F 00Y 241 168	4 014 468 007 101



Metal twist drill bits HSS-R, similar to DIN 338

Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------------	-------------------	----------------	---------------	-------------	----------

Pack of 1

4.5	47	80	4.5	B2	1	F 00Y 241 169	4 014 468 007 118
4.8	52	86	4.8	B2	1	F 00Y 132 868	4 014 468 007 125
5.0	52	86	5.0	B2	1	F 00Y 241 172	4 014 468 007 132
5.1	52	86	5.1	B2	1	F 00Y 143 625	4 014 468 023 903
5.2	52	86	5.2	B2	1	F 00Y 143 626	4 014 468 023 910
5.5	57	93	5.5	B2	1	F 00Y 241 175	4 014 468 007 163
6.0	57	93	6.0	B2	1	F 00Y 241 176	4 014 468 007 170
6.5	63	101	6.5	B2	1	F 00Y 241 177	4 014 468 007 187
6.8	69	109	6.8	B2	1	F 00Y 241 192	4 014 468 007 194
7.0	69	109	7.0	B2	1	F 00Y 241 178	4 014 468 007 200
7.5	69	109	7.5	B2	1	F 00Y 241 179	4 014 468 007 217
8.0	75	117	8.0	B2	1	F 00Y 241 180	4 014 468 007 224
8.5	75	117	8.5	B2	1	F 00Y 241 182	4 014 468 007 248
9.0	81	125	9.0	B2	1	F 00Y 241 183	4 014 468 007 255
9.5	81	125	9.5	B2	1	F 00Y 241 184	4 014 468 007 262
10.0	87	133	10.0	B2	1	F 00Y 241 185	4 014 468 007 279
10.2	87	133	10.2	B2	1	F 00Y 241 193	4 014 468 007 286
10.5	87	133	10.5	B2	1	F 00Y 241 186	4 014 468 007 293
11.0	94	142	11.0	B2	1	F 00Y 241 187	4 014 468 007 309
11.5	94	142	11.5	B2	1	F 00Y 241 188	4 014 468 007 316
12.0	101	151	12.0	B2	1	F 00Y 241 189	4 014 468 007 323
12.5	101	151	12.5	B2	1	F 00Y 241 190	4 014 468 007 330
13.0	101	151	13.0	B2	1	F 00Y 241 191	4 014 468 007 347

Pack of 10

1.0	12	34	1.0	D	10	F 00Y 241 067	4 014 468 016 516
1.1	14	36	1.1	D	10	F 00Y 241 261	4 014 468 017 032
1.2	16	38	1.2	D	10	F 00Y 241 247	4 014 468 016 912
1.3	16	38	1.3	D	10	F 00Y 241 262	4 014 468 017 049
1.4	18	40	1.4	D	10	F 00Y 241 263	4 014 468 017 056
1.5	18	40	1.5	D	10	F 00Y 241 068	4 014 468 016 523
1.6	20	43	1.6	D	10	F 00Y 241 248	4 014 468 016 929
1.7	20	43	1.7	D	10	F 00Y 241 264	4 014 468 017 063
1.8	22	46	1.8	D	10	F 00Y 241 265	4 014 468 017 070
1.9	22	46	1.9	D	10	F 00Y 241 266	4 014 468 017 087
2.0	24	49	2.0	D	10	F 00Y 241 069	4 014 468 016 530
2.1	24	49	2.1	D	10	F 00Y 241 267	4 014 468 017 094
2.2	27	53	2.2	D	10	F 00Y 241 268	4 014 468 017 100
2.3	27	53	2.3	D	10	F 00Y 241 269	4 014 468 017 117
2.4	30	57	2.4	D	10	F 00Y 241 249	4 014 468 016 939
2.5	30	57	2.5	D	10	F 00Y 241 070	4 014 468 016 547
2.6	30	57	2.6	D	10	F 00Y 241 270	4 014 468 017 124
2.7	33	61	2.7	D	10	F 00Y 241 271	4 014 468 017 131
2.8	33	61	2.8	D	10	F 00Y 241 250	4 014 468 016 943
2.9	33	61	2.9	D	10	F 00Y 241 272	4 014 468 017 148
3.0	33	61	3.0	D	10	F 00Y 241 071	4 014 468 016 554
3.1	36	65	3.1	D	10	F 00Y 241 072	4 014 468 016 561
3.2	36	65	3.2	D	10	F 00Y 241 073	4 014 468 016 578
3.3	36	65	3.3	D	10	F 00Y 241 100	4 014 468 016 837
3.4	39	70	3.4	D	10	F 00Y 241 101	4 014 468 016 844
3.5	39	70	3.5	D	10	F 00Y 241 074	4 014 468 016 585



Metal twist drill bits HSS-R, similar to DIN 338

Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------------	-------------------	----------------	---------------	-------------	----------

Pack of 10

3.6	39	70	3.6	D	10	F 00Y 241 102	4 014 468 016 851
3.7	39	70	3.7	D	10	F 00Y 241 274	4 014 468 017 155
3.8	43	75	3.8	D	10	F 00Y 241 275	4 014 468 017 162
3.9	43	75	3.9	D	10	F 00Y 241 251	4 014 468 016 950
4.0	43	75	4.0	D	10	F 00Y 241 075	4 014 468 016 592
4.1	43	75	4.1	D	10	F 00Y 241 076	4 014 468 016 608
4.2	43	75	4.2	D	10	F 00Y 241 077	4 014 468 016 615
4.3	47	80	4.3	D	10	F 00Y 241 276	4 014 468 017 179
4.4	47	80	4.4	D	10	F 00Y 241 252	4 014 468 016 967
4.5	47	80	4.5	D	10	F 00Y 241 078	4 014 468 016 622
4.6	47	80	4.6	D	10	F 00Y 241 277	4 014 468 017 186
4.7	47	80	4.7	D	10	F 00Y 241 103	4 014 468 016 868
4.8	52	86	4.8	D	10	F 00Y 241 104	4 014 468 016 875
4.9	52	86	4.9	D	10	F 00Y 241 105	4 014 468 016 882
5.0	52	86	5.0	D	10	F 00Y 241 079	4 014 468 016 639
5.1	52	86	5.1	D	10	F 00Y 241 080	4 014 468 016 646
5.2	52	86	5.2	D	10	F 00Y 241 081	4 014 468 016 653
5.3	52	86	5.3	D	10	F 00Y 241 278	4 014 468 017 193
5.4	57	93	5.4	D	10	F 00Y 241 279	4 014 468 017 209
5.5	57	93	5.5	D	10	F 00Y 241 082	4 014 468 016 660
5.6	57	93	5.6	D	10	F 00Y 241 253	4 014 468 016 974
5.7	57	93	5.7	D	10	F 00Y 241 280	4 014 468 017 216
5.8	57	93	5.8	D	10	F 00Y 241 281	4 014 468 017 223
5.9	57	93	5.9	D	10	F 00Y 241 282	4 014 468 017 230
6.0	57	93	6.0	D	10	F 00Y 241 083	4 014 468 016 677
6.1	63	101	6.1	D	10	F 00Y 241 283	4 014 468 017 247
6.2	63	101	6.2	D	10	F 00Y 241 284	4 014 468 017 254
6.3	63	101	6.3	D	10	F 00Y 241 254	4 014 468 016 981
6.4	63	101	6.4	D	10	F 00Y 241 285	4 014 468 017 261
6.5	63	101	6.5	D	10	F 00Y 241 084	4 014 468 016 684
6.6	63	101	6.6	D	10	F 00Y 241 286	4 014 468 017 278
6.7	63	101	6.7	D	10	F 00Y 241 255	4 014 468 016 998
6.8	69	109	6.8	D	10	F 00Y 241 287	4 014 468 017 285
6.9	69	109	6.9	D	10	F 00Y 241 288	4 014 468 017 292
7.0	69	109	7.0	D	10	F 00Y 241 085	4 014 468 016 691
7.1	69	109	7.1	D	10	F 00Y 241 256	4 014 468 017 001
7.2	69	109	7.2	D	10	F 00Y 241 289	4 014 468 017 308
7.3	69	109	7.3	D	10	F 00Y 241 290	4 014 468 017 315
7.4	69	109	7.4	D	10	F 00Y 241 291	4 014 468 017 322
7.5	69	109	7.5	D	10	F 00Y 241 086	4 014 468 016 707



Pack of 5

7.6	75	117	7.6	D	5	F 00Y 241 292	4 014 468 017 339
7.7	75	117	7.7	D	5	F 00Y 241 293	4 014 468 017 346
7.8	75	117	7.8	D	5	F 00Y 241 294	4 014 468 017 353
7.9	75	117	7.9	D	5	F 00Y 241 257	4 014 468 017 018
8.0	75	117	8.0	D	5	F 00Y 241 087	4 014 468 016 714
8.1	75	117	8.1	D	5	F 00Y 241 295	4 014 468 017 360
8.2	75	117	8.2	D	5	F 00Y 241 106	4 014 468 016 899
8.3	75	117	8.3	D	5	F 00Y 241 296	4 014 468 017 377
8.4	75	117	8.4	D	5	F 00Y 241 297	4 014 468 017 384



Metal twist drill bits HSS-R, similar to DIN 338

Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------------	-------------------	----------------	---------------	-------------	----------

Pack of 5

8.5	75	117	8.5	D	5	F 00Y 241 088	4 014 468 016 721
8.6	81	125	8.6	D	5	F 00Y 241 298	4 014 468 017 391
8.7	81	125	8.7	D	5	F 00Y 241 299	4 014 468 017 407
8.8	81	125	8.8	D	5	F 00Y 241 300	4 014 468 017 414
8.9	81	125	8.9	D	5	F 00Y 241 301	4 014 468 017 421
9.0	81	125	9.0	D	5	F 00Y 241 089	4 014 468 016 738
9.1	81	125	9.1	D	5	F 00Y 241 302	4 014 468 017 438
9.2	81	125	9.2	D	5	F 00Y 241 303	4 014 468 017 445
9.3	81	125	9.3	D	5	F 00Y 241 304	4 014 468 017 452
9.4	81	125	9.4	D	5	F 00Y 241 305	4 014 468 017 469
9.5	81	125	9.5	D	5	F 00Y 241 090	4 014 468 016 745
9.6	87	133	9.6	D	5	F 00Y 241 258	4 014 468 017 025
9.7	87	133	9.7	D	5	F 00Y 241 306	4 014 468 017 476
9.8	87	133	9.8	D	5	F 00Y 241 307	4 014 468 017 483
9.9	87	133	9.9	D	5	F 00Y 241 308	4 014 468 017 490
10.0	87	133	10.0	D	5	F 00Y 241 091	4 014 468 016 752
10.2	87	133	10.2	D	5	F 00Y 241 309	4 014 468 017 506
10.5	87	133	10.5	D	5	F 00Y 241 092	4 014 468 016 769
11.0	94	142	11.0	D	5	F 00Y 241 093	4 014 468 016 776
11.5	94	142	11.5	D	5	F 00Y 241 094	4 014 468 016 783
12.0	101	151	12.0	D	5	F 00Y 241 095	4 014 468 016 790
12.5	101	151	12.5	D	5	F 00Y 241 096	4 014 468 016 806
13.0	101	151	13.0	D	5	F 00Y 241 097	4 014 468 016 813

Sets – Metal twist drill bits HSS-R, similar to DIN 338

Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------



6-piece metal twist drill bit set “HSS-R” in plastic case

2	P	6	F 00Y 120 800	4 014 468 007 354
3				
4				
5				
6				
8				

Sets – Metal twist drill bits HSS-R, similar to DIN 338

Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------



19-piece ProBox metal twist drill bit set "HSS-R" in plastic case

1; 1.5; 2; 2.5	P	19	F 00Y 265 817	3 165 140 647 502
3; 3.5; 4; 4.5				
5; 5.5; 6; 6.5				
7; 7.5; 8; 8.5				
9; 9.5; 10				



25-piece ProBox metal twist drill bit set "HSS-R" in plastic case

1; 1.5; 2; 2.5	P	25	F 00Y 265 821	3 165 140 647 540
3; 3.5; 4; 4.5				
5; 5.5; 6; 6.5				
7; 7.5; 8; 8.5				
9; 9.5; 10; 10.5				
11; 11.5				
12; 12.5; 13				



Metal twist drill bits HSS-R, with reduced shaft

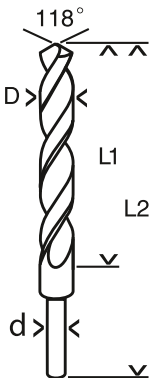
Recommended for working on:

Alloyed and non-alloyed steel up to a tensile strength of 900 N/mm², cast iron, sintered iron, malleable cast iron, non-ferrous metals and hard plastics

User instructions:

Reduced shaft enables fitting of larger drill bit diameters into smaller drill chucks

Twist drill bit made of high speed steel manufactured to DIN 338; right-hand cutting twist drill bit, type N, drill bit tip 118°, chisel edge, diameter tolerance h 8; rolled spiral flute with ground point, vapour-plated; temperature-resistant cutting edge up to 400°C



Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter d mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------------	---------------------	----------------	---------------	-------------	----------

Pack of 1

12.0	101	151	10	C	1	F 00Y 240 882	4 014 468 015 861
13.0	101	151	10	C	1	F 00Y 240 884	4 014 468 015 885
13.5	108	160	10	C	1	F 00Y 240 885	4 014 468 015 892
14.0	108	160	10	C	1	F 00Y 240 886	4 014 468 015 908
14.5	114	169	10	C	1	F 00Y 240 887	4 014 468 015 915
15.0	114	169	10	C	1	F 00Y 240 888	4 014 468 015 922
15.5	120	178	10	C	1	F 00Y 240 889	4 014 468 015 939
16.0	120	178	10	C	1	F 00Y 240 890	4 014 468 015 946
16.5	125	184	13	C	1	F 00Y 240 891	4 014 468 015 953
17.0	125	184	13	C	1	F 00Y 240 892	4 014 468 015 960
18.0	130	191	13	C	1	F 00Y 240 894	4 014 468 015 977
19.0	135	198	13	C	1	F 00Y 240 896	4 014 468 015 984
20.0	140	205	13	C	1	F 00Y 240 898	4 014 468 015 991



Countersink bits
Weld spot drill bits
Routing drill bits
Sheet metal cone bits
Step drill bits

Countersink bits HSS, DIN 335 C

Recommended for working on:

Non-ferrous metals, alloyed and non-alloyed steel and cast iron

User instructions:

Universal deburring and countersink bit for high surface quality

Ground countersink bit made of HSS with three cutting edges manufactured to DIN 335, step height 90°; easy re-sharpening at the cutting surface; vibration-free working



Diameter mm	Thread size	Overall length mm	Shank diameter mm	Packaging type	Pack quantity	Part number	EAN code
6.3	M 3	45	5	D	1	F 00Y 123 695	4 014 468 007 408
8.3	M 4	50	6	D	1	F 00Y 123 004	4 014 468 007 415
10.4	M 5	50	6	D	1	F 00Y 123 696	4 014 468 007 422
12.4	M 6	56	8	D	1	F 00Y 123 005	4 014 468 007 439
16.5	M 8	60	10	D	1	F 00Y 123 006	4 014 468 007 446
20.5	M 10	63	10	D	1	F 00Y 123 007	4 014 468 007 453
25.0	M 12	67	10	D	1	F 00Y 123 698	4 014 468 007 460

Slanting hole countersink bits HSS-E

Recommended for working on:

Non-ferrous metals, alloyed and non-alloyed steel, cast iron and stainless steel

Ground countersink made of HSS-E with 5% cobalt content and slanting hole according to factory standards; burr-free and vibration-free working



Head diameter mm	Overall length mm	Shank diameter mm	Countersink diameter mm	Packaging type	Pack quantity	Part number	EAN code
10	45	6	2-5	D	1	F 00Y 123 482	4 014 468 007 477
14	48	8	5-10	D	1	F 00Y 123 483	4 014 468 007 484
21	65	10	10-15	D	1	F 00Y 123 484	4 014 468 007 491
28	85	12	15-20	D	1	F 00Y 123 485	4 014 468 007 507

Weld spot drill bits HSS-Co


User instructions:

For clean, burr-free re-drilling of weld spots

Centring tip prevents the bit from slipping off the weld spot

Diameter mm	Overall length mm	Shank diameter mm	Packaging type	Pack quantity	Part number	EAN code
6	66	6	D	10	F 00Y 145 127	4 014 468 031 861
8	80	8	D	10	F 00Y 145 128	4 014 468 031 878

Routing drill bits HSS


User instructions:

Recommended speed 1,000 - 2,000 rpm; for routing any contours in thin-walled materials

Ground routing drill bit made of HSS; drill bit tip with split point 118°, deep-set cutting teeth

Diameter mm	Overall length mm	Shank diameter mm	Packaging type	Pack quantity	Part number	EAN code
6	90	6	D	1	F 00Y 142 658	4 014 468 023 422

Sheet metal cone drill bits HSS

Recommended for working on:

Non-ferrous metals, steel plates and plastics

User instructions:

For drilling larger holes in thin-walled materials or enlarging existing holes; ground drill bit made of HSS; without pre-drilling in extremely thin sheet metals, burr-free and vibration-free, without friction deposits; exact drilling starts due to split point



Diameter mm	Working length mm	Overall length mm	Shank diameter mm	Packaging type	Pack quantity	Part number	EAN code
3.0 - 14.0	34	58	6	D	1	F 00Y 123 012	4 014 468 007 521
5.0 - 20.0	44	71	8	D	1	F 00Y 123 013	4 014 468 007 538
5.0 - 31.0	81	103	9	D	1	F 00Y 123 015	4 014 468 007 552
16.0 - 30.5	52	76	9	D	1	F 00Y 123 014	4 014 468 007 545
24.0 - 40.0	62	89	10	D	1	F 00Y 139 363	4 014 468 017 926

Step drill bits HSS

Recommended for working on:

Stainless steel, non-ferrous metals, steel plates and plastics

User instructions:

For drilling cylindrical holes in solid material up to 4 mm thick; the tapered cutting edges of the next drilling step can simultaneously be used for deburring or chamfering of the hole drilled

Ground drill bit made of HSS; without pre-drilling in extremely thin sheet metals, burr-free and vibration-free, without friction deposits, chamfered, fixed drilling steps; exact drilling starts due to split point



Step diameter (range) mm	Number of steps	Step height	Overall length mm	Shank diameter	Packaging type	Pack quantity	Part number	EAN code
--------------------------	-----------------	-------------	-------------------	----------------	----------------	---------------	-------------	----------

Spiral-fluted step drill bit, 1/4" hex shank

4.0 - 20.00	9	4.0	70.5	6.5	E	1	F 00Y 265 771	3 165 140 630 320
-------------	---	-----	------	-----	---	---	---------------	-------------------



Spiral-fluted step drill bit, cylindrical shank

4.0 - 12.00	9	4.0	66.5	6.0	E	1	F 00Y 123 691	4 014 468 007 576
4.0 - 20.00	9	4.0	70.5	8.0	E	1	F 00Y 123 692	4 014 468 007 583
6.0 - 30.00	13	4.0	93.5	10.0	E	1	F 00Y 123 693	4 014 468 007 590
6.0 - 39.00	12	4.0	93.5	10.0	E	1	F 00Y 265 770	3 165 140 630 313

Spiral-fluted step drill bit, cylindrical shank

10 steps, diameter 6 - 10.5 - 12.5 - 16.5 - 20.5 - 25.5 - 28 - 32.5 - 35.5 - 40.5

M10	M12	M16	M20	M25	M32	M40		
6.0 - 40.5	16	6.0/4.0	125.5	10.0	D	1	F 00Y 265 772	3 165 140 630 337

12 steps, diameter 6 - 9 - 12.5 - 15.2 - 18.6 - 20.4 - 22.5 - 26 - 28.3 - 30.5 - 34.0 - 40.5

PG7	PG8	PG11	PG13.5	PG16	PG21	PG29		
6.0 - 40.5	12	4.0	93	10.0	D	1	F 00Y 139 360	4 014 468 017 896

Set – Step drill bits HSS



Step diameter (range) mm	Number of steps	Step height	Overall length mm	Shank diameter	Packaging type	Pack quantity	Part number	EAN code
--------------------------	-----------------	-------------	-------------------	----------------	----------------	---------------	-------------	----------

3-piece step drill bit set "HSS" in plastic case

4 - 12	9	4.0	66.5	6.0	N	1	F 00Y 139 362	4 014 468 017 919
4 - 20	9	4.0	70.5	8.0				
6 - 30	13	4.0	93.5	10.0				

Accessories for metalworking

Plate size mm	Overall length mm	Cutter width mm	Packaging type	Pack quantity	Part number	EAN code
---------------	-------------------	-----------------	----------------	---------------	-------------	----------

Blunt scraper with reversible scraper plate made of tungsten carbide, four-cutter



-	430	20	C	1	F 00Y 102 335	4 014 468 011 580
-	480	25	C	1	F 00Y 102 336	4 014 468 011 597
-	480	30	C	1	F 00Y 102 337	4 014 468 011 603



Spare reversible scraper plates made of tungsten carbide, four-cutter

20x25x2	-	-	F	1	F 00Y 102 338	4 014 468 011 610
25x25x2	-	-	F	1	F 00Y 102 339	4 014 468 011 627
30x25x2	-	-	F	1	F 00Y 102 340	4 014 468 011 634

Centre punch with tungsten carbide tip for centre-punching hard materials



-	120	-	C	1	F 00Y 102 341	4 014 468 011 641
---	-----	---	---	---	---------------	-------------------

Scriber pen with tungsten carbide tip for etching in hard materials



-	150	-	C	1	F 00Y 102 342	4 014 468 011 658
---	-----	---	---	---	---------------	-------------------



Drilling
Wood

Hawera wood drill bits:

Precise and fast

A compact drill bit range geared towards high productivity for wooden and board materials. Characterised by technical features that offer advantages both in the application (convenience, speed, durability) and in the result (precise, clean drilled hole, tear-free).

Brad point drill bits

STANDARD

The two-flute drill bit is suitable for drilling holes for screws and fixings in hard and soft wood.

Accurately coordinated centring tip and shoulder cutter make it easier to precisely position and penetrate the drill bit.

Ground using cubic boron nitride (CBN) to ensure excellent sharpness.

> **Precise, tear-free drilled holes**



Forstner bits

FORSTNERSTAR

new

This drill bit enables you to drill clean, splinter-free blind holes, edge holes and slant holes in soft and hard wood as well as in chipboard and veneered wood panels.

The toothed cutting edges have an extra-long lifetime.

Precisely ground centring tip and large chip clearances to ensure optimum chip removal.

> **Extra-long lifetime in hard and soft wood**

Large/deep drilled holes?

Extremely convenient drilling for carpenters, roofers and plumbers. These drill bits make it easier to drill large or deep holes in beams and wooden walls. The self-feeding drill bit tip and the new tip geometry make drilling easier, faster and more precise.

LEWIS

Auger bits

Market standard for the highest quality: with self-feeding threaded tip, pre-cutting spur and main spur. For high delivery volume and rapid drilling rate: flutes with Lewis shape.

> **Dimensionally correct**

drilled holes

> **Effortless drilling progress**



Formwork and installation drill bits

Robust drill bit for the construction site and interior fitting work: safe working, also in damp wood, in wood with nails, multiple layer light building materials or sandwich materials with metal. Secure connection of drill bit and extra-long shank, tapered flute into the offset drill bit and shank ends: for good chip removal and high drilling speed.

> **Drilling without jamming**



Hawera wood drill bits – The stars

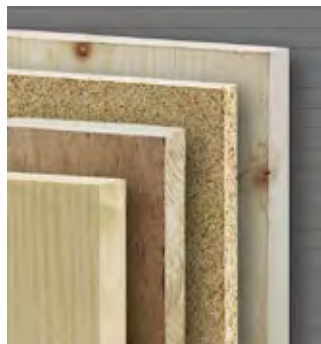


Brad point drill bits

STANDARD

3 – 30 mm diameter

Softwood, wood core plywood and non-laminated chipboard

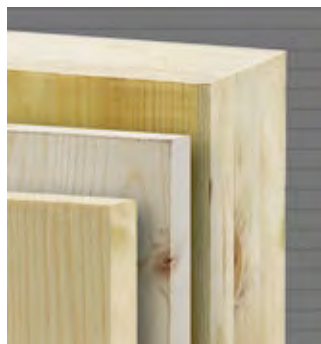


Auger bits

LEWIS

6 – 32 mm diameter

Soft and hard wood, wet wood, glued binders and veneered wood



Spade bits

SELF CUT SPEED

6 – 32 mm diameter

Medium-hard and soft wood, chipboard, fibre boards and light building material



Forstner bits

FORSTNERSTAR

10 – 50 mm diameter

Soft and hard wood, chipboard



Application recommendation

Wooden and board materials	Twist drill bits	Auger bits	Spade bits	Formwork and installation drill bits	TC hinge cutting bits	Forstner bits	Hardware drill bits	Disc cutters	Shank cutters	Countersinks	MULTI-CONSTRUCTION Multi-purpose drill bits
Softwood	•	•	•	•	•	•	•	•	•	•	•
Hardwood	•		•	•	•	•	•	•			•
Tropical woods	•				•		•		•		
Plywood	•	•	•	•	•	•	•	•	•		•
Veneered chipboard	•		•		•	•					
Plastic laminated chipboard/fibre boards	•			•	•	•					•
Resopal	•				•	•					•
Formica	•				•	•					•
Cement-bonded chipboard					•						•
Gypsum plasterboard	•		•	•							•
Rockwool boards			•	•							•
Porous concrete			•	•							•
Thermoplasts					•	•					•
Duroplasts	•				•	•					•
Hard foam materials	•	•	•	•		•					•

Speed recommendation

Wood drill bits							
Brad point drill bits		Diameter in mm	3 - 6	13 - 18	20 - 30		
		Speed (rpm)	1000	700	500		
Auger bits	Length 235 mm Length 450 mm	Diameter in mm	6 - 15	16 - 22	24 - 26	28 - 32	
		Speed (rpm)	1600	1400	1000	800	
		Speed (rpm)	1300	1000	800	800	
Spade bits		Diameter in mm	6 - 25	26 - 35	36 - 40		
		Speed (rpm)	1000	750	600		
Formwork and installation drill bits		Diameter in mm	8 - 14	16 - 22	24 - 26	28 - 30	
		Speed (rpm)	500	400	300	200	
Carbide hinge cutting bits		Diameter in mm	15 - 18	20 - 26	28 - 35	36 - 50	
		Speed (rpm)	1500	1400	1000	600 - 800	
Forstner bits		Diameter in mm	10 - 20	22 - 25	26 - 30	32 - 35	36 - 50
		Speed (rpm)	1500	1100	900	800	600
Hardware drill bits		Diameter in mm	26	30 - 35			
		Speed (rpm)	1100	800			
Countersinks		Diameter in mm	3 - 12				
		Speed (rpm)	500 - 1000				



Hawera hammer drill bits:

STANDARD

Tried and tested brad point drill bit



CBN-ground centring tip and 2 coordinated shoulder cutters

- > Easy, accurate positioning and drilling starts
- > Dimensionally correct, splinter-free holes

Double guiding section

- > Considerably improved guidance in the drilled hole, even in very short holes
- > Prevents chips getting jammed between drill bit and drilling surface

Brad point drill bits Standard

Recommended for working on:

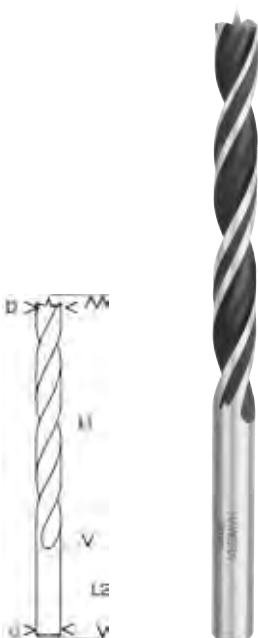
Softwood, wood core plywood and non-laminated chipboard

User instructions:

Rapid drilling, also with cordless drills

Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter d mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------------	---------------------	----------------	---------------	-------------	----------

3	33	61	3	B1	1	F 00Y 105 810	4 014 468 007 798
4	43	75	4	B1	1	F 00Y 105 811	4 014 468 007 804
5	52	86	5	B1	1	F 00Y 105 812	4 014 468 007 811
6	57	93	6	B1	1	F 00Y 105 813	4 014 468 007 828
7	69	109	7	B1	1	F 00Y 105 814	4 014 468 007 835
8	75	117	8	B1	1	F 00Y 105 815	4 014 468 007 842
9	81	120	9	B1	1	F 00Y 105 816	4 014 468 007 859
10	81	120	10	B1	1	F 00Y 105 817	4 014 468 007 866
11	89	142	8	B1	1	F 00Y 105 818	4 014 468 007 873
12	96	151	8	B1	1	F 00Y 105 819	4 014 468 007 880
13	96	151	8	B1	1	F 00Y 105 820	4 014 468 007 897
14	96	151	10	B1	1	F 00Y 105 821	4 014 468 007 903
15	100	160	10	C	1	F 00Y 105 822	4 014 468 007 910
16	100	160	10	C	1	F 00Y 105 823	4 014 468 007 927
18	130	180	10	C	1	F 00Y 105 824	4 014 468 007 934
20	140	200	10	C	1	F 00Y 105 825	4 014 468 007 941
22	140	210	13	C	1	F 00Y 105 742	4 014 468 007 958
24	140	215	13	C	1	F 00Y 105 743	4 014 468 007 965
26	145	215	13	C	1	F 00Y 105 744	4 014 468 007 972
28	145	220	13	C	1	F 00Y 105 745	4 014 468 007 989
30	145	220	13	C	1	F 00Y 105 746	4 014 468 007 996



Brad point drill bits Standard, extra-long

**Recommended for working on:**

Softwood, wood core plywood and non-laminated chipboard

User instructions:

Rapid drilling, also with cordless drills

Wear-resistant CV steel; centring tip and 2 shoulder cutters

Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter d mm	Packaging type	Pack quantity	Part number	EAN code
6	160	240	6	B1	1	F 00Y 138 256	4 014 468 008 009
8	160	240	8	B1	1	F 00Y 138 257	4 014 468 008 016
10	160	240	10	B1	1	F 00Y 138 258	4 014 468 008 023
12	200	240	10	B1	1	F 00Y 138 259	4 014 468 008 030
14	200	240	10	B1	1	F 00Y 138 260	4 014 468 008 047
16	200	240	10	C	1	F 00Y 138 261	4 014 468 008 054
18	200	260	10	C	1	F 00Y 138 262	4 014 468 008 061
20	200	260	10	C	1	F 00Y 138 263	4 014 468 008 078

Sets – Brad point drill bits Standard

Set contents diameter mm	Diameter mm, stone	Diameter mm, metal	Diameter mm, wood	Packaging type	Pack quantity	Part number	EAN code
--------------------------	--------------------	--------------------	-------------------	----------------	---------------	-------------	----------



5-piece brad point drill bit set "Standard" in plastic case

4	P	5	F 00Y 104 958	4 014 468 008 085
5				
6				
8				
10				



8-piece brad point drill bit set "Standard" in plastic case

3	P	8	F 00Y 104 957	4 014 468 008 092
4				
5				
6				
7				
8				
9				
10				



Hawera auger bits:

LEWIS

Ideal in the ancillary building trade –
Especially for carpenters and roofers



Optimised flute geometry with generous, smooth flutes

- > Fast and fatigue-free drilling
- > Chip removal without jamming, even in wet wood
- > High break resistance

Precision-ground drill bit tip with stepped diameter

- > Dimensionally correct holes

Hexagonal shank

- > Non-slip fitting in the drill chuck

Auger bits Lewis

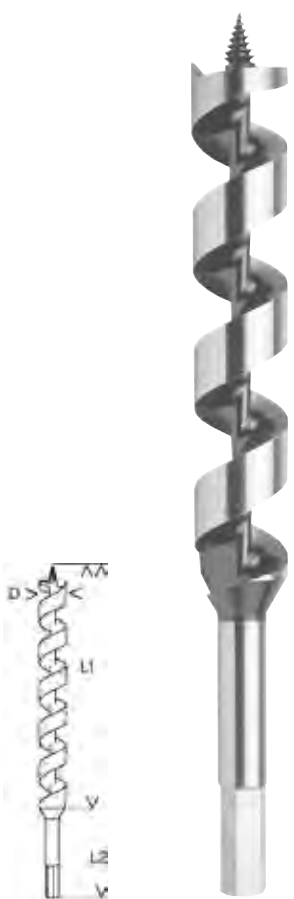
Recommended for working on:

Soft and hard wood (fir, beech), wet wood, glued binders and veneered wood

User instructions:

For use in all drills with 13 mm drill chuck; straight shank at diameter of 6 mm; suitable for deep dowel holes and for pre-drilling rafter nails

Self-centring threaded point, one main spur and one pre-cutting spur



Diameter D mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------------	----------------	---------------	-------------	----------

6	100	160	D	1	F 00Y 212 046	4 014 468 045 653
6	160	235	D	1	F 00Y 124 065	4 014 468 008 771
6	360	450	D	1	F 00Y 212 054	4 014 468 045 721
7	360	450	D	1	F 00Y 141 359	4 014 468 020 582
8	100	160	D	1	F 00Y 212 047	4 014 468 045 660
8	160	235	D	1	F 00Y 124 066	4 014 468 008 788
8	360	450	D	1	F 00Y 124 080	4 014 468 008 917
10	100	160	D	1	F 00Y 212 049	4 014 468 045 677
10	160	235	D	1	F 00Y 124 067	4 014 468 008 795
10	360	450	D	1	F 00Y 124 081	4 014 468 008 924
10	470	600	D	1	F 00Y 142 650	4 014 468 023 132
12	160	235	D	1	F 00Y 212 050	4 014 468 045 684
12	100	160	D	1	F 00Y 124 068	4 014 468 008 801
12	360	450	D	1	F 00Y 124 082	4 014 468 008 931

Auger bits Lewis

Diameter D mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
12	470	600	D	1	F 00Y 142 651	4 014 468 023 064
14	100	160	D	1	F 00Y 212 051	4 014 468 045 691
14	160	235	D	1	F 00Y 124 069	4 014 468 008 818
14	360	450	D	1	F 00Y 124 083	4 014 468 008 948
14	470	600	D	1	F 00Y 142 652	4 014 468 023 071
16	100	160	D	1	F 00Y 212 052	4 014 468 045 707
16	160	235	D	1	F 00Y 124 070	4 014 468 008 825
16	360	450	D	1	F 00Y 124 084	4 014 468 008 955
16	470	600	D	1	F 00Y 142 653	4 014 468 023 088
18	100	160	D	1	F 00Y 212 053	4 014 468 045 714
18	160	235	D	1	F 00Y 124 071	4 014 468 008 832
18	360	450	D	1	F 00Y 124 085	4 014 468 008 962
18	470	600	D	1	F 00Y 142 654	4 014 468 023 095
20	160	235	D	1	F 00Y 124 072	4 014 468 008 849
20	360	450	D	1	F 00Y 124 086	4 014 468 008 979
20	470	600	D	1	F 00Y 142 655	4 014 468 023 101
22	160	235	D	1	F 00Y 124 073	4 014 468 008 856
22	360	450	D	1	F 00Y 124 087	4 014 468 008 986
22	470	600	D	1	F 00Y 142 656	4 014 468 023 118
24	160	235	D	1	F 00Y 124 074	4 014 468 008 863
24	360	450	D	1	F 00Y 124 088	4 014 468 008 993
24	470	600	D	1	F 00Y 142 657	4 014 468 023 125
25	160	235	D	1	F 00Y 207 717	4 014 468 043 406
25	360	450	D	1	F 00Y 207 718	4 014 468 043 413
26	160	235	D	1	F 00Y 124 075	4 014 468 008 870
26	360	450	D	1	F 00Y 202 294	4 014 468 039 423
28	160	235	D	1	F 00Y 124 076	4 014 468 008 887
28	360	450	D	1	F 00Y 202 295	4 014 468 039 393
30	160	235	D	1	F 00Y 124 077	4 014 468 008 894
30	360	450	D	1	F 00Y 202 296	4 014 468 039 409
32	160	235	D	1	F 00Y 124 078	4 014 468 008 900
32	360	450	D	1	F 00Y 202 297	4 014 468 039 416

Sets – Auger bits Lewis



Set contents diameter mm	Overall length(s) mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------------	----------------	---------------	-------------	----------

6-piece auger bit set "Lewis" in wooden case

10, 12, 14, 16, 18, 20	235	K	6	F 00Y 124 357	4 014 468 009 006
---------------------------	-----	---	---	---------------	-------------------

6-piece auger bit set "Lewis" in wooden case

10, 12, 14, 16, 18, 20	450	K	6	F 00Y 124 358	4 014 468 009 013
---------------------------	-----	---	---	---------------	-------------------



Hawera spade bits:

SELF CUT SPEED

Universal use in wood



Fast drilling thanks to self-feeding threaded point

- > Hawera SelfCutSpeed is ten times faster than a standard spade bit
- > Two side spurs
- > Clean and safe drilling action
- > Manufactured in accordance with own factory standards from specially toughened steel
- > 1/4" hex shank manufactured to ISO 1173 E6.3
- > Drill bit colour: blue and polished steel

Spade bits SelfCut Speed

Recommended for working on:

Medium-hard and soft wood, chipboard and fibre boards as well as light building materials such as plasterboard

User instructions:

For use in all chuck holders and toolholders; easy guidance, particularly with hand-held drills; easy re-sharpening

Spade bit with self-feeding threaded point and two side spurs; manufactured to own factory standards from specially toughened steel; insertion end with 1/4" hexagonal shank manufactured to DIN 3126-E6.3



Diameter D mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------	---------------	-------------	----------

Overall length 152 mm

6	152	H	1	F 00Y 228 058	4 014 468 067 266
8	152	H	1	F 00Y 228 059	4 014 468 067 273
10	152	H	1	F 00Y 228 060	4 014 468 067 280
12	152	H	1	F 00Y 228 061	4 014 468 067 297
13	152	H	1	F 00Y 228 062	4 014 468 067 303
14	152	H	1	F 00Y 228 063	4 014 468 067 310
16	152	H	1	F 00Y 228 064	4 014 468 067 327
17	152	H	1	F 00Y 228 065	4 014 468 067 334
18	152	H	1	F 00Y 228 066	4 014 468 067 341
19	152	H	1	F 00Y 228 067	4 014 468 067 358
20	152	H	1	F 00Y 228 068	4 014 468 067 365
22	152	H	1	F 00Y 228 069	4 014 468 067 372

Spade bits SelfCut Speed

Diameter D mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	----------------	---------------	-------------	----------

Overall length 152 mm

24	152	H	1	F 00Y 228 070	4 014 468 067 389
25	152	H	1	F 00Y 228 071	4 014 468 067 396
26	152	H	1	F 00Y 228 072	4 014 468 067 402
28	152	H	1	F 00Y 228 073	4 014 468 067 419
30	152	H	1	F 00Y 228 074	4 014 468 067 426
32	152	H	1	F 00Y 228 075	4 014 468 067 433
35	152	H	1	F 00Y 228 076	4 014 468 067 440
36	152	H	1	F 00Y 228 077	4 014 468 067 457
38	152	H	1	F 00Y 228 078	4 014 468 067 464
40	152	H	1	F 00Y 228 079	4 014 468 067 471

Overall length 400 mm

6	400	H	1	F 00Y 228 080	4 014 468 067 488
8	400	H	1	F 00Y 228 081	4 014 468 067 495
10	400	H	1	F 00Y 228 082	4 014 468 067 501
12	400	H	1	F 00Y 228 083	4 014 468 067 518
13	400	H	1	F 00Y 228 084	4 014 468 067 525
14	400	H	1	F 00Y 228 085	4 014 468 067 532
16	400	H	1	F 00Y 228 086	4 014 468 067 549
17	400	H	1	F 00Y 228 087	4 014 468 067 556
18	400	H	1	F 00Y 228 088	4 014 468 067 563
19	400	H	1	F 00Y 228 089	4 014 468 067 570
20	400	H	1	F 00Y 228 090	4 014 468 067 587
22	400	H	1	F 00Y 228 091	4 014 468 067 594
24	400	H	1	F 00Y 228 092	4 014 468 067 600
25	400	H	1	F 00Y 228 093	4 014 468 067 617
26	400	H	1	F 00Y 228 094	4 014 468 067 624
28	400	H	1	F 00Y 228 095	4 014 468 067 631
30	400	H	1	F 00Y 228 096	4 014 468 067 648
32	400	H	1	F 00Y 228 097	4 014 468 067 655
35	400	H	1	F 00Y 228 098	4 014 468 067 662
36	400	H	1	F 00Y 228 099	4 014 468 067 679
38	400	H	1	F 00Y 228 100	4 014 468 067 686
40	400	H	1	F 00Y 228 101	4 014 468 067 693



Sets – Spade bits SelfCut Speed



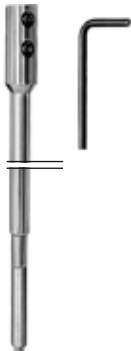
Set contents diameter mm	Overall length(s) mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------------	----------------	---------------	-------------	----------

6-piece spade bit set "SelfCut Speed" in wrap bag

14, 16, 18, 20, 22, 24	152	Q	6	F 00Y 265 102	3 165 140 441 070
---------------------------	-----	---	---	---------------	-------------------



Accessories – Spade bits SelfCut Speed



Mount for machine side	Overall length mm	Packaging type	Pack quantity	Part number	EAN code
------------------------	-------------------	----------------	---------------	-------------	----------

Extension 1/4" (6.35 mm) hexagonal shank

1/4"	152	F	1	F 00Y 228 102	4 014 468 067 709
1/4"	305	F	1	F 00Y 228 127	4 014 468 067 723



Hawera formwork and installation drill bits



Robust drill bit for the construction site



Secured fine-thread connection between bit and shank

- > Improved true-running precision
- > Lowest risk of breakage

Tapered flute and offset drill bit and shank ends

- > Safe work without jamming, even in damp wood
- > Nails that are embedded in wood can be cut through

Extra-long shaft and HSS quality

- > Versatile drilling in multiple layer light building materials or sandwich materials
- > Also suitable as a façade and roofer's drill bit for metal, etc.

Formwork and installation drill bits HSS

Recommended for working on:

Formwork, boards, planks, beams, plasterboard, light building materials, insulations and metal, e.g. metal plates, sandwich material with steel, aluminium or profile sheet

User instructions:

For use in all drills with 13 mm drill chuck; only drill with rotary function, deactivate impact; long drill bit with wide range of applications, both for the building trade (formwork) and for interior fitting work, plumbing, heating and electrical installation

Twist drill bit in HSS quality with long shank end, drill bit tip with chisel edge 118°, manufactured to DIN 7490; meets the safety standards of the "Berufsgenossenschaft Holz" (German timber trade association)



Diameter D mm	Overall length L2 mm	Shank diameter d mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	---------------------	----------------	---------------	-------------	----------

Overall length 400 mm

8	400	6	C	1	F 00Y 104 896	4 014 468 009 020
10	400	8	C	1	F 00Y 104 897	4 014 468 009 037
12	400	8	C	1	F 00Y 104 898	4 014 468 009 044
14	400	8	C	1	F 00Y 104 899	4 014 468 009 051
16	400	10	C	1	F 00Y 104 900	4 014 468 009 068
18	400	10	C	1	F 00Y 104 901	4 014 468 009 075
20	400	10	C	1	F 00Y 104 902	4 014 468 009 082
22	400	10	C	1	F 00Y 104 903	4 014 468 009 099
24	400	11	C	1	F 00Y 104 904	4 014 468 009 105

Formwork and installation drill bits HSS



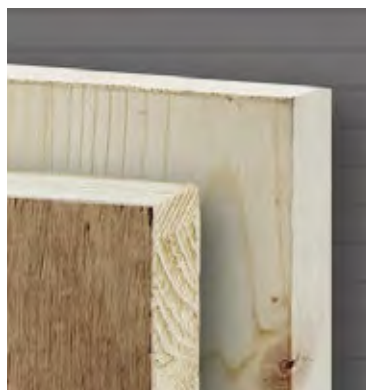
Diameter D mm	Overall length L2 mm	Shank diameter d mm	Packaging type	Pack quantity	Part number	EAN code
---------------	----------------------	---------------------	----------------	---------------	-------------	----------

Overall length 600 mm

8	600	6	C	1 F 00Y 104 910	4 014 468 009 112
10	600	8	C	1 F 00Y 104 911	4 014 468 009 129
12	600	8	C	1 F 00Y 104 912	4 014 468 009 136
14	600	8	C	1 F 00Y 104 913	4 014 468 009 143
16	600	10	C	1 F 00Y 104 914	4 014 468 009 150
18	600	10	C	1 F 00Y 104 915	4 014 468 009 167
20	600	10	C	1 F 00Y 104 916	4 014 468 009 174
22	600	10	C	1 F 00Y 104 917	4 014 468 009 181
24	600	11	C	1 F 00Y 104 918	4 014 468 009 198
26	600	11	C	1 F 00Y 104 919	4 014 468 009 204
28	600	11	C	1 F 00Y 104 920	4 014 468 009 211
30	600	11	C	1 F 00Y 104 921	4 014 468 009 228

Overall length 800 mm

10	800	8	C	1 F 00Y 141 360	4 014 468 020 599
12	800	8	C	1 F 00Y 141 361	4 014 468 020 605
14	800	8	C	1 F 00Y 141 362	4 014 468 020 612
16	800	10	C	1 F 00Y 141 363	4 014 468 020 629
18	800	10	C	1 F 00Y 141 364	4 014 468 020 636
20	800	10	C	1 F 00Y 141 365	4 014 468 020 643
22	800	10	C	1 F 00Y 141 366	4 014 468 020 650
24	800	11	C	1 F 00Y 141 367	4 014 468 020 667



Hawera Forstner drill bits:

FORSTNERSTAR

The specialist with extra-long lifetime in hard and soft wood



Toothed cutting edges

- > Less friction and longer lifetime
- > Clean, splinter-free drilling

Precise centring tip and large chip clearances

- > Outstanding speed in soft and hard wood

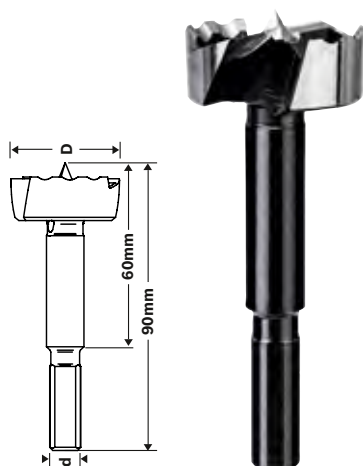
Forstner drill bits ForstnerStar

Recommended for working on:

Soft and hard solid wood, chipboard and veneered wood panels

User instructions:

For drilling splinter-free blind holes; also suitable for drilling edge holes and slant holes



Diameter D mm	Overall length L2 mm	Shank diameter d mm	Packaging type	Pack quantity	Part number	EAN code
10	90	8	D	1	F 00Y 266 423	3 165 140 890 694
12	90	8	D	1	F 00Y 266 424	3 165 140 890 700
14	90	8	D	1	F 00Y 266 425	3 165 140 890 717
15	90	8	D	1	F 00Y 266 426	3 165 140 890 724
16	90	8	D	1	F 00Y 266 427	3 165 140 890 731
18	90	8	D	1	F 00Y 266 428	3 165 140 890 748
20	90	8	D	1	F 00Y 266 429	3 165 140 890 755
22	90	8	D	1	F 00Y 266 430	3 165 140 890 762
24	90	8	D	1	F 00Y 266 431	3 165 140 890 779
25	90	8	D	1	F 00Y 266 432	3 165 140 890 786
26	90	8	D	1	F 00Y 266 433	3 165 140 890 793
28	90	8	D	1	F 00Y 266 434	3 165 140 890 809
30	90	8	D	1	F 00Y 266 435	3 165 140 890 816
32	90	10	D	1	F 00Y 266 436	3 165 140 890 823
35	90	10	D	1	F 00Y 266 437	3 165 140 890 830
40	90	10	D	1	F 00Y 266 438	3 165 140 890 847
45	90	10	D	1	F 00Y 266 439	3 165 140 890 861
50	90	10	D	1	F 00Y 266 440	3 165 140 890 878



Set – Forstner drill bits, similar to DIN 7483 G



Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------

5-piece set in wooden case

15	K	5	F 00Y 266 441	3 165 140 890 885
20				
25				
30				
35				

Disc cutters / Shank cutters, DIN 7489

For repairing:

Branches and poor quality pieces of wood in conjunction with Hawera Forstner or hinge cutting bits

User instructions:

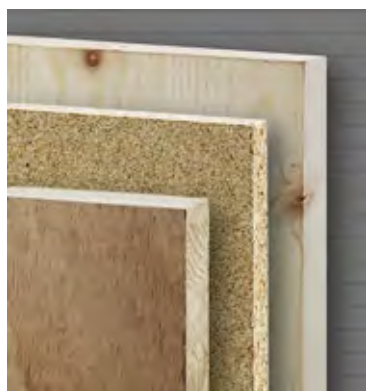
Disc cutters with 0.1 mm oversize for close fitting of knothole dowels

Precisely ground inner and outer cutting edges



Inner diameter mm	Overall length mm	Packaging type	Pack quantity	Part number	EAN code
-------------------	-------------------	----------------	---------------	-------------	----------

10	140	E	1	F 00Y 104 889	4 014 468 008 146
15	140	E	1	F 00Y 104 890	4 014 468 008 153
20	140	E	1	F 00Y 104 891	4 014 468 008 160
25	140	E	1	F 00Y 104 892	4 014 468 008 177
30	140	E	1	F 00Y 104 893	4 014 468 008 184
35	160	E	1	F 00Y 104 894	4 014 468 008 191
40	160	E	1	F 00Y 104 895	4 014 468 008 207



Hawera hinge cutting bits

Dimensionally correct and tear-free drilling in various types of wood

TC hinge cutting bits

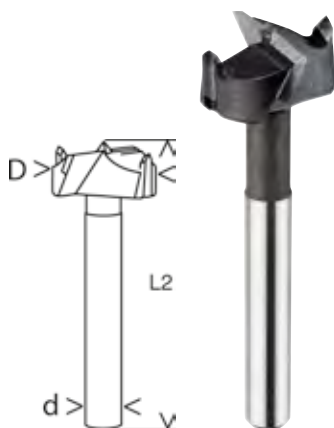
Recommended for working on:

Abrasive building materials such as plywood, hardwood, plastic-laminated wood, wood fibreboard and chipboard

User instructions:

Productive and absolutely exact working by hand or with a drill stand; suitable for joiners and carpenters, especially in window, door and kitchen fitting

Precision-ground, extra-sharp tungsten carbide cutting edges, shape similar to DIN 7483 G; two of each: diamond-ground side and main spurs, with short centring tip



Diameter D mm	Overall length L2 mm	Shank diameter d mm	Packaging type	Pack quantity	Part number	EAN code
15	90	10	D	1	F 00Y 104 836	4 014 468 008 641
18	90	10	D	1	F 00Y 123 976	4 014 468 008 658
20	90	10	D	1	F 00Y 104 837	4 014 468 008 665
22	90	10	D	1	F 00Y 123 977	4 014 468 008 672
24	90	10	D	1	F 00Y 123 978	4 014 468 008 689
25	90	10	D	1	F 00Y 104 838	4 014 468 008 696
26	90	10	D	1	F 00Y 104 839	4 014 468 008 702
30	90	10	D	1	F 00Y 104 840	4 014 468 008 719
35	90	10	F	1	F 00Y 104 841	4 014 468 008 726
40	90	10	E	1	F 00Y 123 979	4 014 468 008 733



Hinge cutting bits

Recommended for working on:
Softwood, chipboard and wood core plywood

Two of each: diamond-ground side and main spurs with short centring tip



Diameter D mm	Overall length L2 mm	Shank diameter d mm	Packaging type	Pack quantity	Part number	EAN code
8	90	8x30	D	1	F 00Y 123 930	4 014 468 008 436
10	90	8x30	D	1	F 00Y 104 959	4 014 468 008 443
12	90	8x30	D	1	F 00Y 104 960	4 014 468 008 450
14	90	8x30	D	1	F 00Y 104 961	4 014 468 008 467
15	90	8x30	D	1	F 00Y 104 962	4 014 468 008 474
16	90	8x30	D	1	F 00Y 104 963	4 014 468 008 481
18	90	8x30	D	1	F 00Y 104 964	4 014 468 008 498
20	90	8x30	D	1	F 00Y 104 965	4 014 468 008 504
22	90	8x30	D	1	F 00Y 123 931	4 014 468 008 511
24	90	8x30	D	1	F 00Y 123 932	4 014 468 008 528
25	90	8x30	D	1	F 00Y 104 970	4 014 468 008 535
26	90	8x30	D	1	F 00Y 104 971	4 014 468 008 542
28	90	8x30	D	1	F 00Y 123 933	4 014 468 008 559
30	90	8x30	D	1	F 00Y 104 972	4 014 468 008 566
32	90	10x30	D	1	F 00Y 104 966	4 014 468 008 573
34	90	10x30	D	1	F 00Y 123 934	4 014 468 008 580
35	90	10x30	D	1	F 00Y 104 973	4 014 468 008 597
40	90	10x30	D	1	F 00Y 123 935	4 014 468 008 603
45	90	10x30	D	1	F 00Y 123 936	4 014 468 008 610
50	90	10x30	D	1	F 00Y 123 937	4 014 468 008 627
55	90	10x30	D	1	F 00Y 141 358	4 014 468 020 575

Set – Hinge cutting bits



Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------

5-piece hinge cutting bit set in wooden case

15	K	5	F 00Y 123 938	4 014 468 008 634
20				
25				
30				
35				

Countersinks, similar to DIN 6446 B

**Recommended for working on:**

Wood, plastic and non-ferrous metal

User instructions:

For countersink and pan-head screws

Tool steel with 5 cutting edges; 90° countersink angle

Diameter mm	Overall length mm	Packaging type	Pack quantity	Part number	EAN code
10	90	D	1 F 00Y 104 941	4 014 468 008 108	
13	90	D	1 F 00Y 104 942	4 014 468 008 115	
16	90	D	1 F 00Y 104 943	4 014 468 008 122	
20	90	D	1 F 00Y 104 944	4 014 468 008 139	

Shell counterborer

Recommended for working on:

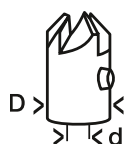
Hard and soft wood, laminated and non-laminated chipboard, and plywood

User instructions:

Suitable for brad point drill bits; drilling and countersinking in a single operation; simply turned; can also be used as a drilling depth stop; tool steel with 5 cutting edges; 90° countersink angle

Inner diameter d mm	Outer diameter D mm	Packaging type	Pack quantity	Part number	EAN code
3	16	D	1 F 00Y 141 353	4 014 468 020 520	
4	16	D	1 F 00Y 141 354	4 014 468 020 537	
5	16	D	1 F 00Y 141 355	4 014 468 020 544	
6	16	D	1 F 00Y 141 356	4 014 468 020 551	
8	20	D	1 F 00Y 141 357	4 014 468 020 568	
10	20	D	1 F 00Y 142 589	4 014 468 022 937	

Supplied with hexagon pin key but without drill bit





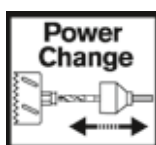


Drilling Holesaws

Hawera holesaws:

Practical

Holesaws for interior fitting work: **Electricians and plumbers** value the **MultiConstruction** because it is perfectly suitable for drilling holes through **wood**, tiles and **masonry**. This is a major advantage – for example when working on sockets.



Progressor, the specialist for fast working in **wood** and **metal**. The holesaw for **all-round use** on the construction site and in the workshop. With outstanding performance in inox, steel, aluminium, hardwood, composite materials and plastics.

Both holesaws can be fitted to all conventional drills with a single **quick-change adapter**.

Which Hawera holesaw is suitable for working on which materials?

The double-sided table below provides the answer to this question.



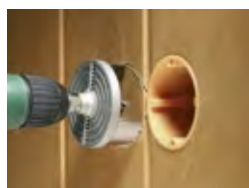
Application ranges	Application instructions
Acrylic glass	Use coolant
Fibre-reinforced composites	
Plasterboard and plaster blocks	
Plastics	
Laminate	
Natural wood, hardwood	
Sandwich materials	
Chipboard, raw, veneered, laminated	
Plywood, wood core plywood	
Roofing tiles	Not concrete roofing tiles
Vertically perforated brick	Reduce feed pressure
Lightweight concrete	
Masonry	
Solid brick	
Wall tiles	Low speed at hardness rating of 6
Floor tiles, porcelain, fine stoneware	
Cement-bonded fibre boards	
Cement-bonded chipboard	
Aluminium	Use cutting oil
Non-ferrous metals	Use cutting oil
Thin sheet metals (INOX, steel, aluminium, copper)	Use cutting oil
INOX	Use cutting oil
Steel, cast iron	Use cutting oil



Diamond-ground tungsten carbide teeth, drop-shaped chip clearance slots.



HSS bi-metal with 8% cobalt.
Progressive tooth strip.



Die-cast aluminium body.
Hardened teeth.



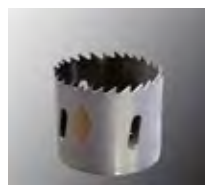
PROGRESSOR



MULTI CONSTRUCTION



XHCERAMICS



HSS-BIMETAL



Hole cutters

○
○
○
○
○
○
○
○
○

●
●
●
●
●
●
●
●
●

○
○
○
○
○
○
○
○
○

●
○
○
●
●
○
●
●

●
●
●
●
●
●
●
●

●
●
●

●
●
●
●
●

●
●
●
○
●

Speed recommendation

PROGRESSOR, HSS-BIMETAL

Diameter in mm	Stainless steel, rpm	Steel, HSS bi-metal rpm	Aluminium rpm	Wood, PVC rpm
14	300	550	900	3000
16	275	530	825	3000
17	250	500	750	3000
19	230	460	690	3000
20	220	440	675	3000
21	210	425	660	3000
22	195	390	580	3000
24	185	370	555	2700
25	175	350	525	2700
27	160	325	480	2700
29	150	300	450	2700
30	145	285	425	2400
32	140	275	410	2400
33	135	260	390	2400
35	125	250	375	2400
37	120	240	360	2400
38	115	230	345	2400
40	110	220	330	2100
41	105	210	315	2100
43	100	205	305	2100
44	95	195	295	2100
46	95	190	285	2100
48	90	18	270	2100
51	85	170	255	2000
52	80	165	240	2000
54	80	160	240	2000
56	80	155	240	2000

Diameter in mm	Stainless steel, rpm	Steel rpm	Aluminium rpm	Wood, PVC rpm
57	75	150	225	2000
59	75	145	225	2000
60	70	140	220	2000
64	65	135	205	1850
65	65	130	200	1850
67	65	130	195	1800
68	65	130	190	1800
70	60	125	185	1800
73	60	120	180	1800
76	55	115	170	1800
79	55	110	165	1500
83	50	105	155	1500
86	50	100	150	1500
89	45	95	145	1200
92	45	90	140	1200
95	45	90	135	1200
98	45	90	135	1200
102	40	85	130	1000
105	40	80	120	1000
108	40	80	120	900
111	40	80	120	900
114	35	75	105	900
121	35	75	95	900
127	30	65	90	800
140	25	60	85	800
152	25	55	75	800

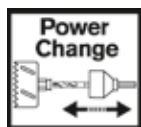
MULTI CONSTRUCTION

Diameter in mm	Wooden boards and chipboard, rpm	Plastic rpm	Masonry, Karat rpm	Tiles rpm
20 - 35	1000	800	800	500
40 - 50	800	600	700	400
58 - 74	600	400	600	400
80 - 105	400	300	300	300

XH CERAMICS

Diameter in mm	Diameter in inches	Speed reception rpm
19	3/4	800 - 1200
20	25/32	800 - 1200
22	7/8	800 - 1200
25	1	800 - 1200
29	1 1/8	500 - 900
32	1 1/4	500 - 900
35	1 3/8	500 - 900
38	1 1/2	500 - 900
41	1 5/8	500 - 900
44	1 3/4	500 - 900
51	2	400 - 800
54	2 1/8	400 - 800
57	2 1/4	400 - 800
60	2 3/8	200 - 600
64	2 1/2	200 - 600
65	2 9/16	200 - 600
67	2 5/8	200 - 600
68	2 11/16	200 - 600
70	2 3/4	200 - 600
76	3	200 - 600
79	3 1/8	150 - 500
83	3 1/4	150 - 500

All it takes is a click



Hawera holesaws equipped with the Power-Change adapter can be fitted to all conventional drills with a single click.

Tool-free insertion of pilot drill bit and holesaw into the **quick-change adapter**.

This means that you no longer have to screw the accessory on and off.



Insert the pilot drill bit ...



... insert the holesaw ...
click!



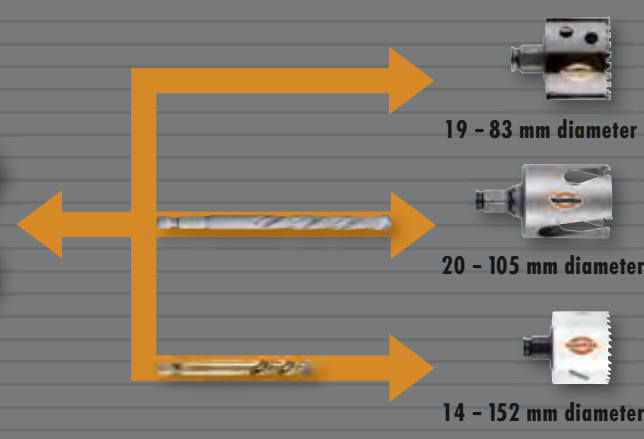
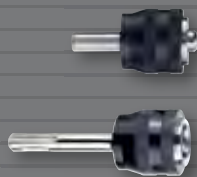
... and drill!

Only one adapter

> **XH CERAMICS,
MULTICONSTRUCTION
PROGRESSOR**

> for all important diameters

> for all conventional drills





Hawera holesaws

PROGRESSOR

The specialist for fast working in wood and metal



Progressive tooth strip with 10° cutting angle

> For a powerful bite and accelerated chip clearance

Tooth ring with 8% cobalt alloy

> Extreme resistance and long lifetime

Power-Change adapter

> Fast and safe securing and releasing of pilot drill bit and holesaw with just one click

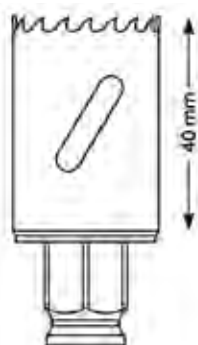
Holesaws HSS bi-metal Progressor

Recommended for working on:

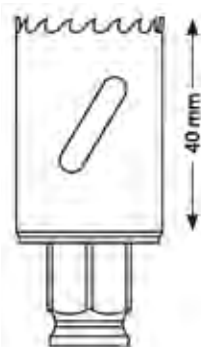
Aluminium, non-ferrous metal, steel, cast iron, inox, sheet metal, soft and hard wood, plywood, wood core plywood, chipboard (raw-veneered), sandwich materials, plastic, acrylic glass, plasterboard and plaster blocks

User instructions:

For use in drills with drill chuck or SDS-plus holder; only drill with rotary function, deactivate impact



Diameter mm	Diameter inch	Packaging type	Pack quantity	Part number	EAN code
14	9/16	G	1	F 00Y 227 629	4 014 468 066 337
16	5/8	G	1	F 00Y 227 630	4 014 468 066 344
17	11/16	G	1	F 00Y 227 631	4 014 468 066 351
19	3/4	G	1	F 00Y 227 632	4 014 468 066 368
20	25/32	G	1	F 00Y 227 633	4 014 468 066 375
21	13/16	G	1	F 00Y 227 634	4 014 468 066 382
22	7/8	G	1	F 00Y 227 635	4 014 468 066 399
24	15/16	G	1	F 00Y 227 636	4 014 468 066 405
25	1	G	1	F 00Y 227 637	4 014 468 066 412
27	1 1/16	G	1	F 00Y 227 638	4 014 468 066 429
29	1 1/8	G	1	F 00Y 227 639	4 014 468 066 436
30	1 3/16	G	1	F 00Y 227 640	4 014 468 066 443
32	1 1/4	G	1	F 00Y 227 641	4 014 468 066 450
33	1 5/16	G	1	F 00Y 227 642	4 014 468 066 467

Holesaws HSS bi-metal Progressor


Diameter mm	Diameter inch	Packaging type	Pack quantity	Part number	EAN code
35	1 3/8	G	1	F 00Y 227 643	4 014 468 066 474
37	1 7/16	G	1	F 00Y 227 644	4 014 468 066 481
38	1 1/2	G	1	F 00Y 227 645	4 014 468 066 498
40	1 9/16	G	1	F 00Y 227 646	4 014 468 066 504
41	1 5/8	G	1	F 00Y 227 647	4 014 468 066 511
43	1 11/16	G	1	F 00Y 227 648	4 014 468 066 528
44	1 3/4	G	1	F 00Y 227 649	4 014 468 066 535
46	1 13/16	G	1	F 00Y 227 650	4 014 468 066 542
48	1 7/8	G	1	F 00Y 227 651	4 014 468 066 559
51	2	G	1	F 00Y 227 652	4 014 468 066 566
52	2 1/16	G	1	F 00Y 227 653	4 014 468 066 573
54	2 1/8	G	1	F 00Y 227 654	4 014 468 066 580
56	2 3/16	G	1	F 00Y 227 655	4 014 468 066 597
57	2 1/4	G	1	F 00Y 227 656	4 014 468 066 603
59	2 5/16	G	1	F 00Y 227 657	4 014 468 066 610
60	2 3/8	G	1	F 00Y 227 658	4 014 468 066 627
64	2 1/2	G	1	F 00Y 227 659	4 014 468 066 634
65	2 9/16	G	1	F 00Y 227 660	4 014 468 066 641
67	2 5/8	G	1	F 00Y 227 661	4 014 468 066 658
68	2 11/16	G	1	F 00Y 227 662	4 014 468 066 665
70	2 3/4	G	1	F 00Y 227 663	4 014 468 066 672
73	2 7/8	G	1	F 00Y 227 664	4 014 468 066 689
76	3	G	1	F 00Y 227 665	4 014 468 066 696
79	3 1/8	G	1	F 00Y 227 666	4 014 468 066 702
83	3 1/4	G	1	F 00Y 227 667	4 014 468 066 719
86	3 3/8	G	1	F 00Y 227 668	4 014 468 066 726
89	3 1/2	G	1	F 00Y 227 669	4 014 468 066 733
92	3 5/8	G	1	F 00Y 227 670	4 014 468 066 740
95	3 3/4	G	1	F 00Y 227 671	4 014 468 066 757
98	3 7/8	L	1	F 00Y 227 672	4 014 468 066 764
102	4	L	1	F 00Y 227 673	4 014 468 066 771
105	4 1/8	L	1	F 00Y 227 674	4 014 468 066 788
108	4 1/4	L	1	F 00Y 227 675	4 014 468 066 795
111	4 3/8	L	1	F 00Y 227 676	4 014 468 066 801
114	4 1/2	L	1	F 00Y 227 677	4 014 468 066 818
121	4 3/4	L	1	F 00Y 227 678	4 014 468 066 825
127	5	L	1	F 00Y 227 679	4 014 468 066 832
140	5 1/2	L	1	F 00Y 227 680	4 014 468 066 849
152	6	L	1	F 00Y 227 681	4 014 468 066 856



Sets – Holesaws HSS bi-metal Progressor



Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------

1-piece set, including Power-Change adapter, HSS-G pilot drill bit

-	G	1	F 00Y 265 679	3 165 140 594 912
---	---	---	---------------	-------------------



8-piece set, including Power-Change adapter, HSS-Co pilot drill bit

22	T	8	F 00Y 227 682	4 014 468 066 863
29				
35				
44				
51				
64				



11-piece set, including 1 Power-Change adapter, 2 HSS-Co pilot drill bits

25	T	11	F 00Y 265 348	3 165 140 538 572
32				
40				
54				
60				
68				
76				
86				



13-piece set, including Power-Change adapter, HSS-Co pilot drill bit

19	T	13	F 00Y 227 683	4 014 468 066 870
22				
25				
29				
35				
38				
44				
51				
57				
64				
76				

Accessories – Holesaws HSS bi-metal Progressor



Mount for machine side	Overall length mm	Packaging type	Pack quantity	Part number	EAN code
------------------------	-------------------	----------------	---------------	-------------	----------

6-piece adapter set for HSS bi-metal holesaw on Power-Change adapter

-	-	F	6	F 00Y 227 688	4 014 468 066 924
---	---	---	---	---------------	-------------------



Power-Change adapter with 8 mm hex shank with HSS-Co pilot drill bit;
for holesaw diameter of 14 - 152 mm

Hexagon WAF 8 mm	-	H	1	F 00Y 227 684	4 014 468 066 887
---------------------	---	---	---	---------------	-------------------



Power-Change adapter with 11 mm hex shank with HSS-Co pilot drill bit;
for holesaw diameter of 14-152 mm

Hexagon WAF 11 mm	-	G	1	F 00Y 265 155	3 165 140 476 645
----------------------	---	---	---	---------------	-------------------



Power-Change adapter with SDS-plus shank, with HSS-Co pilot drill bit;
for holesaw diameter of 14 - 152 mm.

SDS-plus	-	H	1	F 00Y 227 685	4 014 468 066 894
----------	---	---	---	---------------	-------------------



Power-Change adapter with 8 mm hex shank.
For holesaw diameter of 14 - 152 mm. Without pilot drill bit.

Hexagon WAF 8 mm	82	G	1	F 00Y 265 246	3 165 140 519 878
---------------------	----	---	---	---------------	-------------------



Power-Change adapter Heavy Duty with 11 mm hex shank.
For holesaw diameter of 14 - 152 mm. Without pilot drill bit.

Hexagon WAF 11 mm	80	G	1	F 00Y 265 248	3 165 140 520 188
----------------------	----	---	---	---------------	-------------------



Power-Change adapter with SDS-plus shank.
For holesaw diameter of 14 - 152 mm. Without pilot drill bit.

SDS-plus	98	G	1	F 00Y 265 247	3 165 140 519 885
----------	----	---	---	---------------	-------------------



HSS-Co pilot drill bit with 1/4" hex shank, 135° point angle and split point;
length = 80 mm

-	80	B1	1	F 00Y 227 686	4 014 468 066 900
---	----	----	---	---------------	-------------------



305 mm extension with 3/8" hex shank (WAF 9.5)

-	305	F	1	F 00Y 227 746	4 014 468 066 986
---	-----	---	---	---------------	-------------------



Hawera holesaws

MULTI CONSTRUCTION

The specialist for interior fitting work and renovation



Diamond-ground tungsten carbide teeth

> Extremely powerful and durable

Drop-shaped chip clearance slots

> Rapid, uninterrupted drilling rate

Power-Change adapter

> Fast and safe securing and releasing of pilot drill bit and holesaw with just one click

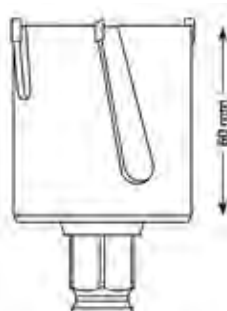
Multi-purpose holesaws MultiConstruction

Recommended for working on:

Soft and hard wood, plywood, wood core plywood, chipboard (raw-veneered), laminate, sandwich materials, plastics, acrylic glass, masonry, wall tiles, brick, plasterboard and plaster blocks, Heraklit boards, Eternit, aerated concrete, solid bricks, roofing tiles, vertically perforated bricks and limestone

User instructions:

For use in drills with drill chuck or SDS-plus holder; only drill with rotary function, deactivate impact



Diameter mm	Number of teeth	Packaging type	Pack quantity	Part number	EAN code
25	3	G	1	F 00Y 227 800	4 014 468 067 747
30	3	G	1	F 00Y 227 801	4 014 468 067 754
35	3	G	1	F 00Y 227 802	4 014 468 067 761
40	3	G	1	F 00Y 227 803	4 014 468 067 778
45	3	G	1	F 00Y 227 804	4 014 468 067 785
50	3	G	1	F 00Y 227 805	4 014 468 067 792
55	4	G	1	F 00Y 227 806	4 014 468 067 808
58	4	G	1	F 00Y 227 807	4 014 468 067 815
60	4	G	1	F 00Y 227 808	4 014 468 067 822
63	4	G	1	F 00Y 227 809	4 014 468 067 839
65	4	G	1	F 00Y 227 810	4 014 468 067 846
68	4	G	1	F 00Y 227 811	4 014 468 067 853
74	4	G	1	F 00Y 227 814	4 014 468 067 884
80	4	G	1	F 00Y 227 816	4 014 468 067 907
105	5	G	1	F 00Y 227 819	4 014 468 067 938

Accessories – Multi-purpose holesaws MultiConstruction

Mount for machine side

Overall length mm

Packaging type

Pack quantity

Part number

EAN code



Power-Change adapter with 8 mm hex shank with tungsten carbide pilot drill bit;
for holesaw diameter of 20 - 105 mm.

Hexagon WAF 8 mm	-	H	1 F 00Y 227 744	4 014 468 066 962
---------------------	---	---	-----------------	-------------------



Power-Change adapter with 11 mm hex shank with tungsten carbide pilot drill bit.
For holesaw diameter of 20-105 mm.

Hexagon WAF 11 mm	-	G	1 F 00Y 265 156	3 165 140 476 652
----------------------	---	---	-----------------	-------------------



Power-Change adapter with SDS-plus shank, with tungsten carbide pilot drill bit.
For holesaw diameter of 20-105 mm.

SDS-plus	-	H	1 F 00Y 227 745	4 014 468 066 979
----------	---	---	-----------------	-------------------



Power-Change adapter with 8 mm hex shank.
For holesaw diameter of 14 - 152 mm. Without pilot drill bit.

Hexagon WAF 8 mm	82	G	1 F 00Y 265 246	3 165 140 519 878
---------------------	----	---	-----------------	-------------------



Accessories – Multi-purpose holesaws MultiConstruction

Mount for machine side	Overall length mm	Packaging type	Pack quantity	Part number	EAN code
------------------------	-------------------	----------------	---------------	-------------	----------

Power-Change adapter Heavy Duty with 11 mm hex shank.

For holesaw diameter of 14 - 152 mm. Without pilot drill bit.



Hexagon WAF 11 mm	80	G	1	F 00Y 265 248	3 165 140 520 188
----------------------	----	---	---	---------------	-------------------

Power-Change adapter with SDS-plus shank.

For holesaw diameter of 14 - 152 mm. Without pilot drill bit.



SDS-plus	98	G	1	F 00Y 265 247	3 165 140 519 885
----------	----	---	---	---------------	-------------------

Tungsten carbide pilot drill bit with 1/4" hex shank, drill bit tip 118°; centred, special multi-purpose diamond-ground carbide tip; length = 120 mm



-	120	B1	1	F 00Y 228 248	4 014 468 067 952
---	-----	----	---	---------------	-------------------

HSS-Co pilot drill bit with 1/4" hex shank, 135° point angle and split point; length = 120 mm



-	120	B1	1	F 00Y 231 786	4 014 468 068 065
---	-----	----	---	---------------	-------------------

305 mm extension with 3/8" hex shank (WAF 9.5)



-	305	F	1	F 00Y 227 746	4 014 468 066 986
---	-----	---	---	---------------	-------------------



Hawera diamond wet drill bits and holesaws:

XHCERAMICS

Precise drilling in hard tiles

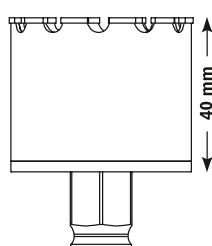


Diamond wet drill bits XH Ceramics



Diameter mm	Working length mm	Overall length mm	Packaging type	Pack quantity	Part number	EAN code
5	30	65	E	1	F 00Y 265 221	3 165 140 495 837
6	35	65	E	1	F 00Y 265 222	3 165 140 495 844
7	35	65	E	1	F 00Y 265 223	3 165 140 495 851
8	35	65	E	1	F 00Y 265 224	3 165 140 495 868
10	35	65	E	1	F 00Y 265 225	3 165 140 495 875
12	35	65	E	1	F 00Y 265 226	3 165 140 495 882
14	35	65	E	1	F 00Y 265 227	3 165 140 495 899

Diamond holesaws XH Ceramics



Diamond holesaw with Power-Change adapter

19	3/4	40	G	1	F 00Y 265 172	3 165 140 489 263
20	25/32	40	G	1	F 00Y 265 173	3 165 140 489 270
22	7/8	40	G	1	F 00Y 265 174	3 165 140 489 287
25	1	40	G	1	F 00Y 265 175	3 165 140 489 294
29	1 1/8	40	G	1	F 00Y 265 176	3 165 140 489 300
32	1 1/4	40	G	1	F 00Y 265 177	3 165 140 489 317
35	1 3/8	40	G	1	F 00Y 265 178	3 165 140 489 324
38	1 1/2	40	G	1	F 00Y 265 179	3 165 140 489 331
41	1 5/8	40	G	1	F 00Y 265 244	3 165 140 515 177
44	1 3/4	40	G	1	F 00Y 265 180	3 165 140 489 348
51	2	40	G	1	F 00Y 265 181	3 165 140 489 355
54	2 1/8	40	G	1	F 00Y 265 182	3 165 140 489 362
57	2 1/4	40	G	1	F 00Y 265 183	3 165 140 489 379
60	2 3/8	40	G	1	F 00Y 265 184	3 165 140 489 386
64	2 1/2	40	G	1	F 00Y 265 185	3 165 140 489 393
65	2 9/16	40	G	1	F 00Y 265 186	3 165 140 489 409
67	2 5/8	40	G	1	F 00Y 265 187	3 165 140 489 416

Diamond holesaws XH Ceramics

Diameter mm	Diameter inch	Working length mm	Packaging type	Pack quantity	Part number	EAN code
-------------	---------------	-------------------	----------------	---------------	-------------	----------

Diamond holesaw with Power-Change adapter

68	2 11/16	40	G	1	F 00Y 265 188	3 165 140 489 423
70	2 3/4	40	G	1	F 00Y 265 189	3 165 140 489 430
76	3	40	G	1	F 00Y 265 190	3 165 140 489 447
79	3 1/8	40	G	1	F 00Y 265 191	3 165 140 489 454
83	3 1/4	40	G	1	F 00Y 265 192	3 165 140 489 461

Accessories – Diamond wet drill bits and holesaws XH Ceramics

Mount for machine side	Overall length mm	Packaging type	Pack quantity	Part number	EAN code
------------------------	-------------------	----------------	---------------	-------------	----------



Power-Change adapter with 8 mm hex shank.
For holesaw diameter of 14 - 152 mm. Without pilot drill bit.

Hexagon WAF 8 mm	82	G	1	F 00Y 265 246	3 165 140 519 878
------------------	----	---	---	---------------	-------------------



Power-Change adapter Heavy Duty with 11 mm hex shank.
For holesaw diameter of 14 - 152 mm. Without pilot drill bit.

Hexagon WAF 11 mm	80	G	1	F 00Y 265 248	3 165 140 520 188
-------------------	----	---	---	---------------	-------------------



Power-Change adapter with SDS-plus shank.
For holesaw diameter of 14 - 152 mm. Without pilot drill bit.

SDS-plus	98	G	1	F 00Y 265 247	3 165 140 519 885
----------	----	---	---	---------------	-------------------



Spring-mounted centring pin with tungsten carbide tip
for starting to drill in hard materials

1/4" hex shank	-	G	1	F 00Y 265 617	3 165 140 575 539
----------------	---	---	---	---------------	-------------------

Accessories – Diamond drill bits and holesaws XH Ceramics

	Packaging type	Pack quantity	Part number	EAN code
--	----------------	---------------	-------------	----------



Centring aid for diamond holesaws

L	1	F 00Y 265 198	3 165 140 489 669
---	---	---------------	-------------------



Centring aid for diamond drill bits

G	1	F 00Y 265 230	3 165 140 495 929
---	---	---------------	-------------------



Water bottle for diamond holesaws and drill bits

L	1	F 00Y 265 231	3 165 140 495 936
---	---	---------------	-------------------





Hawera holesaws

HSS-BIMETAL

The specialist for clean, precise round holes in metal and wood



Holesaws HSS bi-metal

Recommended for working on:

Cast steel, cast iron, structural steel, alloyed and non-alloyed aluminium, bronze, copper, PVC, acrylic glass, plasterboard and wood

User instructions:

For use in box column drills, hand-held drills and rotary hammers (deactivate impact); maximum cutting depth for all sizes 44 mm; the cut quality depends on using the correct speed and cooling (observe operating instructions); a high-quality cutting oil should be used when sawing metals (except for cast iron); chips should be removed as often as possible to prevent the saw from overheating; holesaw is ideal for electricians, heating engineers, plumbers and locksmiths, as well as machine, apparatus, container and car body manufacture

Breakproof design with solid support plate; high speed steel tooth strip with 8% cobalt alloy; high carbon steel body; Vario-Pitch tooth strip for fast drilling rate.

Diameter mm	Diameter inch	Packaging type	Pack quantity	Part number	EAN code
-------------	---------------	----------------	---------------	-------------	----------

Insertion end with both SDS-plus and hex shank



14	9/16	L	1	F 00Y 142 590	4 014 468 022 951
16	5/8	L	1	F 00Y 118 321	4 014 468 009 235
17	11/16	L	1	F 00Y 142 591	4 014 468 022 944
19	3/4	L	1	F 00Y 118 322	4 014 468 009 242
20	25/32	L	1	F 00Y 118 323	4 014 468 009 259
21	13/16	L	1	F 00Y 118 324	4 014 468 009 266
22	7/8	L	1	F 00Y 118 325	4 014 468 009 273
24	15/16	L	1	F 00Y 142 592	4 014 468 022 968
25	1	L	1	F 00Y 118 326	4 014 468 009 280
27	1 1/16	L	1	F 00Y 118 327	4 014 468 009 297
29	1 1/8	L	1	F 00Y 118 328	4 014 468 009 303

Holesaws HSS bi-metal

Diameter mm	Diameter inch	Packaging type	Pack quantity	Part number	EAN code
-------------	---------------	----------------	---------------	-------------	----------

Insertion end with both SDS-plus and hex shank

30	1 3/16	L	1	F 00Y 118 329	4 014 468 009 310
32	1 1/4	L	1	F 00Y 118 330	4 014 468 009 327
33	1 5/16	L	1	F 00Y 142 593	4 014 468 022 975
35	1 3/8	L	1	F 00Y 118 331	4 014 468 009 334
37	1 7/16	L	1	F 00Y 142 594	4 014 468 022 982
38	1 1/2	L	1	F 00Y 118 332	4 014 468 009 341
40	1 9/16	L	1	F 00Y 118 333	4 014 468 009 358
41	1 5/8	L	1	F 00Y 118 334	4 014 468 009 365
43	1 11/16	L	1	F 00Y 142 595	4 014 468 023 002
44	1 3/4	L	1	F 00Y 118 335	4 014 468 009 372
46	1 13/16	L	1	F 00Y 118 336	4 014 468 009 389
48	1 7/8	L	1	F 00Y 118 354	4 014 468 009 396
51	2	L	1	F 00Y 118 337	4 014 468 009 402
52	2 1/16	L	1	F 00Y 142 596	4 014 468 023 019
54	2 1/8	L	1	F 00Y 118 338	4 014 468 009 419
56	2 3/16	L	1	F 00Y 212 256	4 014 468 046 384
57	2 1/4	L	1	F 00Y 118 339	4 014 468 009 426
59	2 5/16	L	1	F 00Y 212 253	4 014 468 046 377
60	2 3/8	L	1	F 00Y 118 340	4 014 468 009 433
64	2 1/2	L	1	F 00Y 118 341	4 014 468 009 440
65	2 9/16	L	1	F 00Y 118 002	4 014 468 009 457
67	2 5/8	L	1	F 00Y 118 342	4 014 468 009 464
68	2 11/16	L	1	F 00Y 118 920	4 014 468 009 471
70	2 3/4	L	1	F 00Y 118 343	4 014 468 009 488
73	2 7/8	L	1	F 00Y 142 597	4 014 468 023 026
76	3	L	1	F 00Y 118 344	4 014 468 009 495
79	3 1/8	L	1	F 00Y 138 226	4 014 468 009 501
83	3 1/4	L	1	F 00Y 118 356	4 014 468 009 518
86	3 3/8	L	1	F 00Y 142 598	4 014 468 023 033
89	3 1/2	L	1	F 00Y 118 345	4 014 468 009 525
92	3 5/8	L	1	F 00Y 138 228	4 014 468 009 532
95	3 3/4	L	1	F 00Y 138 229	4 014 468 009 549
98	3 7/8	L	1	F 00Y 142 599	4 014 468 023 040
102	4	L	1	F 00Y 118 346	4 014 468 009 556
105	4 1/8	L	1	F 00Y 138 230	4 014 468 009 563
111	4 3/8	L	1	F 00Y 118 003	4 014 468 009 570
114	4 1/2	L	1	F 00Y 138 231	4 014 468 009 587
121	4 3/4	L	1	F 00Y 138 232	4 014 468 009 594
127	5	L	1	F 00Y 118 004	4 014 468 009 600
140	5 1/2	L	1	F 00Y 118 005	4 014 468 009 617
152	6	L	1	F 00Y 142 600	4 014 468 023 057





Sets – Holesaws HSS bi-metal

Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------



8-piece plumber set, including 2 shanks, centrifugal spring

19	T	8	F 00Y 130 072	4 014 468 009 686
25				
32				
38				
51				



9-piece electrician set, including 2 shanks, centrifugal spring

19	T	9	F 00Y 130 070	4 014 468 009 679
22				
35				
68				
70				
76				



9-piece standard set, including 2 shanks, centrifugal spring

19	T	9	F 00Y 118 352	4 014 468 009 662
25				
38				
48				
68				
83				

Accessories – Holesaws HSS bi-metal

Mount for machine side	Overall length mm	Packaging type	Pack quantity	Part number	EAN code
------------------------	-------------------	----------------	---------------	-------------	----------



Centrifugal spring; causes the material to be ejected after the cut

-	-	L	1	F 00Y 118 351	4 014 468 009 655
---	---	---	---	---------------	-------------------



HSS pilot drill bit for shank AS 2; length = 102 mm, diameter = 6.35 mm; 135° drill bit tip with split point manufactured to DIN 1412 C; to be fixed on the shank with a locking screw



-	102	L	1	F 00Y 118 349	4 014 468 009 648
---	-----	---	---	---------------	-------------------

HSS pilot drill bit for shank AS 1, AS 3 and AS 4; length = 81 mm, diameter = 6.35 mm; 135° drill bit tip with split point manufactured to DIN 1412 C; to be fixed on the shank with a locking screw



-	81	L	1	F 00Y 202 315	4 014 468 039 591
---	----	---	---	---------------	-------------------

AS 1: hex shank WAF 7.95 mm, with pilot drill bit; for holesaw diameter of 14 - 30 mm



Hexagon WAF 7.95	-	L	1	F 00Y 118 347	4 014 468 009 624
---------------------	---	---	---	---------------	-------------------

AS 2: hex shank WAF 11 mm with pilot drill bit; for holesaw diameter of 32 - 152 mm



Hexagon WAF 11	-	L	1	F 00Y 118 348	4 014 468 009 631
-------------------	---	---	---	---------------	-------------------

AS 3: SDS-plus shank with pilot drill bit; for holesaw diameter of 14 - 30 mm



SDS-plus	-	L	1	F 00Y 145 050	4 014 468 031 083
----------	---	---	---	---------------	-------------------

AS 4: SDS-plus shank with pilot drill bit; for holesaw diameter of 32 - 152 mm



SDS-plus	-	L	1	F 00Y 145 051	4 014 468 031 090
----------	---	---	---	---------------	-------------------



Accessories – Holesaws HSS bi-metal

Mount for machine side	Overall length mm	Packaging type	Pack quantity	Part number	EAN code
------------------------	-------------------	----------------	---------------	-------------	----------

Extension with hex shank WAF 7.95 mm for AS 1; length = 300 mm

	Hexagon WAF 7.95	300	F	1 F 00Y 141 292	4 014 468 021 718
---	---------------------	-----	---	-----------------	-------------------

Extension with hex shank WAF 11 mm for AS 2; length = 300 mm

	Hexagon WAF 11	300	F	1 F 00Y 141 293	4 014 468 021 725
---	-------------------	-----	---	-----------------	-------------------



6-piece adapter set for HSS bi-metal holesaw on Power-Change adapter

-	-	F	6 F 00Y 227 688	4 014 468 066 924
---	---	---	-----------------	-------------------



Hawera holesaw with hole edge countersink

Holesaw with hole edge countersink

Recommended for working on:

Chipboard, wood core plywood, plastic plates, plasterboard and beams

User instructions:

Up to a cutting depth of 32 mm, VDE-approved openings with edge countersinking can be produced in a single operation - giving you even surfaces when mounting cavity wall boxes; larger drilling depths are achieved by breaking out the drill core and resinking with the holesaw without the edge countersink

HSS quality; hardened edge countersink



Diameter mm	Packaging type	Pack quantity	Part number	EAN code
68	E	1	F 00Y 124 621	4 014 468 009 693





Hawera hole cutters

Hole cutters

Recommended for working on:

Wood, plasterboard and plastics
High-quality backing flange

Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------

3-piece hole cutter set; maximum cutting depth 31 mm; hex shank WAF 8 mm;
saw teeth hardened

60	H	3	F 00Y 120 150	4 014 468 009 709
67				
74				



6-piece hole cutter set; maximum cutting depth 25 mm

32	H	6	F 00Y 120 151	4 014 468 009 716
38				
44				
51				
57				
64				



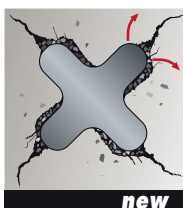
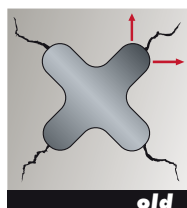
Chiselling

Hawera SDS-max chisels:

Quantum leap

RTecSPEED SDS-max:

Pointed chisel with power spin action



The exceptional chisel:

The innovative power spin action of the fast, star-shaped Hawera RTec pointed chisel breaks up the concrete dynamically.

> Constantly high material removal rate, no jamming

1. Fast + productive

Attractive win-win situation: fast thanks to long, star-shaped cutting edge. Particularly productive thanks to power spin action.

> Unique on the world market



2. Powerful

The patented RTec reflection element converts recoil force into impact force.

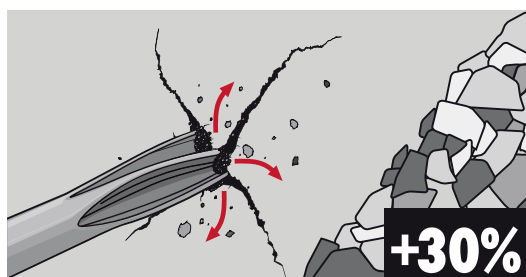
> 30% higher material removal rate



3. Durable

The star-shaped cutting edge with power spin action is self-sharpening and provides a constantly high material removal rate.

> Fully productive for 100 hours



RTecSHARP SDS-max:

Flat chisel with power ribs



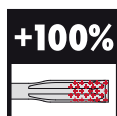
> Flat design + power ribs:

The extra-flat design of the chisel's cutting edge provides **speed**, while the ribbed profile provides stability and the **high blast effect** of the RTec Sharp.



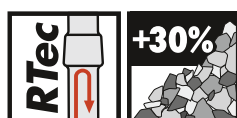
> Self-sharpener:

The special geometry and the length (+100%) of the self-sharpening cutting edge enable the **constantly high material removal rate** and the **double lifetime**.



> RTec power amplifier:

The Hawera RTec flat chisel also has the tried-and-tested, patented RTec reflection element, which converts recoil force into impact force and therefore increases the **material removal rate by 30%**.

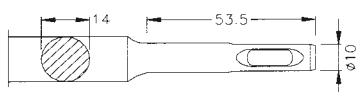


Hawera chisels:**With SDS-plus shank****Suitable for:**

Light rotary and demolition hammers
< 5 kg

Application:

For renovation and restoration

SDS-plus shank for light rotary and demolition hammers

Overall length mm	Chisel cutting edge mm	Packaging type	Pack quantity	Part number	EAN code
-------------------	------------------------	----------------	---------------	-------------	----------

Pointed chisel Long life

30% longer lifetime and 15% more material removal, self-sharpening



250	-	A1	1	F 00Y 227 535	4 014 468 066 313
-----	---	----	---	---------------	-------------------

Flat chisel Long life

30% longer lifetime and 15% more material removal, self-sharpening



250	20	A1	1	F 00Y 227 536	4 014 468 066 320
-----	----	----	---	---------------	-------------------

Spade chisel Long life

Self-sharpening, 30% more material removal, 100% longer lifetime



250	40	A1	1	F 00Y 265 026	3 165 140 426 121
250	60	A1	1	F 00Y 265 027	3 165 140 426 138

Tile chisel

Angled and self-sharpening, 30% more material removal



260	40	A1	1	F 00Y 225 094	4 014 468 064 555
-----	----	----	---	---------------	-------------------

Mortar raking chisel

For removing mortar between bricks



200	6.5	A1	1	F 00Y 266 258	3 165 140 790 543
200	9.5	A1	1	F 00Y 266 259	3 165 140 790 550

SDS-plus shank

Overall length mm	Chisel cutting edge mm	Packaging type	Pack quantity	Part number	EAN code
-------------------	------------------------	----------------	---------------	-------------	----------

Pointed chisel



140	-	A2	1	F 00Y 265 764	3 165 140 621 175
250	-	L	20	F 00Y 222 531	4 014 468 063 954

Flat chisel



140	20	A1	1	F 00Y 265 765	3 165 140 621 182
250	20	L	20	F 00Y 222 530	4 014 468 063 947

Spade chisel



140	40	A1	1	F 00Y 265 766	3 165 140 621 199
250	40	V	10	F 00Y 227 242	4 014 468 066 245

Hollow gouging chisel



140	22	A1	1	F 00Y 137 053	4 014 468 006 647
-----	----	----	---	---------------	-------------------

Winged gouging chisel, gouging chisel



250	22	A1	1	F 00Y 145 288	4 014 468 032 875
-----	----	----	---	---------------	-------------------

3-piece chisel set SDS-plus Standard

1 pointed chisel, 1 flat chisel, 1 spade chisel

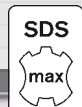
140	-	A1	3	F 00Y 265 767	3 165 140 621 205
-----	---	----	---	---------------	-------------------

4-piece chisel set SDS-plus Long life

1 pointed chisel Long life, 2 flat chisels Long life, 1 spade chisel Standard

250	-	D	4	F 00Y 227 977	4 014 468 067 211
-----	---	---	---	---------------	-------------------

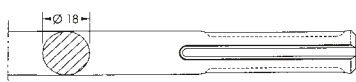


Hawera chisels:**With SDS-max shank****Suitable for:**

Heavy rotary and demolition hammers
5 - 12 kg

Application:

For renovation, restoration, breakthroughs,
mortising and demolition work

SDS-max shank for heavy rotary and demolition hammers

Overall length mm	Chisel cutting edge mm	Packaging type	Pack quantity	Part number	EAN code
-------------------	------------------------	----------------	---------------	-------------	----------

Pointed chisel RTec Speed

Self-sharpening, work for 100 hours without re-sharpening



400	-	A1	1	F 00Y 265 311	3 165 140 533 645
400	-	L	20	F 00Y 265 312	3 165 140 533 652

Flat chisel RTec Sharp

Self-sharpening, work 100% longer than with a standard flat chisel without re-sharpening



400	25	A1	1	F 00Y 265 140	3 165 140 460 392
400	25	L	20	F 00Y 265 276	3 165 140 530 217

Spade chisel

Self-sharpening, 30% more material removal, 100% longer lifetime



350	50	A1	1	F 00Y 229 084	4 014 468 068 003
400	80	A1	1	F 00Y 265 846	3 165 140 670 371
400	115	A1	1	F 00Y 265 847	3 165 140 670 388

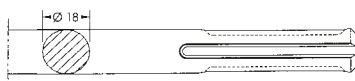
Pointed chisel

280	-	A1	1	F 00Y 139 728	4 014 468 019 289
400	-	L	20	F 00Y 219 375	4 014 468 053 788
600	-	A1	1	F 00Y 139 730	4 014 468 019 302

Flat chisel

280	25	A1	1	F 00Y 139 731	4 014 468 019 319
400	25	L	20	F 00Y 219 374	4 014 468 053 771
600	25	A1	1	F 00Y 139 733	4 014 468 019 333

SDS-max shank



Tile chisel

Self-sharpening, 30% more material removal



300	50	A1	1	F 00Y 229 085	4 014 468 068 010
-----	----	----	---	---------------	-------------------

Spade chisel



300	80	A1	1	F 00Y 139 736	4 014 468 019 371
300	80	V	10	F 00Y 227 240	4 014 468 066 221
400	50	V	10	F 00Y 227 239	4 014 468 066 214



350	115	A1	1	F 00Y 139 737	4 014 468 019 388
350	115	V	5	F 00Y 227 241	4 014 468 066 238

Gouging chisel



300	32	A1	1	F 00Y 139 738	4 014 468 019 357
-----	----	----	---	---------------	-------------------

Hollow gouging chisel



300	26	A1	1	F 00Y 139 734	4 014 468 019 340
-----	----	----	---	---------------	-------------------



Winged gouging chisel

380	35	A1	1	F 00Y 142 756	4 014 468 023 439
-----	----	----	---	---------------	-------------------



Pointing chisel with tungsten carbide teeth

300	32	A1	1	F 00Y 142 757	4 014 468 023 446
-----	----	----	---	---------------	-------------------

4-piece chisel set SDS-max

1 pointed chisel RTec, 2 flat chisels RTec, 1 spade chisel



400	D	E	4	F 00Y 228 054	4 014 468 067 228
-----	---	---	---	---------------	-------------------

4-piece chisel set SDS-max, self-sharpening

2 pointed chisels RTec Speed, 2 flat chisels RTec Sharp

400	-	D	4	F 00Y 266 417	3165140846929
-----	---	---	---	---------------	---------------



Hawera chisels:

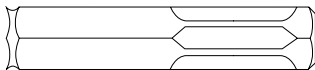
With hex shank



Suitable for:
Heavy rotary and demolition hammers

Application:
For renovation, restoration, breakthroughs, mortising and demolition work

Hex shank Hex 22 to fit TE-S system



Overall length mm	Chisel cutting edge mm	Packaging type	Pack quantity	Part number	EAN code
-------------------	------------------------	----------------	---------------	-------------	----------



Pointed chisel

400	S	1	F 00Y 265 836	3 165 140 670 272
-----	---	---	---------------	-------------------



Flat chisel

400	25	S	1	F 00Y 265 838	3 165 140 670 296
-----	----	---	---	---------------	-------------------

Hawera chisels:

With hex shank

Suitable for:

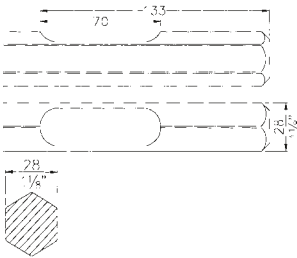
Heavy demolition hammers >12 kg

Application:

For breakthroughs, mortising and demolition work



Hex shank WAF 28



Overall length mm	Chisel cutting edge mm	Packaging type	Pack quantity	Part number	EAN code
-------------------	------------------------	----------------	---------------	-------------	----------

Pointed chisel

Self-sharpening

400	-	S	1	F 00Y 265 030	3 165 140 426 169
-----	---	---	---	---------------	-------------------

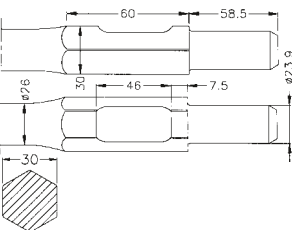
Pointed chisel

500	-	S	1	F 00Y 220 102	4 014 468 054 846
-----	---	---	---	---------------	-------------------

Flat chisel

500	36	S	1	F 00Y 220 104	4 014 468 054 860
-----	----	---	---	---------------	-------------------

Hex shank WAF 30



Overall length mm	Chisel cutting edge mm	Packaging type	Pack quantity	Part number	EAN code
-------------------	------------------------	----------------	---------------	-------------	----------

Pointed chisel

Self-sharpening

400	-	S	1	F 00Y 265 032	3 165 140 426 183
-----	---	---	---	---------------	-------------------

Flat chisel

410	35	S	1	F 00Y 220 122	4 014 468 055 041
-----	----	---	---	---------------	-------------------



**Diamond cutting
and drilling**

Hawera diamond cutting discs:

Reliably fast

Speed in combination with long lifetime and good cut quality. The new generation of Hawera diamond cutting discs is able to give you this multiple benefit because of three attractive optimisations to the diamond segments:



Diamond technology: The quality basis

The key to high speed and long life is in the right mix of small and large diamonds on the cutting segments. In addition to this, there is the constant self-sharpening of the diamond cutting edges, based on the use of optimised diamonds.



**HIGH
SPEED**



**Long
life**



Speed Stripes segments: Up to 40% faster

The slots in the cutting segments are key to the high working speed and the turbo effect: they reduce the side friction and ensure better dust removal.



**HIGH
SPEED**



High cutting segments: Last longer

The longer lifetime of the Hawera diamond cutting discs is the result of the significantly higher – and therefore longer lasting – diamond cutting segments.



**Long
life**

From ceramics to asphalt.

In focus: Universal

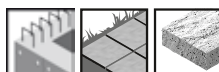
Hawera offers a professional range that is tailored to the construction site. With an application range from extra-hard tiles, to stone and concrete, through to abrasive asphalt.

The **colour coding** on the product and packaging enables fast selection of the suitable diamond product:



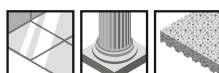
UNIVERSAL

Concrete, reinforced concrete, natural stone, granite, roofing tiles, clinker, limestone, exposed concrete, mortar, gypsum, metal



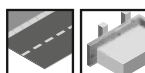
CONCRETE + STONE

Concrete, reinforced concrete, paving slabs, granite, clinker, natural stone, limestone, stoneware, exposed concrete



CERAMIC

Tiles, ceramic tiles, marble, stoneware, fine stoneware



ASPHALT

Asphalt, asphalt over concrete, fresh concrete

Suitable for all relevant machine types:



Angle grinder



Petrol saw



Table saw



Joint cutter

Depending on performance requirement:

Super or Standard

Differentiation in two performance categories

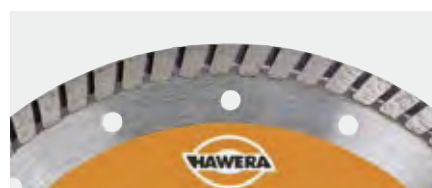
Super



Top-class diamond cutting discs for the highest requirements.

With laser-welded Speed Stripes segments. With especially high diamond segments.

Standard



Diamond cutting discs with good performance at an attractive price.

Market-compliant, high Hawera quality standard. Diamond segments are sintered.



A range of great offers

Hawera Super: Top class for the highest requirements



SUPER UNIVERSAL

Ideal for fast cutting in alternating use: concrete, reinforced concrete, masonry, granite, brick, metal.
High, long-life diamond cutting segments with Speed Stripes, laser-welded.



SUPER UNIVERSAL TURBO

Excellent cutting performance in all building materials.
Especially suitable for clean cut edges without material breakout.
Universal use. High, sintered cutting rim for long use.



SUPER CONCRETE+STONE

Extra-fast cutting in concrete and stone: reinforced concrete, cured concrete, natural stone, granite.
High, long-life diamond cutting segments with Speed Stripes, laser-welded.



SUPER CERAMIC

For the highest demands with regard to chip-free cuts in ceramic tiles, stoneware and marble.
Thin, sintered cutting rim for high speed.



SUPER ASPHALT

Lead product for asphalt, asphalt over concrete and fresh concrete.
For long-lasting efficiency.



Hawera Standard: Good performance, attractive price



UNIVERSAL

Suitable for general building materials such as masonry, concrete, brick.
Sintered diamond cutting segments.



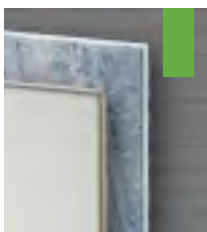
UNIVERSAL TURBO

Low-cost, clean cut in the common building materials: masonry, concrete, brick.
Sintered cutting rim.



CONCRETE+STONE

Especially for hard materials: granite, natural stone, all types of concrete, including reinforced concrete.
Sintered diamond cutting segments.



CERAMIC

For clean cut edges in ceramic tiles.
Sintered cutting rim.



Application recommendation

Hawera diamond cutting discs

	SUPER					UNIVERSAL			
	SUPER UNIVERSAL					UNIVERSAL TURBO			
	SUPER CONCRETE+STONE					CONCRETE+STONE			
	SUPER CERAMIC					CERAMIC			
	SUPER ASPHALT					CERAMIC			
Application range									
Performance category	Super					Standard			
Asphalt, bitumen finish	○				●	○			
Basalt	○		○			○		○	
Concrete, old	●	●	●		○	●	○	●	
Concrete, reinforced*	●	●	●		○	●	○	○	
Concrete, fresh (abrasive)	●	●	○		●	●	○	●	
Pumice stones	○	○	●			●	●	●	
Paving slabs (artificial stones)	●	○	●			○	○	●	
Roofing tiles (fired clay)	○	●	●	○		○	●	○	○
Screed concrete	●	●	●	●		○	○	●	○
Fine stoneware, hard		○		●			○		●
Tiles		○		●					●
Aerated concrete	●	●	●	○		●	●	●	
Plaster, plasterboard	●	●	○	●		●	●	●	○
Glass-hard bricks	●	●	○				○		
Granite	○	○	●	○		○		●	●
Gypsum	●	●	○			○	●	○	
Limestone, hard	○	●	●			○	○	●	
Limestone, soft	●	●	○			●	●	○	
Ceramic tiles, glazed				●					●
Clinker, hard		○	●	○		●	●	○	○
Clinker, soft	○	●	○	○		○	○	●	○
Marble	●	○	○	●		○	○	○	●
Bricks	●	●	●			●	●	○	
Clay bricks, roofing tiles	●	●	●	○		●	●	○	
Metal	●								
Natural stones	●	○	●	●		○		○	○
Quarzite	○	○	●			○	○	●	
Sandstone	●	●				●	●	○	
Slate	○	○	●	○		○	○	○	
Stoneware		○	●	●				○	
Terrazzo	●	●	●			○	○		
Combination stones	○	○	●			○	○	○	
Exposed concrete	●	○	●		○	○	○	●	

● very suitable
○ suitable

*Only cut through rebar with the permission of the architect!



Asphalt



Concrete, reinforced



Fresh concrete



Limestone



Marble



Asphalt over concrete



Roofing tiles



Garden slabs



Ceramic tiles



Metal



Concrete



Fine stoneware



Granite



Clinker



Brick



for angle grinders

Super

Standard



for table and petrol saws

Super

Standard



for joint cutters

Super

Standard

Ceramics

SUPER CERAMIC

115-125 mm
diameter

CERAMIC

115-125 mm
diameter

Stone and concrete

SUPER CONCRETE+STONE

115-230 mm
diameter

CONCRETE+STONE

115-230 mm
diameter

Universal

SUPER UNIVERSAL

115-230 mm
diameter

UNIVERSAL

115-230 mm
diameter

SUPER UNIVERSAL

300-350 mm
diameter

UNIVERSAL

300-350 mm
diameter

SUPER UNIVERSAL

300-350 mm
diameter

UNIVERSAL

300-350 mm
diameter

UNIVERSAL TURBO

115-230 mm
diameter

SUPER UNIVERSAL TURBO

230 mm
diameter

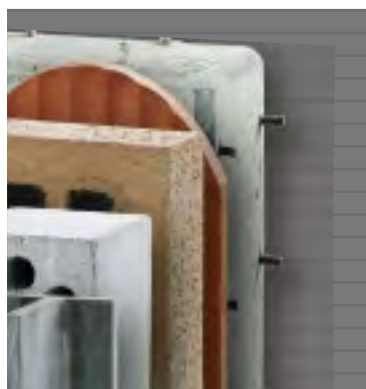
Asphalt

SUPER ASPHALT


350 mm diameter

SUPER ASPHALT


350 mm diameter



Hawera diamond cutting discs:

SUPER UNIVERSAL

Ideal for fast cutting in alternating use



Diamond cutting discs SuperUniversal



Recommended for working on:

Iron, steel profiles, cast iron, concrete with rebar, concrete, masonry, bricks, clinker, limestone

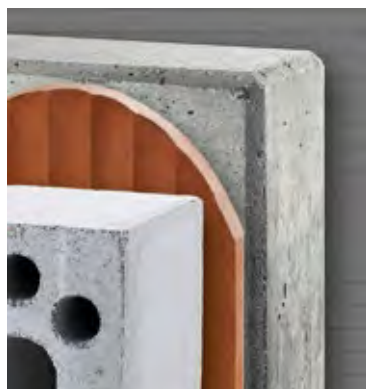
User instructions:

For professional use

- > Excellent cutting speed thanks to the Speed Stripes that reduce side friction
- > Up to 15 mm segment height for a long lifetime, even in demanding materials
- > Laser-welded diamond cutting segments
- > *With reduction ring

Diameter mm	Bore diameter mm	Cutting width mm	Segment height mm	Packaging type	Pack quantity	Part number	EAN code
115	22.23	2.2	12	I	1	F 00Y 265 781	3 165 140 634 373
125	22.23	2.2	12	I	1	F 00Y 265 782	3 165 140 634 380
150	22.23	2.4	12	I	1	F 00Y 265 783	3 165 140 634 397
180	22.23	2.4	12	I	1	F 00Y 265 784	3 165 140 634 403
230	22.23	2.4	15	I	1	F 00Y 265 785	3 165 140 634 410
300	20/25.40*	2.8	15	M	1	F 00Y 265 786	3 165 140 634 427
350	20/25.40*	3.2	15	M	1	F 00Y 265 787	3 165 140 634 434





Hawera diamond cutting discs:

UNIVERSAL

For universal use in all building materials

Diamond cutting discs Universal



Recommended for working on:

Concrete, bricks, limestone, poroton, clinker, pumice, plaster and clay bricks

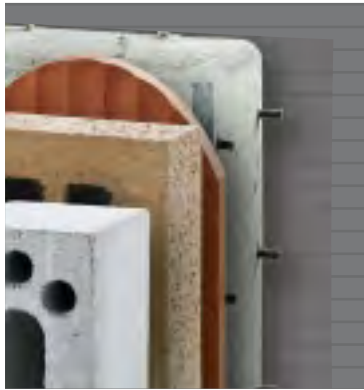
User instructions:

For professional use

- > The low-cost diamond cutting disc that is a problem solver in all building materials
- > Sintered diamond cutting segments
- > *With reduction ring

Diameter mm	Bore diameter mm	Cutting width mm	Segment height mm	Packaging type	Pack quantity	Part number	EAN code
115	22.23	1.6	10	I	1	F 00Y 265 788	3 165 140 634 441
125	22.23	1.6	10	I	1	F 00Y 265 789	3 165 140 634 458
150	22.23	2.0	10	I	1	F 00Y 265 790	3 165 140 634 465
180	22.23	2.0	10	I	1	F 00Y 265 791	3 165 140 634 472
230	22.23	2.3	10	I	1	F 00Y 265 792	3 165 140 634 489
300	20/25.40*	3.1	10	M	1	F 00Y 265 793	3 165 140 634 496
350	20/25.40*	3.1	10	M	1	F 00Y 265 794	3 165 140 634 502





Hawera diamond cutting discs:

SUPER UNIVERSAL TURBO

Excellent cutting performance in all building materials

HIGH
SPEED

clean
CUT

Diamond cutting discs SuperUniversalTurbo



Recommended for working on:

Concrete, granite, marble, masonry, bricks, clinker and limestone

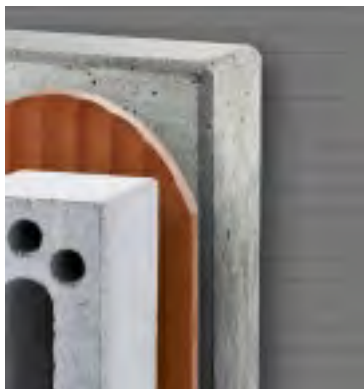
User instructions:

For professional use

- > Excellent cutting performance in all building materials, particularly suitable for clean cut edges without material breakout thanks to continuous cutting rim
- > Our best Turbo diamond cutting disc
- > Sintered cutting rim



Diameter mm	Bore diameter mm	Cutting width mm	Segment height mm	Packaging type	Pack quantity	Part number	EAN code
230	22.23	2.5	15	I	1	F 00Y 265 799	3 165 140 634 557



Hawera diamond cutting discs:

UNIVERSAL TURBO

Low-cost, clean cut in the common building materials

Diamond cutting discs UniversalTurbo



Recommended for working on:

Bricks, concrete, granite, artificial stone, marble, ceramics and limestone

User instructions:

For professional use

- > The low-cost solution in all building materials with clean cut edges
- > Sintered cutting rim

Diameter mm	Bore diameter mm	Cutting width mm	Segment height mm	Packaging type	Pack quantity	Part number	EAN code
115	22.23	2.0	10	I	1	F 00Y 265 802	3 165 140 634 588
125	22.23	2.0	10	I	1	F 00Y 265 803	3 165 140 634 595
230	22.23	2.5	10	I	1	F 00Y 265 806	3 165 140 634 625





Hawera diamond cutting discs: **SUPER CONCRETE+STONE**

Extra-fast cut in concrete and stone



Diamond cutting discs SuperConcrete + Stone



Recommended for working on:

Concrete, concrete with rebar, concrete stones, exposed concrete, granite, natural stone, limestone, hard screed and combination stones

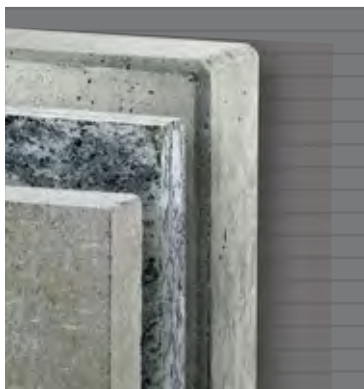
User instructions:

For professional use

- > Excellent cutting speed thanks to the Speed Stripes that reduce side friction
- > Up to 15 mm segment height for a long lifetime, even in demanding materials
- > Laser-welded diamond cutting segments



Diameter mm	Bore diameter mm	Cutting width mm	Segment height mm	Packaging type	Pack quantity	Part number	EAN code
115	22.23	2.2	12	I	1	F 00Y 265 773	3 165 140 634 298
125	22.23	2.2	12	I	1	F 00Y 265 774	3 165 140 634 304
230	22.23	2.4	15	I	1	F 00Y 265 776	3 165 140 634 328



Hawera diamond cutting discs:

CONCRETE+STONE

Especially for hard materials

Diamond cutting discs Concrete + Stone



Recommended for working on:

Concrete, concrete stones, exposed concrete, granite, natural stone, limestone, combination stones

User instructions:

For professional use

- > The low-cost diamond cutting disc that is a problem solver in hard materials
- > Sintered diamond cutting segments



Diameter mm	Bore diameter mm	Cutting width mm	Segment height mm	Packaging type	Pack quantity	Part number	EAN code
115	22.23	1.6	10	I	1	F 00Y 265 777	3 165 140 634 335
125	22.23	1.6	10	I	1	F 00Y 265 778	3 165 140 634 342
230	22.23	2.3	10	I	1	F 00Y 265 780	3 165 140 634 366





Hawera diamond cutting discs:

SUPER CERAMIC



For the highest demands with regard to chip-free cuts

Diamond cutting discs SuperCeramic



Recommended for working on:

Ceramic tiles, fine stoneware, stoneware, marble and natural stone

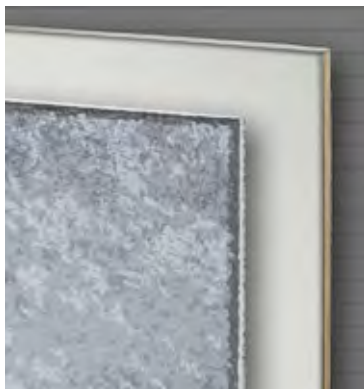
User instructions:

For professional use

- > The right disc for the highest demands on lifetime with 10 mm segment height
- > Good cut quality without broken edges, even in extra-hard fine stone slabs and marble
- > Sintered cutting rim

Diameter mm	Bore diameter mm	Cutting width mm	Segment height mm	Packaging type	Pack quantity	Part number	EAN code
115	22.23	1.8	10	I	1	F 00Y 265 809	3 165 140 634 656
125	22.23	1.8	10	I	1	F 00Y 265 810	3 165 140 634 663





Hawera diamond cutting discs:

CERAMIC

For clean cut edges

Diamond cutting discs Ceramic



Recommended for working on:

Ceramic tiles, fine stoneware and stoneware

User instructions:

For professional use

- > For clean cut edges in ceramic tiles. The low-cost solution for all-round use in tiles
- > Sintered cutting rim

Diameter mm	Bore diameter mm	Cutting width mm	Segment height mm	Packaging type	Pack quantity	Part number	EAN code
115	22.23	1.6	7.0	I	1	F 00Y 265 812	3 165 140 634 687
125	22.23	1.6	7.0	I	1	F 00Y 265 813	3 165 140 634 694





Hawera diamond cutting discs:

SUPER ASPHALT

The lead product for asphalt and asphalt over concrete

HIGH
SPEED

long
life

Diamond cutting discs SuperAsphalt



Recommended for working on:

Asphalt, asphalt over concrete and fresh concrete

User instructions:

For professional use

> Laser-welded diamond segments



Diameter mm	Bore diameter mm	Cutting width mm	Segment height mm	Packaging type	Pack quantity	Part number	EAN code
350	30/25.40	3.2	8.0	M	1	F 00Y 265 815	3 165 140 634 717

Efficient and precise



Dry drilling: Effortlessly efficient

Easier work process because you do not have to install and dismantle a cooling water system.
And there is no dirt caused by water.
Higher cutting speed and longer lifetime compared to wet drilling.



EASY CERAMICS diamond dry drill bit

For effortless drilling of holes for fixings in ceramics and fine stoneware.
6 – 14 mm diameter.
With drill or cordless screwdriver.



**Long
life**



Self-cooling:

Self-cooling: The coolant that protects the diamond drilling head against heat and wear is integrated directly in the drill bit.
Twice the lifetime of a diamond wet drill bit.



SPEED CERAMICS diamond dry drill bit

For a fast drilling rate in fine stoneware, ceramics and natural stone.
14 – 83 mm diameter.
With M14 fitting for angle grinders.



Ten times longer lifetime

SPEED CERAMICS

(Diamond wet drill bit)

10 times longer lifetime:

Vacuum-brazed diamonds.
35 mm drilling depth.
50% higher cutting speed than a diamond wet drill bit.

**fast
DRILL**
**Long
life**





Wet drilling: Precise for extra-hard jobs

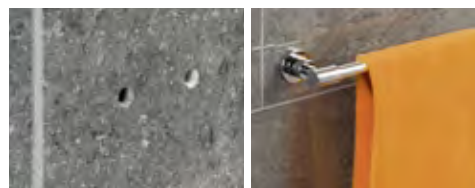
XH stands for efficient working in ceramics, primarily in fine stoneware.

For use wherever the risk of splintering and scratching expensive ceramics needs to be largely eliminated.



XH CERAMICS diamond drill bit

For precise, clean holes for fixings in hard ceramics. 5 – 14 mm diameter. Also available as a 4-piece set.



No splintering, no scratching:

Diamond drilling with centring aid and pressurised cooling water bottle.



XH CERAMICS diamond holesaw

For pipe feedthroughs. 19 – 83 mm diameter. With practical Power-Change adapter.



Complete set:

Holesaw, centring aid, pressurised cooling water bottle. Electroplated, narrow cutting segments provide rapid work progress. Ideal for heating and sanitary.

Range overview

Hawera diamond drill bits



Dry drilling



Wet drilling



1

Drill



2

Cordless screwdriver



3

Cordless drill



4

Angle grinder



Hawera diamond core cutters and core edge sinkers: **Universal use**



Dry drilling



Wet drilling

Diamond dry drill bits Easy Ceramics	Diamond dry drill bits Speed Ceramics	Dry core edge sinkers Super	Diamond drill bits XH Ceramics	Diamond holesaws XH Ceramics
				
Page 155	Page 156	Page 158	Page 159	Page 159

● very suitable

○ suitable

Tiles (ceramic)	●	●	●	●
Tiles (stoneware)	●	●	●	●
Tiles (fine stoneware)	●	●	●	●
Gypsum			●	
Gneiss, granite	●	●		●
Limestone, hard			●	
Limestone, soft			●	
Marble	●	●		●
Porous concrete			●	
Sandstone, hard			●	
Sandstone, medium			●	
Sandstone, soft			●	
Slag stone			●	
Slate	○	○		○
Clay stones/pipes			○	
Exposed concrete			○	
Cement stones/pipes			○	





Hawera diamond dry drill bits:

EASY CERAMICS

Efficient and effortless drilling – without the need for water

**long
life**



Vacuum-brazed diamonds

> Long lifetime thanks to self-cooling

Coolant reservoir

> No need for cooling water bottle and centring aid

Working length of 33 mm

> For drilling holes in all tile thicknesses

Diamond dry drill bits EasyCeramics



Diameter mm	Diameter inch	Packaging type	Pack quantity	Part number	EAN code
6	15/64	D	1	F 00Y 265 670	3 165 140 585 910
7	9/32	D	1	F 00Y 265 671	3 165 140 585 927
8	5/16	D	1	F 00Y 265 672	3 165 140 585 934
10	25/64	D	1	F 00Y 265 673	3 165 140 585 941
12	15/32	D	1	F 00Y 265 674	3 165 140 585 958
14	9/16	D	1	F 00Y 265 675	3 165 140 585 965

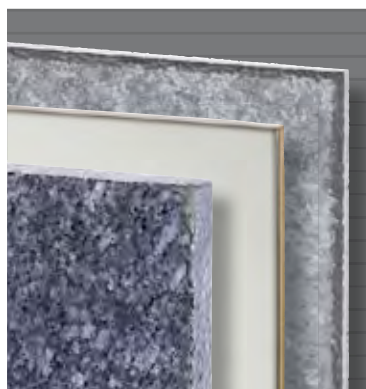
Set – Diamond dry drill bits EasyCeramics



Diameter mm	Working length	Packaging type	Pack quantity	Part number	EAN code
6, 8, 10	33	P	3	F 00Y 265 676	3 165 140 585 972

3-piece diamond dry drill bit set "EasyCeramics" in the PowerBox





Hawera diamond dry drill bits:

SPEED CERAMICS

Fast and effortless drilling in hard tiles –
without the need for water



Vacuum-brazed diamonds

> Very long lifetime + very high drilling speed

Working length of 35 mm

> For all tile and natural stone slab thicknesses

M14 – thread for angle grinders

> Ideal tool for a fast drilling rate

Diamond dry drill bits SpeedCeramics

Diameter mm	Diameter inch	Packaging type	Pack quantity	Part number	EAN code
14	9/16	D	1	F 00Y 265 644	3 165 140 585 651
16	5/8	D	1	F 00Y 265 645	3 165 140 585 668
20	25/32	D	1	F 00Y 265 646	3 165 140 585 675
22	7/8	D	1	F 00Y 265 647	3 165 140 585 682
25	1	D	1	F 00Y 265 648	3 165 140 585 699
27	1 1/16	D	1	F 00Y 265 649	3 165 140 585 705
30	1 3/16	D	1	F 00Y 265 650	3 165 140 585 712
32	1 1/4	D	1	F 00Y 265 651	3 165 140 585 729
35	1 3/8	D	1	F 00Y 265 652	3 165 140 585 736
38	1 1/2	D	1	F 00Y 265 653	3 165 140 585 743
40	1 9/16	D	1	F 00Y 265 654	3 165 140 585 750
45	1 49/64	D	1	F 00Y 265 655	3 165 140 585 767
51	2	D	1	F 00Y 265 656	3 165 140 585 774
55	2 11/64	D	1	F 00Y 265 657	3 165 140 585 781
57	2 1/4	D	1	F 00Y 265 658	3 165 140 585 798
60	2 3/8	D	1	F 00Y 265 659	3 165 140 585 804
65	2 9/16	D	1	F 00Y 265 660	3 165 140 585 811
67	2 5/8	D	1	F 00Y 265 661	3 165 140 585 828
68	2 11/16	D	1	F 00Y 265 662	3 165 140 585 835
70	2 3/4	D	1	F 00Y 265 663	3 165 140 585 842
75	2 61/64	D	1	F 00Y 265 664	3 165 140 585 859
80	3 5/32	D	1	F 00Y 265 665	3 165 140 585 866
83	3 1/4	D	1	F 00Y 265 666	3 165 140 585 873



Set – Diamond dry drill bits SpeedCeramics

Diameter mm	Working length	Packaging type	Pack quantity	Part number	EAN code
-------------	----------------	----------------	---------------	-------------	----------

3-piece diamond dry drill bit set "SpeedCeramics";
Including 19-mm spanner

14, 25, 35	30, 35	T	3	F 00Y 265 667	3 165 140 585 880
------------	--------	---	---	---------------	-------------------



4-piece diamond dry drill bit set "SpeedCeramics";
Including 19-mm spanner

25, 35, 45, 51	35	T	1	F 00Y 265 668	3 165 140 585 897
----------------	----	---	---	---------------	-------------------





Hawera diamond core edge sinkers:

Dry core edge sinkers **SUPER**

Ideal for drilling in limestone, masonry and brick

Diamond dry core edge sinkers Super, for hard materials, laser-welded



Diameter mm	Working length mm	Number of segments	Segment height mm	Mount for machine side	Packaging type	Pack quantity	Part number	EAN code
68	60	4	7.0	M16	E	1 F 00Y 137 078	4 014 468 013 287	
82	60	4	7.0	M16	E	1 F 00Y 137 079	4 014 468 013 294	

Accessories – Diamond core edge sinkers



Shanks without pilot drill bit

Mount for machine side	Diameter mm	Overall length mm	Mount for core side	Packaging type	Pack quantity	Part number	EAN code
Hexagon WAF 11	-	78	M16	L	1 F 00Y 142 455	4 014 468 023 224	
SDS-plus	-	105	M16	L	1 F 00Y 142 459	4 014 468 023 262	

Tungsten carbide pilot drill bit with diameter of 8 mm for shank



Mount for machine side	Diameter mm	Overall length mm	Mount for core side	Packaging type	Pack quantity	Part number	EAN code
-	8	120	-	C	1 F 00Y 142 463	4 014 468 023 309	



Hawera diamond wet drill bits and holesaws:

XH CERAMICS

Precise drilling in hard tiles



Diamond wet drill bits XH Ceramics

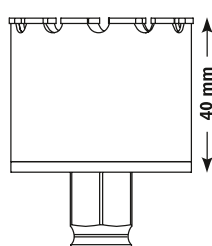


Diameter mm	Working length mm	Overall length mm	Packaging type	Pack quantity	Part number	EAN code
5	30	65	D	1	F 00Y 265 221	3 165 140 495 837
6	35	65	D	1	F 00Y 265 222	3 165 140 495 844
7	35	65	D	1	F 00Y 265 223	3 165 140 495 851
8	35	65	D	1	F 00Y 265 224	3 165 140 495 868
10	35	65	D	1	F 00Y 265 225	3 165 140 495 875
12	35	65	D	1	F 00Y 265 226	3 165 140 495 882
14	35	65	D	1	F 00Y 265 227	3 165 140 495 899



Diamond holesaws XH Ceramics

Diameter mm	Diameter inch	Working length mm	Packaging type	Pack quantity	Part number	EAN code
-------------	---------------	-------------------	----------------	---------------	-------------	----------



Diamond holesaw with Power-Change adapter

19	3/4	40	G	1	F 00Y 265 172	3 165 140 489 263
20	25/32	40	G	1	F 00Y 265 173	3 165 140 489 270
22	7/8	40	G	1	F 00Y 265 174	3 165 140 489 287
25	1	40	G	1	F 00Y 265 175	3 165 140 489 294
29	1 1/8	40	G	1	F 00Y 265 176	3 165 140 489 300
32	1 1/4	40	G	1	F 00Y 265 177	3 165 140 489 317
35	1 3/8	40	G	1	F 00Y 265 178	3 165 140 489 324
38	1 1/2	40	G	1	F 00Y 265 179	3 165 140 489 331
41	1 5/8	40	G	1	F 00Y 265 244	3 165 140 515 177
44	1 3/4	40	G	1	F 00Y 265 180	3 165 140 489 348
51	2	40	G	1	F 00Y 265 181	3 165 140 489 355
54	2 1/8	40	G	1	F 00Y 265 182	3 165 140 489 362
57	2 1/4	40	G	1	F 00Y 265 183	3 165 140 489 379
60	2 3/8	40	G	1	F 00Y 265 184	3 165 140 489 386
64	2 1/2	40	G	1	F 00Y 265 185	3 165 140 489 393
65	2 9/16	40	G	1	F 00Y 265 186	3 165 140 489 409
67	2 5/8	40	G	1	F 00Y 265 187	3 165 140 489 416

Diamond holesaws XH Ceramics

Diameter mm	Diameter inch	Working length mm	Packaging type	Pack quantity	Part number	EAN code
-------------	---------------	-------------------	----------------	---------------	-------------	----------

Diamond holesaw with Power-Change adapter

68	2 11/16	40	G	1	F 00Y 265 188	3 165 140 489 423
70	2 3/4	40	G	1	F 00Y 265 189	3 165 140 489 430
76	3	40	G	1	F 00Y 265 190	3 165 140 489 447
79	3 1/8	40	G	1	F 00Y 265 191	3 165 140 489 454
83	3 1/4	40	G	1	F 00Y 265 192	3 165 140 489 461

Accessories – Diamond wet drill bits and holesaws XH Ceramics

Mount for machine side	Overall length mm	Packaging type	Pack quantity	Part number	EAN code
------------------------	-------------------	----------------	---------------	-------------	----------



Power-Change adapter with 8 mm hex shank.
For holesaw diameter of 14 - 152 mm. Without pilot drill bit.

Hexagon WAF 8 mm	82	G	1	F 00Y 265 246	3 165 140 519 878
------------------	----	---	---	---------------	-------------------



Power-Change adapter with SDS-plus shank.
For holesaw diameter of 14 - 152 mm. Without pilot drill bit.

SDS-plus	98	G	1	F 00Y 265 247	3 165 140 519 885
----------	----	---	---	---------------	-------------------



Power-Change adapter Heavy Duty with 11 mm hex shank.
For holesaw diameter of 14 - 152 mm. Without pilot drill bit.

Hexagon WAF 11 mm	80	G	1	F 00Y 265 248	3 165 140 520 188
-------------------	----	---	---	---------------	-------------------



Spring-mounted centring pin with tungsten carbide tip
for starting to drill in hard materials

1/4" hex shank	-	G	1	F 00Y 265 617	3 165 140 575 539
----------------	---	---	---	---------------	-------------------

Accessories – Diamond drill bits and holesaws XH Ceramics



Centring aid for diamond holesaws

Packaging type	Pack quantity	Part number	EAN code
M	1	F 00Y 265 198	3 165 140 489 669



Centring aid for diamond drill bits

Packaging type	Pack quantity	Part number	EAN code
G	1	F 00Y 265 230	3 165 140 495 929



Water bottle for diamond holesaws and drill bits

Packaging type	Pack quantity	Part number	EAN code
M	1	F 00Y 265 231	3 165 140 495 936



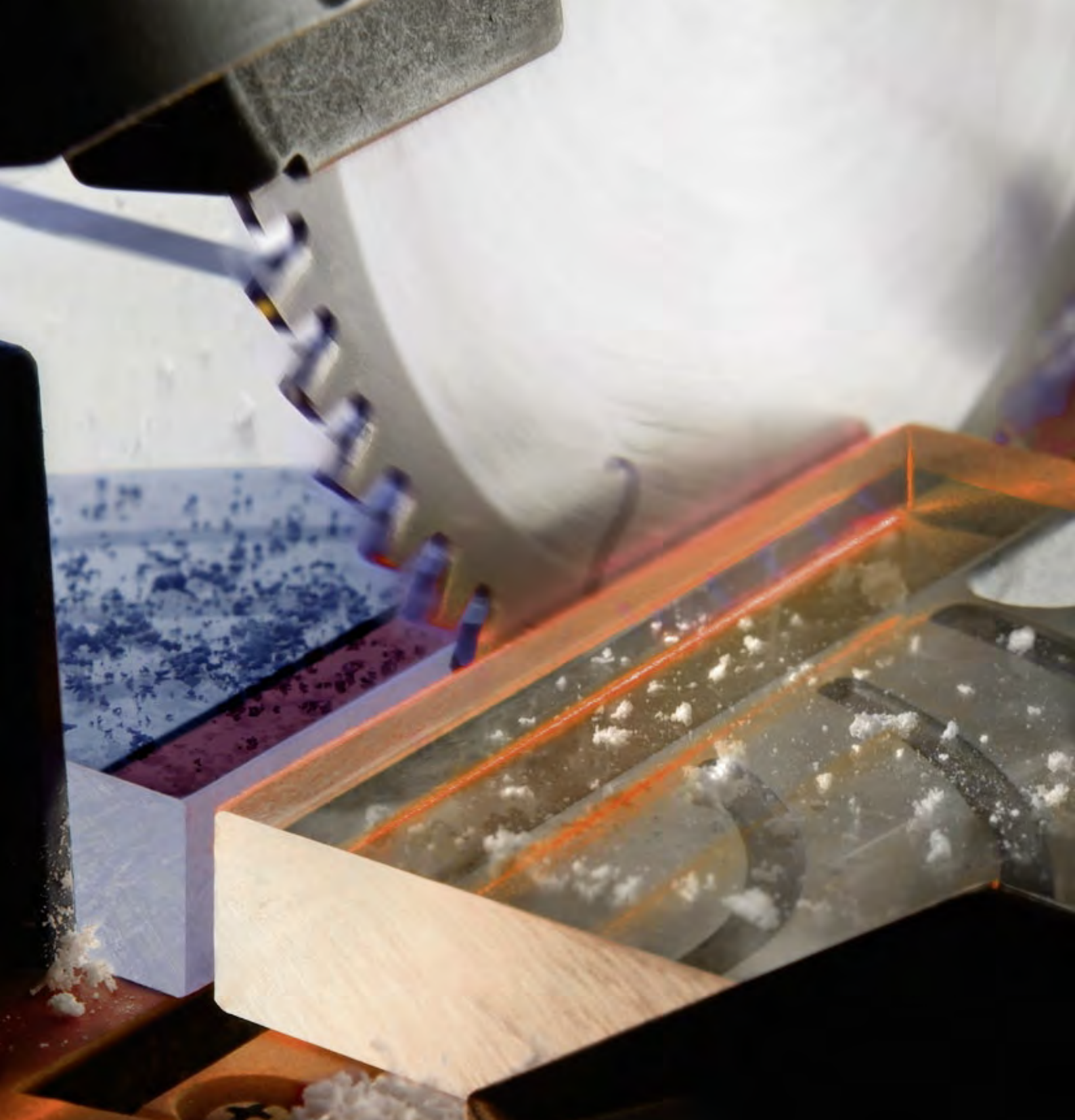
Diamond wet drill bits XH Ceramics



4-piece diamond wet drill bit set "XH Ceramics" in the PowerBox

Set contents diameter mm	Working length(s) mm	Overall length(s) mm	Packaging type	Pack quantity	Part number	EAN code
6.0	35	65	P	4	F 00Y 265 228	3 165 140 495 905
8.0						
10.0						
14.0						





Circular sawing

Hawera circular sawing: **A perfect fit**

Just **5 groups of circular saw blades** completely cover the wide range of applications on the **construction site and in interior fitting work**.

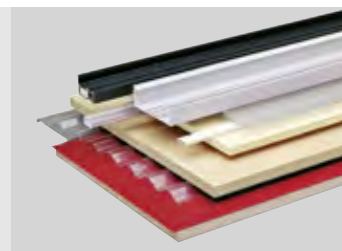
Metal and multi-purpose circular saw blades:



STEELCUT



MULTITEC



Wood and construction circular saw blades:



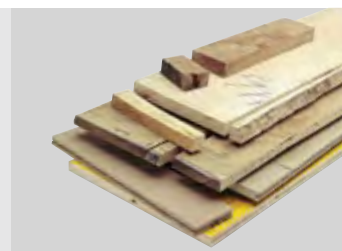
SUPERTEC



FASTCUT



CONSTRUCTCUT



Orientation aids

Tooth shape

The shape and combination of tooth types are decisive for the type of materials being worked on.



FWF: Chamfered flat tooth

Tooth configuration consisting of flat teeth with alternate chamfering for precise cut edges.



ATB: Alternate top bevel tooth

Tooth tips alternately bevelled to the right and left. Ideal for rip and cross cuts.



HLTCG/neg: High-Low Triple Chip Grind

Flat tooth followed by a slightly higher trapezoidal tooth. Prevents tooth breakage in brittle materials.



FZ: Flat tooth

Succession of flat teeth for a quick cut.

Pictograms

The **benefit pictograms** inform you about special advantages of the blade and cut quality.



Tungsten carbide teeth



For quick cuts



For long lifetime



For clean cuts

Machine pictograms define the type of application



Hand-held circular saw



Table saw



Mitre saw

Tooth pitch

The number of teeth is decisive for the cut quality, depending on the material:

- **very coarse tooth pitch** › coarse, rough cut
- **coarse tooth pitch** › coarse cut
- **fine tooth pitch** › fine cut
- **very fine tooth pitch** › clean, fine cut

Metal and multi-purpose circular saw blades:



STEELCUT

FWF

Flat teeth with alternate chamfer



● ● ● fine to
● ● ● ● very fine tooth pitch

Metal and hard material circular saw blade



Ideal for steel plates and profiles, non-ferrous metals, thermal-cladded boards, plastics, glass fibre reinforced plastics, acrylic glass/PMMA and cement-bonded fibre boards

MULTITEC

ATB

Alternate top bevel teeth



● ● ● fine tooth pitch

HLTCG/neg

Trapezoidal / Flat teeth



● ● ● ● very fine teeth

Multi-purpose circular saw blade



Ideal for non-ferrous metals, plastics, laminated chipboard, laminates and parquet

Wood and construction circular saw blades:



SUPERTEC

ATB

Alternate top bevel tooth



- ● coarse
- ● ● to very fine
- ● ● ● tooth pitch

Precision circular saw blade



Ideal for hardwood, raw and laminated chipboard, softwood, composites, MDF boards, wood core plywood, plywood

FASTCUT

FZ

Flat tooth



- ● coarse to
- very coarse tooth pitch

Quick-cutting circular saw blade



Ideal for softwood, chipboard, formwork boards

CONSTRUCTCUT

ATB

Alternate top bevel tooth



- very coarse tooth pitch

Construction timber circular saw blade



Ideal for wood with nails, construction timber, formwork boards, cement-bonded fibre boards, aerated concrete

It all comes down to the right speed

Maximum permitted rpms and speeds by diameter and blade group

Saw blade diameter in mm	Blade group	max. speed rpm	max. speed m/s
130	SuperTec, FastCut	11,800	80
140	SuperTec	10,900	80
150	MultiTec, SuperTec, FastCut	10,200	80
160	MultiTec, SuperTec, FastCut, ConstructCut	9,500	80
165	SuperTec, FastCut	9,300	80
170	MultiTec, SuperTec, FastCut	9,000	80
180	MultiTec, SuperTec, FastCut, ConstructCut	8,500	80
184	SuperTec, FastCut, ConstructCut	8,300	80
190	MultiTec, SuperTec, FastCut, ConstructCut	8,000	80
200	MultiTec	7,600	80
200	SuperTec	9,500	100
205	SuperTec	7,500	80
210	MultiTec, ConstructCut	7,300	80
210	SuperTec, FastCut	9,100	100
216	MultiTec	7,100	80
216	SuperTec	8,800	100
220	SuperTec	8,700	100
225	SuperTec	8,500	100
230	MultiTec, ConstructCut	6,600	80
230	SuperTec, FastCut	8,300	100
235	MultiTec, ConstructCut	6,500	80
235	SuperTec, FastCut	8,100	100
240	MultiTec	6,400	80
240	SuperTec	8,000	100
250	MultiTec, SuperTec, FastCut	7,600	100
270	MultiTec, SuperTec	7,000	100
300	MultiTec, SuperTec, FastCut, ConstructCut	6,400	100
305	SteelCut	2,500	40
315	SuperTec, FastCut, ConstructCut	6,100	100
350	SteelCut	2,100	40
350	MultiTec, SuperTec, FastCut, ConstructCut	5,500	100
355	SteelCut	2,100	40
400	SteelCut	1,900	40
400	SuperTec, FastCut, ConstructCut	4,800	100
450	SuperTec, FastCut, ConstructCut	4,200	100
500	SuperTec, FastCut, ConstructCut	3,800	100
600	ConstructCut	3,200	100
700	ConstructCut	2,700	100

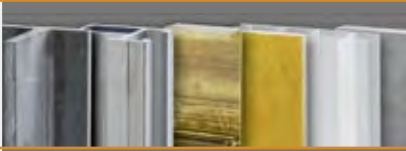


The permitted maximum speed specified on the circular saw blade must not be exceeded under any circumstances. It is primarily dependent on the blade diameter, but the blade group/type of application, tooth shape and tooth pitch also play a part. If the specified limit is exceeded, the saw blade will lose its properties with regard to cut quality and lifetime, not to mention the dangers faced by the user who might incur serious injury.

Recommended, optimum cutting speeds

Material	opt. speed m/s
Softwood	50 - 90
Hardwood	50 - 80
Wood chipboard	60 - 80
Joinery wood	60 - 80
MDF	30 - 60
Laminate	40 - 60

The Hawera circular saw blade portfolio

						
 MULTITEC		 33-88	 40-96	 40-108	✓	✓
 STEELCUT			 60-80	 60-84	✓	
 SUPERTEC		 20-60	 24-80	 36-96	✓	(✓)
 FASTCUT		 10-20		 24-44		✓
 CONSTRUCTCUT		 16-24		 20-46		(✓)



Body and expansion slots

- lower vibration
- dampen noise
- reduce heat development

TKS:

Pitch circle; spacing between pin holes

NL:

Pin hole diameter

Application recommendation

Hawera circular saw blades



Cutting features

Clean cut	●	(HLTCG/neg) ●	●		
Quick cut		(ATB) ●	○	●	○

Wooden materials

Softwood, fine cross cut			●		
Softwood, coarse rip and cross cut			●	●	
Wooden beams			○	○	
Hardwood, fine cross cut		○	●		
Hardwood, coarse rip and cross cut			●	○	
Construction timber with nails and concrete residues					●
Construction timber					●
Plywood		○		●	

Wooden materials, composite materials

Casing boards				●	●
Chipboard, raw		●	●	●	●
Chipboard, laminated or veneered		●	●		
Composite material	○	○	●		
Pressed laminated wood, plywood			●		
Fibre materials, MDF	○		●		
Wood core plywood			●	○	
Laminate, parquet		●	○		

Other materials

Aerated concrete					●
Plastics, epoxy / glass fibre reinforced plastics	●	●			
Non-ferrous metals (aluminium, brass, copper)	●	●			
Soft steel (profiles and panels)	●				
Thermal-cladded boards	●				
Cement-bonded fibre boards	○	○			●
Acrylic glass / PMMA	○	○			

● very suitable
○ suitable



The Hawera circular saw blade dimensions to fit your hand-held circular saw

Supplier of hand-held circular saws	Blade outer diameter mm	Bore diameter mm	Supplier of hand-held circular saws	Blade outer diameter mm	Bore diameter mm
AEG					
HK 40	140	20	AP 55, AP 55E, AP 55EB, ATF 55, ATF 55E, ATF 55EB	160	20
HK 46N	150	20	AT 55E, AXT 50LA	170	30
HK 55, K 55, K 55S, K55 SE	160	20	AU 55S, AU 60P	180	30
HK 66, HK 66E, KS 66S	190	30	AP 65, AP 65E, AP 65EB, AT 65, AT 65EB	190	30
HK 75A	210	30	AU 65, AD 65	200	30
Atlas Copco					
TKS 42	130	20	CS 70, CS 70EB	225	30
K 55, K 55S,	160	20	AP 85, AP 85E, AP 85EB	240	30
K 66S, K 66SE, SCS 66Q	190	30	Hitachi		
HKS 75	210	30	C 6BU, C 6U	165	30
HKS 85	230	30	C 7BU, C 7U	184	30
Black & Decker					
BD 227, BD 840, BD 846, CD 600, DN 227, Dn 227H, KS 40, KS 227, KS 840, KS 846, P 3601	140	12.7	C 8U	210	30
BD 855, KS 855, SR 325E, U 336, U 975, U 976	160	16	C 9U	235	30
HD 1200	180	20	Holz-Her		
BD 229, BD 865, BD 865E, DN 59, DN 229, DN 820, GD 60, HD 100, HD 1000, HD 2062, KS 865, KS 865E, P 3703, P 3705, PL 40, PS 3703, PS 3705, SR 300, SR 362E	184	16	2110, 2111, 2171	130	20
KS 64, KS 65K	190	16	2260, 2270	140	20
BD 365, PL 41	190	30	2103, 2104, 2105, 2106, AP 55EB, ATF 55EB	160	20
HD 2075S, KS 805, KS 810, P 3802	210	30	2115, 2266, 2271, 2281	170	30
P 3902, HD 2066S	230	30	2112, HKU 55	180	30
Bosch					
PKS 38, PKS 40	130	16	2117, 2119, AP 65EB, AT 65EB	190	30
PKS 46	150	16	2113	200	30
GKS 54, GKS 54 CE, PKS 54, PKS 54 CE	160	30	2267	210	30
GKS 55, GKS 55 CE, GKS 160	160	20	2118, 2120, 2294	230	30
GKS 65, GKS 68 BC, GKS 65 CE, PKS 66, GKS 66, GKS 66 CE	190	30	2268	240	30
GKS 75 S	210	30	Kress		
GKS 85 S	230	20	CHKS 6055	160	20
PKS 14.4 V	130	16	CHKS 6066, 1500KS	190	20
GKS 24 V/GKS 18 V	160	20	Mafell		
GKS 36 V-Li	165	20	KSP 55, KSP 55F, KST 55, MKS 55, MKS 55F, MS 55	160	20
DeWalt					
DW 351	150	20	KSP 65F, MKS 65	190	30
DW 62, DW 62K	184	16	B 65	200	30
DW 65, DW 365	190	30	MKS 75	210	30
DW 86	240	30	MKS 85	225	30
Elu					
MH 151	150	20	KSP 85, KSP 85F	230	30
MH 155	170	30	Makita		
MH 65	180	30	5603R, 5604R	165	20
MH 165, MH 265	190	30	5017 RKB	165	30
MH 85, MH 286	240	30	5017R, 5703R, 5704R, 5705R	190	30
Festool					
AP 55, AP 55E, AP 55EB, ATF 55, ATF 55E, ATF 55EB	160	20	5900B, 5900BR, SR 2300	235	25
AT 55E, AXT 50LA	170	30	5903R	235	30
AU 55S, AU 60P	180	30	Metabo		
AP 65, AP 65E, AP 65EB, AT 65, AT 65EB	190	30	KS 0852S	150	20
AU 65, AD 65	200	30	KS 54, KSE 55 Plus	160	20
CS 70, CS 70EB	225	30	KS 1155S, KS 1157S, KSTE 1357S	165	20
AP 85, AP 85E, AP 85EB	240	30	KS 66, KS 68 Plus	190	30
Hitachi					
C 6BU, C 6U	165	30	KSE 1678S	210	30
C 7BU, C 7U	184	30	Skil		
C 8U	210	30	5140, 5240, 5740	130	16
C 9U	235	30			



The Hawera circular saw blade dimensions to fit your mitre saw

Supplier of mitre saws and bench circular saws	Blade outer diameter mm	Bore diameter mm	Supplier of mitre saws and bench circular saws	Blade outer diameter mm	Bore diameter mm
Atlas Copco			Holz-Her		
MS 3C	254*	30	2161, 214101 Symstric	216	30
Black & Decker			Kress		
SR 700, BD 800, DN 800, SEC 818	210	20	GST 90	254*	30
Bosch			Makita		
PCM 8 S	210	30	LS 1013, LS 1040	254*	30
GCM 10, GCM 10 S, GKG 24 V	254*	30	Metabo, Elektra Beckum		
PCM 10	254*	30	GKSE 16705, Signal, KGSE 16705	210	30
GCM 12	305	30	KGS 255, P 200, PK 200, UK 220E, UK 220W	210	30
DeWalt			KGS 250, KGS 300, KGT 500, KGT 550, KGS 330, KGS 250 Hobbymaster, KGS 303, KGS 331	250	30
DW 700, DW 701, DW 707	216	30	KS 304	305	30
DW 702, DW 703, DW 710, DW 742, DW 743	250	30	Rexon		
DW 709, DW 711	260	30	MS 8RAL, SM 2151AL	216	30
DW 704, DW 705, DW 706, DW 708	305	30	M 2500AI	254*	30
Einhell			SCM 12A	305	30
KGS 210	210	30	Scheppach		
KGTN 245, KGTN 250	254*	30	Capas 1, Capas 2	216	30
Elu			KG 260E, TKG 260i, TKG 260E, TKG 280E	254*	30
PS 174, PS 274, PS 274E, ETS 41	216	30	TKG 305i	300	30
TGS 170, TGS 171, TGS 172, TGS 173, TGS 271, TGS 273	250	30	Capas 3	305	30
PS 374, EMS 705	305	30	Stayer		
Hitachi			SLL 250, SCE 1600, SC 270, SC 271, SLL 250E, SLL 251, SL 251E	254*	30
C 8FA	210	30			
C 8FC, C 8FS	216	30			
C 10FCA, C 10FCB	254*	30			



The Hawera circular saw blade dimensions to fit your table saw

Bosch			Rexon		
GTS 10, PTS 10	254*	30	BT 2160A	216	30
DeWalt			BT 2500AE	250	30
DW 744, DW 746	250	30	TS 3150A	315	30
Einhell			Scheppach		
BKS 315	315	30	TKU, TS 315GT, TS 401 ci	315	30
Metabo, Elektra Beckum			BS 400	400	30
TKHS 315, TKHS 315C	315	30	BS 500	500	30

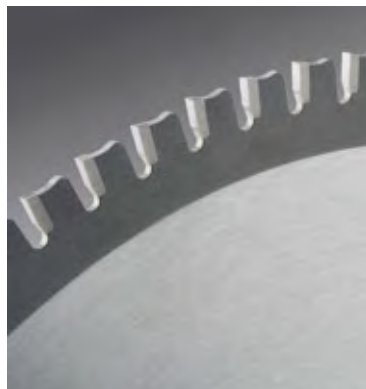
* A circular saw blade with 250 mm outer diameter also fits these machines.



Hawera metal and hard material saw blades

STEELCUT

The special blade for metal and hard materials



*** Fine tooth pitch

Fine cuts in soft steel, non-ferrous metals, thermal-clad boards, fibreglass, perspex, acrylic and cement-bonded fibre boards

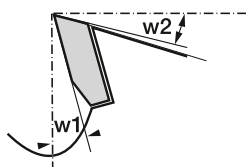
**** Very fine tooth pitch

Very fine cuts in soft steel, non-ferrous metals, thermal-clad boards, fibreglass, perspex, acrylic and cement-bonded fibre boards

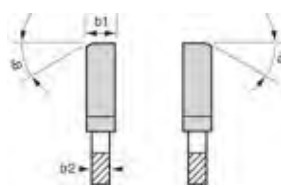
SteelCut – for mitre saws

Blade without pin holes

- > Ideal tooth exit angle for exact cut edges
- > Fixed workpiece clamp required



FWF

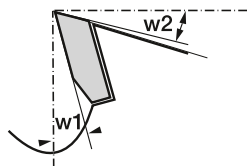
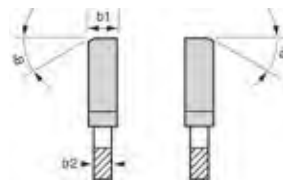


b1: Width of cut b2: Base blade thickness

Outer diameter mm	Bore diameter mm / Bore with reducing ring mm	Width of cut b1 mm / Base blade thickness b2 mm	Number of teeth	Tooth shape	Tooth pitch	Hook angle ° w1	Relief angle ° w2	Packaging type	Pack quantity	Part number	EAN code
305	25.4	2.2/1.8	60	FWF	***	0	8	L	1	F 00Y 124 794	4 014 468 021 091
305	25.4	2.2/1.8	80	FWF	****	0	8	L	1	F 00Y 124 795	4 014 468 021 107
355	25.4	2.6/1.8	80	FWF	***	0	8	L	1	F 00Y 124 798	4 014 468 026 089

SteelCut – for table saws
Blade with pin holes

- > Special tooth geometry for hard materials
- > Minimised cutting width for less cutting pressure and easier cutting action
- > Fixed workpiece clamp required


FWF


b1: Width of cut b2: Base blade thickness

Outer diameter mm	Bore diameter mm / Bore with reducing ring mm	Width of cut b1 mm / Base blade thickness b2 mm	Pin hole / Pitch circle diameter	Number of teeth	Tooth shape	Tooth pitch	Hook angle ° w1	Relief angle ° w2	Packaging type	Pack quantity	Part number	EAN code
305	30	2.2/1.8	7/42 10/60	60	FWF	...	0	8	L	1	F 00Y 124 793	4 014 468 021 084
350	30	2.6/1.8	10/60	80	FWF	...	0	8	L	1	F 00Y 124 796	4 014 468 021 114
400	30	2.6/1.8	10/60	84	FWF	...	0	8	L	1	F 00Y 124 797	4 014 468 021 602



Hawera multi-purpose saw blades

MULTITEC



The perfect blade for powerful cuts with clean cut edges in all different kinds of materials



*** Fine tooth pitch

Fine cuts in plastic and non-ferrous metals, also well suited to cutting parquet, laminate, laminated chipboard, epoxy and occasional use in hardwood



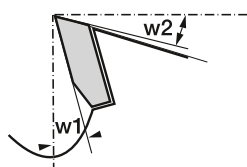
.... Very fine tooth pitch

Very fine cut in plastic and in non-ferrous metals, also perfectly suited to cutting parquet, laminate, laminated chipboard, epoxy, fibreglass and occasional use in cement-bonded fibre boards

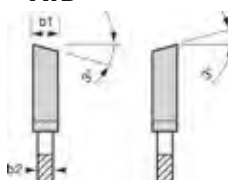


MultiTec – for hand-held circular saws

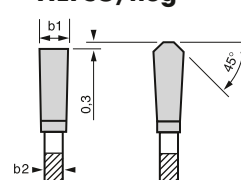
Blade without pin holes



ATB



HLTCG/neg

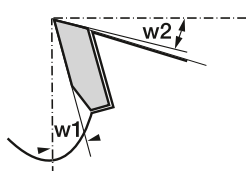
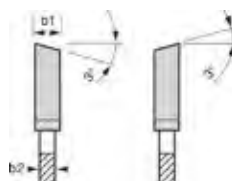


b1: Width of cut b2: Base blade thickness

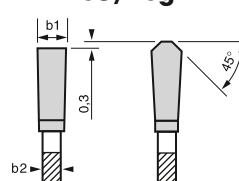
Outer diameter mm	Bore diameter mm / Bore with reducing ring mm	Width of cut b1 mm / Base blade thickness b2 mm	Number of teeth	Tooth shape	Tooth pitch	Hook angle ° w1	Relief angle ° w2	Packaging type	Pack quantity	Part number	EAN code
150	20/16	2.0/1.4	42	HLTCG/neg.	....	-5	18	I	1	F 00Y 124 667	4 014 468 001 482
150	30	2.0/1.4	42	HLTCG/neg.	....	-5	18	I	1	F 00Y 124 679	4 014 468 001 499
160	20/16	2.2/1.8	30	ATB	...	0	8	I	1	F 00Y 124 779	4 014 468 020 940
160	20/16	2.4/1.8	42	HLTCG/neg.	....	-5	18	I	1	F 00Y 124 669	4 014 468 001 512
160	30/25	2.4/1.8	42	HLTCG/neg.	....	-5	18	I	1	F 00Y 124 688	4 014 468 001 529
170	30	2.4/1.8	48	HLTCG/neg.	....	-5	18	I	1	F 00Y 124 671	4 014 468 001 543
180	30	2.4/1.8	48	HLTCG/neg.	....	-5	18	I	1	F 00Y 124 673	4 014 468 001 567
184	30/16	2.4/1.8	48	HLTCG/neg.	....	-5	18	I	1	F 00Y 124 672	4 014 468 001 550
190	20/16	2.4/1.8	38	ATB	...	0	8	I	1	F 00Y 124 784	4 014 468 020 995
190	20/16	2.4/1.8	54	HLTCG/neg.	....	-5	18	I	1	F 00Y 124 674	4 014 468 001 574
190	30	2.4/1.8	38	ATB	...	0	8	I	1	F 00Y 124 785	4 014 468 021 008
190	30	2.4/1.8	54	HLTCG/neg.	....	-5	18	I	1	F 00Y 124 675	4 014 468 001 581
200	30	2.4/1.8	54	HLTCG/neg.	....	-5	18	I	1	F 00Y 124 676	4 014 468 001 598
210	30	2.4/1.8	40	ATB	...	0	8	I	1	F 00Y 124 787	4 014 468 021 022
230	30	2.4/1.8	44	ATB	...	0	8	I	1	F 00Y 124 789	4 014 468 021 046
230	30	2.4/1.8	64	HLTCG/neg.	....	-5	18	I	1	F 00Y 124 690	4 014 468 001 635
235	30/25	2.4/1.8	44	ATB	...	0	8	I	1	F 00Y 124 790	4 014 468 021 053

MultiTec – for hand-held circular saws

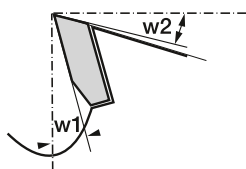
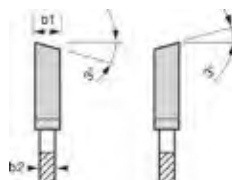
Outer diameter mm	Bore diameter mm / Bore with reducing ring mm	Width of cut b1 mm / Base blade thickness b2 mm	Number of teeth	Tooth shape	Tooth pitch	Hook angle ° w1	Relief angle ° w2	Packaging type	Pack quantity	Part number	EAN code
235	30/25	2.4/1.8	64	HLTCG/neg.	....	-5	18	I	1	F 00Y 124 683	4 014 468 001 642
240	30	2.4/1.8	64	HLTCG/neg.	....	-5	18	M	1	F 00Y 124 684	4 014 468 001 659
270	30	3.2/2.5	88	HLTCG/neg.	....	-5	18	M	1	F 00Y 145 241	4 014 468 032 592

MultiTec – for mitre saws and table saws
Blade without pin holes

ATB


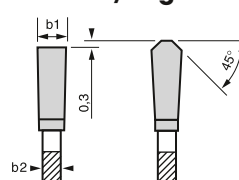
b1: Width of cut b2: Base blade thickness

HLTCG/neg


Outer diameter mm	Bore diameter mm / Bore with reducing ring mm	Width of cut b1 mm / Base blade thickness b2 mm	Number of teeth	Tooth shape	Tooth pitch	Hook angle ° w1	Relief angle ° w2	Packaging type	Pack quantity	Part number	EAN code
210	30	2.4/1.8	54	HLTCG/neg.	....	-5	18	M	1	F 00Y 124 677	4 014 468 001 604
216	30	2.4/1.8	40	ATB	...	0	8	L	1	F 00Y 124 788	4 014 468 021 039
216	30	2.4/1.8	60	HLTCG/neg.	....	-5	18	M	1	F 00Y 124 099	4 014 468 001 611

Blade with pin holes

ATB


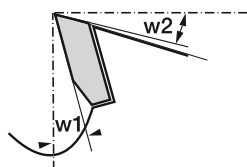
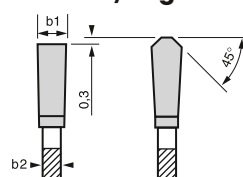
b1: Width of cut b2: Base blade thickness

HLTCG/neg


Outer diameter mm	Bore diameter mm / Bore with reducing ring mm	Width of cut b1 mm / Base blade thickness b2 mm	Pin hole / Pitch circle diameter	Number of teeth	Tooth shape	Tooth pitch	Hook angle ° w1	Relief angle ° w2	Packaging type	Pack quantity	Part number	EAN code
250	30	2.4/1.8	7/42	48	ATB	...	0	8	L	1	F 00Y 124 792	4 014 468 021 077
250	30	3.2/2.5	7/42	80	HLTCG/neg.	....	-5	18	L	1	F 00Y 124 678	4 014 468 001 666
300	30	3.2/2.5	7/42	96	HLTCG/neg.	....	-5	18	L	1	F 00Y 124 730	4 014 468 001 673

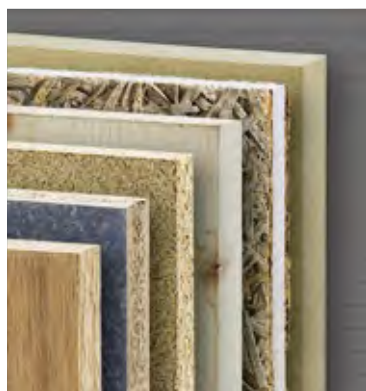
MultiTec – for table saws

- Blade without pin holes**
- > Fixed workpiece clamp required
 - > Manual feed possible


HLTCG/neg


b1: Width of cut b2: Base blade thickness

Outer diameter mm	Bore diameter mm / Bore with reducing ring mm	Width of cut b1 mm / Base blade thickness b2 mm	Number of teeth	Tooth shape	Tooth pitch	Hook angle ° w1	Relief angle ° w2	Packaging type	Pack quantity	Part number	EAN code
250	32	3.2/2.5	80	HLTCG/neg.	••••	-5	18	L	1	F 00Y 160 905	4 014 468 013 676
300	32	3.2/2.5	96	HLTCG/neg.	••••	-5	18	L	1	F 00Y 160 909	4 014 468 013 683
350	30	3.2/2.5	108	HLTCG/neg.	••••	-5	18	L	1	F 00Y 138 276	4 014 468 013 539



Hawera precision saw blades

SUPERTEC

The precise blade for quality cuts in all types of wood



•• Coarse tooth pitch

Coarse rip cuts and cross cuts in softwood, hardwood, raw chipboard, formwork boards and plywood

••• Fine tooth pitch

Fine cross cuts in softwood, hardwood and plywood; also for wood core plywood, chipboard laminated on one side and parquet

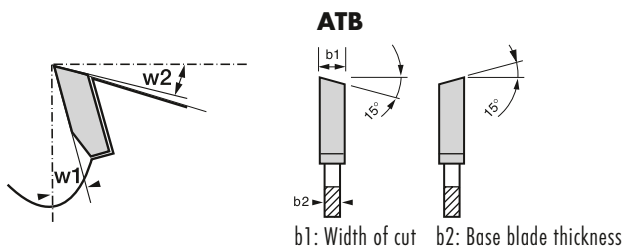
•••• Very fine cross cuts in softwood, hardwood, plywood and wood core plywood. Also for parquet, chipboard laminated on one and two sides, fibre materials and MDF

Very fine tooth pitch

SuperTec – for hand-held circular saws

Blade without pin holes

> Large tungsten carbide teeth and aggressive cutting angle for quick cuts and long lifetime



b1: Width of cut b2: Base blade thickness

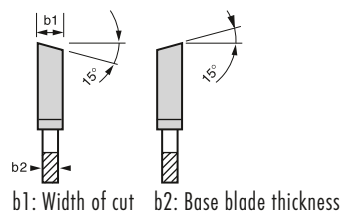
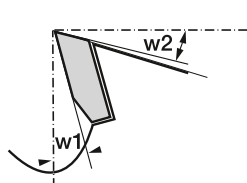
Outer diameter mm	Bore diameter mm / Bore with reducing ring mm	Width of cut b1 mm / Base blade thickness b2 mm	Number of teeth	Tooth shape	Tooth pitch	Hook angle ° w1	Relief angle ° w2	Packaging type	Pack quantity	Part number	EAN code
130	20/16	2.4/1.4	20	ATB	••	15	15	I	1	F 00Y 205 378	4 014 468 041 792
130	20/16	2.4/1.4	30	ATB	•••	15	15	I	1	F 00Y 205 379	4 014 468 041 808
140	12.7	2.4/1.4	20	ATB	••	15	15	I	1	F 00Y 205 380	4 014 468 041 815
150	16/13	2.4/1.4	24	ATB	••	15	15	I	1	F 00Y 205 384	4 014 468 041 853
150	20/15	2.4/1.4	24	ATB	••	15	15	I	1	F 00Y 205 386	4 014 468 041 877
150	20/15	2.4/1.4	36	ATB	•••	15	15	I	1	F 00Y 205 387	4 014 468 041 884
160	30	2.6/1.6	24	ATB	••	15	15	I	1	F 00Y 205 392	4 014 468 041 938
160	30	2.6/1.6	36	ATB	•••	15	15	I	1	F 00Y 205 393	4 014 468 041 945
165	30	2.6/1.6	24	ATB	••	15	15	I	1	F 00Y 205 394	4 014 468 041 952
165	30	2.6/1.6	36	ATB	•••	15	15	I	1	F 00Y 205 395	4 014 468 041 969
170	30	2.6/1.6	24	ATB	••	20	10	I	1	F 00Y 205 396	4 014 468 041 976
180	30	2.6/1.6	24	ATB	••	20	10	I	1	F 00Y 205 398	4 014 468 041 990
180	30	2.6/1.6	36	ATB	•••	15	15	I	1	F 00Y 205 399	4 014 468 042 003
184	30/16	2.6/1.6	24	ATB	••	20	10	I	1	F 00Y 205 400	4 014 468 042 010
184	30/16	2.6/1.6	36	ATB	•••	15	15	I	1	F 00Y 205 401	4 014 468 042 027
190	20/16	2.6/1.6	24	ATB	••	20	10	I	1	F 00Y 205 402	4 014 468 042 034

SuperTec – for hand-held circular saws

Outer diameter mm	Bore diameter mm / Bore with reducing ring mm	Width of cut b1 mm / Base blade thickness b2 mm	Number of teeth	Tooth shape	Tooth pitch	Hook angle ° w1	Relief angle ° w2	Packaging type	Pack quantity	Part number	EAN code
190	20/16	2.6/1.6	36	ATB	...	15	15	I	1	F 00Y 205 403	4 014 468 042 041
190	20/16	2.6/1.6	48	ATB	....	10	14	I	1	F 00Y 205 404	4 014 468 042 058
210	30/25	2.8/1.8	24	ATB	..	20	10	I	1	F 00Y 205 411	4 014 468 042 126
210	30/25	2.8/1.8	36	ATB	...	15	15	I	1	F 00Y 205 412	4 014 468 042 133
210	30/25	2.8/1.8	48	ATB	....	15	15	I	1	F 00Y 205 413	4 014 468 042 140
225	30	2.8/1.8	36	ATB	...	15	15	I	1	F 00Y 205 416	4 014 468 042 171
235	30/25	2.8/1.8	24	ATB	..	20	10	I	1	F 00Y 205 420	4 014 468 042 218
235	30/25	2.8/1.8	36	ATB	...	15	15	I	1	F 00Y 205 421	4 014 468 042 225
240	30	2.8/1.8	36	ATB	...	15	15	M	1	F 00Y 205 423	4 014 468 042 249
270	30	3.2/2.2	24	ATB	..	20	10	M	1	F 00Y 205 427	4 014 468 042 287

Blade with pin holes

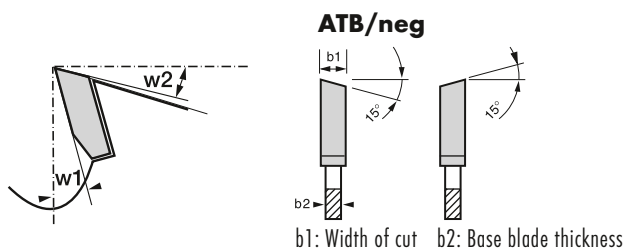
> Large tungsten carbide teeth and aggressive cutting angle for quick cuts and long lifetime



Outer diameter mm	Bore diameter mm / Bore with reducing ring mm	Width of cut b1 mm / Base blade thickness b2 mm	Pin hole / Pitch circle diameter	Number of teeth	Tooth shape	Tooth pitch	Hook angle ° w1	Relief angle ° w2	Packaging type	Pack quantity	Part number	EAN code
160	20/16	2.6/1.6	6/32	24	ATB	..	15	15	I	1	F 00Y 205 390	4 014 468 041 914
160	20/16	2.6/1.6	6/32	36	ATB	...	15	15	I	1	F 00Y 205 391	4 014 468 041 921
160	20/16	2.6/1.6	6/32	48	ATB	....	10	15	I	1	F 00Y 224 716	4 014 468 064 401
190	30	2.6/1.6	7/42	24	ATB	..	20	10	I	1	F 00Y 205 405	4 014 468 042 065
190	30	2.6/1.6	7/42	36	ATB	...	15	15	I	1	F 00Y 205 406	4 014 468 042 072
190	30	2.6/1.6	7/42	48	ATB	....	10	14	I	1	F 00Y 205 407	4 014 468 042 089
200	30/25	2.8/1.8	7/42	24	ATB	..	20	10	I	1	F 00Y 205 408	4 014 468 042 096
200	30/25	2.8/1.8	7/42	36	ATB	...	15	15	I	1	F 00Y 205 409	4 014 468 042 102
200	30/25	2.8/1.8	7/42	48	ATB	....	15	15	I	1	F 00Y 205 410	4 014 468 042 119
220	30	2.8/1.8	7/42	36	ATB	...	15	15	I	1	F 00Y 205 415	4 014 468 042 164
230	30	2.8/1.8	7/42	24	ATB	..	20	10	I	1	F 00Y 205 417	4 014 468 042 188
230	30	2.8/1.8	7/42	36	ATB	...	15	15	I	1	F 00Y 205 418	4 014 468 042 195
230	30	2.8/1.8	7/42	48	ATB	....	15	15	I	1	F 00Y 205 419	4 014 468 042 201
250	30	3.2/2.2	7/42	40	ATB	...	10	14	M	1	F 00Y 205 425	4 014 468 042 263
250	30	3.2/2.2	7/42	60	ATB	...	10	15	M	1	F 00Y 205 426	4 014 468 042 270

SuperTec – for mitre saws
Blade without pin holes

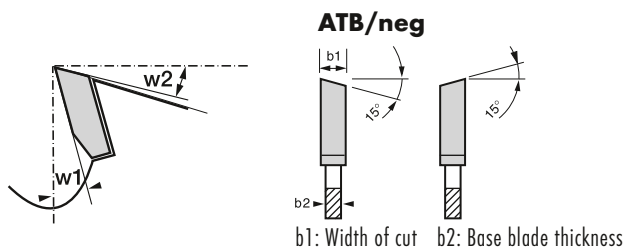
- > Optimum tooth exit angle for excellent cut edges and more safety
- > For an extra-thin cut with little exertion of force
- > Also especially suitable for cordless circular saws



Outer diameter mm	Bore diameter mm / Bore with reducing ring mm	Width of cut b1 mm / Base blade thickness b2 mm	Number of teeth	Tooth shape	Tooth pitch	Hook angle ° w1	Relief angle ° w2	Packaging type	Pack quantity	Part number	EAN code
210	30	2.8/1.8	48	ATB/neg.	...	-5	18	L	1	F 00Y 124 724	4 014 468 021 121
216	30	2.8/1.8	24	ATB/neg.	..	-5	18	L	1	F 00Y 124 095	4 014 468 002 434
216	30	2.8/1.8	48	ATB/neg.	...	-5	18	L	1	F 00Y 124 096	4 014 468 002 441
216	30	2.8/1.8	60	ATB/neg.	....	-5	18	L	1	F 00Y 124 719	4 014 468 002 458

Blade with pin holes

- > Optimum tooth exit angle for excellent cut edges and more safety
- > For an extra-thin cut with little exertion of force
- > Also especially suitable for cordless circular saws



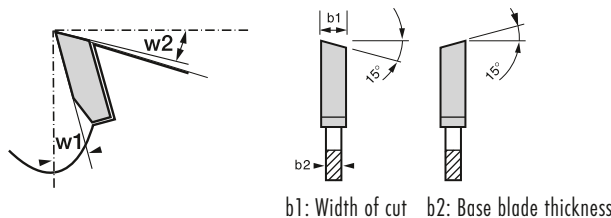
Outer diameter mm	Bore diameter mm / Bore with reducing ring mm	Width of cut b1 mm / Base blade thickness b2 mm	Pin hole / Pitch circle	Number of teeth	Tooth shape	Tooth pitch	Hook angle ° w1	Relief angle ° w2	Packaging type	Pack quantity	Part number	EAN code
250	30	3.2/2.2	7/42	40	ATB/neg.	...	-5	18	L	1	F 00Y 124 706	4 014 468 002 465
250	30	3.2/2.2	7/42	60	ATB/neg.	....	-5	18	L	1	F 00Y 124 721	4 014 468 002 472
250	30	3.2/2.2	7/42	80	ATB/neg.	....	-5	18	L	1	F 00Y 160 730	4 014 468 002 489

SuperTec – for table saws

Blade with pin holes



UW: universal alternate top bevel tooth
 QW: cross cut alternate top bevel tooth
 KW: plastic alternate top bevel tooth
 VW: alternate top bevel tooth design with many teeth

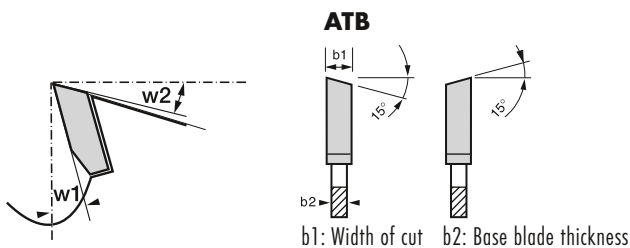


Outer diameter mm	Bore diameter mm / Bore with reducing ring mm	Width of cut b1 mm / Base blade thickness b2 mm	Pin hole / Pitch circle diameter	Number of teeth	Tooth shape	Type	Tooth pitch	Hook angle ° w1	Relief angle ° w2	Packaging type	Pack quantity	Part number	EAN code
250	30	3.2/2.2	7/42	40	ATB	UW	...	10	14	L	1	F 00Y 001 181	4 014 468 003 035
250	30	3.2/2.2	7/42	60	ATB	KW	...	10	14	L	1	F 00Y 001 218	4 014 468 003 059
250	30	3.2/2.2	7/42	80	ATB	VW	....	10	14	L	1	F 00Y 001 225	4 014 468 003 066
300	30	3.2/2.2	7/42	36	ATB	QW	..	20	10	L	1	F 00Y 124 740	4 014 468 022 067
300	30	3.2/2.2	7/42	48	ATB	UW	...	10	14	L	1	F 00Y 001 183	4 014 468 003 097
300	30	3.2/2.2	7/42	72	ATB	KW	...	10	14	L	1	F 00Y 001 219	4 014 468 003 127
300	30	3.2/2.2	7/42	96	ATB	VW	....	10	14	L	1	F 00Y 001 226	4 014 468 003 134
315	30	3.2/2.2	7/42	48	ATB	UW	...	10	14	L	1	F 00Y 424 509	4 014 468 003 165
350	30	3.5/2.5	10/60	42	ATB	QW	..	20	10	L	1	F 00Y 124 741	4 014 468 022 074
350	30	3.5/2.5	10/60	54	ATB	UW	...	10	14	L	1	F 00Y 001 185	4 014 468 003 202
400	30	3.5/2.5	10/60	48	ATB	QW	..	20	10	L	1	F 00Y 124 742	4 014 468 022 081
400	30	3.5/2.5	10/60	60	ATB	UW	...	10	14	L	1	F 00Y 001 189	4 014 468 003 257
400	30	3.5/2.5	10/60	96	ATB	KW	...	10	14	L	1	F 00Y 001 222	4 014 468 003 264
450	30	3.8/2.8	10/60	54	ATB	QW	..	20	10	L	1	F 00Y 124 743	4 014 468 022 098

Blade without pin holes



UW: universal alternate top bevel tooth
 QW: cross cut alternate top bevel tooth
 KW: plastic alternate top bevel tooth
 VW: alternate top bevel tooth design with many teeth



Outer diameter mm	Bore diameter mm / Bore with reducing ring mm	Width of cut b1 mm / Base blade thickness b2 mm	Number of teeth	Tooth shape	Type	Tooth pitch	Hook angle ° w1	Relief angle ° w2	Packaging type	Pack quantity	Part number	EAN code
500	30	3.8/2.8	60	ATB	QW	..	20	10	L	1	F 00Y 124 744	4 014 468 022 104



Hawera quick-cut saw blades

FASTCUT



The fast blade for cuts along and across all types of wood



• Very coarse tooth pitch

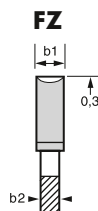
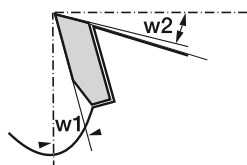
Very coarse rip cuts and cross cuts in softwood, plywood, hardwood, chipboard and formwork boards

•• Coarse tooth pitch

Coarse rip cuts and cross cuts in softwood, hardwood, chipboard, formwork boards and wood core plywood

FastCut – for hand-held circular saws

Blade without pin holes

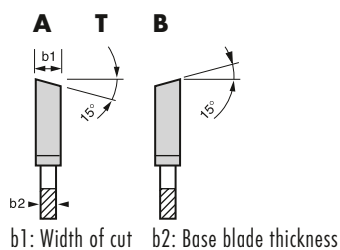
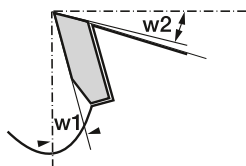


b1: Width of cut b2: Base blade thickness

Outer diameter mm	Bore diameter mm / Bore with reducing ring mm	Width of cut b1 mm / Base blade thickness b2 mm	Number of teeth	Tooth shape	Tooth pitch	Hook angle ° w1	Relief angle ° w2	Packaging type	Pack quantity	Part number	EAN code
130	20/16	2.4/1.4	10	FZ	•	15	15	I	1	F 00Y 205 493	4 014 468 042 881
150	20/16	2.4/1.4	12	FZ	•	15	15	I	1	F 00Y 205 496	4 014 468 042 911
160	20/16	2.6/1.6	12	FZ	•	15	15	I	1	F 00Y 205 497	4 014 468 042 928
165	30	2.6/1.6	14	FZ	•	15	15	I	1	F 00Y 205 499	4 014 468 042 942
170	30	2.6/1.6	14	FZ	•	15	15	I	1	F 00Y 205 500	4 014 468 042 959
180	30	2.6/1.6	14	FZ	•	15	15	I	1	F 00Y 205 501	4 014 468 042 966
184	30/16	2.6/1.6	14	FZ	•	15	15	I	1	F 00Y 205 502	4 014 468 042 973
190	20/16	2.6/1.6	14	FZ	•	15	15	I	1	F 00Y 205 503	4 014 468 042 980
190	30	2.6/1.6	14	FZ	•	15	15	I	1	F 00Y 205 504	4 014 468 042 997
210	30	2.8/1.8	16	FZ	•	15	15	I	1	F 00Y 205 506	4 014 468 043 017
230	30	2.8/1.8	20	FZ	•	15	15	I	1	F 00Y 205 507	4 014 468 043 024
235	30/25	2.8/1.8	20	FZ	•	15	15	I	1	F 00Y 205 508	4 014 468 043 031

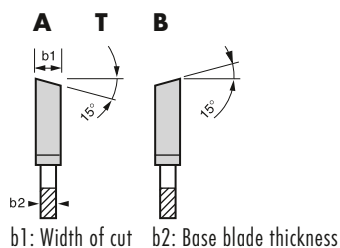
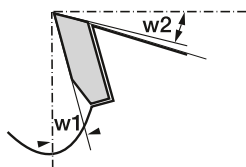
FastCut – for table saws

Blade with pin holes > Low-recoil thanks to deflector



Outer diameter mm	Bore diameter mm / Bore with reducing ring mm	Width of cut b1 mm / Base blade thickness b2 mm	Pin hole / Pitch circle diameter	Number of teeth	Tooth shape	Tooth pitch	Hook angle ° w1	Relief angle ° w2	Packaging type	Pack quantity	Part number	EAN code
250	30	3.2/2.2	7/42	24	ATB	••	20	10	L	1 F 00Y 124 297	4 014 468 003 028	
300	30	3.2/2.2	7/42	28	ATB	••	20	10	L	1 F 00Y 124 700	4 014 468 003 080	
		10/60										
315	30	3.2/2.2	7/42	28	ATB	••	20	10	L	1 F 00Y 124 701	4 014 468 003 158	
350	30	3.5/2.5	10/60	32	ATB	••	20	10	L	1 F 00Y 124 702	4 014 468 003 196	
400	30	3.5/2.5	10/60	36	ATB	••	20	10	L	1 F 00Y 124 703	4 014 468 003 240	
450	30	3.8/2.8	10/60	40	ATB	••	20	10	L	1 F 00Y 124 704	4 014 468 003 288	

Blade without pin holes > Low-recoil thanks to deflector



Outer diameter mm	Bore diameter mm / Bore with reducing ring mm	Width of cut b1 mm / Base blade thickness b2 mm	Number of teeth	Tooth shape	Tooth pitch	Hook angle ° w1	Relief angle ° w2	Packaging type	Pack quantity	Part number	EAN code
500	30	3.8/2.8	44	ATB	••	20	10	L	1 F 00Y 124 705	4 014 468 003 318	

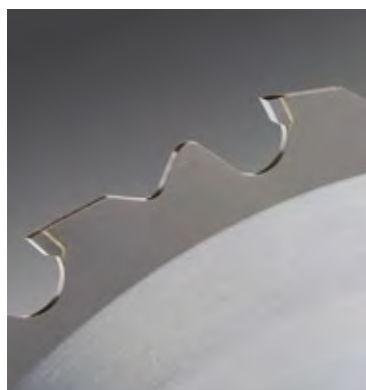


Hawera construction saw blades

CONSTRUCTCUT



The special blade for the construction site



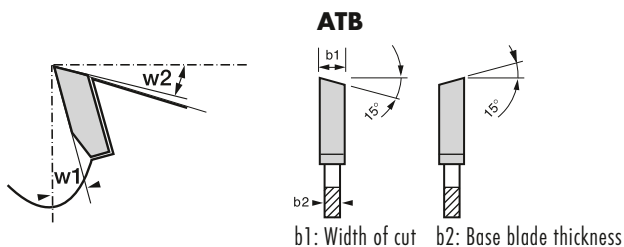
• Very coarse tooth pitch

Ideal for construction timber, cement-bonded fibre boards, formwork boards with concrete residues, aerated concrete and wood with nails

ConstructCut – for hand-held circular saws

Blade without pin holes

- > Special tooth design and wide support in the tooth spine ensure high resistance and stability, even in hard construction site applications
- > Robust blade, insensitive to stubborn metal and cement residues, for fast and coarse cuts thanks to large chip clearance

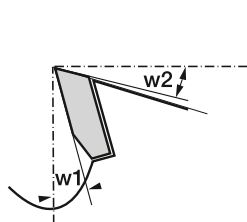


Outer diameter mm	Bore diameter mm / Bore with reducing ring mm	Width of cut b1 mm / Base blade thickness b2 mm	Number of teeth	Tooth shape	Tooth pitch	Hook angle ° w1	Relief angle ° w2	Packaging type	Pack. quantity	Part number	EAN code
160	20/16	2.2/1.6	16	ATB	•	12	10	I	1	F 00Y 211 458	4 014 468 045 370
180	30	2.2/1.6	16	ATB	•	12	10	I	1	F 00Y 211 459	4 014 468 045 387
184	16	2.2/1.6	16	ATB	•	12	10	I	1	F 00Y 211 460	4 014 468 045 394
184	30	2.2/1.6	16	ATB	•	12	10	I	1	F 00Y 211 461	4 014 468 045 400
190	20/16	2.2/1.6	16	ATB	•	12	10	I	1	F 00Y 211 462	4 014 468 045 417
190	30	2.2/1.6	16	ATB	•	12	10	I	1	F 00Y 211 463	4 014 468 045 424
210	30	2.4/1.8	24	ATB	•	12	10	I	1	F 00Y 211 465	4 014 468 045 448
230	30	2.4/1.8	24	ATB	•	12	10	I	1	F 00Y 211 466	4 014 468 045 455
235	30/25	2.4/1.8	24	ATB	•	12	10	I	1	F 00Y 211 467	4 014 468 045 462

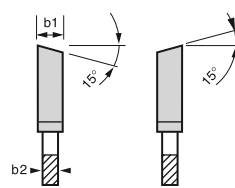
ConstructCut – for table saws

Blade with pin holes

- > 15° hook angle ensures optimum tooth performance
- > Fast and coarse cuts thanks to large chip clearance



ATB

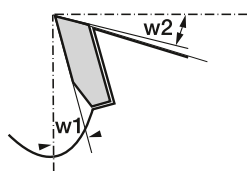


b1: Width of cut b2: Base blade thickness

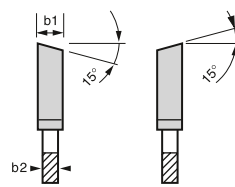
Outer diameter mm	Bore diameter mm / Bore with reducing ring mm	Width of cut b1 mm / Base blade thickness b2 mm	Pin hole / Pitch circle diameter	Number of teeth	Tooth shape	Tooth pitch	Hook angle ° w1	Relief angle ° w2	Packaging type	Pack quantity	Part number	EAN code
300	30	2.8/1.8	7/42 10/60	20	ATB	•	15	10	L	1	F 00Y 211 450	4 014 468 045 295
315	30	2.8/1.8	7/42	20	ATB	•	15	10	L	1	F 00Y 211 451	4 014 468 045 301
350	30	3.2/2.2	10/60	24	ATB	•	15	10	L	1	F 00Y 211 452	4 014 468 045 318
400	30	3.2/2.2	10/60	28	ATB	•	15	10	L	1	F 00Y 211 453	4 014 468 045 325
450	30	3.8/2.8	10/60	32	ATB	•	15	10	L	1	F 00Y 211 454	4 014 468 045 332

Blade without pin holes

- > 15° hook angle ensures optimum tooth performance
- > Fast and coarse cuts thanks to large chip clearance



ATB



b1: Width of cut b2: Base blade thickness

Outer diameter mm	Bore diameter mm / Bore with reducing ring mm	Width of cut b1 mm / Base blade thickness b2 mm	Number of teeth	Tooth shape	Tooth pitch	Hook angle ° w1	Relief angle ° w2	Packaging type	Pack quantity	Part number	EAN code
500	30	3.8/2.8	36	ATB	•	15	10	L	1	F 00Y 211 455	4 014 468 045 349
600	30	4.0/3.0	40	ATB	•	15	10	L	1	F 00Y 211 456	4 014 468 045 356
700	30	4.2/3.0	46	ATB	•	15	10	L	1	F 00Y 211 457	4 014 468 045 363

Hawera circular saw blade accessories

Accessories – Circular saw blades

Diameter mm	Bore diameter mm	Thickness mm	Width mm	Packaging type	Pack quantity	Part number	EAN code
-------------	------------------	--------------	----------	----------------	---------------	-------------	----------

Precision reducing rings – Outer edge knurled, for press fit (EN 847-1); bore fit H8



20	12.7	1.4	-	W	1	F 00Y 124 063	4 014 468 012 051
20	13.0	1.4	-	W	1	F 00Y 108 038	4 014 468 011 955
20	13.0	1.6	-	W	1	F 00Y 108 039	4 014 468 011 962
20	15.0	1.4	-	W	1	F 00Y 019 254	4 014 468 010 804
20	15.0	1.6	-	W	1	F 00Y 000 100	4 014 468 010 675
20	16.0	1.4	-	W	1	F 00Y 124 064	4 014 468 012 068
20	16.0	1.6	-	W	1	F 00Y 000 101	4 014 468 010 682
25	22.0	2.0	-	W	1	F 00Y 111 159	4 014 468 022 890
30	15.0	2.0	-	W	1	F 00Y 000 109	4 014 468 010 699
30	16.0	1.4	-	W	1	F 00Y 000 111	4 014 468 010 705
30	16.0	2.0	-	W	1	F 00Y 000 113	4 014 468 010 712
30	20.0	1.4	-	W	1	F 00Y 000 117	4 014 468 010 729
30	20.0	2.0	-	W	1	F 00Y 000 119	4 014 468 010 736
30	22.0	2.0	-	W	1	F 00Y 000 120	4 014 468 022 883
30	25.0	1.4	-	W	1	F 00Y 000 125	4 014 468 010 750
30	25.0	2.0	-	W	1	F 00Y 000 128	4 014 468 010 767
30	28.0	2.0	-	W	1	F 00Y 000 132	4 014 468 010 774
32	20.0	2.2	-	W	1	F 00Y 000 135	4 014 468 022 876
32	22.0	2.2	-	W	1	F 00Y 111 157	4 014 468 022 869
32	25.4	2.2	-	W	1	F 00Y 000 138	4 014 468 022 852
32	30.0	2.2	-	W	1	F 00Y 000 137	4 014 468 010 781
35	30.0	2.2	-	W	1	F 00Y 111 155	4 014 468 022 906
40	30.0	2.2	-	W	1	F 00Y 000 153	4 014 468 010 798

Reversible blade for Hawera and other planers – Suitable for AEG, Bosch, Black & Decker, Fein, Haffner, Hitachi, Holz-Her, Mafell, Makita, Metabo, Skil

-	-	-	80.5	F	10	F 00Y 135 682	4 014 468 010 637
-	-	-	82.0	F	10	F 00Y 135 683	4 014 468 010 644



Lined area for notes, consisting of numerous horizontal lines.



**Jigsawing and
sabre sawing**

Hawera jigsaw blades:

The overview

Hawera's range of high-quality jigsaw blades is **simply** and **clearly structured**: **The colour** of the shank shows which materials and application ranges the blade is suitable for. **The product name** indicates the properties and special qualities of the saw blade.

			
Blue: for metallic materials	Green: for hard and soft woods	Pink: for wood with metal	Anthracite: for special applications

HCS	HCSBASIC	good and cost effective	HCS EXTRA-CLEAN	tear-free on both sides
	HCSFAST	for fast cuts	HCS PRECISE	exact cuts at accurate angles
	HCS CLEAN	fine and clean cuts	HCS SOFT MATERIAL	precise and at accurate angles

Carbon steel for use in **softer materials**, such as wood, fibre wood boards, soft plastics.

HSS	HSSBASIC	good and cost effective	HSSFAST	for fast cuts
------------	-----------------	-------------------------	----------------	---------------

Fully hardened high speed steel for use in **harder materials** such as **metal**, aluminium and non-ferrous metal.

BIM	BIM FAST	fast through thick and thin	BIM EXTRA-CLEAN	tear-free on both sides
	BIM CLEAN	fine, precise and clean	BIM METAL SANDWICH	precise and at accurate angles
	BIM FLEXIBLE	breakproof, long lifetime		

Bi-metal, a highly flexible combination of HSS and HCS for **the highest demands**. The bendable BIM saw blades are used for **jobs where there is a risk of shank breakage**. Their lifetime is about ten times longer than that of HCS blades.

TC	TCLONGLIFE	extra long lifetime	TCSYNTHETICS	extra long lifetime and clean cuts
	TCCERAMICS	extra long lifetime	TC FIBER+PLASTER	extra long lifetime

Tungsten carbide tipped saw blades are especially powerful. For use in **stainless steel**, metal and **for abrasive materials** such as glass fibre reinforced plastic, ceramic wall tiles and porous concrete.

Better results

thanks to the right saw blade

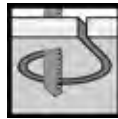
The **right selection** of saw blade is a decisive factor for the **cutting result**.

Pictograms provide information about the cut quality or property.

Four examples:



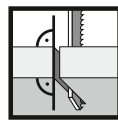
quick cut



especially for curved cut, fine



clean cut



cutting at accurate angles, 90°



The **cut quality** is directly related to the **geometry** of the saw blade.

Four examples:



Milled and side-set teeth

> rough cut
> fast work progress

in:

Hardwood/softwood, aluminium, plastics, non-ferrous metals

e.g.:

BIM FAST (Allround)
HCS BASIC (Wood)



Milled and wavy-set teeth

> fine cut
> straight cut

in:

Plywood, soft steel, aluminium, non-ferrous metals

e.g.:

HCS BASIC (Wood)
HSS BASIC (Metal)



Ground and side-set teeth

> quick cut

in:

Hardwood/softwood

e.g.:

HCS FAST (Wood)



Ground teeth and taper ground

> fine, clean cut

in:

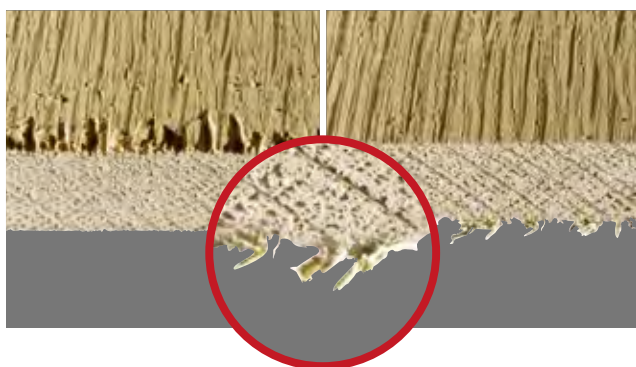
Wood, plastic

e.g.:

HCS CLEAN (Wood)

Hawera jigsaw blades «Extra-Clean» for the construction site:

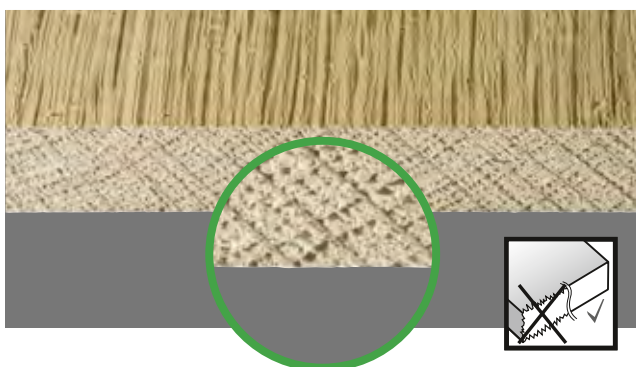
Quality work



Frequent construction site work

A shelf, a door leaf, a floor panel has to be adjusted.

A jigsaw is available to do this. Regardless of how the machine is guided, one of the cut edges is always torn: on the top or bottom.



With Hawera «Extra-Clean»: tear-free on both sides

Tear-free clean cut edges, on the top and bottom. And this with one jigsaw. On the construction site.

Distinctive advantages

- No need for reworking:
Sanding torn edges clean is no longer necessary.
- More efficiency on the construction site:
Quality work without having to make a detour to the workshop.



Straight cut



BIM EXTRA-CLEAN T308BF ➤ in hardwood



HCS EXTRA-CLEAN T308B ➤ in softwood

Curve cut



BIM EXTRA-CLEAN T308BOF ➤ in hardwood



HCS EXTRA-CLEAN T308BO ➤ in softwood

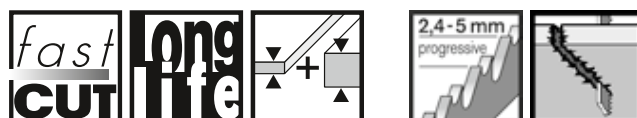
Powerful

in a wide variety of materials



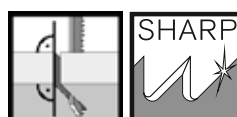
BIM FAST

The ALLROUND version has a progressive tooth design to ensure effortless cutting through wood, wood with nails, metal, aluminium profiles, pipes and sheet metals. One and the same blade for both thick and thin materials.



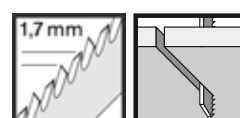
HCS PRECISE

The ideal blade for making sizing cut at accurate angles in kitchen worktops and doors.



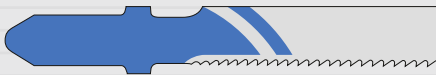
BIM CLEAN

The LAMINATE version is ideal for making precise, clean cuts on both sides in laminate and plastic-laminated panels.





Hawera jigsaw blades for metal applications



HSS-Basic – for metal

Good and cost effective

Tooth pitch mm	Overall length mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
----------------	-------------------	--------------	----------------	---------------	-------------	----------



T 118 G

HSS

Milled, wavy set
Very thin sheet metals (0.5-1.5 mm)



0.7	92	1	I	5	F 00Y 240 526	4 014 468 010 040
-----	----	---	---	---	---------------	-------------------



T 118 A

HSS

Milled, wavy set
Progressive tooth pitch
Thin sheet metals (1-3 mm)



1.1 - 1.5	92	1	I	5	F 00Y 240 523	4 014 468 009 983
1.1 - 1.5	92	1	L	100	F 00Y 144 874	4 014 468 030 581



T 118 B

HSS

Milled, wavy set
Progressive tooth pitch
Medium-thick sheet metals (2.5-6 mm)



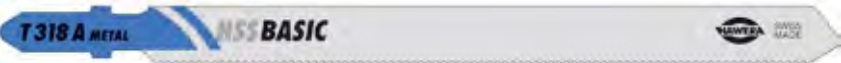
1.9 - 2.3	92	1	I	5	F 00Y 240 525	4 014 468 010 026
1.9 - 2.3	92	1	E	25	F 00Y 144 862	4 014 468 030 468



T 318 A

HSS

Milled, wavy set
Thin sheet metals (1-3 mm), pipes + profiles, including aluminium (diameter <65 mm)



1.2	132	1	I	5	F 00Y 240 527	4 014 468 010 019
-----	-----	---	---	---	---------------	-------------------

HSS-Basic – for metal

Tooth pitch mm	Overall length mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
----------------	-------------------	--------------	----------------	---------------	-------------	----------

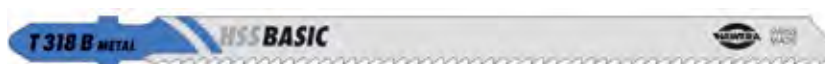


T 318 B

HSS

Milled, wavy set

Medium-thick sheet metals (2.5-6 mm), pipes + profiles including aluminium (diameter <65 mm), precise angle cut



2	132	1.25	I	5	F 00Y 240 534	4 014 468 010 033
---	-----	------	---	---	---------------	-------------------

BIM-Flexible – for metal
Breakproof, long lifetime


Tooth pitch mm	Overall length mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
----------------	-------------------	--------------	----------------	---------------	-------------	----------



T 118 AF

BIM

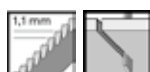
Milled, wavy set

Progressive tooth pitch

Thin sheet metals, perforated sheet metals (1-3 mm)



1.1 - 1.5	92	1	I	5	F 00Y 240 503	4 014 468 009 990
1.1 - 1.5	92	1	E	25	F 00Y 144 864	4 014 468 030 482



T 318 AF

BIM

Milled, wavy set

Thin metal plates, perforated metal plates (1-3 mm), sandwich materials (<65 mm), pipes + open profiles, incl. aluminium (diameter <65 mm)



1.1	132	1	I	5	F 00Y 265 129	3 165 140 457 774
-----	-----	---	---	---	---------------	-------------------



T 118 EOF

BIM

Milled, wavy set

Thin sheet metals, perforated sheet metals (1.5-4 mm), especially for curve cuts



1.5	83	1	I	5	F 00Y 265 130	3 165 140 457 781
-----	----	---	---	---	---------------	-------------------

BIM-Flexible – for metal



Tooth pitch mm	Overall length mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
----------------	-------------------	--------------	----------------	---------------	-------------	----------



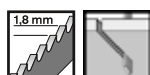
T 118 BF

BIM

Milled, wavy set
Progressive tooth pitch
Medium-thick sheet metals, perforated sheet metals (2.5-6 mm)



1.9 - 2.3	92	1	I	5	F 00Y 144 225	4 014 468 028 380
1.9 - 2.3	92	1	E	25	F 00Y 144 865	4 014 468 030 499



T 318 BF

BIM

Milled, side set
Medium-thick metal plates, perforated metal plates (2.5-6 mm), sandwich materials (<65 mm), pipes + profiles, incl. aluminium (diameter <65 mm)



1.8	132	1	I	5	F 00Y 265 131	3 165 140 457 798
-----	-----	---	---	---	---------------	-------------------

BIM-Fast – for metal

Fast through thick and thin



Tooth pitch mm	Overall length mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
----------------	-------------------	--------------	----------------	---------------	-------------	----------



T 123 XF

BIM

Milled, side set
Progressive tooth pitch
Thin to thick sheet metals (1.5-10 mm), pipes + profiles, including aluminium (diameter <30 mm)



1.2 - 2.6	100	1	I	5	F 00Y 145 703	4 014 468 033 650
1.2 - 2.6	100	1	E	25	F 00Y 202 437	4 014 468 039 959

BIM-Flexible – for sandwich materials
Breakproof, long lifetime


Tooth pitch mm	Overall length mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
----------------	-------------------	--------------	----------------	---------------	-------------	----------

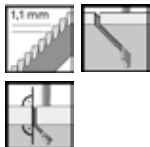


T 718 BF

BIM

Milled, side set
Sandwich materials (<120 mm)


2	180	1.25	I	3	F 00Y 265 132	3 165 140 457 804
---	-----	------	---	---	---------------	-------------------



T 1018 AFP

BIM

Milled, wavy set
Metal-Sandwich (<150 mm)


1.1	250	1.6	I	3	F 00Y 266 256	3 165 140 773 720
-----	-----	-----	---	---	---------------	-------------------

HSS-Fast – for aluminium
Fast in aluminium, soft and non-ferrous metal


Tooth pitch mm	Overall length mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
----------------	-------------------	--------------	----------------	---------------	-------------	----------



T 127 D

HSS

Milled, side set
Thin to thick sheet metals (3-15 mm), pipes + profiles, (diameter <30 mm)


3	100	1	I	5	F 00Y 240 528	4 014 468 010 057
3	100	1	E	25	F 00Y 144 863	4 014 468 030 475



TC-Longlife – for stainless steel

Long lifetime



Tooth pitch mm	Overall length mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
----------------	-------------------	--------------	----------------	---------------	-------------	----------



T 118 AHM
TC



TC tooth strip, ground
Thin, stainless steel sheets (INOX) (1.5-3 mm), glass fibre reinforced plastic

1.1	83	1	I	1	F 00Y 240 541	4 014 468 017 674
-----	----	---	---	---	---------------	-------------------



Hawera jigsaw blades for wood applications



HCS-Basic – for wood

Good and cost effective

Tooth pitch mm	Overall length mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
----------------	-------------------	--------------	----------------	---------------	-------------	----------



T 119 B

HCS

Milled, wavy set
Progressive tooth pitch
Softwood (2-15 mm), plywood, chipboards, wood core plywood, fibre boards



1.9 - 2.3	92	1	I	5	F 00Y 144 212	4 014 468 028 670
-----------	----	---	---	---	---------------	-------------------



T 119 B0

HCS

Milled, wavy set
Softwood (2-15 mm), plywood, chipboard, wood core plywood, fibre boards, especially for curve cuts



2	83	1	I	5	F 00Y 240 531	4 014 468 009 952
---	----	---	---	---	---------------	-------------------



T 111 C

HCS

Milled, side set
Softwood (4-50 mm), chipboard, wood core plywood, fibre boards, quick cut



3	92	1.25	I	5	F 00Y 240 517	4 014 468 009 938
3	92	1.25	E	25	F 00Y 135 686	4 014 468 010 125



HCS-Fast – for wood

For fast cuts



Tooth pitch mm	Overall length mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
----------------	-------------------	--------------	----------------	---------------	-------------	----------



T 234 X
HCS

Tapered, ground
Progressive tooth pitch
Softwood (3-65 mm), chipboards, wood core plywood, fibre boards



2-3	117	1.5	I	5	F 00Y 202 436	4 014 468 039 942
2-3	117	1.5	E	25	F 00Y 202 440	4 014 468 039 997



T 144 D
HCS

Ground, side set
Progressive tooth pitch
Softwood (5-50 mm), chipboards, wood core plywood, fibre boards



4-5.2	100	1.25	I	5	F 00Y 240 520	4 014 468 009 969
4-5.2	100	1.25	E	25	F 00Y 135 687	4 014 468 010 132
4-5.2	100	1.25	L	100	F 00Y 144 871	4 014 468 030 550



T 244 D
HCS

Ground, side set
Progressive tooth pitch
Softwood (5-50 mm), chipboards, wood core plywood, fibre boards, especially for curve cuts



4-5.2	100	1.25	I	5	F 00Y 240 521	4 014 468 009 976
4-5.2	100	1.25	E	25	F 00Y 135 689	4 014 468 010 156
4-5.2	100	1.25	L	100	F 00Y 144 872	4 014 468 030 567



T 344 D
HCS

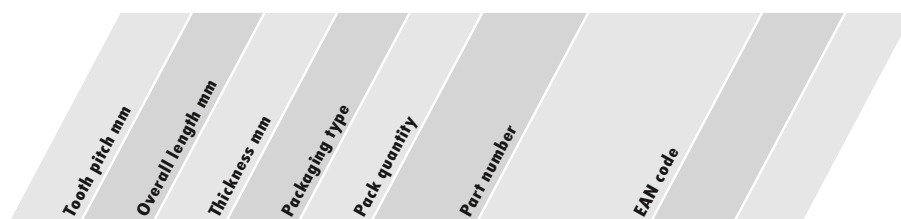
Ground, side set
Thick construction timber, softwood (5-100 mm), chipboards, wood core plywood, fibre boards



4	152	1.25	I	3	F 00Y 144 214	4 014 468 028 274
---	-----	------	---	---	---------------	-------------------

HCS-Clean – for wood

Fine and clean cuts

**T 101 A0**

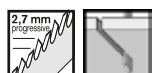
HCS

Tapered, ground

Softwood, plywood, laminated panels (1.5-15 mm), especially for curve cuts



1.4	83	1.25	I	5	F 00Y 240 502	4 014 468 009 945
-----	----	------	---	---	---------------	-------------------

**T 101 B**

HCS

Conical, ground

progressive tooth pitch

Softwood, chipboard, wood core plywood, fibre boards (3-30 mm), plastics (diameter <30 mm)



2.7	100	1.5	I	5	F 00Y 240 515	4 014 468 009 884
2.7	100	1.5	E	25	F 00Y 135 684	4 014 468 010 101
2.7	100	1.5	L	100	F 00Y 144 870	4 014 468 030 543

**T 101 BR**

HCS

Tapered, ground

Softwood, chipboard, wood core plywood, fibre boards (3-30 mm), laminated panels, clean surface



2.5	100	1.5	I	5	F 00Y 240 545	4 014 468 009 921
-----	-----	-----	---	---	---------------	-------------------

**T 101 D**

HCS

Tapered, ground

Progressive tooth pitch

Softwood, chipboard, wood core plywood, fibre boards (10-45 mm)



4-5.2	100	1.5	I	5	F 00Y 240 516	4 014 468 009 891
4-5.2	100	1.5	E	25	F 00Y 135 685	4 014 468 010 118

**T 301 CD**

HCS

Tapered, ground

Softwood, chipboard, wood core plywood, fibre boards (10-65 mm)



3	117	1.5	I	5	F 00Y 240 514	4 014 468 009 914
---	-----	-----	---	---	---------------	-------------------

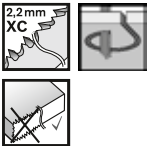


HCS-ExtraClean – for wood

For tear-free, particularly clean cuts



Tooth pitch mm	Overall length mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
----------------	-------------------	--------------	----------------	---------------	-------------	----------

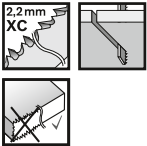


T 308 B0
HCS

Taper ground
2.2 XC tooth pitch
Softwood and non-abrasive wooden materials (5-50 mm), especially for curve cuts



2.2 XC	117	1.5	I	5	F 00Y 265 578	3 165 140 571 159
--------	-----	-----	---	---	---------------	-------------------



T 308 B
HCS

Taper ground
2.2 XC tooth pitch
Softwood and non-abrasive wooden materials (5-50 mm)



2.2 XC	117	1.5	I	5	F 00Y 265 152	3 165 140 470 230
--------	-----	-----	---	---	---------------	-------------------

HCS-Precise – for wood

Exact cuts at accurate angles



Tooth pitch mm	Overall length mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
----------------	-------------------	--------------	----------------	---------------	-------------	----------



T 144 DP
HCS

Ground, side set
Softwood, chipboard, wood core plywood, fibre boards (5-50 mm), doors, kitchen worktops (<50 mm)

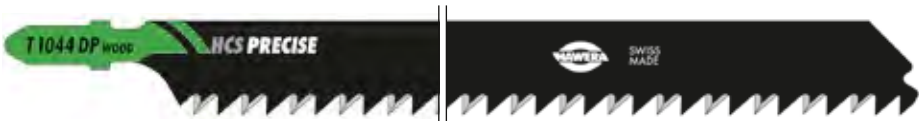


4	100	1.7	I	5	F 00Y 265 133	3 165 140 457 811
---	-----	-----	---	---	---------------	-------------------



T 1044 DP
HCS

Ground, side set
Thick construction timber, softwood (5-150 mm), chipboards, wood core plywood, fibre boards



4	250	1.6	I	3	F 00Y 266 255	3 165 140 773 713
---	-----	-----	---	---	---------------	-------------------

BIM-Fast – for hardwood
For quick cuts, also in hardwood

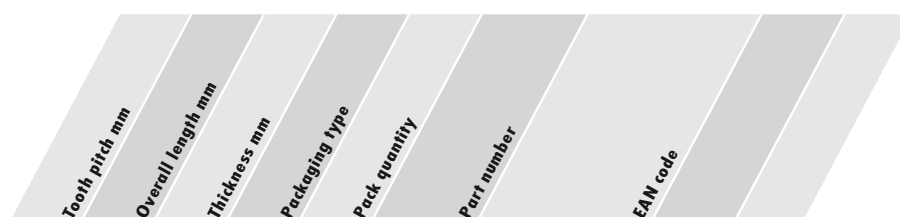
T 144 DF

BIM

Ground, side set
Progressive tooth pitch
Hardwood and softwood (5-50 mm), all types of panels, including laminates



4-5.2	100	1.25	I	5	F 00Y 144 220	4 014 468 028 335
4-5.2	100	1.25	E	25	F 00Y 144 859	4 014 468 030 437

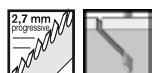
BIM-Clean – for hardwood
For fine cuts, also in hardwood

T 101 AOF

BIM

Ground, pointed teeth
Hardwood, laminates, laminated boards/HPL, plywood, especially for curve cuts, no tears



1.4	83	1.25	I	5	F 00Y 144 215	4 014 468 028 281
-----	----	------	---	---	---------------	-------------------


T 101 BF

BIM

Tapered, ground
Progressive tooth pitch
Hardwood, laminates, laminated boards/HPL (3-30 mm), plastics/glass fibre reinforced plastic (diameter <30 mm)



2.7	100	1.25	I	5	F 00Y 240 512	4 014 468 017 667
-----	-----	------	---	---	---------------	-------------------

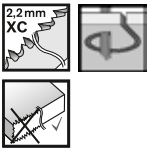


BIM-ExtraClean – for hardwood

For tear-free, particularly clean cuts



Tooth pitch mm	Overall length mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
----------------	-------------------	--------------	----------------	---------------	-------------	----------

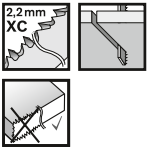


T 308 B0F
BIM

Taper ground
2.2 XC tooth pitch
Hardwood and abrasive wooden materials (5-50 mm), especially for curve cuts



2.2 XC	117	1.5	I	5	F 00Y 265 579	3 165 140 571 166
--------	-----	-----	---	---	---------------	-------------------



T 308 BF
BIM

Taper ground
2.2 XC tooth pitch
Hardwood and abrasive wooden materials (5-50 mm)



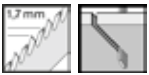
2.2 XC	117	1.5	I	5	F 00Y 265 154	3 165 140 470 254
--------	-----	-----	---	---	---------------	-------------------

BIM-Clean – for laminate

For precise, clean cuts in laminate



Tooth pitch mm	Overall length mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
----------------	-------------------	--------------	----------------	---------------	-------------	----------



T 101 BIF
BIM

Ground, pointed teeth
Laminates (1.5 - 15 mm), laminated boards/HPL (1.5 - 15 mm), multiplex boards (1.5 - 15 mm)



1.7	83	1.25	I	5	F 00Y 265 134	3 165 140 457 828
-----	----	------	---	---	---------------	-------------------



Hawera jigsaw blades for all-round applications



BIM-Flexible – for wood with metal

Breakproof, long lifetime



Tooth pitch mm	Overall length mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
----------------	-------------------	--------------	----------------	---------------	-------------	----------



T 118 VF

BIM

Milled, side set

Vario tooth pitch

Aluminium, non-ferrous metals (<10 mm), medium-thick sheet metals, perforated sheet metals (2-8 mm)



1.8 - 2.6	100	1	I	5	F 00Y 240 544	4 014 468 017 681
-----------	-----	---	---	---	---------------	-------------------



T 318 VF

BIM

Milled, side set

Vario tooth pitch

Aluminium, non-ferrous metals (<10 mm), medium-thick sheet metals, perforated sheet metals (2-8 mm)



1.8 - 2.6	132	1.25	I	3	F 00Y 240 546	4 014 468 017 698
-----------	-----	------	---	---	---------------	-------------------

BIM-Fast – for wood with metal

Universal and fast through thick and thin



Tooth pitch mm	Overall length mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
----------------	-------------------	--------------	----------------	---------------	-------------	----------



T 345 XF

BIM

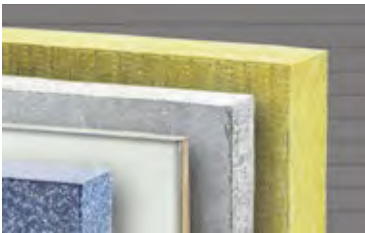
Milled, side set

Progressive tooth pitch

Construction timber with nails (<65 mm), wooden materials, plastics/glass fibre reinforced plastic, sheet metals, pipes/profiles, including aluminium (diameter 3-10 mm)



2.4-5	132	1.25	I	5	F 00Y 145 704	4 014 468 033 667
2.4-5	132	1.25	E	25	F 00Y 202 439	4 014 468 039 973



Hawera jigsaw blades for special applications



TC-Ceramics – for ceramic materials

Long lifetime



Tooth pitch mm	Overall length mm	Thickness mm	Grit	Packaging type	Pack quantity	Part number	EAN code
----------------	-------------------	--------------	------	----------------	---------------	-------------	----------



T 130 RF
TC



TC-coated
Tiles up to score hardness of 6, ceramics

-	83	0.8	Grit 30	I	1	F 00Y 240 532	4 014 468 010 064
---	----	-----	---------	---	---	---------------	-------------------

TC-Synthetics – for abrasive synthetics

Long lifetime and clean cuts



Tooth pitch mm	Overall length mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
----------------	-------------------	--------------	----------------	---------------	-------------	----------



T 301 CHM
TC



TC tooth strip, ground
Glass fibre reinforced plastic, Corian (diameter <65 mm)

3.3	117	1.25	I	1	F 00Y 144 230	4 014 468 028 434
-----	-----	------	---	---	---------------	-------------------

HCS-Soft-Material – for fibre insulation materials

Cut quality and angle accuracy



Tooth pitch mm	Overall length mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
----------------	-------------------	--------------	----------------	---------------	-------------	----------

**T 1013 AWP**

HCS

Serrated edge

Fibre insulation materials (<150 mm)



12.0	250	1.6	I	3	F 00Y 266 257	3 165 140 773 737
------	-----	-----	---	---	---------------	-------------------

TC-Fiber+Plaster – for fibre and cement materials

Long lifetime



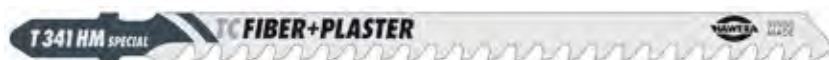
Tooth pitch mm	Overall length mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
----------------	-------------------	--------------	----------------	---------------	-------------	----------

**T 341 HM**

TC

TC-tipped, ground, side set

Glass fibre reinforced plastic (5-50 mm), plasterboard, fibre cement boards (<80 mm)

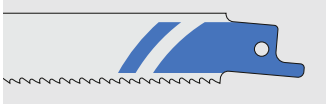
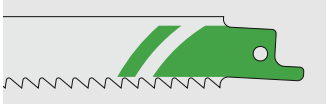
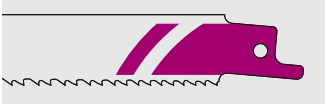


4.3	132	1.25	I	1	F 00Y 240 513	4 014 468 010 071
-----	-----	------	---	---	---------------	-------------------



Hawera sabre saw blades: The overview

The Hawera sabre saw blades are structured and designed so that their application ranges and advantages are **easy to recognise**. The **colour** of the shank shows which materials and application ranges the blade is suitable for. The **product name** indicates the properties and special qualities of the saw blade.

			
			
Blue: for metallic materials	Green: for hard and soft woods	Pink: for wood with metal	Anthracite: for special applications

HCS	HCSFAST	for fast cuts	HCSFIBER INSULATION	precise and at accurate angles
	HCSCLEAN	fine and clean cuts		

Carbon steel for use in **softer materials**, such as wood, fibre wood boards, soft plastics.

BIM	BIM FLEXIBLE	breakproof, long lifetime	BIM FAST	fast through thick and thin
	BIM PRECISE	exact cutting and long lifetime		BIM PALLET effortless cuts without jamming

Bi-metal, a highly flexible combination of HSS and HCS for **the highest demands**. The bendable BIM saw blades are used for **jobs where there is a risk of shank breakage**. Their lifetime is about ten times longer than that of HCS blades.

TC	TCLONGLIFE	extra long lifetime	TCCAST+CERAMICS	breakproof, long lifetime
	TCEXTRA-LOGLIFE	indestructible for the most extreme applications		TCFIBER+PLASTER long lifetime
	TCBRICK	fast cutting and long lifetime		

Tungsten carbide tipped saw blades are especially powerful. For use in **stainless steel**, metal and **for abrasive materials** such as glass fibre reinforced plastic, ceramic wall tiles and porous concrete.

Practical orientation aids

Benefit pictograms show what advantages a saw blade offers. Example:

Flexible blade for **flush cutting**



Especially for **powerful cutting**



This information on the Hawera saw blade packaging is particularly helpful and important at the POS / POP, the product presentation system of the specialist retail outlet.



Colour code:

defines the range of applications
e.g. pink = all-round use

Product name:

defines the blade material and an important product quality
e.g. carbide for extra-long lifetime

Benefit pictograms:

define special product qualities
e.g. powerful cutting for demolition work

Materials that can be worked on:

visualises the application range
e.g. cast iron, wood with metal, glass fibre reinforced plastics, fixing elements, aluminium

Tooth and cut pictograms:

e.g. progressive tooth pitch with 6–8 teeth per inch; coarse straight cut

Blade models:

e.g. S956XHM

Product part number:

e.g. (F 00Y) 266 420

Quantity:

shows how many saw blades there are in the packaging
e.g. 1 pc

Main dimensions:

e.g. 150 x 25 x 1.25 mm
(total length x width x thickness)

new

Hawera sabre saw blades «Extra-Longlife»:

Indestructible

The new Hawera TC Extra-Longlife sabre saw blades set new standards with their carbide technology and progressive tooth pitch. Their unmatched, unprecedented lifetime surpasses that of bi-metal blades many times over. This makes them the perfect solution for tough demolition work in all wood and metal materials.

Indestructible, even in the most extreme applications.

TC EXTRA-LONGLIFE

Carbide

power CUT

extra long LIFE

Demolition

Increased blade width and thickness
for optimum stability during demolition work

Blade width
25 mm

Blade thickness
1.25 mm

Progressive tooth pitch
for universal use in both thin and thick materials

Individually welded-on, ground carbide teeth
for maximum flexibility and impact resistance when performing heavy duty demolition work

Carbide technology
for outstanding lifetime, even when working in high-alloy steel

Available in three lengths:		Part number	Blade models	Length
		F 00Y 266 420	S 956 XHM	150 mm
		F 00Y 266 421	S 1156 XHM	225 mm
		F 00Y 266 422	S 1256 XHM	300 mm



Carbide technology enables you to effortlessly cut through mounted profiles in outdoor areas.



The progressive tooth pitch is ideal for sawing thick wooden beams containing thin fixing elements.



Thanks to its extra-long 300 mm design, the S 1256 XHM is the ideal recommendation for especially large cross cuts.

More Hawera saw blades with **carbide technology**

TCLONGLIFE

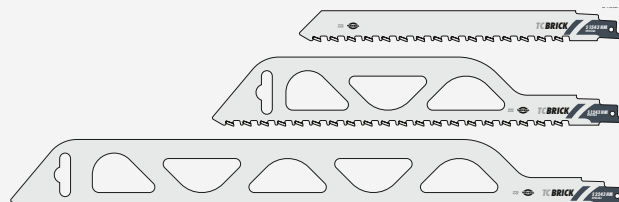
for steel



Part number	Blade models	Length
F 00Y 144 250	S 518 EHM	115 mm
F 00Y 265 139	S 922 EHM	150 mm

TCBRICK

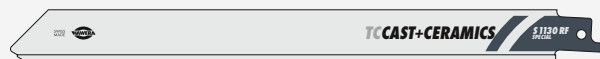
for stone-based mineral materials



Part number	Blade models	Length
F 00Y 265 108	S 1543 HM	240 mm
F 00Y 265 109	S 1243 HM	300 mm
F 00Y 265 110	S 2243 HM	455 mm

TCCAST+CERAMICS

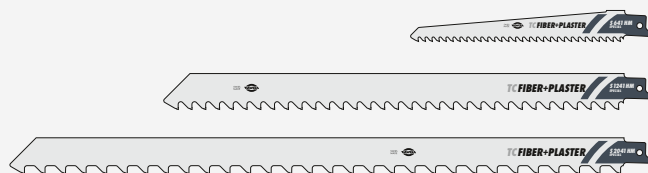
for cast iron



Part number	Blade models	Length
F 00Y 145 726	S 1130 RF	225 mm

TCFIBER+PLASTER

for drywall materials and porous concrete



Part number	Blade models	Length
F 00Y 144 251	S 641 HM	150 mm
F 00Y 144 253	S 1241 HM	225 mm
F 00Y 144 254	S 2041 HM	300 mm



Hawera sabre saw blades for metal applications

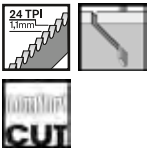


BIM-Flexible – for metal

Breakproof, long lifetime



Tooth pitch mm/TPI	Overall length mm	Width mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
--------------------	-------------------	----------	--------------	----------------	---------------	-------------	----------



S 922 AF
BIM



Milled, wavy set
Thin sheet metals, perforated sheet metals (0.7-3 mm), fine pipes/profiles (<100 mm), effortless fine cut

1.1/24	150	19	0.9	I	5	F 00Y 144 239	4 014 468 028 502
--------	-----	----	-----	---	---	---------------	-------------------

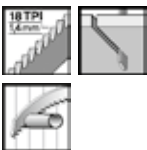


S 922 EF
BIM

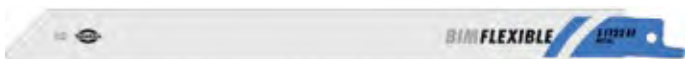


Milled, side set
Thin sheet metals, perforated sheet metals (1.5-4 mm), pipes/profiles (<100 mm)

1.4/18	150	19	0.9	I	5	F 00Y 144 242	4 014 468 028 533
1.4/18	150	19	0.9	E	25	F 00Y 202 828	4 014 468 040 214



S 1122 EF
BIM

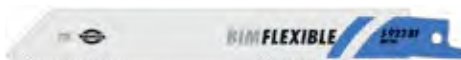


Milled, side set
Thin sheet metals, perforated sheet metals (1.5-4 mm), pipes/profiles (<175 mm), flexible flush cut

1.4/18	225	19	0.9	I	5	F 00Y 144 243	4 014 468 028 540
1.4/18	225	19	0.9	E	25	F 00Y 202 829	4 014 468 040 221



S 922 BF
BIM



Milled, side set
Thick sheet metals, perforated sheet metals (3-8 mm), solid pipes/profiles (<100 mm), quick cut

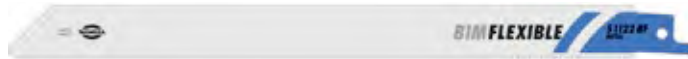
1.8/14	150	19	0.9	I	5	F 00Y 144 245	4 014 468 028 564
1.8/14	150	19	0.9	E	25	F 00Y 202 830	4 014 468 040 238

BIM-Flexible – for metal

Tooth pitch mm/TPI	Overall length mm	Width mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
--------------------	-------------------	----------	--------------	----------------	---------------	-------------	----------

**S 1122 BF**

BIM



Milled, side set

Thick sheet metals, perforated sheet metals (3-8 mm), solid pipes/profiles (<175 mm), flexible flush cut, quick cut

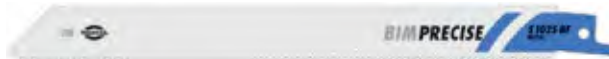
1.8/14	225	19	0.9	I	5	F 00Y 144 246	4 014 468 028 571
1.8/14	225	19	0.9	E	25	F 00Y 202 831	4 014 468 040 245

BIM-Precise – for metal**Exact cutting and long lifetime**

Tooth pitch mm/TPI	Overall length mm	Width mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
--------------------	-------------------	----------	--------------	----------------	---------------	-------------	----------

**S 1025 BF**

BIM



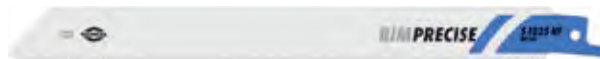
Milled, side set

Medium to thick sheet metals (2-8 mm), solid pipes/profiles (<150 mm)

1.8/14	200	19	1.25	I	5	F 00Y 211 585	4 014 468 045 479
--------	-----	----	------	---	---	---------------	-------------------

**S 1025 HF**

BIM



Milled, side set

Thick sheet metals, perforated sheet metals (3-12 mm), solid pipes/profiles (<150 mm), quick cut

2.5/10	200	19	1.25	E	5	F 00Y 211 587	4 014 468 045 486
--------	-----	----	------	---	---	---------------	-------------------

**S 926 BEF**

BIM



Milled, side set

Ideal for fast cuts at accurate angles in thin-walled steel pipes and profiles, thick sheet metals, perforated sheet metals (3-8 mm)

1.4+1.8/ 14+18	150	25	1.1	I	5	F 00Y 265 135	3 165 140 457 903
-------------------	-----	----	-----	---	---	---------------	-------------------

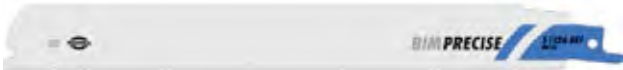
BIM-Precise – for metal



Tooth pitch mm/TPI	Overall length mm	Width mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
--------------------	-------------------	----------	--------------	----------------	---------------	-------------	----------



S 1126 BEF
BIM



Milled, side set
Ideal for quick cuts at accurate angles in thin-walled steel pipes and profiles

14+18/ 14+18	225	25	1.1	I	5	F 00Y 265 136	3 165 140 457 910
-----------------	-----	----	-----	---	---	---------------	-------------------



S 926 CHF
BIM

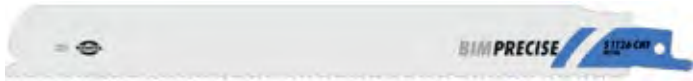


Milled, side set
Quick cuts at accurate angles in thick-walled steel pipes and profiles

25+32/ 8+10	150	25	1.1	I	5	F 00Y 265 137	3 165 140 457 927
----------------	-----	----	-----	---	---	---------------	-------------------



S 1126 CHF
BIM



Milled, side set
Quick cuts at accurate angles in thick-walled steel pipes and profiles

25+32/ 8+10	225	25	1.1	I	5	F 00Y 265 138	3 165 140 457 934
----------------	-----	----	-----	---	---	---------------	-------------------



S 920 CF
BIM



Milled, side set
Boards (4-12 mm), solid pipes/profiles (<100 mm), ideal for pipe cutting device, for rescue/demolition work, powerful, coarse cut

25+32/ 8+10	150	22	1.6	I	5	F 00Y 145 724	4 014 468 033 759
----------------	-----	----	-----	---	---	---------------	-------------------



S 1120 CF
BIM



Milled, side set
Boards (4-12 mm), solid pipes/profiles (<175 mm), ideal for pipe cutting device, for rescue/demolition work, powerful, coarse cut

25+32/ 8+10	225	22	1.6	I	5	F 00Y 211 589	4 014 468 045 509
----------------	-----	----	-----	---	---	---------------	-------------------

BIM-Fast – for metal

Fast through thick and thin



Tooth pitch mm/TPI	Overall length mm	Width mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
--------------------	-------------------	----------	--------------	----------------	---------------	-------------	----------

**S 123 XF**

BIM

Milled, side set

Progressive tooth pitch

Thin to thick sheet metals, perforated sheet metals (1-8 mm), thin to thick profiles (<100 mm)



1.4-3.4/ 8-14	150	19	0.9	I	5	F 00Y 202 463	4 014 468 040 153
------------------	-----	----	-----	---	---	---------------	-------------------

TC-Longlife – for stainless steel

Long lifetime



Tooth pitch mm/TPI	Overall length mm	Width mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
--------------------	-------------------	----------	--------------	----------------	---------------	-------------	----------

**S 522 EHM**

TC

TC tooth strip, ground

Stainless steel sheets (2-4 mm), stainless steel profiles (<50 mm), glass fibre reinforced plastic (<50 mm),

metal: stroke rate reduction, cooling! Work without pendulum action



1.4/18	115	16	1	I	2	F 00Y 144 250	4 014 468 028 618
--------	-----	----	---	---	---	---------------	-------------------

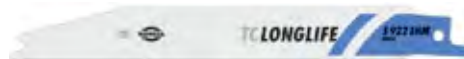
**S 922 EHM**

TC

TC tooth strip, ground

Stainless steel sheets (2-4 mm), stainless steel profiles (<100 mm), glass fibre reinforced plastic (<100 mm),

metal: stroke rate reduction, cooling! Work without pendulum action



1.4/18	150	19	1	I	2	F 00Y 265 139	3 165 140 457 941
--------	-----	----	---	---	---	---------------	-------------------



Hawera sabre saw blades for wood applications



HCS-Fast – for wood **For fast cuts**



Tooth pitch mm/TPI	Overall length mm	Width mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
--------------------	-------------------	----------	--------------	----------------	---------------	-------------	----------



S 2345 X
HCS



Ground, side set
Progressive tooth pitch
Construction timber (<150 mm), boards: chipboard, MDF (<60 mm), plywood, plastic (<150 mm), wooden wall (<150 mm)

25-43/ 6-10	200	19	1.25	I	5	F 00Y 202 462	4 014 468 040 146
----------------	-----	----	------	---	---	---------------	-------------------



S 1531 L
HCS



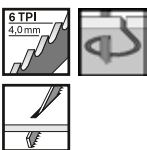
Ground, side set
Coarse wood, free of nails (<190 mm), pruning green wood (<190 mm), firewood (<190 mm)

5/5	240	19	1.5	I	5	F 00Y 121 611	4 014 468 010 552
-----	-----	----	-----	---	---	---------------	-------------------

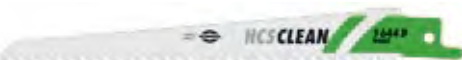
HCS-Clean – for wood **Fine and clean cuts**



Tooth pitch mm/TPI	Overall length mm	Width mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
--------------------	-------------------	----------	--------------	----------------	---------------	-------------	----------



S 644 D
HCS



Ground, side set
Construction timber (<100 mm), wooden wall (<100 mm), boards: chipboard, MDF (<60 mm), plywood, plastic (<100 mm), especially for plunge cut

4/6	150	19	1.25	I	5	F 00Y 121 600	4 014 468 010 378
-----	-----	----	------	---	---	---------------	-------------------

HCS-Clean – for wood


Tooth pitch mm/TPI	Overall length mm	Width mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
--------------------	-------------------	----------	--------------	----------------	---------------	-------------	----------


S 1344 D

HCS

Ground, side set

Softwood, chipboard, firewood (<250 mm)



4/6	300	19	1.25	I	3	F 00Y 121 601	4 014 468 010 392
-----	-----	----	------	---	---	---------------	-------------------





Hawera sabre saw blades for all-round applications



BIM-Flexible – for wood with metal

Breakproof, long lifetime



Tooth pitch mm/TPI	Overall length mm	Width mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
--------------------	-------------------	----------	--------------	----------------	---------------	-------------	----------



S 611 VF

BIM

Milled, side set
Vario tooth pitch
Curve cuts in wood with metal, plastic/glass fibre reinforced plastic, aluminium (<100 mm), for window renovation



32-51/ 5-8	150	19	1.25	I	5	F 00Y 144 234	4 014 468 028 458
32-51/ 5-8	150	19	1.25	E	25	F 00Y 202 825	4 014 468 040 184



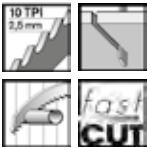
S 922 VF

BIM

Milled, side set
Vario tooth pitch
Wood with nails/metal (<100 mm), sheet metals (3-10 mm), pipes, aluminium profiles (<100 mm), plastic profiles (<100 mm), plastic/glass fibre reinforced plastic



18-26/ 10-14	150	19	0.9	I	5	F 00Y 121 612	4 014 468 017 704
18-26/ 10-14	150	19	0.9	E	25	F 00Y 202 826	4 014 468 040 191



S 1122 HF

BIM

Milled, side set
for pallet repair, wood with nails/metal (<175 mm), sheet metals, pipes, aluminium profiles (<175 mm), flexible flush cut



2.5/10	225	19	0.9	I	5	F 00Y 144 249	4 014 468 028 601
2.5/10	225	19	0.9	E	25	F 00Y 202 833	4 014 468 040 269

BIM-Flexible – for wood with metal

Tooth pitch mm/TPI	Overall length mm	Width mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
--------------------	-------------------	----------	--------------	----------------	---------------	-------------	----------

**S 1122 VF**

BIM

Milled, side set

Vario tooth pitch

Wood with nails/metal (<175 mm), sheet metals (3-10 mm), aluminium profiles (<175 mm), plastic/glass fibre reinforced plastic profiles (<175 mm), flexible flush cut

18-26/ 10-14	225	19	0.9	I	5	F 00Y 121 613	4 014 468 017 711
-----------------	-----	----	-----	---	---	---------------	-------------------

**S 1222 VF**

BIM

Milled, side set

Vario tooth pitch

Wood with nails/metal (<250 mm), sheet metals (3-10 mm), aluminium profiles (<250 mm), plastic/glass fibre reinforced plastic profiles (<250 mm), flexible flush cut

18-26/ 10-14	300	19	0.9	E	3	F 00Y 144 236	4 014 468 028 472
-----------------	-----	----	-----	---	---	---------------	-------------------

**S 610 DF**

BIM

Milled, side set

Wood with nails/metal, chipboard (<100 mm), plastics/glass fibre reinforced plastic, solid (<100 mm), wall cutouts: wood+metal (<100 mm), for rescue/demolition work

4.3/6	150	22	1.6	I	5	F 00Y 211 590	4 014 468 045 516
-------	-----	----	-----	---	---	---------------	-------------------

**S 1110 DF**

BIM

Milled, side set

Wood with nails/metal, chipboard (<175 mm), plastics/glass fibre reinforced plastic, solid (<175 mm), wall cutouts: wood+metal (<175 mm), for rescue/demolition work

4.3/6	225	22	1.6	I	5	F 00Y 211 591	4 014 468 045 523
-------	-----	----	-----	---	---	---------------	-------------------





BIM-Flexible – for wood with metal



Tooth pitch mm/TPI	Overall length mm	Width mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
--------------------	-------------------	----------	--------------	----------------	---------------	-------------	----------



S 1210 DF
BIM



Milled, side set
Extreme cuts in wood with metal (nails), wall cutout, plastic/glass fibre reinforced plastic

4.3/6	300	22	1.6	I	3	F 00Y 211 592	4 014 468 045 530
-------	-----	----	-----	---	---	---------------	-------------------

BIM-Pallet – for cutting pallets

Effortless cuts without jamming



Tooth pitch mm/TPI	Overall length mm	Width mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
--------------------	-------------------	----------	--------------	----------------	---------------	-------------	----------



S 722 VFR
BIM



Vario tooth pitch
Milled, side set
Pallets, cutting depth up to 125 mm, maximum flexibility

1.8-2.6/ 10-14	190	19	0.9	I	5	F 00Y 266 247	3 165 140 773 638
-------------------	-----	----	-----	---	---	---------------	-------------------



S 1122 VFR
BIM



Vario tooth pitch
Milled, side set
Pallets, cutting depth up to 165 mm, maximum flexibility

1.8-2.6/ 10-14	225	19	0.9	I	5	F 00Y 266 249	3 165 140 773 652
-------------------	-----	----	-----	---	---	---------------	-------------------



S 725 VFR
BIM



Vario tooth pitch
Milled, side set
Pallets, cutting depth up to 125 mm, minimum vibration

1.8-2.6/ 10-14	190	19	1.25	I	5	F 00Y 266 251	3 165 140 773 676
-------------------	-----	----	------	---	---	---------------	-------------------

BIM-Pallet – for cutting pallets

Tooth pitch mm/TPI	Overall length mm	Width mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
--------------------	-------------------	----------	--------------	----------------	---------------	-------------	----------

**S 1125 VFR**

BIM

Vario tooth pitch
Milled, side set
Pallets, cutting depth up to 165 mm, maximum stability and lifetime

1.8-26/ 10-14	225	19	1.25	I	5	F 00Y 266 253	3 165 140 773 690
------------------	-----	----	------	---	---	---------------	-------------------

**BIM-Fast – for wood with metal****Fast through thick and thin**

Tooth pitch mm/TPI	Overall length mm	Width mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
--------------------	-------------------	----------	--------------	----------------	---------------	-------------	----------

**S 3456 XF**

BIM

Milled, side set
Progressive tooth pitch
Wood with nails/metal, chipboard (<150 mm), sheet metals (3-18 mm), aluminium profiles (<150 mm),
plastics/glass fibre reinforced plastic, profiles (<150 mm)

21-43/ 6-12	200	19	1.25	I	5	F 00Y 202 464	4 014 468 040 160
----------------	-----	----	------	---	---	---------------	-------------------





TC-Extra-Longlife – for wood, plastic and metal

Breakproof, long lifetime



Tooth pitch mm/TPI	Overall length mm	Width mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
--------------------	-------------------	----------	--------------	----------------	---------------	-------------	----------



S 956 XHM
TC

Side set, ground
Carbide Technology
Wood with (hardened) nails/metal (5-100 mm), wood with steel components (5-100 mm), cast steel pipes (diameter < 3"), glass fibre reinforced plastics/epoxy (< 100 mm)

3.2-4.3/ 6-8	150	25	1.25	I	1	F 00Y 266 420	3 165 140 772 976
-----------------	-----	----	------	---	---	---------------	-------------------



S 1156 XHM
TC

Side set, ground
Carbide Technology
Wood with (hardened) nails/metal (5-175 mm), wood with steel components (5-175 mm), cast steel pipes (diameter < 6"), glass fibre reinforced plastics/epoxy (< 175 mm)

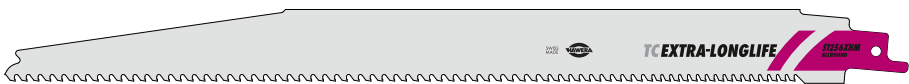
3.2-4.3/ 6-8	225	25	1.25	I	1	F 00Y 266 421	3 165 140 772 983
-----------------	-----	----	------	---	---	---------------	-------------------

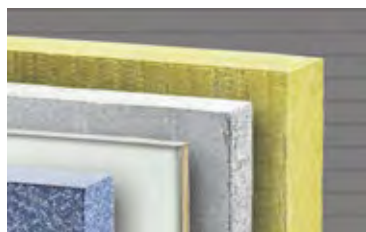


S 1256 XHM
TC

Side set, ground
Carbide Technology
Wood with (hardened) nails/metal (5-250 mm), wood with steel components (5-250 mm), cast steel pipes (diameter < 8"), glass fibre reinforced plastics/epoxy (< 250 mm)

3.2-4.3/ 6-8	300	25	1.25	I	1	F 00Y 266 422	3 165 140 772 990
-----------------	-----	----	------	---	---	---------------	-------------------





Hawera sabre saw blades for special applications


TC-Brick – for poroton and bricks
Fast cutting and long lifetime


Tooth pitch mm/TPI	Overall length mm	Width mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
--------------------	-------------------	----------	--------------	----------------	---------------	-------------	----------

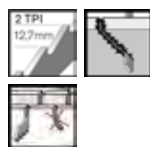


S 1543 HM TC



TC-tipped, ground
For small bricks up to a material thickness of 150 mm

12.7/2	240	23	1.5	I	1	F 00Y 265 108	3 165 140 441 865
--------	-----	----	-----	---	---	---------------	-------------------



S 1243 HM TC



TC-tipped, ground
For medium-sized bricks up to a material thickness of 215 mm

12.7/2	305	50	1.5	I	1	F 00Y 265 109	3 165 140 441 872
--------	-----	----	-----	---	---	---------------	-------------------



S 2243 HM TC



TC-tipped, ground
For large bricks up to a material thickness of 365 mm

12.7/2	455	50	1.5	I	1	F 00Y 265 110	3 165 140 441 889
--------	-----	----	-----	---	---	---------------	-------------------



**HCS-Fiber-Insulation –
for fibre insulation materials**

**Precise plunge cuts at accurate angles
without the blade straying**



Tooth pitch mm/TPI	Overall length mm	Width mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
--------------------	-------------------	----------	--------------	----------------	---------------	-------------	----------

S 1113 AWP
HCS



Serrated edge
Fibre insulation materials (<=175)

5/5	225	22	1.5	I	2	F 00Y 266 244	3 165 140 773 607
-----	-----	----	-----	---	---	---------------	-------------------

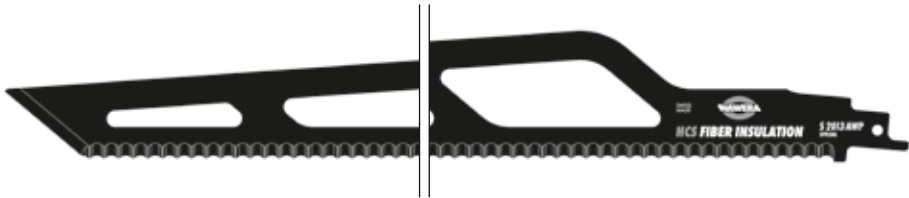
S 1213 AWP
HCS



Serrated edge
Fibre insulation materials (<=250)

5/5	300	22	1.5	I	2	F 00Y 266 245	3 165 140 773 614
-----	-----	----	-----	---	---	---------------	-------------------

S 2013 AWP
HCS



Serrated edge
Fibre insulation materials (<=350)

5/5	400	45	1.5	I	1	F 00Y 266 246	3 165 140 773 621
-----	-----	----	-----	---	---	---------------	-------------------

TC-Cast+Ceramics – for steel/cast iron pipes and ceramic materials

Breakproof, long lifetime

**S 1130 RF**

TC-Grit

TC-coated

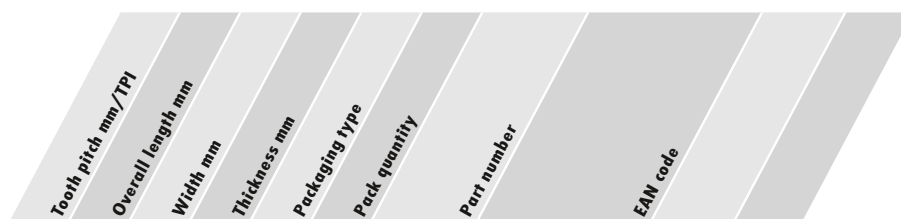
Cast steel pipes (max. diameter 6"), glass fibre reinforced plastic (<175 mm)



225	19	Grit 30	1.5	I	2	F 00Y 145 726	4 014 468 033 773
-----	----	---------	-----	---	---	---------------	-------------------

TC-Fiber+Plaster – for fibre and cement materials

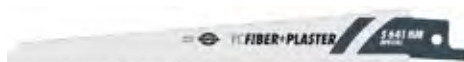
Fast cutting and long lifetime

**S 641 HM**

TC

TC-tipped, ground

Porous concrete, fibre cement, glass fibre reinforced plastic (<100 mm), for abrasive materials



4.3/6	150	19	1.25	I	2	F 00Y 144 251	4 014 468 028 625
-------	-----	----	------	---	---	---------------	-------------------

**S 1241 HM**

TC

TC-tipped, ground

Porous concrete, fibre cement (<250 mm), glass fibre reinforced plastic (<250 mm), for abrasive materials



8.5/3	300	22	1.5	I	2	F 00Y 144 253	4 014 468 028 649
-------	-----	----	-----	---	---	---------------	-------------------

**S 2041 HM**

TC

TC-tipped, ground

Porous concrete, fibre cement (<350 mm), glass fibre reinforced plastic (<150 mm), for abrasive materials



12.7/2	400	22	1.5	I	2	F 00Y 144 254	4 014 468 028 656
--------	-----	----	-----	---	---	---------------	-------------------



Lined area for notes, consisting of numerous horizontal lines.



Sets



Concrete and masonry drill bit sets

Concrete drill bits ActivePower



Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------

5-piece concrete drill bit set "ActivePower" in PowerBox

4.0	P	5	F 00Y 266 184	3 165 140 691 208
5.0				
6.0				
6.0				
8.0				



7-piece concrete drill bit set "ActivePower" in PowerBox

4.0	N	7	F 00Y 266 185	3 165 140 691 215
5.0				
5.0				
6.0				
6.0				
8.0				
10.0				

Concrete drill bits PerfectPower



Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------

5-piece concrete drill bit set "PerfectPower" in plastic case

4.0	P	5	F 00Y 202 349	4 014 468 039 744
5.0				
6.0				
8.0				
10.0				



7-piece concrete drill bit set "PerfectPower" in metal case

4.0	N	7	F 00Y 202 351	4 014 468 039 768
5.0				
6.0				
7.0				
8.0				
10.0				
12.0				

Multi-purpose drill bits MultiConstruction

Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------

4-piece multi-purpose drill bit set "MultiConstruction" in plastic case, cylindrical



4.0	P	4	F 00Y 202 366	4 014 468 039 911
5.0				
6.0				
8.0				
5.5	P	4	F 00Y 224 772	4 014 468 064 425
6.0				
7.0				
8.0				

7-piece multi-purpose drill bit set "MultiConstruction" in metal case, cylindrical



4.0	N	7	F 00Y 202 367	4 014 468 039 935
5.0				
6.0				
6.0				
8.0				
10.0				
12.0				

Set contents diameter mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------------	----------------------	----------------	---------------	-------------	----------

3-piece multi-purpose drill bit set "MultiConstruction" in plastic bag, hexagonal



5.0	50	100	C	3	F 00Y 266 295	3 165 140 800 471
6.0	60	100				
8.0	50	100				

5-piece multi-purpose drill bit set "MultiConstruction" in plastic tube, hexagonal



4.0	45	90	D	5	F 00Y 266 296	3 165 140 800 488
5.0	50	100				
6.0	60	100				
6.0	60	100				
8.0	50	100				



Sets – Tile drill bits PowerCeramics

Set contents diameter mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------------	----------------------	----------------	---------------	-------------	----------

3-piece tile drill bit set "PowerCeramics" in plastic bag

5.0	45	90	C	3 F 00Y 266 450*	3 165 140 891 950
6.0	45	90			
8.0	45	90			

5-piece tile drill bit set "PowerCeramics" in plastic tube

4.0	45	90	D	5 F 00Y 266 451*	3 165 140 891 967
5.0	45	90			
6.0	45	90			
8.0	45	90			
10.0	45	90			

* Available from 2017

Sets – Hammer drill bits Sharx

Set contents diameter mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------------	----------------------	----------------	---------------	-------------	----------

7-piece hammer drill bit set "Sharx" in PowerBox

5.0	50	115	P	7 F 00Y 266 537*	3 165 140 892 827
6.0	50	115			
6.0	50	115			
6.0	100	165			
8.0	100	165			
10.0	100	165			
12.0	100	165			

* Available from 2017

Hammer drill bits PowerLSPplus

Set contents diameter mm	Working length(s) mm	Overall length(s) mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------------	----------------------	----------------	---------------	-------------	----------

5-piece hammer drill bit set "PowerLSPplus" in PowerBox

5.0	50	110	P	5 F 00Y 265 101	3 165 140 440 967
6.0	50	115			
6.0	100	165			
8.0	100	165			
10.0	100	165			



Hammer drill bits PowerLSplus

Set contents diameter mm	Working length(s) mm	Overall length(s) mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------------	----------------------	----------------	---------------	-------------	----------

5-piece hammer drill bit set "PowerLSplus" in PowerBox



5.0	50	115	P	5	F 00Y 266 203	3 165 140 709 569
6.0	50	115				
6.0	100	165				
8.0	100	165				
10.0	100	165				
6.0	100	165	P	5	F 00Y 266 205	3 165 140 709 583
6.0	100	165				
8.0	100	165				
8.0	100	165				
10.0	100	165				



7-piece hammer drill bit set "PowerLSplus" in plastic case

5.0	50	110	N	7	F 00Y 124 389	4 014 468 003 950
6.0	50	110				
6.0	100	160				
6.0	100	165				
8.0	100	160				
8.0	100	160				
10.0	100	160				





Metal drill bit sets

Metal twist drill bits HSS-TIN, DIN 338



Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------

19-piece ProBox metal drill bit set "HSS-TIN" in plastic case

1; 1.5; 2; 2.5	P	19	F 00Y 265 820	3 165 140 647 533
3; 3.5; 4; 4.5				
5; 5.5; 6; 6.5				
7; 7.5; 8; 8.5				
9; 9.5; 10				



25-piece ProBox metal drill bit set "HSS-TIN" in plastic case

1; 1.5; 2; 2.5	P	25	F 00Y 265 824	3 165 140 647 571
3; 3.5; 4; 4.5				
5; 5.5; 6; 6.5				
7; 7.5; 8; 8.5				
9; 9.5; 10; 10.5; 11; 11.5;				
12; 12.5; 13				

Metal twist drill bits HSS-Co, DIN 338



Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------

19-piece ProBox metal drill bit set "HSS-Co" in plastic case

1; 1.5; 2; 2.5	P	19	F 00Y 265 819	3 165 140 647 526
3; 3.5; 4; 4.5				
5; 5.5; 6; 6.5				
7; 7.5; 8; 8.5				
9; 9.5; 10				

Metal twist drill bits HSS-Co, DIN 338



Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------

25-piece ProBox metal drill bit set "HSS-Co" in plastic case

1; 1.5; 2; 2.5	P	25	F 00Y 265 823	3 165 140 647 564
3; 3.5; 4; 4.5				
5; 5.5; 6; 6.5				
7; 7.5; 8; 8.5				
9; 9.5; 10; 10.5; 11;				
11.5; 12; 12.5; 13				

Metal twist drill bits HSS-G, DIN 338



Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------

19-piece ProBox metal twist drill bit set "HSS-G" in plastic case

1; 1.5; 2; 2.5	P	25	F 00Y 265 818	3 165 140 647 519
3; 3.5; 4; 4.5				
5; 5.5; 6; 6.5				
7; 7.5; 8; 8.5				
9; 9.5; 10				



25-piece ProBox metal twist drill bit set "HSS-G" in plastic case

1; 1.5; 2; 2.5	P	25	F 00Y 265 822	3 165 140 647 557
3; 3.5; 4; 4.5				
5; 5.5; 6; 6.5				
7; 7.5; 8; 8.5				
9; 9.5; 10; 10.5				
11; 11.5; 12;				
12.5; 13				





Metal twist drill bits HSS-R, similar to DIN 338



Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------

6-piece metal twist drill bit set “HSS-R” in plastic case

2	P	6	F 00Y 120 800	4 014 468 007 354
3				
4				
5				
6				
8				



19-piece ProBox metal twist drill bit set “HSS-R” in plastic case

1; 1.5; 2; 2.5	P	19	F 00Y 265 817	3 165 140 647 502
3; 3.5; 4; 4.5				
5; 5.5; 6; 6.5				
7; 7.5; 8; 8.5				
9; 9.5; 10				



25-piece ProBox metal twist drill bit set “HSS-R” in plastic case

1; 1.5; 2; 2.5	P	25	F 00Y 265 821	3 165 140 647 540
3; 3.5; 4; 4.5				
5; 5.5; 6; 6.5				
7; 7.5; 8; 8.5				
9; 9.5; 10; 10.5				
11; 11.5				
12; 12.5; 13				

Step drill bits HSS

Step diameter (range) mm	Number of steps	Step height	Overall length mm	Shank diameter	Packaging type	Pack quantity	Part number	EAN code
-----------------------------	-----------------	-------------	-------------------	----------------	----------------	---------------	-------------	----------

3-piece step drill bit set "HSS" in plastic case

4 - 12	9	4.0	-	-	Set	1	F 00Y 139 362	4 014 468 017 919
4 - 20								
6 - 30								





Wood drill bit sets

Brad point drill bits Standard

Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------



5-piece brad point drill bit set "Standard" in plastic case

4	P	5	F 00Y 104 958	4 014 468 008 085
5				
6				
8				
10				



8-piece brad point drill bit set "Standard" in plastic case

3	P	8	F 00Y 104 957	4 014 468 008 092
4				
5				
6				
7				
8				
9				
10				

Auger bits Lewis



Set contents diameter mm	Overall length(s) mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------------	----------------	---------------	-------------	----------

6-piece auger bit set "Lewis" in wooden case

10, 12, 14, 16, 18, 20	235	K	6	F 00Y 124 357	4 014 468 009 006
---------------------------	-----	---	---	---------------	-------------------

6-piece auger bit set "Lewis" in wooden case

10, 12, 14, 16, 18, 20	450	K	6	F 00Y 124 358	4 014 468 009 013
---------------------------	-----	---	---	---------------	-------------------

Spade bits SelfCut Speed



Set contents diameter mm	Overall length(s) mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------------	----------------	---------------	-------------	----------

6-piece spade bit set "SelfCut Speed" in wrap bag

14, 16, 18, 20, 22, 24	152	Q	6	F 00Y 265 102	3 165 140 441 070
---------------------------	-----	---	---	---------------	-------------------

Hinge cutting bits



Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------

5-piece hinge cutting bit set in wooden case

15	K	5	F 00Y 123 938	4 014 468 008 634
20				
25				
30				
35				





Forstner drill bits ForstnerStar



Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------

5-piece Forstner drill bit set in wooden case

15	K	5	F 00Y 266 441	3 165 140 890 885
20				
25				
20				
35				



Holesaw sets

Holesaws HSS bi-metal Progressor

Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------



8-piece holesaw set "HSS bi-metal Progressor",
including Power-Change adapter, HSS-Co pilot drill bit

22	T	8	F 00Y 227 682	4 014 468 066 863
29				
35				
44				
51				
64				



11-piece holesaw set "HSS bi-metal Progressor",
including 8 holesaws, 1 Power-Change adapter, 2 HSS-Co pilot drill bits

25	T	11	F 00Y 265 348	3 165 140 538 572
32				
40				
54				
60				
68				
76				
86				



13-piece holesaw set "HSS bi-metal Progressor",
including Power-Change adapter, HSS-Co pilot drill bit

19	T	13	F 00Y 227 683	4 014 468 066 870
22				
25				
29				
35				
38				
44				
51				
57				
64				
76				





Holesaws HSS bi-metal

Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------	---------------	-------------	----------



8-piece plumber set, including 2 shanks, centrifugal spring

19	T	8	F 00Y 130 072	4 014 468 009 686
25				
32				
38				
51				



9-piece electrician set, including 2 shanks, centrifugal spring

19	T	9	F 00Y 130 070	4 014 468 009 679
22				
35				
68				
70				
76				



9-piece standard set, including 2 shanks, centrifugal spring

19	T	9	F 00Y 118 352	4 014 468 009 662
25				
38				
48				
68				
83				

Chisel sets

SDS-plus shank

**3-piece chisel set SDS-plus Standard**

1 pointed chisel, 1 flat chisel, 1 spade chisel

140	-	A1	3	F 00Y 265 767	3 165 140 621 205
-----	---	----	---	---------------	-------------------

4-piece chisel set SDS-plus Long life

1 pointed chisel, 2 flat chisels, 1 spade chisel

250	-	D	4	F 00Y 227 977	4 014 468 067 211
-----	---	---	---	---------------	-------------------

SDS-max shank

**4-piece chisel set SDS-max**

1 pointed chisel RTec, 2 flat chisels RTec, 1 spade chisel

400	-	D	4	F 00Y 228 054	4 014 468 067 228
-----	---	---	---	---------------	-------------------

**4-piece chisel set SDS-max, self-sharpening**

2 pointed chisels RTec Speed, 2 flat chisels RTec Sharp

400	-	D	4	F 00Y 266 417	3 165 140 846 929
-----	---	---	---	---------------	-------------------





Diamond drill bit sets

Diamond wet drill bits XH Ceramics



Set contents diameter mm	Working length(s) mm	Overall length(s) mm	Packaging type	Pack quantity	Part number	EAN code
--------------------------	----------------------	----------------------	----------------	---------------	-------------	----------

4-piece diamond wet drill bit set "XH Ceramics" in the PowerBox

6.0	35	65	P	4	F 00Y 265 228	3 165 140 495 905
8.0						
10.0						
14.0						

Set – Diamond dry drill bits EasyCeramics



Diameter mm	Working length	Packaging type	Pack quantity	Part number	EAN code
-------------	----------------	----------------	---------------	-------------	----------

3-piece diamond dry drill bit set "EasyCeramics" in the PowerBox

6, 8, 10	33	P	3	F 00Y 265 676	3 165 140 585 972
----------	----	---	---	---------------	-------------------

Set – Diamond dry drill bits SpeedCeramics



Diameter mm	Working length	Packaging type	Pack quantity	Part number	EAN code
-------------	----------------	----------------	---------------	-------------	----------

3-piece diamond dry drill bit set "SpeedCeramics"; Including 19-mm spanner

14, 25, 35	30, 35	T	3	F 00Y 265 667	3 165 140 585 880
------------	--------	---	---	---------------	-------------------



4-piece diamond dry drill bit set "SpeedCeramics"; Including 19-mm spanner

25, 35, 45, 51	35	T	1	F 00Y 265 668	3 165 140 585 897
----------------	----	---	---	---------------	-------------------





Screwdriver bit sets

Extra Hard screwdriver bits

Set contents	Set size	Length mm	Packaging type	Pack quantity	Part number	EAN code
--------------	----------	-----------	----------------	---------------	-------------	----------



8+1-piece screwdriver bit set “Extra-Hard: Phillips, Pozidriv” in PowerBox

+	PH1 (1x)	9	25	P	9	F 00Y 265 200	3 165 140 490 238
	PH2 (2x)						
	PH3 (1x)						
*	PZ1 (1x)						
	PZ2 (2x)						
	PZ3 (1x)						
	Bit holder (1x)						



8+1-piece screwdriver bit set “Extra Hard: Torx” in PowerBox

*	T10 (1x)	9	25	P	9	F 00Y 265 201	3 165 140 490 245
	T15 (1x)						
	T20 (2x)						
	T25 (1x)						
	T27 (1x)						
	T30 (1x)						
	T40 (1x)						
	Bit holder (1x)						



Modules



Hawera concrete and masonry drill bit modules

Hammer drill bit Sharx

Basic equipment:
75 drill bits

Module size:
H: 62 cm
W: 33 cm
D: 40 cm

Part number:
F 00Y 266 538*

EAN code
3 165 140 893 077

* Available from 2017

Module content	Diameter mm	Overall length mm	Quantity
266452	5.0	115	10
266464	6.0	115	15
266465	6.0	165	15
266466	6.0	215	5
266479	8.0	165	10
266480	8.0	215	5
266488	10.0	165	5
266489	10.0	215	5
266498	12.0	215	5

Hammer drill bits PowerLSplus

Basic equipment:
121 drill bits

Module size:
H: 62 cm
W: 33 cm
D: 40 cm

Part number:
F 00Y 145 737

EAN code
4 014 468 069 598

Module content	Diameter mm	Overall length mm	Quantity	Module content	Diameter mm	Overall length mm	Quantity
101 471	5.0	110	10	104 624	12.0	210	3
101 472	5.0	160	5	101 491	12.0	260	3
101 474	6.0	110	15	104 633	12.0	460	3
101 475	6.0	160	15	101 494	14.0	160	5
136 246	6.0	210	3	104 625	14.0	210	3
101 481	8.0	160	15	104 294	16.0	210	2
101 482	8.0	210	5	104 629	16.0	460	2
104 620	8.0	260	3	104 279	18.0	200	2
101 485	10.0	160	10	104 282	20.0	200	2
104 621	10.0	210	5	104 634	20.0	450	2
101 486	10.0	260	3				
101 490	12.0	160	5				

Concrete drill bits – PerfectPower

Basic equipment:

165 drill bits

Module size:

H: 62 cm

W: 33 cm

D: 40 cm

Part number:

F 00Y 202 915

EAN code

4 014 468 069 772

Module content	Diameter mm	Overall length mm	Quantity	Module content	Diameter mm	Overall length mm	Quantity
201 979	3.0	70	10	202 020	16.0	160	3
201 981	4.0	75	15	202 021	16.0	400	3
201 985	5.0	85	15	202 023	18.0	160	3
201 991	6.0	100	30	202 024	18.0	400	2
201 993	6.0	150	10	202 026	20.0	160	3
201 999	8.0	120	20				
202 000	8.0	200	5				
202 001	8.0	400	5				
202 003	10.0	120	10				
202 004	10.0	200	5				
202 006	10.0	400	5				
202 009	12.0	150	5				
202 010	12.0	200	3				
202 012	12.0	400	5				
202 015	14.0	150	5				
202 017	14.0	400	3				

Concrete drill bits – BasicPower

Basic equipment:

162 drill bits

Module size:

H: 62 cm

W: 33 cm

D: 40 cm

Part number:

F 00Y 202 918

EAN code

4 014 468 069 789

Module content	Diameter mm	Overall length mm	Quantity	Module content	Diameter mm	Overall length mm	Quantity
104 387	3.0	60	10	104 368	16.0	150	3
104 360	4.0	75	10	140 469	16.0	400	2
104 361	5.0	85	10	104 374	18.0	160	3
104 362	6.0	100	30	104 386	20.0	160	5
138 369	6.0	150	10				
104 364	8.0	120	30				
141 256	8.0	200	5				
140 461	8.0	400	5				
104 365	10.0	120	10				
141 257	10.0	200	5				
140 463	10.0	400	5				
104 366	12.0	150	5				
141 296	12.0	200	3				
140 465	12.0	400	3				
104 367	14.0	150	5				
140 467	14.0	400	3				





Multi-purpose drill bits – MultiConstruction

Basic equipment:
90 single drill bits; 5 drill bit sets

Module size:
H: 62 cm
W: 33 cm
D: 40 cm

Part number:
F 00Y 226 065

EAN code
4 014 468 069 871

Module content	Product type	Diameter mm	Overall length mm	Quantity
202 053	-	3.0	70	5
202 054	-	4.0	75	10
202 055	-	5.0	85	10
202 057	-	6.0	100	20
202 058	-	6.0	150	5
202 063	-	8.0	120	10
202 064	-	8.0	250	5
202 066	-	10.0	120	10
202 067	-	10.0	250	5
202 069	-	12.0	150	5
202 070	-	12.0	250	3
202 071	-	14.0	250	2
202 366	4-piece set	-	-	5





Hawera metal drill bit modules

Metal twist drill bits – HSS-R, similar to DIN 338

Basic equipment:

590 drill bits

Module size:

H: 32.3 cm

B: 37.5 cm

T: 17.5 cm

Part number:

F 00Y 141 272

EAN code

4 014 468 069 581

Module content	Diameter mm	Overall length mm	Quantity	Module content	Diameter mm	Overall length mm	Quantity
241 067	1.0	34	5	241 090	9.5	125	2
241 068	1.5	40	5	241 091	10.0	133	2
241 069	2.0	49	5	241 309	10.2	133	2
241 070	2.5	57	4	241 092	10.5	133	2
241 071	3.0	61	3	241 093	11.0	142	2
241 100	3.3	65	3	241 094	11.5	142	2
241 074	3.5	70	3	241 095	12.0	151	2
241 075	4.0	75	3	241 096	12.5	151	2
241 077	4.2	75	3	241 097	13.0	151	2
241 078	4.5	80	3				
241 079	5.0	86	3				
241 082	5.5	93	2				
241 083	6.0	93	1				
241 084	6.5	101	1				
241 287	6.8	109	1				
241 085	7.0	109	1				
241 086	7.5	109	1				
241 087	8.0	117	2				
241 088	8.5	117	2				
241 089	9.0	125	2				



Metal twist drill bits – HSS-R, similar to DIN 338

Basic equipment:
265 drill bits

Module size:
H: 62 cm
W: 33 cm
D: 40 cm

Part number:
F 00Y 145 749

EAN code
4 014 468 069 697

Module content	Diameter mm	Overall length mm	Quantity	Module content	Diameter mm	Overall length mm	Quantity
241 155	1.0	34	10	241 183	9.0	125	5
241 156	1.5	40	10	241 184	9.5	125	5
241 157	2.0	49	20	241 185	10.0	133	5
241 158	2.5	57	20	241 193	10.2	133	3
241 159	3.0	61	20	241 186	10.5	133	3
241 161	3.2	65	10	241 187	11.0	142	3
241 162	3.3	65	10	241 189	12.0	151	3
241 164	3.5	70	10	241 191	13.0	151	3
241 166	4.0	75	20				
241 168	4.2	75	10				
241 169	4.5	80	10				
132 868	4.8	86	10				
241 172	5.0	86	20				
241 175	5.5	93	10				
241 176	6.0	93	10				
241 177	6.5	101	10				
241 192	6.8	109	5				
241 178	7.0	109	10				
241 180	8.0	117	5				
241 182	8.5	117	5				





Hawera wood drill bit modules

Brad point drill bits – Standard

Basic equipment:

136 drill bits

Module size:

H: 62 cm

W: 33 cm

D: 40 cm

Part number:

F 00Y 145 756

EAN code

4 014 468 069 710

Module content	Diameter mm	Overall length mm	Quantity	Module content	Diameter mm	Overall length mm	Quantity
105 810	3.0	61	10	105 822	15.0	160	5
105 811	4.0	75	10	105 823	16.0	160	5
105 812	5.0	86	10	138 261	16.0	240	3
105 813	6.0	93	10	105 824	18.0	180	3
138 256	6.0	240	5	138 262	18.0	260	3
105 814	7.0	109	5	105 825	20.0	200	3
105 815	8.0	117	10	105 742	22.0	210	3
138 257	8.0	240	5				
105 816	9.0	120	5				
105 817	10.0	120	10				
138 258	10.0	240	5				
105 819	12.0	151	8				
138 259	12.0	240	5				
105 820	13.0	151	5				
105 821	14.0	151	5				
138 260	14.0	240	3				



Hawera jigsaw and sabre saw blade modules

Jigsaw blades T-single lug shank

Basic equipment:
145 jigsaw cards

Module size:
H: 62 cm
W: 66 cm
D: 40 cm

Part number:
F 00Y 145 777

EAN code
4 014 468 069 734

240 526	Metal - HSS-Basic	0.7	67	5
240 523	Metal - HSS-Basic	1.1 - 1.5	67	10
240 527	Metal - HSS-Basic	1.2	106	5
240 525	Metal - HSS-Basic	1.9 - 2.3	67	5
240 503	Metal - BIM-Flexible	1.1 - 1.5	67	5
145 703	Metal - HSS-Fast	1.2 - 2.6	74	5
144 212	Wood - HCS-Basic	1.9 - 2.3	67	5
240 531	Wood - HCS-Basic	2.0	56	5
240 517	Wood - HCS-Basic	3.0	74	10
202 436	Wood - HCS-Fast	2.0 - 3.0	91	5
144 214	Wood - HCS-Fast	4.0	126	5
240 521	Wood - HCS-Fast	4.0 - 5.2	74	10
240 520	Wood - HCS-Fast	4.0 - 5.2	74	10
240 502	Wood - HCS-Clean	1.4	56	5
240 545	Wood - HCS-Clean	2.5	74	10
240 515	Wood - HCS-Clean	2.7	74	10

240 514	Wood - HCS-Clean	3.0	91	10
240 516	Wood - HCS-Clean	4.0 - 5.2	74	10
240 512	Hard Wood - BIM-Clean	2.7	74	5
145 704	Allround - BIM-Fast	2.4 - 5.0	106	5
240 528	Alu - HSS-Fast	3.0	74	5

Part number index

Part number	Page	Part number	Page	Part number	Page	Part number	Page
F 00Y 000 100	185	F 00Y 102 337	82	F 00Y 104 839	99	F 00Y 105 810	88
F 00Y 000 101	185	F 00Y 102 338	82	F 00Y 104 840	99	F 00Y 105 811	88
F 00Y 000 109	185	F 00Y 102 339	82	F 00Y 104 841	99	F 00Y 105 812	88
F 00Y 000 111	185	F 00Y 102 340	82	F 00Y 104 889	98	F 00Y 105 813	88
F 00Y 000 113	185	F 00Y 102 341	82	F 00Y 104 890	98	F 00Y 105 814	88
F 00Y 000 117	185	F 00Y 102 342	82	F 00Y 104 891	98	F 00Y 105 815	88
F 00Y 000 119	185	F 00Y 104 271	24	F 00Y 104 892	98	F 00Y 105 816	88
F 00Y 000 120	185	F 00Y 104 272	24	F 00Y 104 893	98	F 00Y 105 817	88
F 00Y 000 125	185	F 00Y 104 276	24	F 00Y 104 894	98	F 00Y 105 818	88
F 00Y 000 128	185	F 00Y 104 279	24	F 00Y 104 895	98	F 00Y 105 819	88
F 00Y 000 132	185	F 00Y 104 280	24	F 00Y 104 896	95	F 00Y 105 820	88
F 00Y 000 135	185	F 00Y 104 282	24	F 00Y 104 897	95	F 00Y 105 821	88
F 00Y 000 137	185	F 00Y 104 284	24	F 00Y 104 898	95	F 00Y 105 822	88
F 00Y 000 138	185	F 00Y 104 285	24	F 00Y 104 899	95	F 00Y 105 823	88
F 00Y 000 153	185	F 00Y 104 288	24	F 00Y 104 900	95	F 00Y 105 824	88
F 00Y 001 181	180	F 00Y 104 289	24	F 00Y 104 901	95	F 00Y 105 825	88
F 00Y 001 183	180	F 00Y 104 290	24	F 00Y 104 902	95	F 00Y 108 038	185
F 00Y 001 185	180	F 00Y 104 291	24	F 00Y 104 903	95	F 00Y 108 039	185
F 00Y 001 189	180	F 00Y 104 292	24	F 00Y 104 904	95	F 00Y 111 155	185
F 00Y 001 218	180	F 00Y 104 293	24	F 00Y 104 910	96	F 00Y 111 157	185
F 00Y 001 219	180	F 00Y 104 294	24	F 00Y 104 911	96	F 00Y 111 159	185
F 00Y 001 222	180	F 00Y 104 300	24	F 00Y 104 912	96	F 00Y 118 002	118
F 00Y 001 225	180	F 00Y 104 303	24	F 00Y 104 913	96	F 00Y 118 003	118
F 00Y 001 226	180	F 00Y 104 304	24	F 00Y 104 914	96	F 00Y 118 004	118
F 00Y 019 254	185	F 00Y 104 305	24	F 00Y 104 915	96	F 00Y 118 005	118
F 00Y 101 470	23	F 00Y 104 360	47	F 00Y 104 916	96	F 00Y 118 321	118
F 00Y 101 471	23	F 00Y 104 361	47	F 00Y 104 917	96	F 00Y 118 322	118
F 00Y 101 472	23	F 00Y 104 362	47	F 00Y 104 918	96	F 00Y 118 323	118
F 00Y 101 473	23	F 00Y 104 363	47	F 00Y 104 919	96	F 00Y 118 324	118
F 00Y 101 474	24	F 00Y 104 364	47	F 00Y 104 920	96	F 00Y 118 325	118
F 00Y 101 475	24	F 00Y 104 365	47	F 00Y 104 921	96	F 00Y 118 326	118
F 00Y 101 476	24	F 00Y 104 366	47	F 00Y 104 941	101	F 00Y 118 327	118
F 00Y 101 477	24	F 00Y 104 367	47	F 00Y 104 942	101	F 00Y 118 328	118
F 00Y 101 478	24	F 00Y 104 368	47	F 00Y 104 943	101	F 00Y 118 329	118
F 00Y 101 479	24	F 00Y 104 369	47	F 00Y 104 944	101	F 00Y 118 330	118
F 00Y 101 480	24	F 00Y 104 370	47	F 00Y 104 957	89, 234	F 00Y 118 331	118
F 00Y 101 481	24	F 00Y 104 387	47	F 00Y 104 958	89, 234	F 00Y 118 332	118
F 00Y 101 482	24	F 00Y 104 620	24	F 00Y 104 959	100	F 00Y 118 333	118
F 00Y 101 483	24	F 00Y 104 621	24	F 00Y 104 960	100	F 00Y 118 334	118
F 00Y 101 484	24	F 00Y 104 623	24	F 00Y 104 961	100	F 00Y 118 335	118
F 00Y 101 485	24	F 00Y 104 624	24	F 00Y 104 962	100	F 00Y 118 336	118
F 00Y 101 486	24	F 00Y 104 625	24	F 00Y 104 963	100	F 00Y 118 337	118
F 00Y 101 487	24	F 00Y 104 626	24	F 00Y 104 964	100	F 00Y 118 338	118
F 00Y 101 488	24	F 00Y 104 627	24	F 00Y 104 965	100	F 00Y 118 339	118
F 00Y 101 489	24	F 00Y 104 629	24	F 00Y 104 966	100	F 00Y 118 340	118
F 00Y 101 490	24	F 00Y 104 630	24	F 00Y 104 970	100	F 00Y 118 341	118
F 00Y 101 491	24	F 00Y 104 631	24	F 00Y 104 971	100	F 00Y 118 342	118
F 00Y 101 492	24	F 00Y 104 632	24	F 00Y 104 972	100	F 00Y 118 343	118
F 00Y 101 494	24	F 00Y 104 633	24	F 00Y 104 973	100	F 00Y 118 344	118
F 00Y 101 495	24	F 00Y 104 634	24	F 00Y 105 742	88	F 00Y 118 345	118
F 00Y 101 496	24	F 00Y 104 635	24	F 00Y 105 743	88	F 00Y 118 346	118
F 00Y 101 497	24	F 00Y 104 836	99	F 00Y 105 744	88	F 00Y 118 347	121
F 00Y 102 335	82	F 00Y 104 837	99	F 00Y 105 745	88	F 00Y 118 348	121
F 00Y 102 336	82	F 00Y 104 838	99	F 00Y 105 746	88	F 00Y 118 349	121



Part number index

Part number	Page	Part number	Page	Part number	Page	Part number	Page
F 00Y 118 351	121	F 00Y 124 073	91	F 00Y 124 675	174	F 00Y 136 980	25
F 00Y 118 352	120, 238	F 00Y 124 074	91	F 00Y 124 676	174	F 00Y 136 981	25
F 00Y 118 354	118	F 00Y 124 075	91	F 00Y 124 677	175	F 00Y 136 982	25
F 00Y 118 356	118	F 00Y 124 076	91	F 00Y 124 678	175	F 00Y 136 984	26
F 00Y 118 920	118	F 00Y 124 077	91	F 00Y 124 679	174	F 00Y 136 985	26
F 00Y 120 150	124	F 00Y 124 078	91	F 00Y 124 683	174	F 00Y 136 986	26
F 00Y 120 151	124	F 00Y 124 080	90	F 00Y 124 684	174	F 00Y 136 987	26
F 00Y 120 800	76, 232	F 00Y 124 081	90	F 00Y 124 688	174	F 00Y 136 988	26
F 00Y 121 600	214	F 00Y 124 082	90	F 00Y 124 690	174	F 00Y 136 989	26
F 00Y 121 601	215	F 00Y 124 083	91	F 00Y 124 700	182	F 00Y 137 053	129
F 00Y 121 611	214	F 00Y 124 084	91	F 00Y 124 701	182	F 00Y 137 078	158
F 00Y 121 612	216	F 00Y 124 085	91	F 00Y 124 702	182	F 00Y 137 079	158
F 00Y 121 613	217	F 00Y 124 086	91	F 00Y 124 703	182	F 00Y 137 235	24
F 00Y 123 004	79	F 00Y 124 087	91	F 00Y 124 704	182	F 00Y 137 806	26
F 00Y 123 005	79	F 00Y 124 088	91	F 00Y 124 705	182	F 00Y 137 931	24
F 00Y 123 006	79	F 00Y 124 095	179	F 00Y 124 706	179	F 00Y 138 071	24
F 00Y 123 007	79	F 00Y 124 096	179	F 00Y 124 719	179	F 00Y 138 072	24
F 00Y 123 012	80	F 00Y 124 099	175	F 00Y 124 721	179	F 00Y 138 073	24
F 00Y 123 013	80	F 00Y 124 297	182	F 00Y 124 724	179	F 00Y 138 074	24
F 00Y 123 014	80	F 00Y 124 357	91, 235	F 00Y 124 730	175	F 00Y 138 075	24
F 00Y 123 015	80	F 00Y 124 358	91, 235	F 00Y 124 740	180	F 00Y 138 076	24
F 00Y 123 482	79	F 00Y 124 390	65	F 00Y 124 741	180	F 00Y 138 226	118
F 00Y 123 483	79	F 00Y 124 391	65	F 00Y 124 742	180	F 00Y 138 228	118
F 00Y 123 484	79	F 00Y 124 392	65	F 00Y 124 743	180	F 00Y 138 229	118
F 00Y 123 485	79	F 00Y 124 393	65	F 00Y 124 744	180	F 00Y 138 230	118
F 00Y 123 691	81	F 00Y 124 394	65	F 00Y 124 779	174	F 00Y 138 231	118
F 00Y 123 692	81	F 00Y 124 396	65	F 00Y 124 784	174	F 00Y 138 232	118
F 00Y 123 693	81	F 00Y 124 397	65	F 00Y 124 785	174	F 00Y 138 256	89
F 00Y 123 695	79	F 00Y 124 398	65	F 00Y 124 787	174	F 00Y 138 257	89
F 00Y 123 696	79	F 00Y 124 399	65	F 00Y 124 788	175	F 00Y 138 258	89
F 00Y 123 698	79	F 00Y 124 400	65	F 00Y 124 789	174	F 00Y 138 259	89
F 00Y 123 930	100	F 00Y 124 401	65	F 00Y 124 790	174	F 00Y 138 260	89
F 00Y 123 931	100	F 00Y 124 402	65	F 00Y 124 792	175	F 00Y 138 261	89
F 00Y 123 932	100	F 00Y 124 403	65	F 00Y 124 793	173	F 00Y 138 262	89
F 00Y 123 933	100	F 00Y 124 404	65	F 00Y 124 794	172	F 00Y 138 263	89
F 00Y 123 934	100	F 00Y 124 405	65	F 00Y 124 795	172	F 00Y 138 276	176
F 00Y 123 935	100	F 00Y 124 406	65	F 00Y 124 796	173	F 00Y 138 337	24
F 00Y 123 936	100	F 00Y 124 407	65	F 00Y 124 797	173	F 00Y 138 338	24
F 00Y 123 937	100	F 00Y 124 563	29	F 00Y 124 798	172	F 00Y 138 340	24
F 00Y 123 938	100, 235	F 00Y 124 564	29	F 00Y 130 070	120, 238	F 00Y 138 341	24
F 00Y 123 976	99	F 00Y 124 565	29	F 00Y 130 072	120, 238	F 00Y 138 369	47
F 00Y 123 977	99	F 00Y 124 566	29	F 00Y 132 430	24	F 00Y 138 473	25
F 00Y 123 978	99	F 00Y 124 567	29	F 00Y 132 868	74	F 00Y 138 552	24
F 00Y 123 979	99	F 00Y 124 568	29	F 00Y 133 995	24	F 00Y 138 555	24
F 00Y 124 063	185	F 00Y 124 569	29	F 00Y 133 996	24	F 00Y 139 360	81
F 00Y 124 064	185	F 00Y 124 570	29	F 00Y 135 682	185	F 00Y 139 362	81
F 00Y 124 065	90	F 00Y 124 571	29	F 00Y 135 683	185	F 00Y 139 363	80
F 00Y 124 066	90	F 00Y 124 572	29	F 00Y 135 684	199	F 00Y 139 693	33
F 00Y 124 067	90	F 00Y 124 621	123	F 00Y 135 685	199	F 00Y 139 694	33
F 00Y 124 068	90	F 00Y 124 667	174	F 00Y 135 686	197	F 00Y 139 695	33
F 00Y 124 069	91	F 00Y 124 669	174	F 00Y 135 687	198	F 00Y 139 696	33
F 00Y 124 070	91	F 00Y 124 671	174	F 00Y 135 689	198	F 00Y 139 697	33
F 00Y 124 071	91	F 00Y 124 673	174	F 00Y 136 246	24	F 00Y 139 698	33
F 00Y 124 072	91	F 00Y 124 674	174	F 00Y 136 979	25	F 00Y 139 699	33



Part number index

Part number	Page	Part number	Page	Part number	Page	Part number	Page
F 00Y 139 700	33	F 00Y 142 592	118	F 00Y 144 865	194	F 00Y 145 157	64
F 00Y 139 728	130	F 00Y 142 593	118	F 00Y 144 870	199	F 00Y 145 159	64
F 00Y 139 730	130	F 00Y 142 594	118	F 00Y 144 871	198	F 00Y 145 160	64
F 00Y 139 731	130	F 00Y 142 595	118	F 00Y 144 872	198	F 00Y 145 161	64
F 00Y 139 733	130	F 00Y 142 596	118	F 00Y 144 874	192	F 00Y 145 162	64
F 00Y 139 734	131	F 00Y 142 597	118	F 00Y 145 050	121	F 00Y 145 163	65
F 00Y 139 736	131	F 00Y 142 598	118	F 00Y 145 051	121	F 00Y 145 164	65
F 00Y 139 737	131	F 00Y 142 599	118	F 00Y 145 089	62	F 00Y 145 165	65
F 00Y 139 738	131	F 00Y 142 600	118	F 00Y 145 091	62	F 00Y 145 167	65
F 00Y 139 765	34	F 00Y 142 650	90	F 00Y 145 092	62	F 00Y 145 168	65
F 00Y 139 806	23	F 00Y 142 651	91	F 00Y 145 093	62	F 00Y 145 169	65
F 00Y 140 461	47	F 00Y 142 652	91	F 00Y 145 094	62	F 00Y 145 170	65
F 00Y 140 463	47	F 00Y 142 653	91	F 00Y 145 096	62	F 00Y 145 171	65
F 00Y 140 465	47	F 00Y 142 654	91	F 00Y 145 097	62	F 00Y 145 172	65
F 00Y 140 975	24	F 00Y 142 655	91	F 00Y 145 098	62	F 00Y 145 173	65
F 00Y 140 976	24	F 00Y 142 656	91	F 00Y 145 101	62	F 00Y 145 174	65
F 00Y 141 256	47	F 00Y 142 657	91	F 00Y 145 102	62	F 00Y 145 175	65
F 00Y 141 257	47	F 00Y 142 658	80	F 00Y 145 103	63	F 00Y 145 176	65
F 00Y 141 272	247	F 00Y 142 679	26	F 00Y 145 105	63	F 00Y 145 177	65
F 00Y 141 292	122	F 00Y 142 680	26	F 00Y 145 106	63	F 00Y 145 178	65
F 00Y 141 293	122	F 00Y 142 681	26	F 00Y 145 107	63	F 00Y 145 179	65
F 00Y 141 295	47	F 00Y 142 682	26	F 00Y 145 108	63	F 00Y 145 180	65
F 00Y 141 296	47	F 00Y 142 756	131	F 00Y 145 109	63	F 00Y 145 181	65
F 00Y 141 317	30	F 00Y 142 757	131	F 00Y 145 111	63	F 00Y 145 182	65
F 00Y 141 318	30	F 00Y 143 132	24	F 00Y 145 114	63	F 00Y 145 183	65
F 00Y 141 353	101	F 00Y 143 134	24	F 00Y 145 116	63	F 00Y 145 184	65
F 00Y 141 354	101	F 00Y 143 186	23	F 00Y 145 118	63	F 00Y 145 185	65
F 00Y 141 355	101	F 00Y 143 624	73	F 00Y 145 127	80	F 00Y 145 186	65
F 00Y 141 356	101	F 00Y 143 625	74	F 00Y 145 128	80	F 00Y 145 187	65
F 00Y 141 357	101	F 00Y 143 626	74	F 00Y 145 131	71	F 00Y 145 218	71
F 00Y 141 358	100	F 00Y 144 000	24	F 00Y 145 132	71	F 00Y 145 241	174
F 00Y 141 359	90	F 00Y 144 212	197	F 00Y 145 133	71	F 00Y 145 288	129
F 00Y 141 360	96	F 00Y 144 214	198	F 00Y 145 134	71	F 00Y 145 300	65
F 00Y 141 361	96	F 00Y 144 215	201	F 00Y 145 135	71	F 00Y 145 570	37
F 00Y 141 362	96	F 00Y 144 220	201	F 00Y 145 136	71	F 00Y 145 571	37
F 00Y 141 363	96	F 00Y 144 225	194	F 00Y 145 137	71	F 00Y 145 572	37
F 00Y 141 364	96	F 00Y 144 230	204	F 00Y 145 138	71	F 00Y 145 573	37
F 00Y 141 365	96	F 00Y 144 234	216	F 00Y 145 139	71	F 00Y 145 574	37
F 00Y 141 366	96	F 00Y 144 236	217	F 00Y 145 140	71	F 00Y 145 575	37
F 00Y 141 367	96	F 00Y 144 239	210	F 00Y 145 141	71	F 00Y 145 576	37
F 00Y 141 939	24	F 00Y 144 242	210	F 00Y 145 142	71	F 00Y 145 577	37
F 00Y 141 941	24	F 00Y 144 243	210	F 00Y 145 143	71	F 00Y 145 578	37
F 00Y 141 943	24	F 00Y 144 245	210	F 00Y 145 144	71	F 00Y 145 703	194
F 00Y 142 455	30, 158	F 00Y 144 246	211	F 00Y 145 145	71	F 00Y 145 704	203
F 00Y 142 458	30	F 00Y 144 249	216	F 00Y 145 146	71	F 00Y 145 705	37
F 00Y 142 459	30, 158	F 00Y 144 250	209, 213	F 00Y 145 147	71	F 00Y 145 706	37
F 00Y 142 460	30	F 00Y 144 251	209, 223	F 00Y 145 148	71	F 00Y 145 724	212
F 00Y 142 461	30	F 00Y 144 253	209, 223	F 00Y 145 150	71	F 00Y 145 726	209, 223
F 00Y 142 462	30	F 00Y 144 254	209, 223	F 00Y 145 151	71	F 00Y 145 737	244
F 00Y 142 463	30, 158	F 00Y 144 273	24	F 00Y 145 152	71	F 00Y 145 749	248
F 00Y 142 464	30	F 00Y 144 859	201	F 00Y 145 153	64	F 00Y 145 755	67
F 00Y 142 589	101	F 00Y 144 862	192	F 00Y 145 154	64	F 00Y 145 756	249
F 00Y 142 590	118	F 00Y 144 863	195	F 00Y 145 155	64	F 00Y 145 757	67
F 00Y 142 591	118	F 00Y 144 864	193	F 00Y 145 156	64	F 00Y 145 760	67



Part number index

Part number	Page	Part number	Page	Part number	Page	Part number	Page
F 00Y 145 762	67	F 00Y 145 848	69	F 00Y 202 015	44	F 00Y 202 831	211
F 00Y 145 764	67	F 00Y 145 851	69	F 00Y 202 016	44	F 00Y 202 833	216
F 00Y 145 765	67	F 00Y 145 852	69	F 00Y 202 017	44	F 00Y 202 868	24
F 00Y 145 773	67	F 00Y 145 853	69	F 00Y 202 020	44	F 00Y 202 915	245
F 00Y 145 775	67	F 00Y 145 854	69	F 00Y 202 021	44	F 00Y 202 918	245
F 00Y 145 776	67	F 00Y 145 855	69	F 00Y 202 023	44	F 00Y 203 262	23
F 00Y 145 777	250	F 00Y 145 858	69	F 00Y 202 024	44	F 00Y 203 263	23
F 00Y 145 778	67	F 00Y 145 863	69	F 00Y 202 026	44	F 00Y 203 438	44
F 00Y 145 779	68	F 00Y 145 864	69	F 00Y 202 033	44	F 00Y 203 439	44
F 00Y 145 781	68	F 00Y 145 865	69	F 00Y 202 053	48	F 00Y 205 378	177
F 00Y 145 782	68	F 00Y 145 868	69	F 00Y 202 054	48	F 00Y 205 379	177
F 00Y 145 784	68	F 00Y 145 871	69	F 00Y 202 055	48	F 00Y 205 380	177
F 00Y 145 785	68	F 00Y 145 873	69	F 00Y 202 056	48	F 00Y 205 384	177
F 00Y 145 786	68	F 00Y 145 878	69	F 00Y 202 057	48	F 00Y 205 386	177
F 00Y 145 787	68	F 00Y 145 883	69	F 00Y 202 058	48	F 00Y 205 387	177
F 00Y 145 788	68	F 00Y 145 885	69	F 00Y 202 059	48	F 00Y 205 390	178
F 00Y 145 789	68	F 00Y 145 888	69	F 00Y 202 060	48	F 00Y 205 391	178
F 00Y 145 790	68	F 00Y 145 893	69	F 00Y 202 061	48	F 00Y 205 392	177
F 00Y 145 791	68	F 00Y 145 898	69	F 00Y 202 063	48	F 00Y 205 393	177
F 00Y 145 792	68	F 00Y 145 903	69	F 00Y 202 064	48	F 00Y 205 394	177
F 00Y 145 793	68	F 00Y 145 904	69	F 00Y 202 065	48	F 00Y 205 395	177
F 00Y 145 794	68	F 00Y 145 907	69	F 00Y 202 066	48	F 00Y 205 396	177
F 00Y 145 795	68	F 00Y 145 909	68	F 00Y 202 067	48	F 00Y 205 398	177
F 00Y 145 796	68	F 00Y 145 911	68	F 00Y 202 068	48	F 00Y 205 399	177
F 00Y 145 797	68	F 00Y 145 935	65	F 00Y 202 069	49	F 00Y 205 400	177
F 00Y 145 798	68	F 00Y 160 730	179	F 00Y 202 070	49	F 00Y 205 401	177
F 00Y 145 799	68	F 00Y 160 905	176	F 00Y 202 071	49	F 00Y 205 402	177
F 00Y 145 800	68	F 00Y 160 909	176	F 00Y 202 294	91	F 00Y 205 403	177
F 00Y 145 801	68	F 00Y 201 979	44	F 00Y 202 295	91	F 00Y 205 404	177
F 00Y 145 802	68	F 00Y 201 981	44	F 00Y 202 296	91	F 00Y 205 405	178
F 00Y 145 803	68	F 00Y 201 983	44	F 00Y 202 297	91	F 00Y 205 406	178
F 00Y 145 811	68	F 00Y 201 985	44	F 00Y 202 315	121	F 00Y 205 407	178
F 00Y 145 813	68	F 00Y 201 986	44	F 00Y 202 333	45	F 00Y 205 408	178
F 00Y 145 816	68	F 00Y 201 988	44	F 00Y 202 334	45	F 00Y 205 409	178
F 00Y 145 818	68	F 00Y 201 991	44	F 00Y 202 335	45	F 00Y 205 410	178
F 00Y 145 821	68	F 00Y 201 993	44	F 00Y 202 336	45	F 00Y 205 411	177
F 00Y 145 822	68	F 00Y 201 994	44	F 00Y 202 337	45	F 00Y 205 412	177
F 00Y 145 823	68	F 00Y 201 997	44	F 00Y 202 338	45	F 00Y 205 413	177
F 00Y 145 825	68	F 00Y 201 999	44	F 00Y 202 349	46, 226	F 00Y 205 415	178
F 00Y 145 826	68	F 00Y 202 000	44	F 00Y 202 351	46, 226	F 00Y 205 416	177
F 00Y 145 828	68	F 00Y 202 001	44	F 00Y 202 366	50, 227	F 00Y 205 417	178
F 00Y 145 829	68	F 00Y 202 002	44	F 00Y 202 367	50, 227	F 00Y 205 418	178
F 00Y 145 831	68	F 00Y 202 003	44	F 00Y 202 436	198	F 00Y 205 419	178
F 00Y 145 833	68	F 00Y 202 004	44	F 00Y 202 437	194	F 00Y 205 420	177
F 00Y 145 834	68	F 00Y 202 005	44	F 00Y 202 439	203	F 00Y 205 421	177
F 00Y 145 835	68	F 00Y 202 006	44	F 00Y 202 440	198	F 00Y 205 423	177
F 00Y 145 837	68	F 00Y 202 007	44	F 00Y 202 462	214	F 00Y 205 425	178
F 00Y 145 839	68	F 00Y 202 008	44	F 00Y 202 463	213	F 00Y 205 426	178
F 00Y 145 840	68	F 00Y 202 009	44	F 00Y 202 464	219	F 00Y 205 427	177
F 00Y 145 841	68	F 00Y 202 010	44	F 00Y 202 825	216	F 00Y 205 436	24
F 00Y 145 843	68	F 00Y 202 011	44	F 00Y 202 826	216	F 00Y 205 437	23
F 00Y 145 844	68	F 00Y 202 012	44	F 00Y 202 828	210	F 00Y 205 493	181
F 00Y 145 845	68	F 00Y 202 013	44	F 00Y 202 829	210	F 00Y 205 496	181
F 00Y 145 847	68	F 00Y 202 014	44	F 00Y 202 830	210	F 00Y 205 497	181



Part number index

Part number	Page	Part number	Page	Part number	Page	Part number	Page
F 00Y 205 499	181	F 00Y 220 102	133	F 00Y 227 663	108	F 00Y 228 067	92
F 00Y 205 500	181	F 00Y 220 104	133	F 00Y 227 664	108	F 00Y 228 068	92
F 00Y 205 501	181	F 00Y 220 122	133	F 00Y 227 665	108	F 00Y 228 069	92
F 00Y 205 502	181	F 00Y 222 485	24	F 00Y 227 666	108	F 00Y 228 070	93
F 00Y 205 503	181	F 00Y 222 530	129	F 00Y 227 667	108	F 00Y 228 071	93
F 00Y 205 504	181	F 00Y 222 531	129	F 00Y 227 668	108	F 00Y 228 072	93
F 00Y 205 506	181	F 00Y 224 716	178	F 00Y 227 669	108	F 00Y 228 073	93
F 00Y 205 507	181	F 00Y 224 772	227	F 00Y 227 670	108	F 00Y 228 074	93
F 00Y 205 508	181	F 00Y 224 792	49	F 00Y 227 671	108	F 00Y 228 075	93
F 00Y 207 717	91	F 00Y 224 793	49	F 00Y 227 672	108	F 00Y 228 076	93
F 00Y 207 718	91	F 00Y 224 795	49	F 00Y 227 673	108	F 00Y 228 077	93
F 00Y 210 133	24	F 00Y 224 798	49	F 00Y 227 674	108	F 00Y 228 078	93
F 00Y 210 134	24	F 00Y 225 094	128	F 00Y 227 675	108	F 00Y 228 079	93
F 00Y 211 450	184	F 00Y 226 065	246	F 00Y 227 676	108	F 00Y 228 080	93
F 00Y 211 451	184	F 00Y 227 239	131	F 00Y 227 677	108	F 00Y 228 081	93
F 00Y 211 452	184	F 00Y 227 240	131	F 00Y 227 678	108	F 00Y 228 082	93
F 00Y 211 453	184	F 00Y 227 241	131	F 00Y 227 679	108	F 00Y 228 083	93
F 00Y 211 454	184	F 00Y 227 242	129	F 00Y 227 680	108	F 00Y 228 084	93
F 00Y 211 455	184	F 00Y 227 535	128	F 00Y 227 681	108	F 00Y 228 085	93
F 00Y 211 456	184	F 00Y 227 536	128	F 00Y 227 682	110, 237	F 00Y 228 086	93
F 00Y 211 457	184	F 00Y 227 629	108	F 00Y 227 683	110, 237	F 00Y 228 087	93
F 00Y 211 458	183	F 00Y 227 630	108	F 00Y 227 684	111	F 00Y 228 088	93
F 00Y 211 459	183	F 00Y 227 631	108	F 00Y 227 685	111	F 00Y 228 089	93
F 00Y 211 460	183	F 00Y 227 632	108	F 00Y 227 686	111	F 00Y 228 090	93
F 00Y 211 461	183	F 00Y 227 633	108	F 00Y 227 688	111, 122	F 00Y 228 091	93
F 00Y 211 462	183	F 00Y 227 634	108	F 00Y 227 744	113	F 00Y 228 092	93
F 00Y 211 463	183	F 00Y 227 635	108	F 00Y 227 745	113	F 00Y 228 093	93
F 00Y 211 465	183	F 00Y 227 636	108	F 00Y 227 746	111, 114	F 00Y 228 094	93
F 00Y 211 466	183	F 00Y 227 637	108	F 00Y 227 800	112	F 00Y 228 095	93
F 00Y 211 467	183	F 00Y 227 638	108	F 00Y 227 801	112	F 00Y 228 096	93
F 00Y 211 585	211	F 00Y 227 639	108	F 00Y 227 802	112	F 00Y 228 097	93
F 00Y 211 587	211	F 00Y 227 640	108	F 00Y 227 803	112	F 00Y 228 098	93
F 00Y 211 589	212	F 00Y 227 641	108	F 00Y 227 804	112	F 00Y 228 099	93
F 00Y 211 590	217	F 00Y 227 642	108	F 00Y 227 805	112	F 00Y 228 100	93
F 00Y 211 591	217	F 00Y 227 643	108	F 00Y 227 806	112	F 00Y 228 101	93
F 00Y 211 592	218	F 00Y 227 644	108	F 00Y 227 807	112	F 00Y 228 102	94
F 00Y 211 870	25	F 00Y 227 645	108	F 00Y 227 808	112	F 00Y 228 127	94
F 00Y 211 871	25	F 00Y 227 646	108	F 00Y 227 809	112	F 00Y 228 248	114
F 00Y 211 873	26	F 00Y 227 647	108	F 00Y 227 810	112	F 00Y 229 084	130
F 00Y 211 874	26	F 00Y 227 648	108	F 00Y 227 811	112	F 00Y 229 085	131
F 00Y 211 875	23	F 00Y 227 649	108	F 00Y 227 814	112	F 00Y 231 786	114
F 00Y 212 046	90	F 00Y 227 650	108	F 00Y 227 816	112	F 00Y 240 160	71
F 00Y 212 047	90	F 00Y 227 651	108	F 00Y 227 819	112	F 00Y 240 165	71
F 00Y 212 049	90	F 00Y 227 652	108	F 00Y 227 977	129, 239	F 00Y 240 170	71
F 00Y 212 050	90	F 00Y 227 653	108	F 00Y 228 054	131, 239	F 00Y 240 172	71
F 00Y 212 051	91	F 00Y 227 654	108	F 00Y 228 058	92	F 00Y 240 175	71
F 00Y 212 052	91	F 00Y 227 655	108	F 00Y 228 059	92	F 00Y 240 180	71
F 00Y 212 053	91	F 00Y 227 656	108	F 00Y 228 060	92	F 00Y 240 185	71
F 00Y 212 054	90	F 00Y 227 657	108	F 00Y 228 061	92	F 00Y 240 190	71
F 00Y 212 239	25	F 00Y 227 658	108	F 00Y 228 062	92	F 00Y 240 195	71
F 00Y 212 253	118	F 00Y 227 659	108	F 00Y 228 063	92	F 00Y 240 200	72
F 00Y 212 256	118	F 00Y 227 660	108	F 00Y 228 064	92	F 00Y 240 210	72
F 00Y 219 374	130	F 00Y 227 661	108	F 00Y 228 065	92	F 00Y 240 230	72
F 00Y 219 375	130	F 00Y 227 662	108	F 00Y 228 066	92	F 00Y 240 502	199



Part number index

Part number	Page	Part number	Page	Part number	Page	Part number	Page
F 00Y 240 503	193	F 00Y 241 087	75	F 00Y 241 251	75	F 00Y 241 308	76
F 00Y 240 512	201	F 00Y 241 088	76	F 00Y 241 252	75	F 00Y 241 309	76
F 00Y 240 513	205	F 00Y 241 089	76	F 00Y 241 253	75	F 00Y 265 026	128
F 00Y 240 514	199	F 00Y 241 090	76	F 00Y 241 254	75	F 00Y 265 027	128
F 00Y 240 515	199	F 00Y 241 091	76	F 00Y 241 255	75	F 00Y 265 030	133
F 00Y 240 516	199	F 00Y 241 092	76	F 00Y 241 256	75	F 00Y 265 032	133
F 00Y 240 517	197	F 00Y 241 093	76	F 00Y 241 257	75	F 00Y 265 051	19
F 00Y 240 520	198	F 00Y 241 094	76	F 00Y 241 258	76	F 00Y 265 052	19
F 00Y 240 521	198	F 00Y 241 095	76	F 00Y 241 261	74	F 00Y 265 053	19
F 00Y 240 523	192	F 00Y 241 096	76	F 00Y 241 262	74	F 00Y 265 054	19
F 00Y 240 525	192	F 00Y 241 097	76	F 00Y 241 263	74	F 00Y 265 055	19
F 00Y 240 526	192	F 00Y 241 100	74	F 00Y 241 264	74	F 00Y 265 056	19
F 00Y 240 527	192	F 00Y 241 101	74	F 00Y 241 265	74	F 00Y 265 057	19
F 00Y 240 528	195	F 00Y 241 102	75	F 00Y 241 266	74	F 00Y 265 058	19
F 00Y 240 531	197	F 00Y 241 103	75	F 00Y 241 267	74	F 00Y 265 059	19
F 00Y 240 532	204	F 00Y 241 104	75	F 00Y 241 268	74	F 00Y 265 061	19
F 00Y 240 534	193	F 00Y 241 105	75	F 00Y 241 269	74	F 00Y 265 063	19
F 00Y 240 541	196	F 00Y 241 106	75	F 00Y 241 270	74	F 00Y 265 066	20
F 00Y 240 544	203	F 00Y 241 155	73	F 00Y 241 271	74	F 00Y 265 067	20
F 00Y 240 545	199	F 00Y 241 156	73	F 00Y 241 272	74	F 00Y 265 068	20
F 00Y 240 546	203	F 00Y 241 157	73	F 00Y 241 274	75	F 00Y 265 069	20
F 00Y 240 882	78	F 00Y 241 158	73	F 00Y 241 275	75	F 00Y 265 070	20
F 00Y 240 884	78	F 00Y 241 159	73	F 00Y 241 276	75	F 00Y 265 071	20
F 00Y 240 885	78	F 00Y 241 161	73	F 00Y 241 277	75	F 00Y 265 073	20
F 00Y 240 886	78	F 00Y 241 162	73	F 00Y 241 278	75	F 00Y 265 074	20
F 00Y 240 887	78	F 00Y 241 163	73	F 00Y 241 279	75	F 00Y 265 075	20
F 00Y 240 888	78	F 00Y 241 164	73	F 00Y 241 280	75	F 00Y 265 076	20
F 00Y 240 889	78	F 00Y 241 166	73	F 00Y 241 281	75	F 00Y 265 077	20
F 00Y 240 890	78	F 00Y 241 167	73	F 00Y 241 282	75	F 00Y 265 078	20
F 00Y 240 891	78	F 00Y 241 168	73	F 00Y 241 283	75	F 00Y 265 079	20
F 00Y 240 892	78	F 00Y 241 169	74	F 00Y 241 284	75	F 00Y 265 080	20
F 00Y 240 894	78	F 00Y 241 172	74	F 00Y 241 285	75	F 00Y 265 081	20
F 00Y 240 896	78	F 00Y 241 175	74	F 00Y 241 286	75	F 00Y 265 082	20
F 00Y 240 898	78	F 00Y 241 176	74	F 00Y 241 287	75	F 00Y 265 083	21
F 00Y 241 067	74	F 00Y 241 177	74	F 00Y 241 288	75	F 00Y 265 084	21
F 00Y 241 068	74	F 00Y 241 178	74	F 00Y 241 289	75	F 00Y 265 086	21
F 00Y 241 069	74	F 00Y 241 179	74	F 00Y 241 290	75	F 00Y 265 087	21
F 00Y 241 070	74	F 00Y 241 180	74	F 00Y 241 291	75	F 00Y 265 088	21
F 00Y 241 071	74	F 00Y 241 182	74	F 00Y 241 292	75	F 00Y 265 089	21
F 00Y 241 072	74	F 00Y 241 183	74	F 00Y 241 293	75	F 00Y 265 091	21
F 00Y 241 073	74	F 00Y 241 184	74	F 00Y 241 294	75	F 00Y 265 092	21
F 00Y 241 074	74	F 00Y 241 185	74	F 00Y 241 295	75	F 00Y 265 093	21
F 00Y 241 075	75	F 00Y 241 186	74	F 00Y 241 296	75	F 00Y 265 094	21
F 00Y 241 076	75	F 00Y 241 187	74	F 00Y 241 297	75	F 00Y 265 095	21
F 00Y 241 077	75	F 00Y 241 188	74	F 00Y 241 298	76	F 00Y 265 096	21
F 00Y 241 078	75	F 00Y 241 189	74	F 00Y 241 299	76	F 00Y 265 097	21
F 00Y 241 079	75	F 00Y 241 190	74	F 00Y 241 300	76	F 00Y 265 101	22, 228
F 00Y 241 080	75	F 00Y 241 191	74	F 00Y 241 301	76	F 00Y 265 102	93, 235
F 00Y 241 081	75	F 00Y 241 192	74	F 00Y 241 302	76	F 00Y 265 108	209, 221
F 00Y 241 082	75	F 00Y 241 193	74	F 00Y 241 303	76	F 00Y 265 109	209, 221
F 00Y 241 083	75	F 00Y 241 247	74	F 00Y 241 304	76	F 00Y 265 110	209, 221
F 00Y 241 084	75	F 00Y 241 248	74	F 00Y 241 305	76	F 00Y 265 129	193
F 00Y 241 085	75	F 00Y 241 249	74	F 00Y 241 306	76	F 00Y 265 130	193
F 00Y 241 086	75	F 00Y 241 250	74	F 00Y 241 307	76	F 00Y 265 131	194



Part number index

Part number	Page	Part number	Page	Part number	Page	Part number	Page
F 00Y 265 132	195	F 00Y 265 228	161, 240	F 00Y 265 424	31	F 00Y 265 481	32
F 00Y 265 133	200	F 00Y 265 230	117, 161	F 00Y 265 425	31	F 00Y 265 482	32
F 00Y 265 134	202	F 00Y 265 231	117, 161	F 00Y 265 428	31	F 00Y 265 483	32
F 00Y 265 135	211	F 00Y 265 244	115, 159	F 00Y 265 429	31	F 00Y 265 484	32
F 00Y 265 136	212	F 00Y 265 246	111, 113, 116, 160	F 00Y 265 430	31	F 00Y 265 485	32
F 00Y 265 137	212	F 00Y 265 247	111, 114, 116, 160	F 00Y 265 431	31	F 00Y 265 486	32
F 00Y 265 138	212	F 00Y 265 248	111, 114, 116, 160	F 00Y 265 433	31	F 00Y 265 487	32
F 00Y 265 139	209, 213	F 00Y 265 256	21	F 00Y 265 434	31	F 00Y 265 488	32
F 00Y 265 140	130	F 00Y 265 276	130	F 00Y 265 435	32	F 00Y 265 489	32
F 00Y 265 144	48	F 00Y 265 311	130	F 00Y 265 436	32	F 00Y 265 490	32
F 00Y 265 145	48	F 00Y 265 312	130	F 00Y 265 437	32	F 00Y 265 491	32
F 00Y 265 152	200	F 00Y 265 343	20	F 00Y 265 438	32	F 00Y 265 578	200
F 00Y 265 154	202	F 00Y 265 344	20	F 00Y 265 439	32	F 00Y 265 579	202
F 00Y 265 155	111	F 00Y 265 345	20	F 00Y 265 440	32	F 00Y 265 595	37
F 00Y 265 156	113	F 00Y 265 346	20	F 00Y 265 441	32	F 00Y 265 617	116, 160
F 00Y 265 161	23	F 00Y 265 347	20	F 00Y 265 442	32	F 00Y 265 618	27
F 00Y 265 162	23	F 00Y 265 348	110, 237	F 00Y 265 443	32	F 00Y 265 619	27
F 00Y 265 163	24	F 00Y 265 352	21	F 00Y 265 444	32	F 00Y 265 620	27
F 00Y 265 164	24	F 00Y 265 353	21	F 00Y 265 445	32	F 00Y 265 621	27
F 00Y 265 165	24	F 00Y 265 354	21	F 00Y 265 446	32	F 00Y 265 622	27
F 00Y 265 167	25	F 00Y 265 355	21	F 00Y 265 447	32	F 00Y 265 623	27
F 00Y 265 168	26	F 00Y 265 356	21	F 00Y 265 448	32	F 00Y 265 624	27
F 00Y 265 172	115, 159	F 00Y 265 357	21	F 00Y 265 449	32	F 00Y 265 644	156
F 00Y 265 173	115, 159	F 00Y 265 358	21	F 00Y 265 450	32	F 00Y 265 645	156
F 00Y 265 174	115, 159	F 00Y 265 359	21	F 00Y 265 451	32	F 00Y 265 646	156
F 00Y 265 175	115, 159	F 00Y 265 360	21	F 00Y 265 452	32	F 00Y 265 647	156
F 00Y 265 176	115, 159	F 00Y 265 361	21	F 00Y 265 453	32	F 00Y 265 648	156
F 00Y 265 177	115, 159	F 00Y 265 384	36	F 00Y 265 454	32	F 00Y 265 649	156
F 00Y 265 178	115, 159	F 00Y 265 385	36	F 00Y 265 455	32	F 00Y 265 650	156
F 00Y 265 179	115, 159	F 00Y 265 386	36	F 00Y 265 456	32	F 00Y 265 651	156
F 00Y 265 180	115, 159	F 00Y 265 387	36	F 00Y 265 457	32	F 00Y 265 652	156
F 00Y 265 181	115, 159	F 00Y 265 388	36	F 00Y 265 458	32	F 00Y 265 653	156
F 00Y 265 182	115, 159	F 00Y 265 389	36	F 00Y 265 459	32	F 00Y 265 654	156
F 00Y 265 183	115, 159	F 00Y 265 390	36	F 00Y 265 460	32	F 00Y 265 655	156
F 00Y 265 184	115, 159	F 00Y 265 391	36	F 00Y 265 461	32	F 00Y 265 656	156
F 00Y 265 185	115, 159	F 00Y 265 392	36	F 00Y 265 462	32	F 00Y 265 657	156
F 00Y 265 186	115, 159	F 00Y 265 393	36	F 00Y 265 463	32	F 00Y 265 658	156
F 00Y 265 187	115, 159	F 00Y 265 394	36	F 00Y 265 464	32	F 00Y 265 659	156
F 00Y 265 188	116, 160	F 00Y 265 395	36	F 00Y 265 465	32	F 00Y 265 660	156
F 00Y 265 189	116, 160	F 00Y 265 396	36	F 00Y 265 466	32	F 00Y 265 661	156
F 00Y 265 190	116, 160	F 00Y 265 397	36	F 00Y 265 467	32	F 00Y 265 662	156
F 00Y 265 191	116, 160	F 00Y 265 398	37	F 00Y 265 468	32	F 00Y 265 663	156
F 00Y 265 192	116, 160	F 00Y 265 403	18	F 00Y 265 469	32	F 00Y 265 664	156
F 00Y 265 198	117, 161	F 00Y 265 404	18	F 00Y 265 470	32	F 00Y 265 665	156
F 00Y 265 200	242	F 00Y 265 405	18	F 00Y 265 471	32	F 00Y 265 666	156
F 00Y 265 201	242	F 00Y 265 406	18	F 00Y 265 472	32	F 00Y 265 667	157, 241
F 00Y 265 211	37	F 00Y 265 407	18	F 00Y 265 473	32	F 00Y 265 668	157, 241
F 00Y 265 221	115, 159	F 00Y 265 408	18	F 00Y 265 474	32	F 00Y 265 670	155
F 00Y 265 222	115, 159	F 00Y 265 409	18	F 00Y 265 475	32	F 00Y 265 671	155
F 00Y 265 223	115, 159	F 00Y 265 410	18	F 00Y 265 476	32	F 00Y 265 672	155
F 00Y 265 224	115, 159	F 00Y 265 411	18	F 00Y 265 477	32	F 00Y 265 673	155
F 00Y 265 225	115, 159	F 00Y 265 412	18	F 00Y 265 478	32	F 00Y 265 674	155
F 00Y 265 226	115, 159	F 00Y 265 422	31	F 00Y 265 479	32	F 00Y 265 675	155
F 00Y 265 227	115, 159	F 00Y 265 423	31	F 00Y 265 480	32	F 00Y 265 676	155, 240



Part number index

Part number	Page	Part number	Page	Part number	Page	Part number	Page
F 00Y 265 679	110	F 00Y 265 819	66, 230	F 00Y 266 288	53	F 00Y 266 450	56, 228
F 00Y 265 721	51	F 00Y 265 820	63, 230	F 00Y 266 289	53	F 00Y 266 451	56, 228
F 00Y 265 722	51	F 00Y 265 821	77, 232	F 00Y 266 290	53	F 00Y 266 452	16
F 00Y 265 723	51	F 00Y 265 822	70, 231	F 00Y 266 291	53	F 00Y 266 453	16
F 00Y 265 725	51	F 00Y 265 823	66, 230	F 00Y 266 292	53	F 00Y 266 454	16
F 00Y 265 728	51	F 00Y 265 824	63, 230	F 00Y 266 293	53	F 00Y 266 455	16
F 00Y 265 729	51	F 00Y 265 836	132	F 00Y 266 294	53	F 00Y 266 456	16
F 00Y 265 730	51	F 00Y 265 838	132	F 00Y 266 295	54, 227	F 00Y 266 457	16
F 00Y 265 731	51	F 00Y 266 000	23	F 00Y 266 296	54, 227	F 00Y 266 458	16
F 00Y 265 732	51	F 00Y 266 029	24	F 00Y 266 297	16	F 00Y 266 459	16
F 00Y 265 749	19	F 00Y 266 033	24	F 00Y 266 298	16	F 00Y 266 460	16
F 00Y 265 750	20	F 00Y 266 034	24	F 00Y 266 299	52	F 00Y 266 461	16
F 00Y 265 751	20	F 00Y 266 045	24	F 00Y 266 300	52	F 00Y 266 462	16
F 00Y 265 752	21	F 00Y 266 048	24	F 00Y 266 301	52	F 00Y 266 463	16
F 00Y 265 753	21	F 00Y 266 109	24	F 00Y 266 302	52	F 00Y 266 464	16
F 00Y 265 757	20	F 00Y 266 150	42	F 00Y 266 303	52	F 00Y 266 465	17
F 00Y 265 758	20	F 00Y 266 151	42	F 00Y 266 304	52	F 00Y 266 466	17
F 00Y 265 759	20	F 00Y 266 152	42	F 00Y 266 305	52	F 00Y 266 467	17
F 00Y 265 760	20	F 00Y 266 154	42	F 00Y 266 306	52	F 00Y 266 468	17
F 00Y 265 764	129	F 00Y 266 155	42	F 00Y 266 307	52	F 00Y 266 469	17
F 00Y 265 765	129	F 00Y 266 156	42	F 00Y 266 308	52	F 00Y 266 470	17
F 00Y 265 766	129	F 00Y 266 158	42	F 00Y 266 315	16	F 00Y 266 471	17
F 00Y 265 767	129, 239	F 00Y 266 159	42	F 00Y 266 316	16	F 00Y 266 472	17
F 00Y 265 770	81	F 00Y 266 160	42	F 00Y 266 417	131, 239	F 00Y 266 473	17
F 00Y 265 771	81	F 00Y 266 161	42	F 00Y 266 420	208, 220	F 00Y 266 474	17
F 00Y 265 772	81	F 00Y 266 163	42	F 00Y 266 421	208, 220	F 00Y 266 475	17
F 00Y 265 773	146	F 00Y 266 165	42	F 00Y 266 422	208, 220	F 00Y 266 476	17
F 00Y 265 774	146	F 00Y 266 166	42	F 00Y 266 423	97	F 00Y 266 477	17
F 00Y 265 776	146	F 00Y 266 167	42	F 00Y 266 424	97	F 00Y 266 478	17
F 00Y 265 777	147	F 00Y 266 169	42	F 00Y 266 425	97	F 00Y 266 479	17
F 00Y 265 778	147	F 00Y 266 170	42	F 00Y 266 426	97	F 00Y 266 480	17
F 00Y 265 780	147	F 00Y 266 171	42	F 00Y 266 427	97	F 00Y 266 481	17
F 00Y 265 781	142	F 00Y 266 172	42	F 00Y 266 428	97	F 00Y 266 482	17
F 00Y 265 782	142	F 00Y 266 173	42	F 00Y 266 429	97	F 00Y 266 483	17
F 00Y 265 783	142	F 00Y 266 175	42	F 00Y 266 430	97	F 00Y 266 484	17
F 00Y 265 784	142	F 00Y 266 184	43, 226	F 00Y 266 431	97	F 00Y 266 485	17
F 00Y 265 785	142	F 00Y 266 185	43, 226	F 00Y 266 432	97	F 00Y 266 486	17
F 00Y 265 786	142	F 00Y 266 203	26, 229	F 00Y 266 433	97	F 00Y 266 487	17
F 00Y 265 787	142	F 00Y 266 242	24	F 00Y 266 434	97	F 00Y 266 488	17
F 00Y 265 788	143	F 00Y 266 244	222	F 00Y 266 435	97	F 00Y 266 489	17
F 00Y 265 789	143	F 00Y 266 245	222	F 00Y 266 436	97	F 00Y 266 490	17
F 00Y 265 790	143	F 00Y 266 246	222	F 00Y 266 437	97	F 00Y 266 491	17
F 00Y 265 791	143	F 00Y 266 247	218	F 00Y 266 438	97	F 00Y 266 492	17
F 00Y 265 794	143	F 00Y 266 249	218	F 00Y 266 439	97	F 00Y 266 493	17
F 00Y 265 799	144	F 00Y 266 251	218	F 00Y 266 440	97	F 00Y 266 494	17
F 00Y 265 802	145	F 00Y 266 253	219	F 00Y 266 441	98, 236	F 00Y 266 495	17
F 00Y 265 803	145	F 00Y 266 255	200	F 00Y 266 442	55	F 00Y 266 496	17
F 00Y 265 809	148	F 00Y 266 256	195	F 00Y 266 443	55	F 00Y 266 497	17
F 00Y 265 810	148	F 00Y 266 257	205	F 00Y 266 444	55	F 00Y 266 498	17
F 00Y 265 812	149	F 00Y 266 258	128	F 00Y 266 445	55	F 00Y 266 499	17
F 00Y 265 813	149	F 00Y 266 259	128	F 00Y 266 446	55	F 00Y 266 500	17
F 00Y 265 815	150	F 00Y 266 285	53	F 00Y 266 447	55	F 00Y 266 501	17
F 00Y 265 817	77, 232	F 00Y 266 286	53	F 00Y 266 448	55	F 00Y 266 502	17
F 00Y 265 818	70, 231	F 00Y 266 287	53	F 00Y 266 449	55	F 00Y 266 503	17



Part number index

Part number	Page
F 00Y 266 504	17
F 00Y 266 505	17
F 00Y 266 506	17
F 00Y 266 507	17
F 00Y 266 508	17
F 00Y 266 509	17
F 00Y 266 510	17
F 00Y 266 511	17
F 00Y 266 512	17
F 00Y 266 513	17
F 00Y 266 514	17
F 00Y 266 515	17
F 00Y 266 516	17
F 00Y 266 517	17
F 00Y 266 518	17
F 00Y 266 519	18
F 00Y 266 520	18
F 00Y 266 521	18
F 00Y 266 522	18
F 00Y 266 523	18
F 00Y 266 524	18
F 00Y 266 526	18
F 00Y 266 527	18
F 00Y 266 528	18
F 00Y 266 529	18
F 00Y 266 530	18
F 00Y 266 531	18
F 00Y 266 532	18
F 00Y 266 533	18
F 00Y 266 534	18
F 00Y 266 535	18
F 00Y 266 536	18
F 00Y 266 537	18, 228
F 00Y 266 538	244
F 00Y 266 539	28
F 00Y 266 540	28
F 00Y 266 541	28
F 00Y 266 542	28
F 00Y 266 543	28
F 00Y 266 544	28
F 00Y 266 545	28
F 00Y 266 546	28
F 00Y 266 547	35
F 00Y 266 548	35
F 00Y 266 549	35
F 00Y 266 550	35
F 00Y 266 551	35
F 00Y 266 552	35
F 00Y 266 553	35
F 00Y 266 554	35
F 00Y 266 555	35
F 00Y 266 556	35
F 00Y 266 557	35
F 00Y 424 509	180



Lined area for notes, consisting of numerous horizontal lines.



A1 Plastic hanger with Euro hole
A2 Plastic hanger with other type of suspension



B1 Tight Pack with Euro hole
B2 Tight pack with round hole



C Plastic bag with round hole



D Plastic tube with sticker and Euro hole
E Plastic tube with sticker and round hole



F Plastic tube with sticker without any type of suspension



G Folding blister with insert card and Euro hole



H Blistered with cardboard and Euro hole



I Printed cardboard packaging with Euro hole



K Wooden case