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Range Catalogue



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.



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 7 Metal drill bits 9 Wood drill bits 54 Wood drill bits 75	
Chiselling		SDS-plus shank 93 SDS-max shank 96 Hexagonal shank 98 Hexagonal shank 100	
Jigsawing Sabre sawing		Jigsaw blades 103 Sabre saw blades 104 Sabre saw blades 118	
Sets		Concrete and masonry drill bit sets 133 Metal drill bit sets 134 Metal drill bit sets 138 Wood drill bit sets 141 Chisel sets 142	
Index	 Die produktive Kraft.	Part numbers 143 Overview of packaging types 150	

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 PowerLSpus	
2017	Launch of hammer drill bits SDS-plus SHARX	
2018	Launch of hammer drill bits Power LX Plus	
2019	Launch of hammer drill bits SDS-max FCH	

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**



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.

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

Sawing



Jigsaw



Sabre sawing

For special benefit



Long lifetime



Fast drilling



Effortless drilling



Precise drilling



Active centring tip



Notched tungsten carbide tip



5-cutter full carbide head



4-cutter full carbide head



No impact



100-percent power transfer



Prüfgemeinschaft Mauerbohrer e.V. (masonry drill bit testing association)



More impact force



Rapid work progress



Longer lasting



Self-sharpening



High material removal rate



Hammerdrillbit Carbide



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	11
Core cutters SDS-plus	26
Hammer drill bits SDS-max	28
Core cutters SDS-max	33
Impact and rotary drill bits	35

11

26

28

33

35



Metal drill bits

54

Twist drill bits	55
Countersink bits	74

55

74



Wood drill bits

75

Twist drill bits	80
Auger bits	82
Spade bits	84
Formwork and installation drill bits	87
Forstner drill bits	89
Hinge cutting bits and countersinks	91

80

82

84

87

89

91



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)

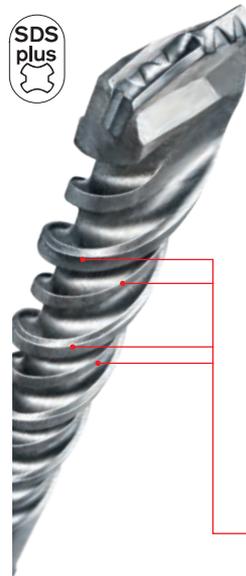
Market shares of the various performance categories



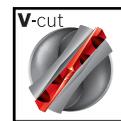
POWERLS PLUS efficient and robust

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.

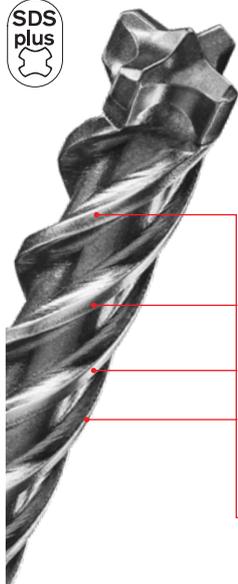


Hammer drill bits, SDS-plus and SDS-max

SHARX durable and sharp

New generation **X5L**

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.



SDSMAXFCH durable and sharp

new

New generation **Power LSP Max**

12–32 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



Longest lifetime in reinforced concrete. Extremely robust full carbide head with 4 cutting edges for the toughest application on the construction site.



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 generation **X5L**



5 - 30 mm diameter

Reinforced concrete, concrete, masonry, natural stone

★★★★★

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•••••
•••••

POWERLSPLUS

New generation **S4L**



3 - 26 mm diameter

Hard concrete, reinforced concrete, masonry and granite

★★★

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••••

SDSMAXFCH

new

New generation **Power LSP Max**



12 - 32 mm diameter

Concrete and reinforced concrete, limestone, masonry

★★★★★

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•••••

POWERLXPLUS



5 - 16 mm diameter

Concrete and reinforced concrete, masonry

★★★★★

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••••
••••

POWERLSMAX



12 - 40 mm diameter

Concrete, limestone, masonry

★★★★★

••••
•••••
•••••

Special drill bits:

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

★ ★ ★

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• • •
• • • •

CORE CUTTER 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

★ ★ ★ ★

• • • •
• • • • •
• •

CORE CUTTER MAX

Hammer core cutter



45 - 150 mm diameter

Large-diameter breakthroughs in concrete, masonry and limestone

★ ★ ★

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SPEED CLEAN MAX

new

Dust extraction drill bits



14 - 35 mm diameter

Concrete; drilling and cleaning in the same operation

★ ★ ★ ★

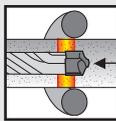
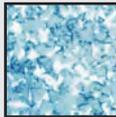
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Technological basis

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 POWERLS ^{PLUS} POWERLS ^{PLUS} CORE-CUTTER ^{PLUS} SPEED CLEAN ^{PLUS} SDS ^{MAX} TECH BREAK THROUGH CORE-CUTTER ^{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 centering 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

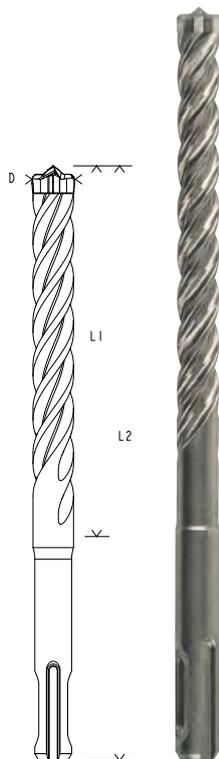
Hammer drill bit Sharx

Recommended for working on:

Masonry, concrete and reinforced concrete

User instructions:

For use in rotary hammers with SDS-plus holder

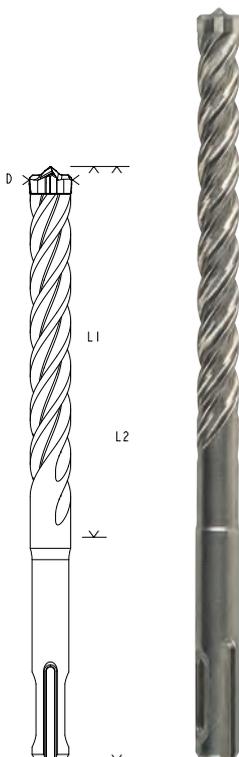


Diameter D mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack. quantity	Part number	EAN code
3.5	50	115	A1	1	F 00Y 266 315	3 165 140 845 120
3.5	100	160	A1	1	F 00Y 266 316	3 165 140 845 137
4.0	50	115	A1	1	F 00Y 266 297	3 165 140 809 757
4.0	100	165	A1	1	F 00Y 266 298	3 165 140 809 764
17.0	150	210	A1	1	F 00Y 266 401	3 165 140 845 984
17.0	250	310	A1	1	F 00Y 266 402	3 165 140 845 991
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

Hammer drill bit Sharx

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

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
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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:

POWERLXPLUS

Efficient drilling and resistant to rebar



4-cutter design

- > Long lifetime
- > No jamming in rebar



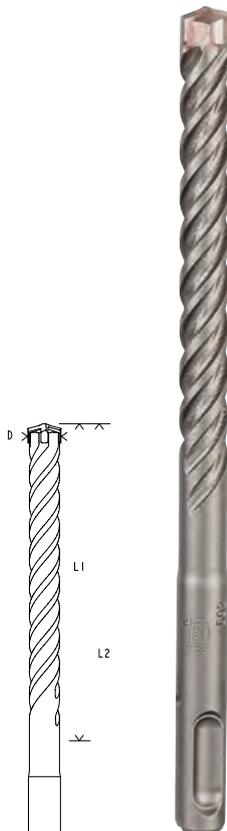
Hammer drill bits PowerLXPplus

Recommended for working on:

Concrete and reinforced concrete, masonry

User instructions:

For use in rotary hammers with SDS plus holder



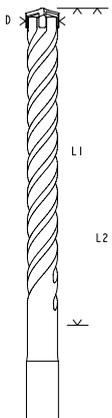
Diameter D mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
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5,0	50	110	A2	1	F 00Y 266 579	3165140945790
5,0	100	160	A2	1	F 00Y 266 580	3165140945806
5,0	150	210	A2	1	F 00Y 266 581	3165140945813
5,5	50	110	A2	1	F 00Y 266 582	3165140945820
5,5	100	160	A2	1	F 00Y 266 583	3165140945837
5,5	150	210	A2	1	F 00Y 266 584	3165140945844
6,0	50	110	A2	1	F 00Y 266 585	3165140945851
6,0	100	160	A2	1	F 00Y 266 586	3165140945868
6,0	150	210	A2	1	F 00Y 266 587	3165140945875
6,0	200	260	A2	1	F 00Y 266 588	3165140945882
6,5	50	110	A2	1	F 00Y 266 589	3165140945899
6,5	100	160	A2	1	F 00Y 266 590	3165140945905
6,5	150	210	A2	1	F 00Y 266 591	3165140945912
6,5	200	260	A2	1	F 00Y 266 592	3165140945929
7,0	50	110	A2	1	F 00Y 266 593	3165140945936
7,0	100	160	A2	1	F 00Y 266 594	3165140945943
7,0	150	210	A2	1	F 00Y 266 595	3165140945950
8,0	50	110	A2	1	F 00Y 266 596	3165140945967
8,0	100	160	A2	1	F 00Y 266 597	3165140945974

Hammer drill bits PowerLX Plus

Diameter D mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack. quantity	Part number	EAN code
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8,0	150	210	A2	1	F00Y 266 598	3165140945981
8,0	200	260	A2	1	F00Y 266 599	3165140945998
8,0	250	310	A2	1	F00Y 266 600	3165140946001
8,0	300	360	A2	1	F00Y 266 601	3165140946018
8,0	400	460	A2	1	F00Y 266 602	3165140946025
9,0	100	160	A2	1	F00Y 266 603	3165140946032
9,0	150	210	A2	1	F00Y 266 604	3165140946049
10,0	50	110	A2	1	F00Y 266 605	3165140946056
10,0	100	160	A2	1	F00Y 266 606	3165140946063
10,0	150	210	A2	1	F00Y 266 607	3165140946070
10,0	200	260	A2	1	F00Y 266 608	3165140946087
10,0	250	310	A2	1	F00Y 266 609	3165140946094
10,0	300	360	A2	1	F00Y 266 610	3165140946100
10,0	400	406	A2	1	F00Y 266 611	3165140946117
11,0	100	160	A2	1	F00Y 266 612	3165140946124
11,0	150	210	A2	1	F00Y 266 613	3165140946131
11,0	200	260	A2	1	F00Y 266 614	3165140946148
12,0	100	160	A2	1	F00Y 266 615	3165140946155
12,0	150	210	A2	1	F00Y 266 616	3165140946162
12,0	200	260	A2	1	F00Y 266 617	3165140946179
12,0	250	310	A2	1	F00Y 266 618	3165140946186
12,0	300	360	A2	1	F00Y 266 619	3165140946193
12,0	400	460	A2	1	F00Y 266 620	3165140946209
13,0	100	160	A2	1	F00Y 266 621	3165140946216
13,0	150	210	A2	1	F00Y 266 622	3165140946223
13,0	200	260	A2	1	F00Y 266 623	3165140946230
14,0	100	160	A2	1	F00Y 266 624	3165140946247
14,0	150	210	A2	1	F00Y 266 625	3165140946254
14,0	200	260	A2	1	F00Y 266 626	3165140946261
14,0	250	310	A2	1	F00Y 266 627	3165140946278
14,0	300	360	A2	1	F00Y 266 628	3165140946285
14,0	400	460	A2	1	F00Y 266 629	3165140946292
15,0	100	160	A2	1	F00Y 266 630	3165140946308
15,0	200	260	A2	1	F00Y 266 631	3165140946315
15,0	400	460	A2	1	F00Y 266 632	3165140946322
16,0	150	210	A2	1	F00Y 266 633	3165140946339
16,0	200	260	A2	1	F00Y 266 634	3165140946346
16,0	250	310	A2	1	F00Y 266 635	3165140946353
16,0	300	360	A2	1	F00Y 266 636	3165140946360
16,0	400	460	A2	1	F00Y 266 637	3165140946377




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

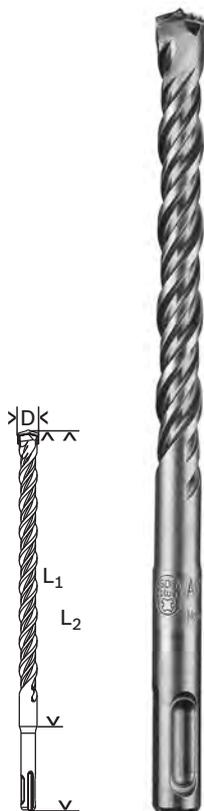
Hammer drill bits PowerLSplus

Recommended for working on:

Masonry and concrete

User instructions:

For use in rotary hammers with SDS-plus holder

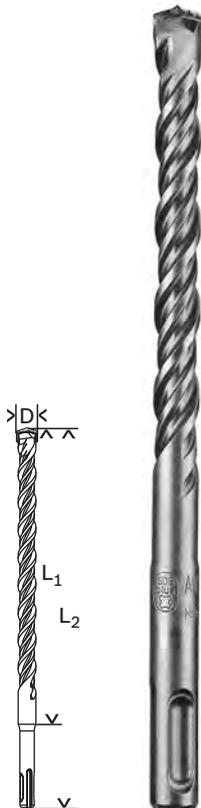


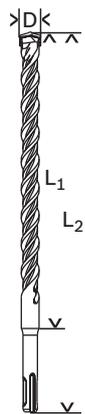
Diameter D mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
3.0	50	100	A2	1	F 00Y 266 000	3 165 140 654 982
3.5	50	110	A2	1	F 00Y 211 875	4 014 468 045 622
4.0	50	115	A2	1	F 00Y 101 470	4 014 468 004 902
4.0	100	165	A2	1	F 00Y 143 186	4 014 468 023 750
5.0	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
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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
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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
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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
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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 core cutters:

CORE CUTTER 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

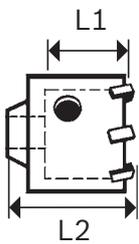
Recommended for working on:

Concrete, masonry and limestone

User instructions:

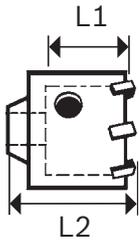
For use in rotary hammers with SDS-plus or hex shank

Diameter mm	Core cutter depth (L1) mm	Working length (L2) mm	Number of teeth	Packaging type	Pack quantity	Part number	EAN code
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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
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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
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Hexagon WAF 11 mm shanks without pilot drill bit

Hexagon WAF 11	-	78	L	1	F 00Y 142 455	4 014 468 023 224
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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
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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
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Hawera hammer drill bits:

SDSMAXFCH

Longest lifetime in reinforced concrete. Extremely robust full carbide head with 4 cutting edges for the toughest application on the construction site.



Full carbide head with 4 cutting edges

- > Extra hard tungsten carbide for the longest lifetime in reinforced concrete
- > Horizontal cutting edges for maximum power transfer

Innovative diffusion welding technology

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

Hammer drill bits SDS MAX FCH

Recommended for working on:

Concrete and reinforced concrete, limestone, masonry

User instructions:

For use in rotary hammers with SDS max holder



Diameter D mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
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12,0	200	340	D	1	F 00Y 266 645	3165140983235
12,0	400	540	D	1	F 00Y 266 646	3165140983242
12,0	600	740	D	1	F 00Y 266 647	3165140983259
12,0	800	940	D	1	F 00Y 266 648	3165140983266
14,0	200	340	D	1	F 00Y 266 649	3165140983273
14,0	400	540	D	1	F 00Y 266 650	3165140983280
14,0	600	740	D	1	F 00Y 266 651	3165140983297
14,0	800	940	D	1	F 00Y 266 652	3165140983303
16,0	200	340	D	1	F 00Y 266 653	3165140983310
16,0	400	540	D	1	F 00Y 266 654	3165140983327
16,0	600	740	D	1	F 00Y 266 655	3165140983334
16,0	800	940	D	1	F 00Y 266 656	3165140983341
18,0	200	340	D	1	F 00Y 266 657	3165140983358
18,0	400	540	D	1	F 00Y 266 658	3165140983365
18,0	600	740	D	1	F 00Y 266 659	3165140983372
18,0	800	940	D	1	F 00Y 266 660	3165140983389
20,0	200	320	D	1	F 00Y 266 661	3165140983396
20,0	400	520	D	1	F 00Y 266 662	3165140983402

Diameter D mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
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20,0	600	720	D	1	F 00Y 266 663	3165140983419
20,0	800	920	D	1	F 00Y 266 664	3165140983426
22,0	200	320	D	1	F 00Y 266 665	3165140983433
22,0	400	520	D	1	F 00Y 266 666	3165140983440
22,0	600	720	D	1	F 00Y 266 667	3165140983457
22,0	800	920	D	1	F 00Y 266 668	3165140983464
24,0	200	320	D	1	F 00Y 266 669	3165140983471
24,0	400	520	D	1	F 00Y 266 670	3165140983488
25,0	200	320	D	1	F 00Y 266 671	3165140983495
25,0	400	520	D	1	F 00Y 266 672	3165140983501
25,0	600	720	D	1	F 00Y 266 673	3165140983518
25,0	800	920	D	1	F 00Y 266 674	3165140983525
26,0	200	320	D	1	F 00Y 266 675	3165140983532
26,0	400	520	D	1	F 00Y 266 676	3165140983549
28,0	200	320	D	1	F 00Y 266 677	3165140983556
28,0	400	520	D	1	F 00Y 266 678	3165140983563
28,0	600	720	D	1	F 00Y 266 679	3165140983570
28,0	800	920	D	1	F 00Y 266 680	3165140983587
30,0	200	320	D	1	F 00Y 266 681	3165140983594
30,0	400	520	D	1	F 00Y 266 682	3165140983600
32,0	200	320	D	1	F 00Y 266 683	3165140983617
32,0	400	520	D	1	F 00Y 266 684	3165140983624
32,0	600	720	D	1	F 00Y 266 685	3165140983631
32,0	800	920	D	1	F 00Y 266 686	3165140983648

POWERLSP MAX

Embedded design with 4 cutting edges

15,0	200	340	D	1	F 00Y 265 433*	3165140567084
15,0	400	540	D	1	F 00Y 265 434*	3165140567091
16,0	1200	1340	D	1	F 00Y 265 439	3165140567145
17,0	200	340	D	1	F 00Y 265 440	3165140567152
17,0	400	540	D	1	F 00Y 265 441	3165140567169
18,0	1200	1340	D	1	F 00Y 265 446	3165140567213
19,0	200	320	D	1	F 00Y 265 447	3165140567220
19,0	400	520	D	1	F 00Y 265 448	3165140567237
20,0	1200	1320	D	1	F 00Y 265 453	3165140567282
22,0	1200	1320	D	1	F 00Y 265 458	3165140567336
25,0	1200	1320	D	1	F 00Y 265 465	3165140567404
28,0	1200	1320	D	1	F 00Y 265 472	3165140567473
32,0	1200	1320	D	1	F 00Y 265 479	3165140567541
35,0	400	520	D	1	F 00Y 265 480	3165140567558
35,0	600	720	D	1	F 00Y 265 481	3165140567565
35,0	800	920	D	1	F 00Y 265 482	3165140567572
35,0	1200	1320	D	1	F 00Y 265 483	3165140567589
38,0	400	520	D	1	F 00Y 265 484	3165140567596
38,0	600	720	D	1	F 00Y 265 485	3165140567602
40,0	400	520	D	1	F 00Y 265 486	3165140567619
40,0	600	720	D	1	F 00Y 265 487	3165140567626
40,0	800	920	D	1	F 00Y 265 488	3165140567633
40,0	1200	1320	D	1	F 00Y 265 489	3165140567640
45,0	400	520	D	1	F 00Y 265 490	3165140567640
52,0	400	520	D	1	F 00Y 265 491	3165140567657

* 2-cutter





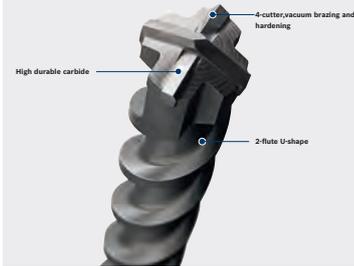
Hawera hammer drill bits:

POWER LS^{MAX}

Long lifetime in concrete.



max-4
lifetime in concrete



Highly durable carbide

> Good lifetime and wear resistance

4-cutter design, vacuum brazing and hardening

> Long lifetime
> No jamming in rebar

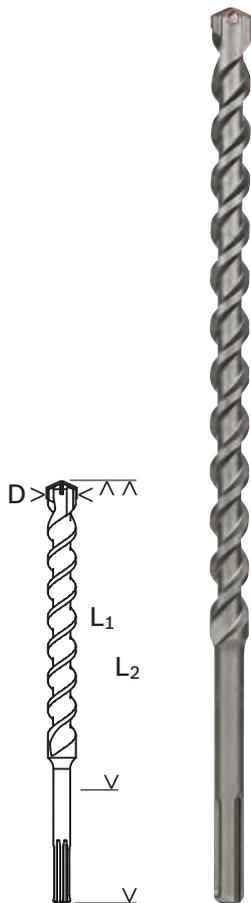
Power LSmax drill bits, SDS-max

Recommended for working on:

Concrete, limestone, masonry

User instructions:

For use in rotary hammers with SDS max holder



Diameter D mm	Working length L1 mm	Overall length L2 mm	Packaging type	Pack quantity	Part number	EAN code
12,0	200	340	A1	1	F 00Y 266 309	3165140833745
12,0	400	540	A1	1	F 00Y 266 310	3165140833752
14,0	200	340	A1	1	F 00Y 266 311	3165140833769
14,0	400	540	A1	1	F 00Y 266 312	3165140833776
16,0	200	340	A1	1	F 00Y 265 597	3165140574969
16,0	400	540	A1	1	F 00Y 265 598	3165140575157
18,0	200	340	A1	1	F 00Y 265 599	3165140574976
18,0	400	540	A1	1	F 00Y 265 600	3165140574983
20,0	200	320	A1	1	F 00Y 265 601	3165140574990
20,0	400	520	A1	1	F 00Y 265 602	3165140575003
22,0	200	320	A1	1	F 00Y 265 603	3165140575010
22,0	400	520	A1	1	F 00Y 265 604	3165140575027
24,0	200	320	A1	1	F 00Y 266 313	3165140833783
24,0	400	520	A1	1	F 00Y 266 314	3165140833790
25,0	200	320	A1	1	F 00Y 265 605	3165140575034
25,0	400	520	A1	1	F 00Y 265 606	3165140575041
28,0	200	320	A1	1	F 00Y 265 607	3165140575058
28,0	400	520	A1	1	F 00Y 265 608	3165140575065
30,0	200	320	A1	1	F 00Y 265 609	3165140575072
30,0	400	520	A1	1	F 00Y 265 610	3165140575089
32,0	200	320	A1	1	F 00Y 265 611	3165140575096
32,0	400	520	A1	1	F 00Y 265 612	3165140575102
35,0	400	520	A1	1	F 00Y 265 613	3165140575119
40,0	400	520	A1	1	F 00Y 265 614	3165140575126



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
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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



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.

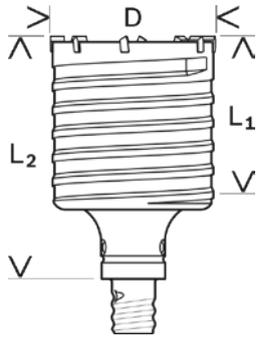


Diameter D mm	Core cutter depth (L1) mm	Working length (L2) mm	Number of teeth	Packaging type	Pack quantity	Part number	EAN code
68	80	160	6	M	1	F 00Y 265 389	3 165 140 557 641
68	80	420	6	M	1	F 00Y 265 390	3 165 140 557 658
82	80	160	8	M	1	F 00Y 265 391	3 165 140 557 665
90	80	160	8	M	1	F 00Y 265 393	3 165 140 557 689
125	80	300	11	M	1	F 00Y 265 396	3 165 140 557 719

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

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
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Adapter



-	200	SDS-max	A1	1	F 00Y 145 705	4 014 468 033 674
-	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
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Impact and rotary drill bits, cylindrical:

ACTIVEPOWER powerful and fast

The successor to **ELASTICSUPER**

3–20 mm diameter



Active centering 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**

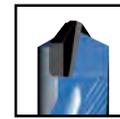


The full power of the machine is transferred to the drill bit. The is new to cylindrical drill bits. The benefits: no spinning, continuously fast drilling progress.



MULTI CONSTRUCTION versatile and fast

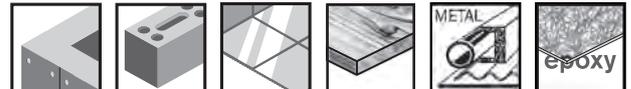
3–20 mm diameter



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

Application range	ACTIVE POWER				PERFECT POWER		BASIC POWER		MULTI CONSTRUCTION		SOFT CERAMICS		GRANITE POWER		MULTI CONSTRUCTION		POWER CERAMICS	
	Cylindrical CYL CYL									Hexagonal HEX								
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								●*								●*		

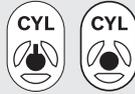
* non-impact use only
 ● very suitable
 ○ suitable



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



new

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

★ ★

•
• •
• • •

SOFTCERAMICS



3 - 16 mm diameter

Soft to medium density tiles, porcelain and ceramics

★ ★ ★

• • •
• • •
• • •

GRANITEPOWER



4 - 14 mm diameter

Natural stone, concrete, masonry, granite

★ ★ ★

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POWERCERAMICS **new**



3 - 10 mm diameter

Roofing tiles, soft to medium density tiles

★ ★ ★ ★

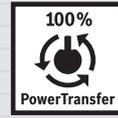
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Hawera impact and rotary drill bits:

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
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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
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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:

PERFECT POWER

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	Parr 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
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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**

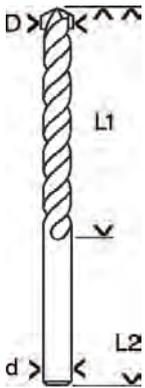
Concrete drill bits BasicPower

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
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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
6.5	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
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
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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
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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:

GRANITE POWER

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
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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

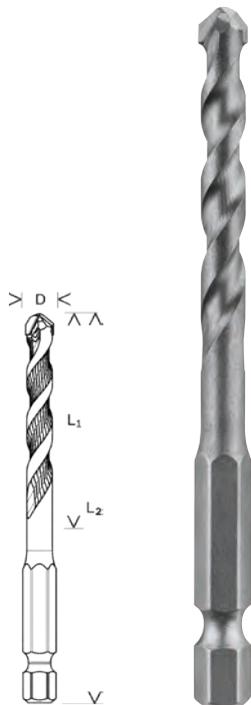
Tile drill bit PowerCeramics

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

<i>Set contents diameter mm</i>	<i>Working length L1 mm</i>	<i>Overall length L2 mm</i>	<i>Packaging type</i>	<i>Pack quantity</i>	<i>Part number</i>	<i>EAN code</i>
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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-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.

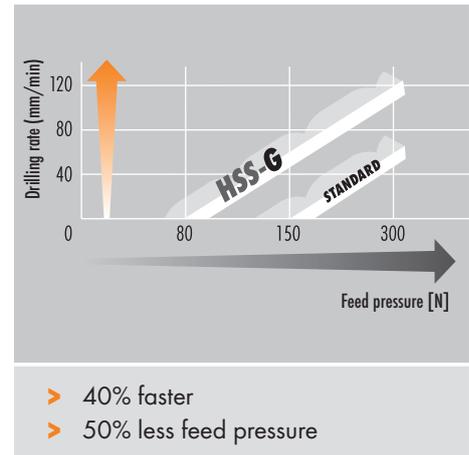


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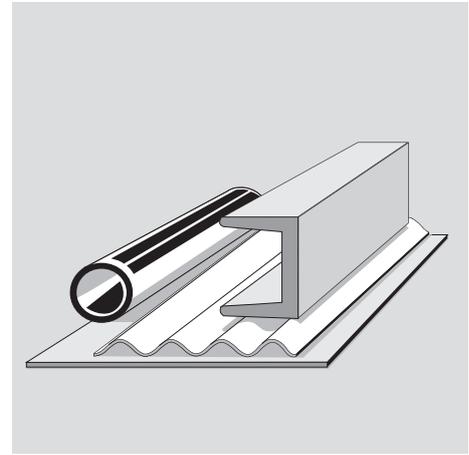
HSS-G

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.



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-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	●	●				
Stainless steels	550	HRB 85	A	N	●	●				Ester oil, cutting oil
	1100	HRC 34	D	N	●					
Spring steel	1100	HRC 34	A	N	●					Ester oil, cutting oil
Cast iron	800	HRC 22	A	N	●	●	●			Dry
Malleable cast iron	700	HRC95	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

Plastics	Optimum drill bit tip	Optimum flute angle	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/mm ²	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-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

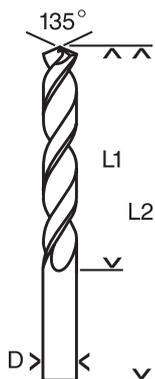
Metal twist drill bits HSS-Co, DIN 338
Recommended for working on:

 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

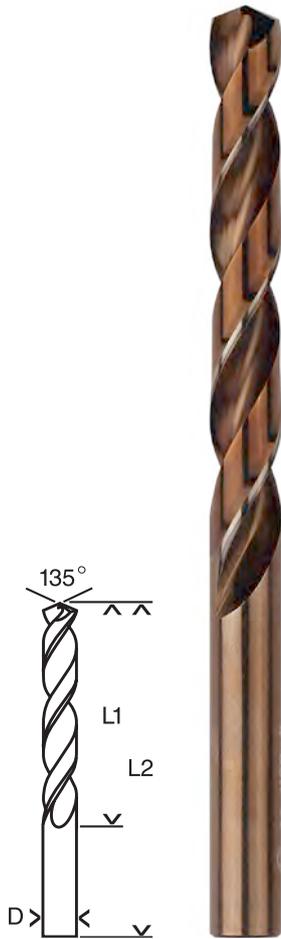


Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter mm	Packaging type	Pack quantity	Part number	EAN code
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Pack of 1

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

1; 1.5; 2; 2.5 3; 3.5; 4; 4.5 5; 5.5; 6; 6.5 7; 7.5; 8; 8.5 9; 9.5; 10	P	19	F 00Y 265 819	3 165 140 647 526
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25-piece ProBox metal drill bit set "HSS-Co" in plastic case

1; 1.5; 2; 2.5 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	P	25	F 00Y 265 823	3 165 140 647 564
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Hawera metal twist drill bits:

HSS-G

Precision-ground steel drill bit with wide range of applications

fast
DRILL

PRECISE

comfort
DRILL



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

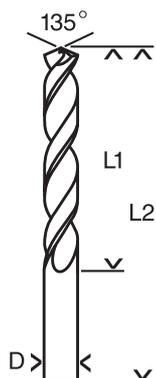
Metal twist drill bits HSS-G, DIN 338

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

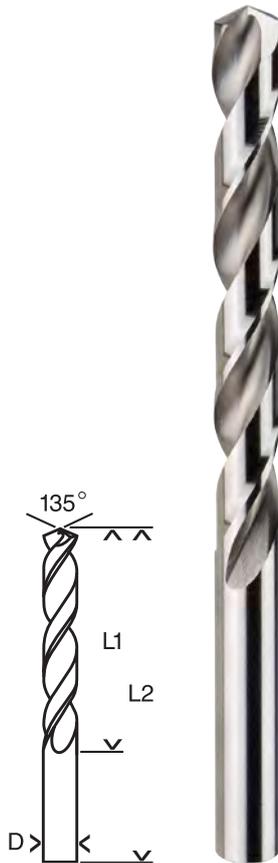
Diameter D mm	Working length L1 mm	Overall length L2 mm	Shank diameter mm	Packaging type	Pack quantity	Parr number	EAN code
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Pack of 1

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
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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	10	F 00Y 145 811	4 014 468 034 183
1.2	16	38	1.2	D	10	F 00Y 145 813	4 014 468 034 206
1.5	18	40	1.5	D	10	F 00Y 145 816	4 014 468 034 237
1.7	20	43	1.7	D	10	F 00Y 145 818	4 014 468 034 251
2.0	24	49	2.0	D	10	F 00Y 145 821	4 014 468 034 282
2.1	24	49	2.1	D	10	F 00Y 145 822	4 014 468 034 299
2.2	27	53	2.2	D	10	F 00Y 145 823	4 014 468 034 305
2.4	30	57	2.4	D	10	F 00Y 145 825	4 014 468 034 329
2.5	30	57	2.5	D	10	F 00Y 145 826	4 014 468 034 336
2.7	33	61	2.7	D	10	F 00Y 145 828	4 014 468 034 350
2.8	33	61	2.8	D	10	F 00Y 145 829	4 014 468 034 367
3.0	33	61	3.0	D	10	F 00Y 145 831	4 014 468 034 381
3.1	36	65	3.1	D	10	F 00Y 145 833	4 014 468 034 398
3.2	36	65	3.2	D	10	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
3.4	39	70	3.4	D	10	F 00Y 145 836	4 014 468 034 428
3.5	39	70	3.5	D	10	F 00Y 145 837	4 014 468 034 435



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
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Pack of 10



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
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
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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)

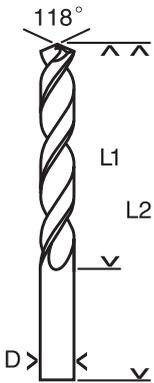
Recommended for working on:

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
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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)

<i>Diameter D mm</i>	<i>Working length L1 mm</i>	<i>Overall length L2 mm</i>	<i>Shank diameter mm</i>	<i>Packaging type</i>	<i>Pack quantity</i>	<i>Part number</i>	<i>EAN code</i>
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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

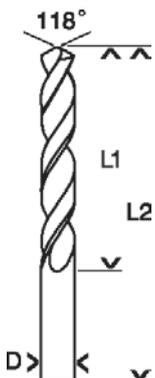
- > Long lifetime

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
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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
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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
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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
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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
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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
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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				

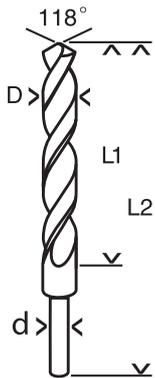
Metal twist drill bits HSS-R, with reduced shaft
Recommended for working on:

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
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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

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



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

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

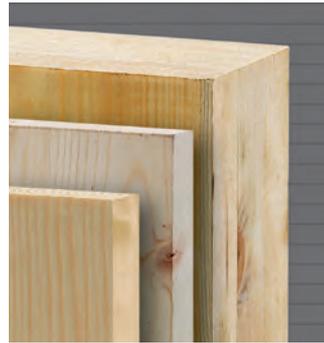


Auger bits

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	Diameter in mm	6 - 15	16 - 22	24 - 26	28 - 32	
	Length 235 mm Speed (rpm)	1600	1400	1000	800	
	Length 450 mm 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:

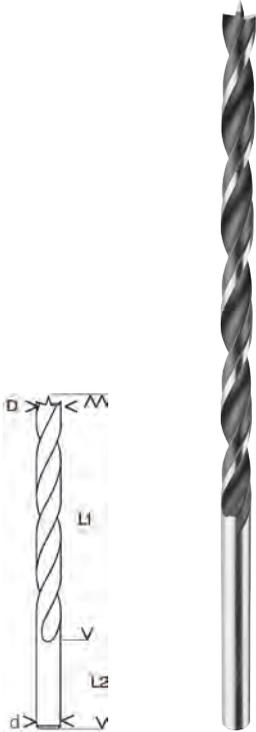
Rapid drilling, also with cordless drills

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

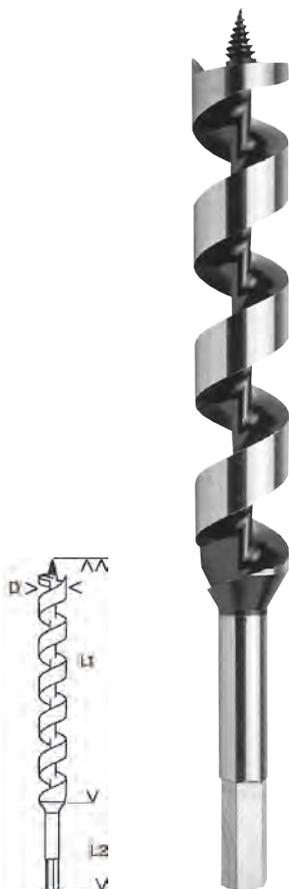
Recommended for working on:

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
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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
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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
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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
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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

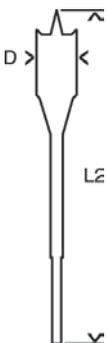
Recommended for working on:

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
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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
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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
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Accessories – Spade bits SelfCut Speed



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

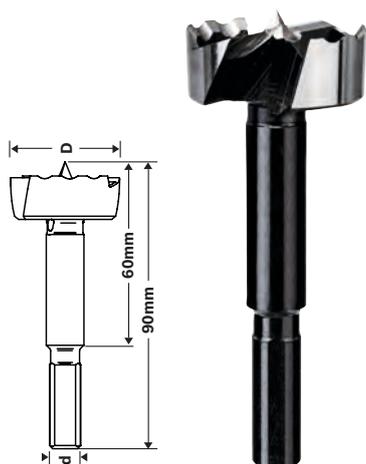
Soft and hard solid wood, chipboard and veneered wood panels

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
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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
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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
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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

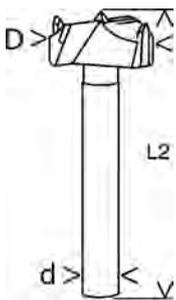
Recommended for working on:

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

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
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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

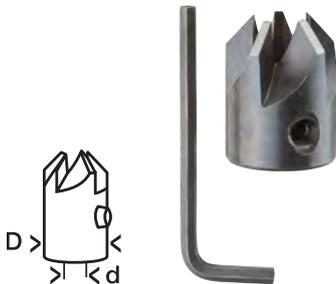
User instructions:

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
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Supplied with hexagon pin key but without drill bit

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 142 357	4 014 468 020 568





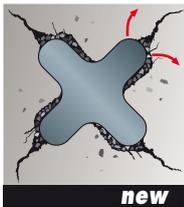
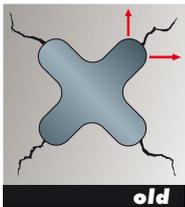
Chiselling

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.

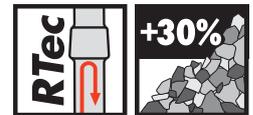
> Unique on the world market



2. Powerful

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

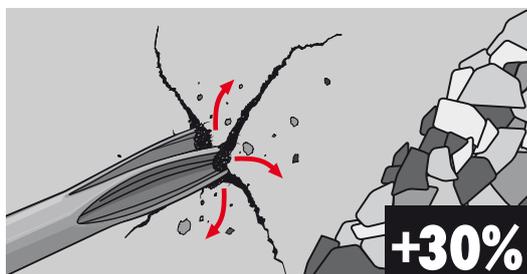
> 30% higher material removal rate



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



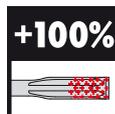
> Flat design + power ribs:

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.



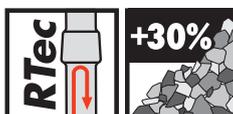
> Self-sharpener:

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%**.

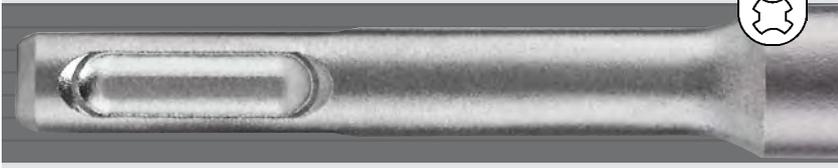


Hawera chisels:

With SDS-plus shank

Suitable for:

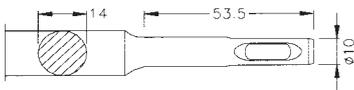
Light rotary and demolition hammers
< 5 kg



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
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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
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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
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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
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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

Hollow gouging chisel


140	22	A1	1	F 00Y 137 053	4 014 468 006 647
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Winged gouging chisel, gouging chisel


250	22	A1	1	F 00Y 145 288	4 014 468 032 875
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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
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Hawera chisels:

With SDS-max shank



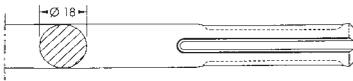
Suitable for:

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



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
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Pointed chisel

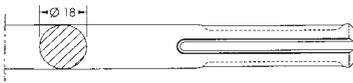


280	-	A1	1	F 00Y 139 728	4 014 468 019 289
400	-	L	20	F 00Y 219 375	4 014 468 053 788
600	-	A1	1	F 00Y 139 730	4 014 468 019 302

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
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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
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Hollow gouging chisel


300	26	A1	1	F 00Y 139 734	4 014 468 019 340
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Winged gouging chisel


380	35	A1	1	F 00Y 142 756	4 014 468 023 439
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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
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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
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Hawera chisels:

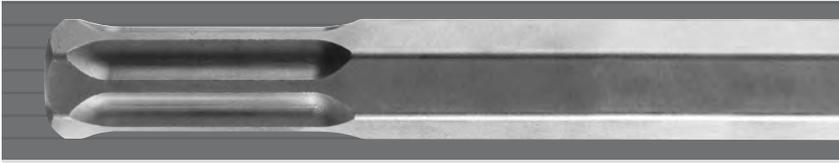
With hex shank

Suitable for:

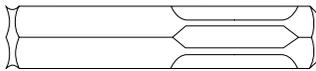
Heavy rotary and demolition hammers

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
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Pointed chisel



400	5	1	F 00Y 265 836	3 165 140 670 272
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Hawera chisels:

With hex shank

Suitable for:

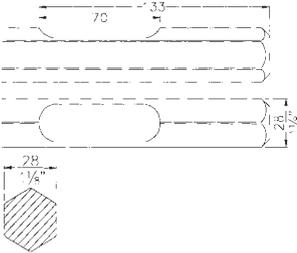
Heavy demolition hammers >12 kg

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
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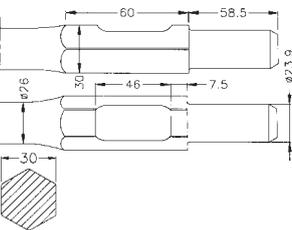
Pointed chisel

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

500	36	S	1	F 00Y 220 104	4 014 468 054 860
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Hex shank WAF 30



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

Self-sharpening

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

410	35	S	1	F 00Y 220 122	4 014 468 055 041
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A series of horizontal lines for writing notes, spanning the width of the page.





**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	HCSSOFT MATERIAL	precise and at accurate angles
	HCS CLEAN	fine and clean cuts		

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 METAL SANDWICH	precise and at accurate angles
	BIM CLEAN	fine, precise and clean		
	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	TCCERAMICS	extra long lifetime	TCSYNTHETICS	extra long lifetime and clean cuts
	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:



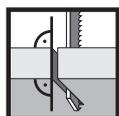
quick cut



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

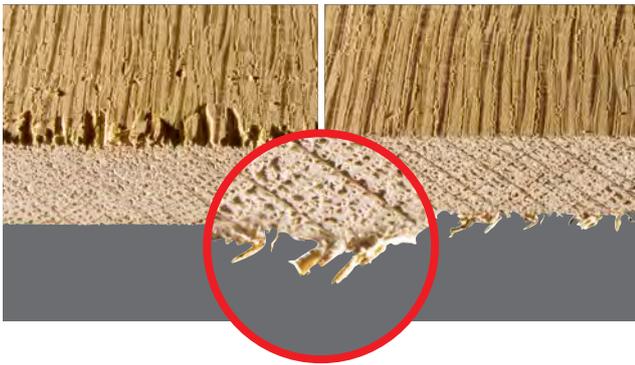
- > fine, clean cut

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



HCS EXTRA-CLEAN T308 B > in softwood

Curve cut



HCS EXTRA-CLEAN T308 BO > in softwood

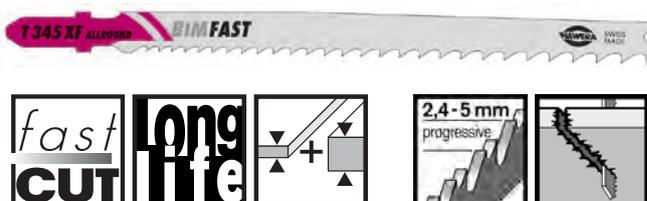
Powerful

in a wide variety of materials



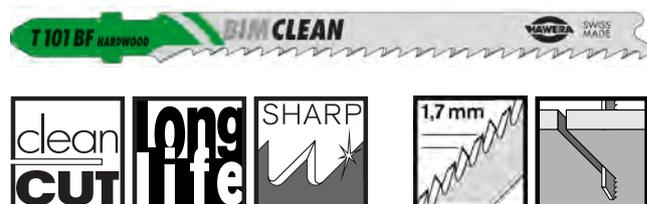
BIM FAST

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.



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



T 118 A

HSS

Milled, wavy set
Progressive tooth pitch
Thin sheet metals (1-3 mm)



0.7	92	1	I	5	F 00Y 240 526	4 014 468 010 040
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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
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HSS-Basic – for metal

Tooth pitch mm	Overall length mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
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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
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BIM-Flexible – for metal
Breakproof, long lifetime


Tooth pitch mm	Overall length mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
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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
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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
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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
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BIM-Flexible – for metal



Tooth pitch mm	Overall length mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
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T 118 BF
BIM

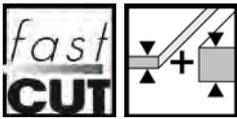


Milled, wavy set
Progressive tooth pitch
Medium-thick sheet metals, perforated sheet metals (2.5-6 mm)

1.9 - 2.3	92	1	I	5	F 00Y 144 225	4 014 468 028 380
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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
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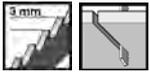


T 123 XF
BIM



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

HSS-Fast – for aluminium
Fast in aluminium, soft and non-ferrous metal


T 127 D

HSS



Milled, side set
Thin to thick sheet metals (3-15 mm), pipes + profiles, (diameter <30 mm)

3	100	1	1	5	F 00Y 240 528	4 014 468 010 075
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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
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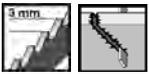


T 119 B0
HCS



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
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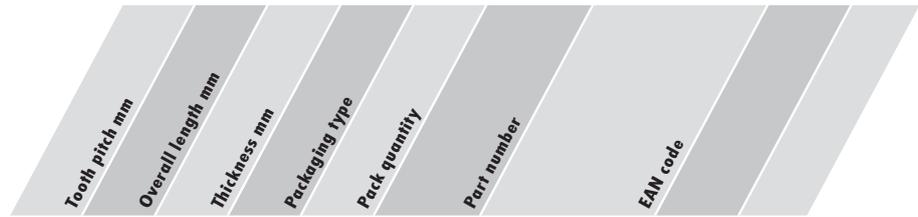
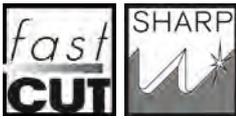


T 111 C
HCS



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
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HCS-Fast – for wood
For fast cuts


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



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	L	100	F 00Y 144 872	4 014 468 030 567



T 344 D

HCS

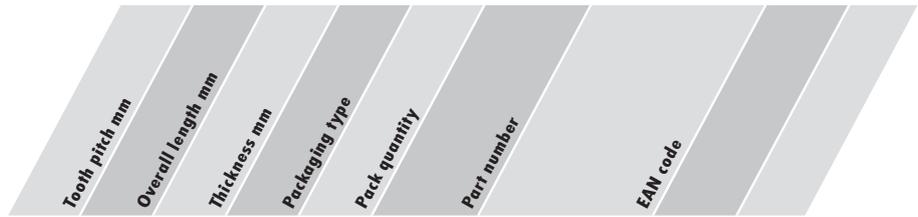
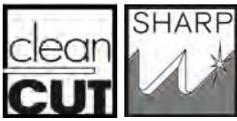
Ground, side set
Thick construction timber, softwood (5-100 mm), chipboards, wood core plywood, fibre boards



4	152	1.25	I	3	F 00Y 144 214	4 014 468 028 274
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HCS-Clean – for wood

Fine and clean cuts

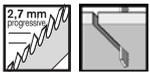


T 101 A0
HCS



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
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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	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
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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
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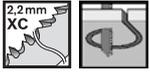


T 301 CD
HCS



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
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HCS-ExtraClean – for wood
For tear-free, particularly clean cuts


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
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T 308 B

HCS

Taper ground

2.2 XC tooth pitch

Softwood and non-abrasive wooden materials (5-50 mm)

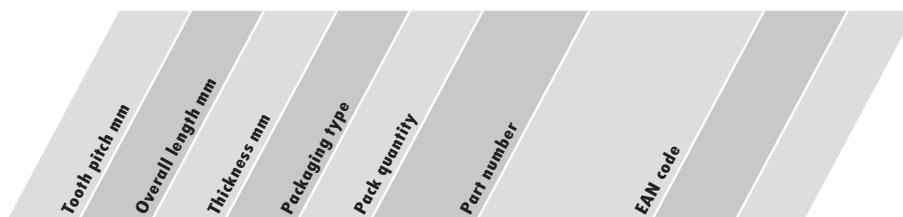


2.2 XC	117	1.5	I	5	F 00Y 265 152	3 165 140 470 230
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BIM-Clean – for hardwood

For fine cuts, also in hardwood

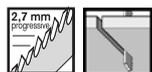


T 101 AOF
BIM



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
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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
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BIM-Fast – for wood with metal
Universal and fast through thick and thin


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 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

HCSCLEAN

fine and clean cuts

HCS FIBER INSULATION precise and at accurate angles

Carbon steel for use in **softer materials**, such as wood, fibre wood boards, soft plastics.

BIM

BIM FLEXIBLE

breakproof, long lifetime

BIM PRECISE

exact cutting and long lifetime

BIM FAST

fast through thick and thin

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

TC EXTRA-LONGLIFE

indestructible for the most extreme applications

TCBRICK

fast cutting and long lifetime

TCCAST-CERAMICS

breakproof, long lifetime

TC FIBER+PLASTER

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

Quantity:
shows how many saw blades there are in the packaging
e.g. 1 pc

Product name:
defines the blade material and an important product quality
e.g. carbide for extra-long lifetime

Main dimensions:
e.g. 150 x 25 x 1.25 mm
(total length x width x thickness)

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

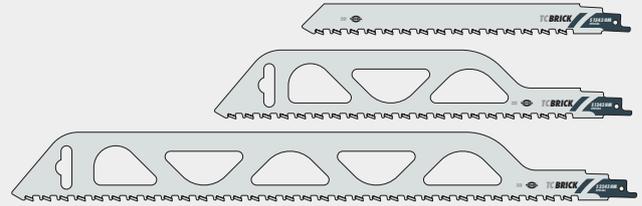
Blade models:
e.g. S956XHM

Product part number:
e.g. (F 00Y) 266 420

More Hawera saw blades with **carbide technology**

TCBRICK

for stone-based mineral materials



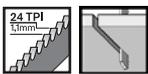
Part number	Blade models	Length
F 00Y 265 108	S 1543 HM	240 mm
F 00Y 265 109	S 1243 HM	300 mm
F 00Y 265 110	S 2243 HM	455 mm



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
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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
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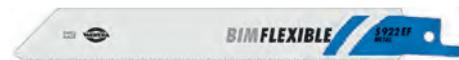


S 922 EF

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

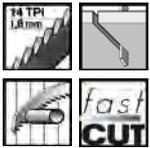
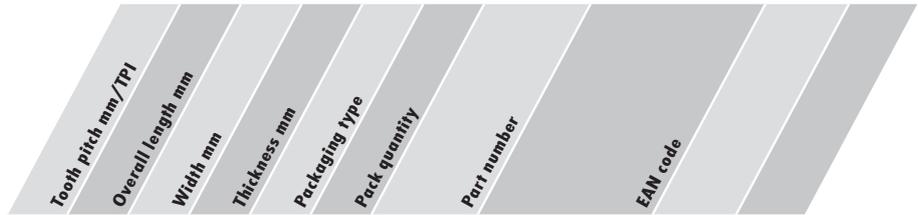
Thick sheet metals, perforated sheet metals (3-8 mm), solid pipes/profiles (<100 mm), quick cut



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

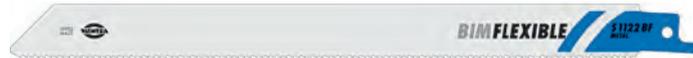


BIM-Flexible – for metal



S 1122 BF

BIM



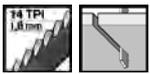
Milled, side set

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

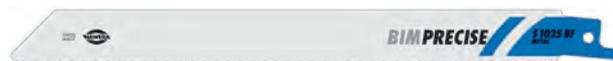
BIM-Precise – for metal

Exact cutting and long lifetime



S 1025 BF

BIM



Milled, side set

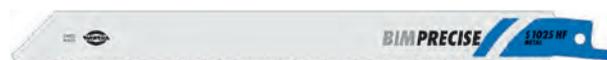
Medium to thick sheet metals (2-8 mm), solid pipes/profiles (<150 mm)

1.8/14	200	19	1.25	I	5	F 00Y 211 585	4 014 468 045 479
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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
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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
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BIM-Precise – for metal

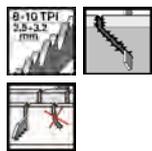

S 1126 CHF

BIM

Milled, side set
Quick cuts at accurate angles in thick-walled steel pipes and profiles



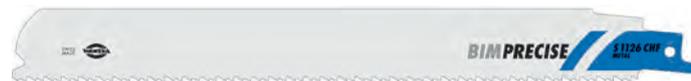
25-32/ 8+10	225	25	1.1	I	5	F 00Y 265 138	3 165 140 457 934
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S 920 CF

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
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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
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BIM-Fast – for metal
Fast through thick and thin


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)



14-34/ 8-14	150	19	0.9	I	5	F 00Y 202 463	4 014 468 040 153
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Hawera sabre saw blades for wood applications

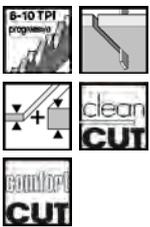


HCS-Fast – for wood

For fast cuts



Tooth pitch mm/TPI	Overall length mm	Width mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
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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)

25-4.3/ 6-10	200	19	1.25	I	5	F 00Y 202 462	4 014 468 040 146
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S 1531 L

HCS



Ground, side set

Coarse wood, free of nails (<190 mm), pruning green wood (<190 mm), firewood (<190 mm)

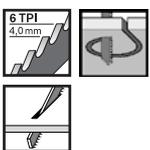
5/5	240	19	1.5	I	5	F 00Y 121 611	4 014 468 010 552
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HCS-Clean – for wood

Fine and clean cuts



Tooth pitch mm/TPI	Overall length mm	Width mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
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S 644 D

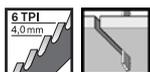
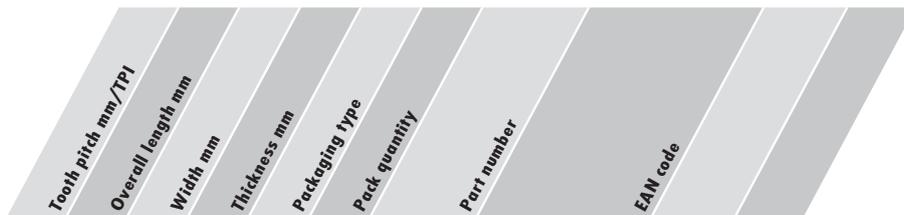
HCS



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
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HCS-Clean – for wood

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
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Hawera sabre saw blades for all-round applications

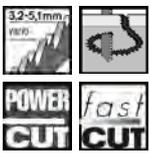


BIM-Flexible – for wood with metal

Breakproof, long lifetime



Tooth pitch mm/TPI	Overall length mm	Width mm	Thickness mm	Packaging type	Pack quantity	Part number	EAN code
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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

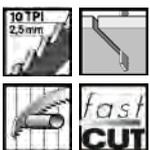
BIM

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

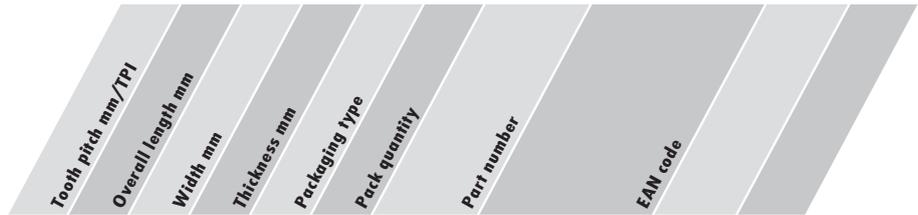
BIM

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


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



1.8-2.6/ 10-14	225	19	0.9	I	5	F 00Y 121 613	4 014 468 017 711
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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



1.8-2.6/ 10-14	300	19	0.9	E	3	F 00Y 144 236	4 014 468 028 472
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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
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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
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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
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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
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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
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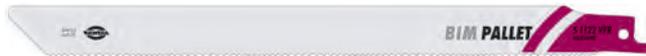
S 1122 VFR

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
1.8-2.6/ 10-14	225	19	0.9	I	200	F 00Y 266 250	3 165 140 773 669

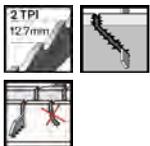

Hawera sabre saw blades for special applications

TC-Brick – for poroton and bricks
Fast cutting and long lifetime

S 1543 HM
TC

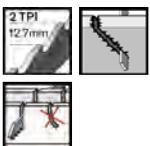
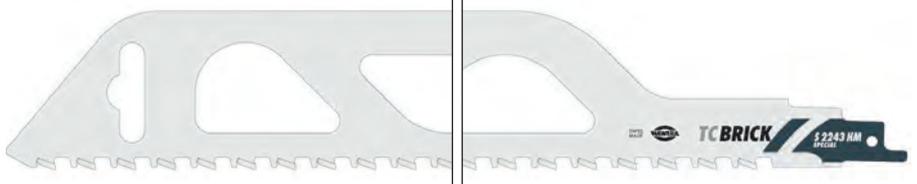

TC-tipped, ground
For small bricks up to a material thickness of 150 mm

12.7/2	240	23	1.5	I	1	F 00Y 265 108	3 165 140 441 865
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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
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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
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A series of horizontal lines for writing notes, spanning the width of the page.





Sets

Concrete and masonry drill bit sets

Concrete drill bits ActivePower



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

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

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



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

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

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

<i>Set contents diameter mm</i>	<i>Packaging type</i>	<i>Pack quantity</i>	<i>Part number</i>	<i>EAN code</i>
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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				

<i>Set contents diameter mm</i>	<i>Working length L1 mm</i>	<i>Overall length L2 mm</i>	<i>Packaging type</i>	<i>Pack quantity</i>	<i>Part number</i>	<i>EAN code</i>
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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
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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
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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 PowerLSplus

<i>Set contents diameter mm</i>	<i>Working length(s) mm</i>	<i>Overall length(s) mm</i>	<i>Packaging type</i>	<i>Pack quantity</i>	<i>Part number</i>	<i>EAN code</i>
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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-Co, DIN 338


<i>Set contents diameter mm</i>	<i>Packaging type</i>	<i>Pack quantity</i>	<i>Part number</i>	<i>EAN code</i>
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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
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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
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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
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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				

Wood drill bit sets
Brad point drill bits Standard

<i>Set contents diameter mm</i>	<i>Packaging type</i>	<i>Pack quantity</i>	<i>Part number</i>	<i>EAN code</i>
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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
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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
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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
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Spade bits SelfCut Speed



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



Set contents diameter mm	Packaging type	Pack quantity	Part number	EAN code
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5-piece hinge cutting bit set in wooden case

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


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



Chisel sets

SDS-plus shank

Overall length mm

Chisel cutting edge mm

Packaging type

Pack quantity

Part number

EAN code



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
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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
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SDS-max shank

Overall length mm

Chisel cutting edge mm

Packaging type

Pack quantity

Part number

EAN code



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
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Part number index

Part number	Page	Part number	Page	Part number	Page	Part number	Page
F 00Y 101 470	21	F 00Y 104 368	44	F 00Y 104 943	92	F 00Y 124 076	83
F 00Y 101 471	21	F 00Y 104 369	44	F 00Y 104 944	92	F 00Y 124 077	83
F 00Y 101 472	21	F 00Y 104 370	44	F 00Y 104 957	81, 139	F 00Y 124 078	83
F 00Y 101 473	21	F 00Y 104 387	44	F 00Y 104 958	81, 139	F 00Y 124 080	82
F 00Y 101 474	22	F 00Y 104 620	22	F 00Y 105 742	80	F 00Y 124 081	82
F 00Y 101 475	22	F 00Y 104 621	22	F 00Y 105 743	80	F 00Y 124 082	82
F 00Y 101 476	22	F 00Y 104 623	22	F 00Y 105 744	80	F 00Y 124 083	83
F 00Y 101 477	22	F 00Y 104 624	22	F 00Y 105 745	80	F 00Y 124 084	83
F 00Y 101 478	22	F 00Y 104 625	23	F 00Y 105 746	80	F 00Y 124 085	83
F 00Y 101 479	22	F 00Y 104 626	23	F 00Y 105 810	80	F 00Y 124 086	83
F 00Y 101 480	22	F 00Y 104 627	23	F 00Y 105 811	80	F 00Y 124 087	83
F 00Y 101 481	22	F 00Y 104 629	23	F 00Y 105 812	80	F 00Y 124 088	83
F 00Y 101 482	22	F 00Y 104 630	23	F 00Y 105 813	80	F 00Y 124 357	83
F 00Y 101 483	22	F 00Y 104 631	23	F 00Y 105 814	80	F 00Y 124 358	83
F 00Y 101 484	22	F 00Y 104 632	23	F 00Y 105 815	80	F 00Y 124 390	60
F 00Y 101 485	22	F 00Y 104 633	22	F 00Y 105 816	80	F 00Y 124 391	60
F 00Y 101 486	22	F 00Y 104 634	23	F 00Y 105 817	80	F 00Y 124 392	60
F 00Y 101 487	22	F 00Y 104 635	22	F 00Y 105 818	80	F 00Y 124 393	60
F 00Y 101 488	22	F 00Y 104 836	91	F 00Y 105 819	80	F 00Y 124 394	60
F 00Y 101 489	22	F 00Y 104 837	91	F 00Y 105 820	80	F 00Y 124 396	60
F 00Y 101 490	22	F 00Y 104 838	91	F 00Y 105 821	80	F 00Y 124 397	60
F 00Y 101 491	22	F 00Y 104 839	91	F 00Y 105 822	80	F 00Y 124 398	60
F 00Y 101 492	22	F 00Y 104 840	91	F 00Y 105 823	80	F 00Y 124 399	60
F 00Y 101 494	22	F 00Y 104 841	91	F 00Y 105 824	80	F 00Y 124 400	60
F 00Y 101 495	23	F 00Y 104 889	90	F 00Y 105 825	80	F 00Y 124 401	60
F 00Y 101 496	23	F 00Y 104 890	90	F 00Y 120 800	71, 138	F 00Y 124 402	60
F 00Y 101 497	23	F 00Y 104 891	90	F 00Y 121 600	124	F 00Y 124 403	60
F 00Y 104 271	22	F 00Y 104 892	90	F 00Y 121 601	125	F 00Y 124 404	60
F 00Y 104 272	23	F 00Y 104 893	90	F 00Y 121 611	124	F 00Y 124 405	60
F 00Y 104 276	23	F 00Y 104 894	90	F 00Y 121 612	126	F 00Y 124 406	60
F 00Y 104 279	23	F 00Y 104 895	90	F 00Y 121 613	127	F 00Y 124 407	60
F 00Y 104 280	23	F 00Y 104 896	87	F 00Y 123 004	74	F 00Y 124 563	26
F 00Y 104 282	23	F 00Y 104 897	87	F 00Y 123 005	74	F 00Y 124 564	26
F 00Y 104 284	23	F 00Y 104 898	87	F 00Y 123 006	74	F 00Y 124 565	26
F 00Y 104 285	23	F 00Y 104 899	87	F 00Y 123 007	74	F 00Y 124 566	26
F 00Y 104 288	23	F 00Y 104 900	87	F 00Y 123 695	74	F 00Y 124 567	26
F 00Y 104 289	23	F 00Y 104 901	87	F 00Y 123 696	74	F 00Y 124 568	26
F 00Y 104 290	23	F 00Y 104 902	87	F 00Y 123 698	74	F 00Y 124 569	26
F 00Y 104 291	23	F 00Y 104 903	87	F 00Y 123 938	140	F 00Y 124 570	26
F 00Y 104 292	23	F 00Y 104 904	87	F 00Y 123 976	91	F 00Y 124 571	26
F 00Y 104 293	23	F 00Y 104 910	88	F 00Y 123 977	91	F 00Y 124 572	26
F 00Y 104 294	23	F 00Y 104 911	88	F 00Y 123 978	91	F 00Y 132 430	22
F 00Y 104 300	23	F 00Y 104 912	88	F 00Y 123 979	91	F 00Y 132 868	69
F 00Y 104 303	22	F 00Y 104 913	88	F 00Y 124 065	82	F 00Y 133 995	22
F 00Y 104 304	23	F 00Y 104 914	88	F 00Y 124 066	82	F 00Y 133 996	22
F 00Y 104 305	23	F 00Y 104 915	88	F 00Y 124 067	82	F 00Y 135 687	113
F 00Y 104 360	44	F 00Y 104 916	88	F 00Y 124 068	82	F 00Y 136 246	22
F 00Y 104 361	44	F 00Y 104 917	88	F 00Y 124 069	83	F 00Y 136 979	23
F 00Y 104 362	44	F 00Y 104 918	88	F 00Y 124 070	83	F 00Y 136 980	23
F 00Y 104 363	44	F 00Y 104 919	88	F 00Y 124 071	83	F 00Y 136 981	23
F 00Y 104 364	44	F 00Y 104 920	88	F 00Y 124 072	83	F 00Y 136 982	23
F 00Y 104 365	44	F 00Y 104 921	88	F 00Y 124 073	83	F 00Y 136 984	24
F 00Y 104 366	44	F 00Y 104 941	92	F 00Y 124 074	83	F 00Y 136 985	24
F 00Y 104 367	44	F 00Y 104 942	92	F 00Y 124 075	83	F 00Y 136 986	24

Part number index

Part number	Page						
F 00Y 136 987	24	F 00Y 141 296	44	F 00Y 144 246	122	F 00Y 145 182	60
F 00Y 136 988	24	F 00Y 141 317	27	F 00Y 144 249	126	F 00Y 145 183	60
F 00Y 136 989	24	F 00Y 141 318	27	F 00Y 144 273	22	F 00Y 145 184	60
F 00Y 137 053	97	F 00Y 141 353	92	F 00Y 144 862	108	F 00Y 145 185	60
F 00Y 137 235	23	F 00Y 141 354	92	F 00Y 144 870	114	F 00Y 145 186	60
F 00Y 137 806	24	F 00Y 141 355	92	F 00Y 144 872	113	F 00Y 145 187	60
F 00Y 137 931	22	F 00Y 141 356	92	F 00Y 145 131	66	F 00Y 145 218	66
F 00Y 138 071	22	F 00Y 141 359	82	F 00Y 145 132	66	F 00Y 145 288	97
F 00Y 138 072	23	F 00Y 141 360	88	F 00Y 145 133	66	F 00Y 145 300	60
F 00Y 138 073	23	F 00Y 141 361	88	F 00Y 145 134	66	F 00Y 145 571	34
F 00Y 138 074	23	F 00Y 141 362	88	F 00Y 145 135	66	F 00Y 145 572	34
F 00Y 138 075	23	F 00Y 141 363	88	F 00Y 145 136	66	F 00Y 145 573	34
F 00Y 138 076	23	F 00Y 141 364	88	F 00Y 145 137	66	F 00Y 145 574	34
F 00Y 138 256	81	F 00Y 141 365	88	F 00Y 145 138	66	F 00Y 145 575	34
F 00Y 138 257	81	F 00Y 141 366	88	F 00Y 145 139	66	F 00Y 145 576	34
F 00Y 138 258	81	F 00Y 141 367	88	F 00Y 145 140	66	F 00Y 145 577	34
F 00Y 138 259	81	F 00Y 141 939	22	F 00Y 145 141	66	F 00Y 145 578	34
F 00Y 138 260	81	F 00Y 141 941	22	F 00Y 145 142	66	F 00Y 145 703	110
F 00Y 138 261	81	F 00Y 141 943	22	F 00Y 145 143	66	F 00Y 145 704	117
F 00Y 138 262	81	F 00Y 142 455	27	F 00Y 145 144	66	F 00Y 145 705	34
F 00Y 138 263	81	F 00Y 142 459	27	F 00Y 145 145	66	F 00Y 145 706	34
F 00Y 138 337	22	F 00Y 142 460	27	F 00Y 145 146	66	F 00Y 145 724	123
F 00Y 138 338	22	F 00Y 142 461	27	F 00Y 145 147	66	F 00Y 145 755	62
F 00Y 138 340	22	F 00Y 142 462	27	F 00Y 145 148	66	F 00Y 145 757	62
F 00Y 138 341	23	F 00Y 142 463	27	F 00Y 145 150	66	F 00Y 145 760	62
F 00Y 138 369	44	F 00Y 142 650	82	F 00Y 145 151	66	F 00Y 145 762	62
F 00Y 138 473	23	F 00Y 142 651	83	F 00Y 145 152	66	F 00Y 145 764	62
F 00Y 138 552	23	F 00Y 142 652	83	F 00Y 145 153	59	F 00Y 145 765	62
F 00Y 138 555	23	F 00Y 142 653	83	F 00Y 145 154	59	F 00Y 145 773	62
F 00Y 139 693	31	F 00Y 142 654	83	F 00Y 145 155	59	F 00Y 145 775	62
F 00Y 139 694	31	F 00Y 142 655	83	F 00Y 145 156	59	F 00Y 145 776	62
F 00Y 139 695	31	F 00Y 142 656	83	F 00Y 145 157	59	F 00Y 145 777	62
F 00Y 139 696	31	F 00Y 142 657	83	F 00Y 145 159	59	F 00Y 145 778	62
F 00Y 139 697	31	F 00Y 142 679	24	F 00Y 145 160	59	F 00Y 145 779	63
F 00Y 139 698	31	F 00Y 142 680	24	F 00Y 145 161	59	F 00Y 145 781	63
F 00Y 139 699	31	F 00Y 142 681	24	F 00Y 145 162	59	F 00Y 145 782	63
F 00Y 139 700	31	F 00Y 142 682	24	F 00Y 145 163	60	F 00Y 145 784	63
F 00Y 139 728	98	F 00Y 142 756	99	F 00Y 145 164	60	F 00Y 145 785	63
F 00Y 139 730	98	F 00Y 143 132	22	F 00Y 145 165	60	F 00Y 145 786	63
F 00Y 139 731	98	F 00Y 143 134	22	F 00Y 145 167	60	F 00Y 145 787	63
F 00Y 139 733	98	F 00Y 143 186	21	F 00Y 145 168	60	F 00Y 145 788	63
F 00Y 139 734	99	F 00Y 143 624	68	F 00Y 145 169	60	F 00Y 145 789	63
F 00Y 139 736	99	F 00Y 143 625	69	F 00Y 145 170	60	F 00Y 145 790	63
F 00Y 139 737	99	F 00Y 143 626	69	F 00Y 145 171	60	F 00Y 145 791	63
F 00Y 139 738	99	F 00Y 144 000	23	F 00Y 145 172	60	F 00Y 145 792	63
F 00Y 139 806	21	F 00Y 144 214	113	F 00Y 145 173	60	F 00Y 145 793	63
F 00Y 140 461	44	F 00Y 144 215	116	F 00Y 145 174	60	F 00Y 145 794	63
F 00Y 140 463	44	F 00Y 144 225	110	F 00Y 145 175	60	F 00Y 145 795	63
F 00Y 140 465	44	F 00Y 144 234	126	F 00Y 145 176	60	F 00Y 145 796	63
F 00Y 140 975	23	F 00Y 144 236	127	F 00Y 145 177	60	F 00Y 145 797	63
F 00Y 140 976	23	F 00Y 144 239	121	F 00Y 145 178	60	F 00Y 145 798	63
F 00Y 141 256	44	F 00Y 144 242	121	F 00Y 145 179	60	F 00Y 145 799	63
F 00Y 141 257	44	F 00Y 144 243	121	F 00Y 145 180	60	F 00Y 145 800	63
F 00Y 141 295	44	F 00Y 144 245	121	F 00Y 145 181	60	F 00Y 145 801	63

Part number index

Part number	Page						
F 00Y 145 802	63	F 00Y 201 985	41	F 00Y 202 333	42	F 00Y 219 375	98
F 00Y 145 803	63	F 00Y 201 986	41	F 00Y 202 334	42	F 00Y 220 102	101
F 00Y 145 811	63	F 00Y 201 988	41	F 00Y 202 335	42	F 00Y 220 104	101
F 00Y 145 813	63	F 00Y 201 991	41	F 00Y 202 336	42	F 00Y 220 122	101
F 00Y 145 816	63	F 00Y 201 993	41	F 00Y 202 337	42	F 00Y 222 485	23
F 00Y 145 818	63	F 00Y 201 994	41	F 00Y 202 338	42	F 00Y 222 530	97
F 00Y 145 821	63	F 00Y 201 997	41	F 00Y 202 349	43	F 00Y 222 531	97
F 00Y 145 822	63	F 00Y 201 999	41	F 00Y 202 351	43	F 00Y 224 772	133
F 00Y 145 823	63	F 00Y 202 000	41	F 00Y 202 366	47	F 00Y 224 792	46
F 00Y 145 825	63	F 00Y 202 001	42	F 00Y 202 367	47	F 00Y 224 793	46
F 00Y 145 826	63	F 00Y 202 002	42	F 00Y 202 436	113	F 00Y 224 795	46
F 00Y 145 828	63	F 00Y 202 003	42	F 00Y 202 437	110	F 00Y 224 798	46
F 00Y 145 829	63	F 00Y 202 004	42	F 00Y 202 439	117	F 00Y 225 094	96
F 00Y 145 831	63	F 00Y 202 005	42	F 00Y 202 440	113	F 00Y 227 239	99
F 00Y 145 833	63	F 00Y 202 006	42	F 00Y 202 462	124	F 00Y 227 240	99
F 00Y 145 834	63	F 00Y 202 007	42	F 00Y 202 825	126	F 00Y 227 241	99
F 00Y 145 835	63	F 00Y 202 008	42	F 00Y 202 826	126	F 00Y 227 535	96
F 00Y 145 836	63	F 00Y 202 009	42	F 00Y 202 828	121	F 00Y 227 536	96
F 00Y 145 837	63	F 00Y 202 010	42	F 00Y 202 829	121	F 00Y 227 977	97
F 00Y 145 839	63	F 00Y 202 011	42	F 00Y 202 830	121	F 00Y 228 054	99
F 00Y 145 840	64	F 00Y 202 012	42	F 00Y 202 831	122	F 00Y 228 058	84
F 00Y 145 841	64	F 00Y 202 013	42	F 00Y 202 833	126	F 00Y 228 059	84
F 00Y 145 843	64	F 00Y 202 014	42	F 00Y 202 868	22	F 00Y 228 060	84
F 00Y 145 844	64	F 00Y 202 015	42	F 00Y 203 262	21	F 00Y 228 061	84
F 00Y 145 845	64	F 00Y 202 016	42	F 00Y 203 263	21	F 00Y 228 062	84
F 00Y 145 847	64	F 00Y 202 017	42	F 00Y 203 438	41	F 00Y 228 063	84
F 00Y 145 848	64	F 00Y 202 020	42	F 00Y 203 439	42	F 00Y 228 064	84
F 00Y 145 851	64	F 00Y 202 021	42	F 00Y 205 436	23	F 00Y 228 065	84
F 00Y 145 852	64	F 00Y 202 023	42	F 00Y 205 437	21	F 00Y 228 066	84
F 00Y 145 853	64	F 00Y 202 024	42	F 00Y 207 717	83	F 00Y 228 067	84
F 00Y 145 854	64	F 00Y 202 026	42	F 00Y 207 718	83	F 00Y 228 068	84
F 00Y 145 855	64	F 00Y 202 033	41	F 00Y 210 133	22	F 00Y 228 069	84
F 00Y 145 858	64	F 00Y 202 053	45	F 00Y 210 134	22	F 00Y 228 070	85
F 00Y 145 863	64	F 00Y 202 054	45	F 00Y 211 585	122	F 00Y 228 071	85
F 00Y 145 864	64	F 00Y 202 055	45	F 00Y 211 587	122	F 00Y 228 072	85
F 00Y 145 865	64	F 00Y 202 056	45	F 00Y 211 589	123	F 00Y 228 073	85
F 00Y 145 868	64	F 00Y 202 057	45	F 00Y 211 590	127	F 00Y 228 074	85
F 00Y 145 871	64	F 00Y 202 058	45	F 00Y 211 591	127	F 00Y 228 075	85
F 00Y 145 873	64	F 00Y 202 059	45	F 00Y 211 592	128	F 00Y 228 076	85
F 00Y 145 878	64	F 00Y 202 060	45	F 00Y 211 870	23	F 00Y 228 077	85
F 00Y 145 883	64	F 00Y 202 061	45	F 00Y 211 871	23	F 00Y 228 078	85
F 00Y 145 885	64	F 00Y 202 063	45	F 00Y 211 873	24	F 00Y 228 079	85
F 00Y 145 888	64	F 00Y 202 064	45	F 00Y 211 874	24	F 00Y 228 080	85
F 00Y 145 893	64	F 00Y 202 065	45	F 00Y 211 875	21	F 00Y 228 081	85
F 00Y 145 898	64	F 00Y 202 066	45	F 00Y 212 046	82	F 00Y 228 082	85
F 00Y 145 903	64	F 00Y 202 067	45	F 00Y 212 047	82	F 00Y 228 083	85
F 00Y 145 904	64	F 00Y 202 068	45	F 00Y 212 049	82	F 00Y 228 084	85
F 00Y 145 907	64	F 00Y 202 069	46	F 00Y 212 050	82	F 00Y 228 085	85
F 00Y 145 909	63	F 00Y 202 070	46	F 00Y 212 051	83	F 00Y 228 086	85
F 00Y 145 911	63	F 00Y 202 071	46	F 00Y 212 052	83	F 00Y 228 087	85
F 00Y 145 935	60	F 00Y 202 294	83	F 00Y 212 053	83	F 00Y 228 088	85
F 00Y 201 979	41	F 00Y 202 295	83	F 00Y 212 054	82	F 00Y 228 089	85
F 00Y 201 981	41	F 00Y 202 296	83	F 00Y 212 239	23	F 00Y 228 090	85
F 00Y 201 983	41	F 00Y 202 297	83	F 00Y 219 374	98	F 00Y 228 091	85

Part number index

Part number	Page						
F 00Y 228 092	85	F 00Y 240 898	73	F 00Y 241 176	69	F 00Y 241 287	70
F 00Y 228 093	85	F 00Y 241 067	69	F 00Y 241 177	69	F 00Y 241 288	70
F 00Y 228 094	85	F 00Y 241 068	69	F 00Y 241 178	69	F 00Y 241 289	70
F 00Y 228 095	85	F 00Y 241 069	69	F 00Y 241 179	69	F 00Y 241 290	70
F 00Y 228 096	85	F 00Y 241 070	69	F 00Y 241 180	69	F 00Y 241 291	70
F 00Y 228 097	85	F 00Y 241 071	69	F 00Y 241 182	69	F 00Y 241 292	70
F 00Y 228 098	85	F 00Y 241 072	69	F 00Y 241 183	69	F 00Y 241 293	70
F 00Y 228 099	85	F 00Y 241 073	69	F 00Y 241 184	69	F 00Y 241 294	70
F 00Y 228 100	85	F 00Y 241 074	69	F 00Y 241 185	69	F 00Y 241 295	70
F 00Y 228 101	85	F 00Y 241 075	70	F 00Y 241 186	69	F 00Y 241 296	70
F 00Y 228 102	86	F 00Y 241 076	70	F 00Y 241 187	69	F 00Y 241 297	70
F 00Y 228 127	86	F 00Y 241 077	70	F 00Y 241 188	69	F 00Y 241 298	71
F 00Y 229 084	98	F 00Y 241 078	70	F 00Y 241 189	69	F 00Y 241 299	71
F 00Y 229 085	99	F 00Y 241 079	70	F 00Y 241 190	69	F 00Y 241 300	71
F 00Y 240 160	66	F 00Y 241 080	70	F 00Y 241 191	69	F 00Y 241 301	71
F 00Y 240 165	66	F 00Y 241 081	70	F 00Y 241 192	69	F 00Y 241 302	71
F 00Y 240 170	66	F 00Y 241 082	70	F 00Y 241 193	69	F 00Y 241 303	71
F 00Y 240 172	66	F 00Y 241 083	70	F 00Y 241 247	69	F 00Y 241 304	71
F 00Y 240 175	66	F 00Y 241 084	70	F 00Y 241 248	69	F 00Y 241 305	71
F 00Y 240 180	66	F 00Y 241 085	70	F 00Y 241 249	69	F 00Y 241 306	71
F 00Y 240 185	66	F 00Y 241 086	70	F 00Y 241 250	69	F 00Y 241 307	71
F 00Y 240 190	66	F 00Y 241 087	70	F 00Y 241 251	70	F 00Y 241 308	71
F 00Y 240 195	66	F 00Y 241 088	71	F 00Y 241 252	70	F 00Y 241 309	71
F 00Y 240 200	67	F 00Y 241 089	71	F 00Y 241 253	70	F 00Y 265 026	96
F 00Y 240 210	67	F 00Y 241 090	71	F 00Y 241 254	70	F 00Y 265 027	96
F 00Y 240 230	67	F 00Y 241 091	71	F 00Y 241 255	70	F 00Y 265 030	101
F 00Y 240 502	114	F 00Y 241 092	71	F 00Y 241 256	70	F 00Y 265 032	101
F 00Y 240 503	109	F 00Y 241 093	71	F 00Y 241 257	70	F 00Y 265 102	85, 140
F 00Y 240 512	116	F 00Y 241 094	71	F 00Y 241 258	71	F 00Y 265 108	120, 129
F 00Y 240 514	114	F 00Y 241 095	71	F 00Y 241 261	69	F 00Y 265 109	120, 129
F 00Y 240 515	114	F 00Y 241 096	71	F 00Y 241 262	69	F 00Y 265 110	120, 129
F 00Y 240 516	114	F 00Y 241 097	71	F 00Y 241 263	69	F 00Y 265 129	109
F 00Y 240 517	112	F 00Y 241 100	69	F 00Y 241 264	69	F 00Y 265 130	109
F 00Y 240 520	113	F 00Y 241 101	69	F 00Y 241 265	69	F 00Y 265 137	123
F 00Y 240 521	113	F 00Y 241 102	70	F 00Y 241 266	69	F 00Y 265 138	123
F 00Y 240 525	108	F 00Y 241 103	70	F 00Y 241 267	69	F 00Y 265 140	45
F 00Y 240 526	108	F 00Y 241 104	70	F 00Y 241 268	69	F 00Y 265 144	45
F 00Y 240 527	108	F 00Y 241 105	70	F 00Y 241 269	69	F 00Y 265 145	45
F 00Y 240 528	111	F 00Y 241 106	70	F 00Y 241 270	69	F 00Y 265 152	115
F 00Y 240 531	112	F 00Y 241 155	68	F 00Y 241 271	69	F 00Y 265 161	21
F 00Y 240 534	109	F 00Y 241 156	68	F 00Y 241 272	69	F 00Y 265 162	21
F 00Y 240 545	114	F 00Y 241 157	68	F 00Y 241 274	70	F 00Y 265 163	22
F 00Y 240 882	73	F 00Y 241 158	68	F 00Y 241 275	70	F 00Y 265 164	22
F 00Y 240 884	73	F 00Y 241 159	68	F 00Y 241 276	70	F 00Y 265 165	22
F 00Y 240 885	73	F 00Y 241 161	68	F 00Y 241 277	70	F 00Y 265 167	23
F 00Y 240 886	73	F 00Y 241 162	68	F 00Y 241 278	70	F 00Y 265 168	24
F 00Y 240 887	73	F 00Y 241 163	68	F 00Y 241 279	70	F 00Y 265 211	34
F 00Y 240 888	73	F 00Y 241 164	68	F 00Y 241 280	70	F 00Y 265 276	98
F 00Y 240 889	73	F 00Y 241 166	68	F 00Y 241 281	70	F 00Y 265 311	98
F 00Y 240 890	73	F 00Y 241 167	68	F 00Y 241 282	70	F 00Y 265 312	98
F 00Y 240 891	73	F 00Y 241 168	68	F 00Y 241 283	70	F 00Y 265 389	33
F 00Y 240 892	73	F 00Y 241 169	69	F 00Y 241 284	70	F 00Y 265 390	33
F 00Y 240 894	73	F 00Y 241 172	69	F 00Y 241 285	70	F 00Y 265 391	33
F 00Y 240 896	73	F 00Y 241 175	69	F 00Y 241 286	70	F 00Y 265 393	33

Part number index

Part number	Page	Part number	Page	Part number	Page	Part number	Page
F 00Y 265 396	33	F 00Y 266 169	39	F 00Y 266 433	89	F 00Y 266 487	17
F 00Y 265 398	33	F 00Y 266 170	40	F 00Y 266 434	89	F 00Y 266 488	17
F 00Y 265 403	18	F 00Y 266 171	40	F 00Y 266 435	89	F 00Y 266 489	17
F 00Y 265 404	18	F 00Y 266 172	40	F 00Y 266 436	89	F 00Y 266 490	17
F 00Y 265 405	18	F 00Y 266 173	40	F 00Y 266 437	89	F 00Y 266 491	17
F 00Y 265 406	18	F 00Y 266 175	40	F 00Y 266 438	89	F 00Y 266 492	17
F 00Y 265 407	18	F 00Y 266 184	40	F 00Y 266 439	89	F 00Y 266 493	17
F 00Y 265 408	18	F 00Y 266 185	40	F 00Y 266 440	89	F 00Y 266 494	17
F 00Y 265 409	18	F 00Y 266 200	46	F 00Y 266 441	90, 141	F 00Y 266 495	17
F 00Y 265 410	18	F 00Y 266 203	135	F 00Y 266 442	52	F 00Y 266 496	17
F 00Y 265 411	18	F 00Y 266 205	135	F 00Y 266 443	52	F 00Y 266 497	17
F 00Y 265 412	18	F 00Y 266 242	22	F 00Y 266 444	52	F 00Y 266 498	17
F 00Y 265 578	115	F 00Y 266 249	128	F 00Y 266 445	52	F 00Y 266 499	17
F 00Y 265 595	34	F 00Y 266 250	128	F 00Y 266 446	52	F 00Y 266 500	17
F 00Y 265 721	48	F 00Y 266 285	50	F 00Y 266 447	52	F 00Y 266 501	17
F 00Y 265 722	48	F 00Y 266 286	50	F 00Y 266 448	52	F 00Y 266 502	17
F 00Y 265 723	48	F 00Y 266 287	50	F 00Y 266 449	52	F 00Y 266 503	17
F 00Y 265 725	48	F 00Y 266 288	50	F 00Y 266 450	53, 134	F 00Y 266 504	17
F 00Y 265 728	48	F 00Y 266 289	50	F 00Y 266 451	53, 134	F 00Y 266 505	17
F 00Y 265 729	48	F 00Y 266 290	50	F 00Y 266 452	16	F 00Y 266 506	17
F 00Y 265 730	48	F 00Y 266 291	50	F 00Y 266 453	16	F 00Y 266 507	17
F 00Y 265 731	48	F 00Y 266 292	50	F 00Y 266 454	16	F 00Y 266 508	17
F 00Y 265 732	48	F 00Y 266 293	50	F 00Y 266 455	16	F 00Y 266 509	17
F 00Y 265 764	97	F 00Y 266 294	50	F 00Y 266 456	16	F 00Y 266 510	17
F 00Y 265 765	97	F 00Y 266 295	51, 133	F 00Y 266 457	16	F 00Y 266 511	17
F 00Y 265 767	142	F 00Y 266 296	51, 133	F 00Y 266 458	16	F 00Y 266 512	17
F 00Y 265 817	72, 140	F 00Y 266 297	16	F 00Y 266 459	16	F 00Y 266 513	17
F 00Y 265 818	65, 137	F 00Y 266 298	16	F 00Y 266 460	16	F 00Y 266 514	17
F 00Y 265 819	61, 136	F 00Y 266 299	49	F 00Y 266 461	16	F 00Y 266 515	17
F 00Y 265 821	72, 138	F 00Y 266 300	49	F 00Y 266 462	16	F 00Y 266 516	17
F 00Y 265 822	65, 137	F 00Y 266 301	49	F 00Y 266 463	16	F 00Y 266 517	17
F 00Y 265 823	61, 137	F 00Y 266 302	49	F 00Y 266 464	16	F 00Y 266 518	17
F 00Y 265 836	100	F 00Y 266 303	49	F 00Y 266 465	17	F 00Y 266 519	18
F 00Y 266 000	21	F 00Y 266 304	49	F 00Y 266 466	17	F 00Y 266 520	18
F 00Y 266 029	22	F 00Y 266 305	49	F 00Y 266 467	17	F 00Y 266 521	18
F 00Y 266 033	22	F 00Y 266 306	49	F 00Y 266 468	17	F 00Y 266 522	18
F 00Y 266 034	22	F 00Y 266 307	49	F 00Y 266 469	17	F 00Y 266 523	18
F 00Y 266 045	22	F 00Y 266 308	49	F 00Y 266 470	17	F 00Y 266 524	18
F 00Y 266 048	22	F 00Y 266 315	16	F 00Y 266 471	17	F 00Y 266 526	18
F 00Y 266 109	23	F 00Y 266 316	16	F 00Y 266 472	17	F 00Y 266 527	18
F 00Y 266 150	39	F 00Y 266 401	16	F 00Y 266 473	17	F 00Y 266 528	18
F 00Y 266 151	39	F 00Y 266 402	16	F 00Y 266 474	17	F 00Y 266 529	18
F 00Y 266 152	39	F 00Y 266 417	99, 142	F 00Y 266 475	17	F 00Y 266 530	18
F 00Y 266 154	39	F 00Y 266 420	119	F 00Y 266 476	17	F 00Y 266 531	18
F 00Y 266 155	39	F 00Y 266 423	89	F 00Y 266 477	17	F 00Y 266 532	18
F 00Y 266 156	39	F 00Y 266 424	89	F 00Y 266 478	17	F 00Y 266 533	18
F 00Y 266 158	39	F 00Y 266 425	89	F 00Y 266 479	17	F 00Y 266 534	18
F 00Y 266 159	39	F 00Y 266 426	89	F 00Y 266 480	17	F 00Y 266 535	18
F 00Y 266 160	39	F 00Y 266 427	89	F 00Y 266 481	17	F 00Y 266 536	18
F 00Y 266 161	39	F 00Y 266 428	89	F 00Y 266 482	17	F 00Y 266 537	18
F 00Y 266 163	39	F 00Y 266 429	89	F 00Y 266 483	17	F 00Y 266 539	25
F 00Y 266 165	39	F 00Y 266 430	89	F 00Y 266 484	17	F 00Y 266 540	25
F 00Y 266 166	39	F 00Y 266 431	89	F 00Y 266 485	17	F 00Y 266 541	25
F 00Y 266 167	39	F 00Y 266 432	89	F 00Y 266 486	17	F 00Y 266 542	25

Part number index

Part number	Page	Part number	Page
F 00Y 266 543	25	F 00Y 266 637	20
F 00Y 266 544	25	F 00Y 266 645	28
F 00Y 266 545	25	F 00Y 266 646	28
F 00Y 266 546	25	F 00Y 266 647	28
F 00Y 266 547	32	F 00Y 266 648	28
F 00Y 266 548	32	F 00Y 266 649	28
F 00Y 266 549	32	F 00Y 266 650	28
F 00Y 266 550	32	F 00Y 266 651	28
F 00Y 266 551	32	F 00Y 266 652	28
F 00Y 266 552	32	F 00Y 266 653	28
F 00Y 266 553	32	F 00Y 266 654	28
F 00Y 266 554	32	F 00Y 266 655	28
F 00Y 266 555	32	F 00Y 266 656	28
F 00Y 266 556	32	F 00Y 266 657	28
F 00Y 266 557	32	F 00Y 266 658	28
F 00Y 266 577	25, 32	F 00Y 266 659	28
F 00Y 266 578	25, 32	F 00Y 266 660	28
F 00Y 266 600	20	F 00Y 266 661	28
F 00Y 266 601	20	F 00Y 266 662	28
F 00Y 266 602	20	F 00Y 266 663	29
F 00Y 266 603	20	F 00Y 266 664	29
F 00Y 266 604	20	F 00Y 266 665	29
F 00Y 266 605	20	F 00Y 266 666	29
F 00Y 266 606	20	F 00Y 266 667	29
F 00Y 266 607	20	F 00Y 266 668	29
F 00Y 266 608	20	F 00Y 266 669	29
F 00Y 266 609	20	F 00Y 266 670	29
F 00Y 266 610	20	F 00Y 266 671	29
F 00Y 266 611	20	F 00Y 266 672	29
F 00Y 266 612	20	F 00Y 266 673	29
F 00Y 266 613	20	F 00Y 266 674	29
F 00Y 266 614	20	F 00Y 266 675	29
F 00Y 266 615	20	F 00Y 266 676	29
F 00Y 266 616	20	F 00Y 266 677	29
F 00Y 266 617	20	F 00Y 266 678	29
F 00Y 266 618	20	F 00Y 266 679	29
F 00Y 266 619	20	F 00Y 266 680	29
F 00Y 266 620	20	F 00Y 266 681	29
F 00Y 266 621	20	F 00Y 266 682	29
F 00Y 266 622	20	F 00Y 266 683	29
F 00Y 266 623	20	F 00Y 266 684	29
F 00Y 266 624	20	F 00Y 266 685	29
F 00Y 266 625	20	F 00Y 266 686	29
F 00Y 266 626	20		
F 00Y 266 627	20		
F 00Y 266 628	20		
F 00Y 266 629	20		
F 00Y 266 630	20		
F 00Y 266 631	20		
F 00Y 266 632	20		
F 00Y 266 633	20		
F 00Y 266 634	20		
F 00Y 266 635	20		
F 00Y 266 636	20		



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



H Blistered with cardboard and Euro hole



K Wooden case