Overview of metal drill bits with recommendation

Steel



Quality	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★★	★★★★★	★★★★☆	★★★★☆	★★★★☆	★★★★★	★★★★★	★★★★★	★★★★☆	★★★★☆	★★★★☆
DIN Norm	340	345	–	PROJAHN standard	–	–	–	333	–	–	–	–	–	338	PROJAHN standard
Product	–	–	–	–	–	–	–	–	–	–	PROSTEP	–	ECO	ECO	ECO
Product material	HSS-R	HSS-R	HSS-Co 5% HSS-G	HSS-G	HSS-Co 5%	HSS-Co 5%	HSS-G	HSS-G	HSS-G	Carbide	HSS-G	HSS-Co 5% HSS-G	HSS-Co 5% HSS-G	HSS-R	HSS-R
Type	N	N	N	N	N	–	–	–	–	–	–	–	–	N	N
Point angle	118°	118°	135°	118°	120/180°	–	–	118°	118°	–	–	–	–	118°	118°
Coating	–	Vaporized	–	–	–	–	–	–	TiN	–	TiAlN	–	–	Vaporized	Vaporized
Shank	Straight	Morse taper	Straight	Straight	Straight	Straight	Straight	Straight	Straight	–	3 flat shank	3 flat shank	3 flat shank	Straight	Straight reduced
Ø mm	2 - 13	8 - 60	3 - 5,5 3 - 6,0	3 - 5,8	6 - 10	8	10	1 - 6,3	6	–	4 - 36	4 - 36	4 - 36	0,3 - 20	10 - 25
Series	31000	20000	45100 45000	48000	70X00	70840	70002	39000	70005	70101	76200	76900 76800	76500 76400	10000	49000
Article group	85	9	8	5	11	11	11	11	11	11	12	12	12	1	4
Page	134	135	142	143	144	144	145	145	146	146	147	148	149	130	133
HD Heavy Duty <1,400 N/mm²										+++					
Steel pipes, -profiles, solid metal	++	++	++	++	++	++	++	++		+++	+++	+++	+++	++	++
Cast iron	++	++	++	+						+++	++	++	++	++	++
Stainless steel			++		++	++				+++		++	++		
Non-ferrous metals	+	+	++	+	++	++	++	+		+++	++	++	++	+	+
Sheet metals	+	+	+++	++	+++	+++	+++	+++	++	+++	+++	+++	+++	+	+
Aluminum	++	++	++	+	+	+	+	++	+	+++	++	++	++	++	++
Acryl glass	+	+	+	+				+	+	++	+	+	+	+	+
Plastic	++	++	++	+				++	++	++	++	++	++	++	++
Wood	+	+	+	+					++	+				+	+

+++ recommended **++ well-suited** **+ suitable**

GOLD ★★★★★ SILVER ★★★★☆ BRONZE ★★★☆☆

Overview of metal drill bits with recommendation

Steel



Quality	★★★★★	★★★★☆	★★★★★	★★★★☆	★★★★★	★★★★★	★★★★★	★★★★☆	★★★★☆	★★★★☆	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
DIN Norm	-	-	-	-	355 C	335 C	335 C	335 C	-	-	-	373	-	-	-	-
Product	-	ECO	-	ECO	-	-	-	ECO	-	-	-	-	-	-	-	-
Product material	HSS-Co 5% HSS-G	HSS-Co 5% HSS-G	HSS-Co 5% HSS-G	HSS-Co 5% HSS-G	HSS-Co 5% HSS-G	HSS-Co 5%	HSS-Co 5%	HSS-Co 5% HSS-G	HSS-Co 5% HSS-G	HSS-G	Carbide	HSS-Co 5%	Carbide	HSS-Co 5% HSS-G	HSS-G	Carbide
Type	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Point angle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coating	-	-	-	-	-	AlTiN	-	-	-	-	-	-	-	-	-	-
Shank	3 flat shank	3 flat shank	3 flat shank	3 flat shank	3 flat shank	3 flat shank	3 flat shank	Straight	Straight	Hex	Hex	Straight	Weldon Nitto	Weldon	QuickIn	Straight
Ø mm	4 - 37	4 - 30	3 - 60	4 - 60	6,3 - 40	6,3 - 31	6,3 - 31	6,3 - 30	2 - 20	6,3 - 20,5	3 - 54	M3 - M12	12 - 60	12 - 60	12 - 60	3 - 16
Series	76600 76000	76700 76100	75600 75000	75700 75100	36500 36100	35900	35700 35800	35600 35000	36600	35300	35400	36X00	38900	38700 38500	38300	70000
Article group	12	12	12	12	15	15	15	15	15	15	15	15	84	84	84	70
Page	150	151	152	153	156	157	158	159	160	161	162	162	164	165	166	172
HD Heavy Duty <1,400 N/mm²													+			+
Steel pipes, -profiles, solid metal	++	++	++	++	+++	+++	+++	++	++	++	+++	+++	+++	+++	+++	+++
Cast iron	++	++	+	+	+++	+++	+++	++	++	++	++	++	+++	++	++	+++
Stainless steel	++	++	++	++	+++	+++	++	++	++		++	+++	+++	+++		+++
Non-ferrous metals	++	++	++	++	+++	++	++	++	+	+	++	+++	+++	+++	+++	+++
Sheet metals	+++	+++	+++	+++	++	++	++	++	++	++			++	++	++	
Aluminum	++	++	++	++	+++	+	++	++	++	++	++	++	++	+++	+++	+++
Acryl glass	+	+	++	++	+	+	+	+	+	+	+	+				
Plastic	++	++	++	++	++	+	+	+	++	++	++	++	++	++	++	++
Wood					+	+	+	+	+	+	++	+				

+++ **recommended** ++ **well-suited** + **suitable**

GOLD ★★★★★ SILVER ★★★★☆ BRONZE ★★★☆☆

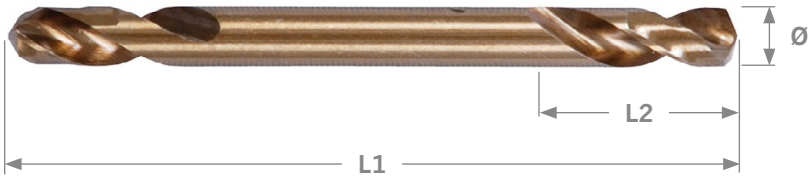
SPECIAL DRILL BITS



45100 | Double End Drill Bits
HSS-Co 5%



Art.-Group **8**





- The double-sided use of the drill bits ensure greater cost efficiency and doubles the lifetime compared to conventional twist drills
- Short helix prevents jamming when drilling through sheet metal
- Easy drilling due to split-point - no center punching required
- Maximum break resistance due to short helix
- Perfect for sheet metal, profiles and hollow rivet holes
- Designed to cut: stainless steel (only HSS-Co 5%), steels up to 1,100 N/mm² (HSS-G up to 900 N/mm²), cast iron, non-ferrous metals, aluminum and plastics



Quadro pack with hanger

★★★★☆

Ø mm	L1 mm	L2 mm	Pc./ PU	Item No.
3.00	46	11	10	451 300
3.10	49	11	10	451 310
3.20	49	11	10	451 320
3.25	49	11	10	451 325
3.30	49	11	10	451 330
3.50	52	14	10	451 350

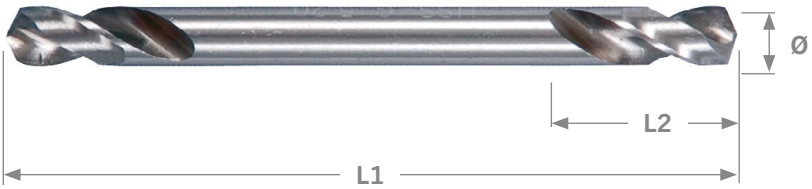
Ø mm	L1 mm	L2 mm	Pc./ PU	Item No.
4.00	55	14	10	451 400
4.10	55	14	10	451 410
4.20	55	14	10	451 420
4.50	58	17	10	451 450
4.80	62	17	10	451 480
4.90	62	17	10	451 490

Ø mm	L1 mm	L2 mm	Pc./ PU	Item No.
5.00	62	17	10	451 500
5.10	62	17	10	451 510
5.20	62	17	10	451 520
5.50	66	20	10	451 550

45000 | Double End Drill Bits
HSS-G

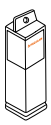


Art.-Group **8**





For product description see item series 45100



Quadro pack with hanger

★★★★☆

Ø mm	L1 mm	L2 mm	Pc./ PU	Item No.
3.00	46	11	10	45 300
3.10	49	11	10	45 310
3.20	49	11	10	45 320
3.25	49	11	10	45 325
3.30	49	11	10	45 330
3.50	52	14	10	45 350

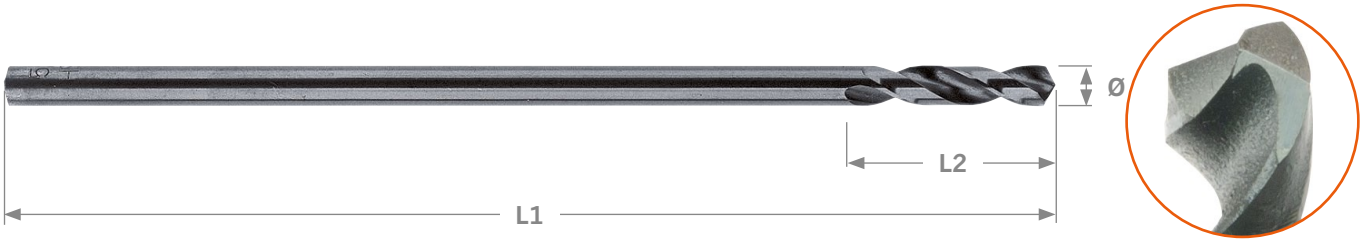
Ø mm	L1 mm	L2 mm	Pc./ PU	Item No.
4.00	55	14	10	45 400
4.10	55	14	10	45 410
4.20	55	14	10	45 420
4.50	58	17	10	45 450
4.80	62	17	10	45 480
4.90	62	17	10	45 490

Ø mm	L1 mm	L2 mm	Pc./ PU	Item No.
5.00	62	17	10	45 500
5.10	62	17	10	45 510
5.20	62	17	10	45 520
5.50	66	20	10	45 550
6.00	66	20	10	45 600

48000 | Hollow Section Twist Drill Bits With Straight Shank
HSS-G PROJAHN standard Type N



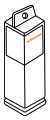
Art.-Group **5**



The specialist for hollow profiles and pipes

- Short helix prevents jamming when drilling through sheet metal
- Easy drilling due to split-point - no center punching required
- Maximum break resistance due to reinforced drill core and short helix
- Ideal for thin-walled materials such as hollow profiles (e.g. in window construction), steel profile sheets and pipes
- Designed to cut: steel up to 900 N/mm², non-ferrous metals, aluminum, cast iron, plastics and sandwich materials

Tolerance	h8	**Web Thinning**	Split point form C	**Helix Angle**	26° - 31°
Material	HSS-G	**Web Thickness**	Reinforced	**Constructional Features**	DIN 1414
Point Grinding	Conical grind	**Tensile Strength**	900 N/mm²		
Point Angle	135°	**Web Taper**	Normal		



Quadro pack with hanger

★★★★☆

Ø mm	L1 mm	L2 mm	Pc./ PU	Item No.
3.0	100	30	10	4 830 100
4.5	150	30	10	4 845 150
4.9	100	30	10	4 849 100
4.9	150	30	10	4 849 150
5.0	70	30	10	4 850 070
5.0	100	30	10	4 850 100
5.0	150	30	10	4 850 150
5.0	210	30	10	4 850 210
5.0	290	30	10	4 850 290
5.1	70	30	10	4 851 070
5.1	100	30	10	4 851 100
5.1	150	30	10	4 851 150
5.1	210	30	10	4 851 210

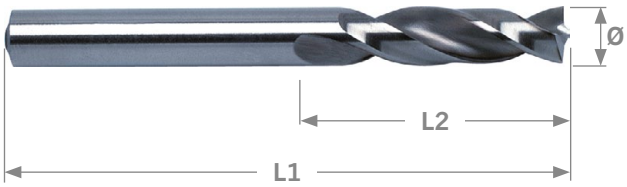
Ø mm	L1 mm	L2 mm	Pc./ PU	Item No.
5.3	70	30	10	4 853 070
5.3	100	30	10	4 853 100
5.3	150	30	10	4 853 150
5.3	210	30	10	4 853 210
5.3	290	30	10	4 853 290
5.5	70	30	10	4 855 070
5.5	100	30	10	4 855 100
5.5	150	30	10	4 855 150
5.5	210	30	10	4 855 210
5.5	290	30	10	4 855 290
5.7	70	30	10	4 857 070
5.7	100	30	10	4 857 100
5.7	120	30	10	4 857 120
5.7	150	30	10	4 857 150

Ø mm	L1 mm	L2 mm	Pc./ PU	Item No.
5.7	180	30	10	4 857 180
5.7	210	30	10	4 857 210
5.7	290	30	10	4 857 290
5.8	70	30	10	4 858 070
5.8	100	30	10	4 858 100
5.8	120	30	10	4 858 120
5.8	150	30	10	4 858 150
5.8	180	30	10	4 858 180

70600 / 70800 / 71000 | Weld Spot Drill Bits HSS-Co 5%



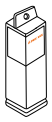
Art.-Group **11**





High performance drill bit for milling out weld spots

- For clean, burr-free milling of weld spots
- No sliding off the welding spot due to the special ground joint with center point
- No subsequent grinding of the weld spot necessary
- Chatter-free operation
- Ideal for bodywork in the automotive industry and for metal construction
- Designed to drill: steel, sheet metal, non-ferrous metals and stainless steel



Quadro pack with hanger

★★★★★ Ø mm	L1 mm	L2 mm	Pc./ PU	Item No.
6.0	66	28	10	70600

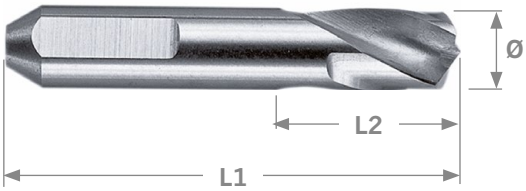
Ø mm	L1 mm	L2 mm	Pc./ PU	Item No.
8.0	79	37	10	70800

Ø mm	L1 mm	L2 mm	Pc./ PU	Item No.
10.0	89	43	10	71000

70840 / 70844 | Spotle Drill Bits HSS-Co 5%



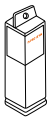
Art.-Group **11**





Precise weld spot drill bit for pneumatic machines

- For clean, burr-free milling of weld spots
- No sliding off the welding spot due to the special ground joint with center point
- No subsequent grinding of the weld spot necessary
- Chatter-free operation
- Special shank for use in pneumatic machines
- Ideal for bodywork in the automotive industry and for metal construction
- Designed to drill: steel, sheet metal, non-ferrous metals and stainless steel



Quadro pack with hanger

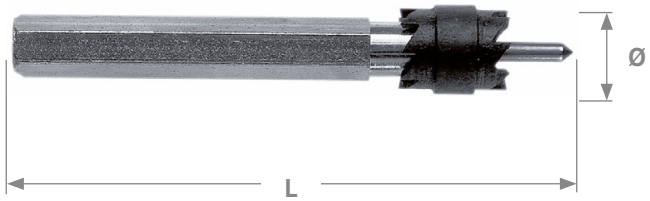
★★★★★ Ø mm	L1 mm	L2 mm	Pc./ PU	Item No.
8.0	40	21	10	70840

Ø mm	L1 mm	L2 mm	Pc./ PU	Item No.
8.0	44	21	10	70844

70002 | Weld Spot Cutter HSS

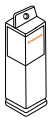


Art.-Group **11**





- For loosening spot welded sheets
- Exchangeable double sided cutting weld spot cutter head
- Adjustable milling depth
- No sheet metal deformation
- Ideal for bodywork in the automotive industry and for metal construction
- Designed to drill: steel, sheet metal and non-ferrous metals



Quadro pack with hanger

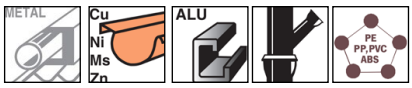
★★★★☆

Ø mm	L mm	Description	Item No.
10.0	72	Set	70 002

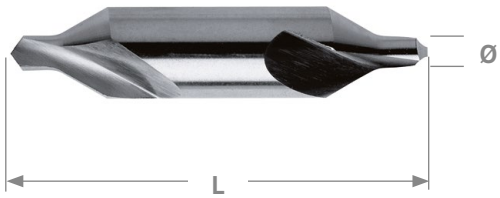
Ø mm	L mm	Description	Item No.
10.0	15	Milling cutter	70 003

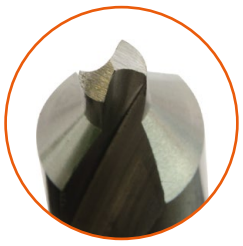
Ø mm	L mm	Description	Item No.
2.5	27	Centering pin	70 004

39000 | Center Drill Bits HSS-G DIN 333 Shape A 60 °

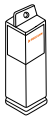


Art.-Group **11**





- For centering holes 60° according to DIN 332, form A
- With 118° point angle and 60° helix angle
- Tolerance class h8
- Designed to drill: steel, non-ferrous metals, cast iron and plastics



Quadro pack with hanger

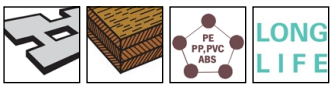
★★★★☆

Ø mm	L mm	Ø Shank	Pc./ PU	Item No.
1.00	31.5	3.15	10	39 100
1.60	35.5	4	10	39 160
2.00	40	5	10	39 200

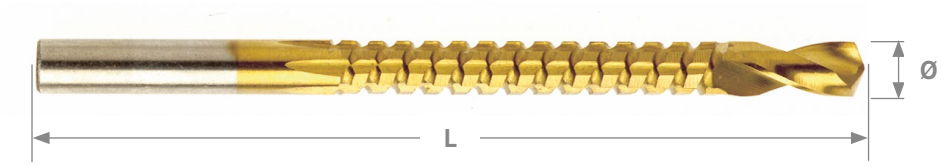
Ø mm	L mm	Ø Shank	Pc./ PU	Item No.
2.50	45	6.3	10	39 250
3.15	50	8	10	39 315
4.00	56	10	10	39 400

Ø mm	L mm	Ø Shank	Pc./ PU	Item No.
5.00	63	12.5	5	39 500
6.30	71	16	5	39 630

70005 | Universal Milling Drill Bits With Cylindrical Shank HSS-G TiN



Art.-Group **11**





- Drilling and milling with one tool in wood-based materials, sheet metal and thin-walled materials
- Despite a small drill diameter, larger holes can be made by using the milling ribs
- Universal applications in car body and panel construction as well as in the wood and plastics processing industry
- Milling drill bit with split point and 118° point angle
- The TiN coating extends the tool lifetime up to four times compared to uncoated drill bits
- Designed to drill: sheet metal, wood and plastic made of thin-walled material

★★★★☆

Ø mm	L mm	Item No.
6.0	98	70005

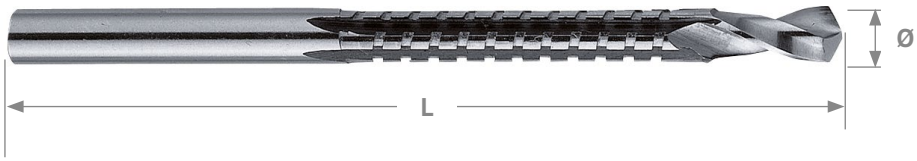


Single packaging with hanger

70001 | Universal Milling Drill Bit With Straight Shank HSS-G



Art.-Group **11**





Product advantages as article 70005, but without increased tool life due to missing TiN coating

★★★★☆

Ø mm	L mm	Item No.
6.0	98	70001*



Single packaging with hanger

70101 | Scriber With Carbide Tip



Art.-Group **11**



- For scribing metals and other materials with smooth surfaces
- With handy fastening clip
- Suitable for steel, non-ferrous metals, aluminum, stone, tiles, glass and plastics

★★★★★

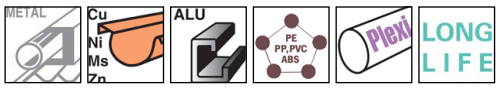
L mm	Description	Item No.
150	For scribing metals and other materials	70101



GOLD ★★★★★ SILVER ★★★★☆ BRONZE ★★★☆☆

*Only as long as stocks last

76200 | PROSTEP Step Drill Bits With Spiral Flute HSS-G TiAlN

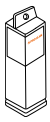


Art.-Group **12**



Innovative step drill bit with PROSTEP step tip

- Easy and energy-saving spot drilling due to step tip geometry
- No center punching necessary due to self-centering step tip - even in pipes and rounded materials
- With titanium aluminum nitride coating (TiAlN) for high heat hardness and oxidation resistance
- Depending on the application, the TiAlN coating enables up to ten times longer lifetime respectively higher cutting speeds can be achieved
- The spiral geometry of the flutes improves the running smoothness, ensures a cleaner cutting result and extends the lifetime of the tool
- With 3-flat shank which prevents spinning in the drill chuck and ensures an optimal power transmission
- The next larger step can be used for slight countersinking or deburring
- Designed to drill: steel, non-ferrous metals, aluminum, plastics and acrylic glass



Single packaging with hanger

★★★★★

Size	Ø mm of Each Step	L mm	Ø mm Shank	Item No.
1	**4-5-6-7-8-9-10-11-12**	80	6	76 201
2	**4-6-8-10-12-14-16-18-20**	70	8	76 202

Size	Ø mm of Each Step	L mm	Ø mm Shank	Item No.
3	**6-8-10-12-14-16-18-20-22-24-26-28-30**	100	10	76 203

Sets

Art.-Group **16**



76 211

★★★★★

Content	Material	Pieces	Packaging	Item No.
Size 1 step drill bit 4 - 12.0 mm Size 2 step drill bit 4 - 20.0 mm Size 3 step drill bit 6 - 30.0	HSS-G TiAlN	3	Plastic box	76 211

75052 | Cutting Paste

Art.-Group **12**

- Coolant and lubricant
- For a significantly longer tool life and better drilling progress at the same time
- Ideal size for plastic or metal boxes



★★★★★

Description	Packaging	Item No.
Cutting paste 7 ml	Single	75 052

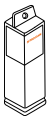
76900 | Step Drill Bits With Spiral Flute HSS-Co 5%





Art.-Group **12**

- Long lifetime due to high-quality high-speed steel
- The spiral geometry of the flutes improves the running smoothness, ensures a cleaner cutting result and extends the lifetime of the tool
- With 3-flat shank which prevents spinning in the drill chuck and ensures an optimal power transmission
- The next larger step can be used for slight countersinking or deburring
- Precision ground due to CBN grinding process
- The use of a suitable coolant and lubricant is recommended
- Designed to drill: stainless steel (only HSS-Co 5%), steel, non-ferrous metals, aluminum, plastics and acrylic glass



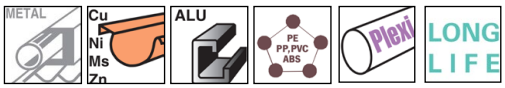
Single packaging with hanger

★★★★★

Size	Ø mm of Each Step	L mm	Ø mm Shank	Item No.
1	**4-5-6-7-8-9-10-11-12**	80	6	76901
2	**6-8-10-12-14-16-18-20**	70	9	76902

Size	Ø mm of Each Step	L mm	Ø mm Shank	Item No.
3	**6-8-10-12-14-16-18-20-22-24-26-28-30**	100	10	76903
4	**7-9-12-15-18-21-24-27-30-33-36**	96	12	76904

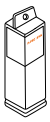
76800 | Step Drill Bits With Spiral Flute HSS-G





Art.-Group **12**

For product description see item series 76900



Single packaging with hanger

★★★★★

Size	Ø mm of Each Step	L mm	Ø mm Shank	Item No.
1	**4-5-6-7-8-9-10-11-12**	80	6	76801
2	**6-8-10-12-14-16-18-20**	70	9	76802

Size	Ø mm of Each Step	L mm	Ø mm Shank	Item No.
3	**6-8-10-12-14-16-18-20-22-24-26-28-30**	100	10	76803
4	**7-9-12-15-18-21-24-27-30-33-36**	96	12	76804

Sets

Art.-Group **16**

★★★★★

Content	Material	Pieces	Packaging	Item No.
Size 1 step drill bit 4 - 12.0 mm Size 2 step drill bit 6 - 20.0 mm Size 3 step drill bit 6 - 30.0 mm Cutting Paste	HSS-Co 5%	4	Plastic box	76911
Size 1 step drill bit 4 - 12.0 mm Size 2 step drill bit 6 - 20.0 mm Size 3 step drill bit 6 - 30.0 mm Cutting Paste	HSS-G	4	Plastic box	76811



76911



76811

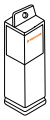
76500 | Step Drill Bits With Spiral Flute HSS-Co 5% ECO



Art.-Group **12**



- The spiral geometry of the flutes improves the running smoothness, ensures a cleaner cutting result and extends the lifetime of the tool
- With 3-flat shank which prevents spinning in the drill chuck and ensures an optimal power transmission
- The next larger step can be used for slight countersinking or deburring
- The use of a suitable coolant and lubricant is recommended
- Designed to drill: stainless steel (only HSS-Co 5%), steel, non-ferrous metals, aluminum, plastics and acrylic glass



Single packaging with hanger

★★★★☆

Size	Ø mm of Each Step	L mm	Ø mm Shank	Item No.
1	**4-5-6-7-8-9-10-11-12**	80	6	76501
2	**6-8-10-12-14-16-18-20**	70	8	76502

Size	Ø mm of Each Step	L mm	Ø mm Shank	Item No.
3	**6-8-10-12-14-16-18-20-22-24-26-28-30**	100	10	76503
4	**7-9-12-15-18-21-24-27-30-33-36**	96	12	76504

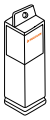
76400 | Step Drill Bits With Spiral Flute HSS-G ECO



Art.-Group **12**



For product description see item series 76500



Single packaging with hanger

★★★★☆

Size	Ø mm of Each Step	L mm	Ø mm Shank	Item No.
1	**4-5-6-7-8-9-10-11-12**	80	6	76401
2	**6-8-10-12-14-16-18-20**	70	8	76402

Size	Ø mm of Each Step	L mm	Ø mm Shank	Item No.
3	**6-8-10-12-14-16-18-20-22-24-26-28-30**	100	10	76403
4	**7-9-12-15-18-21-24-27-30-33-36**	96	12	76404

Sets

Art.-Group **16**

★★★★☆

Content	Material	Pieces	Packaging	Item No.
Size 1 step drill bit 4 - 12.0 mm Size 2 step drill bit 6 - 20.0 mm Size 3 step drill bit 6 - 30.0 mm	HSS-Co 5%	3	Plastic box	76511
Size 1 step drill bit 4 - 12.0 mm Size 2 step drill bit 6 - 20.0 mm Size 3 step drill bit 6 - 30.0 mm	HSS-G	3	Plastic box	76411



76511



76411

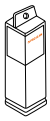
76600 | Step Drill Bits With Straight Flute
HSS-Co 5%



Art.-Group **12**



- Long lifetime due to high-quality high-speed steel
- The cutting geometry of the straight flute produces shorter chips, which significantly reduces the risk of scratches on painted surfaces
- With 3-flat shank which prevents spinning in the drill chuck and ensures an optimal power transmission
- The next larger step can be used for slight countersinking or deburring
- Precision ground due to CBN grinding process
- The use of a suitable coolant and lubricant is recommended
- Designed to drill: stainless steel (only HSS-Co 5%), steel, non-ferrous metals, aluminum, plastics and acrylic glass



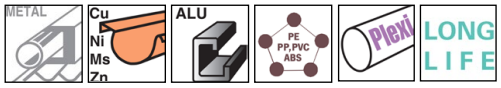
Single packaging with hanger

★★★★★

Size	Ø mm of Each Step	L mm	Ø mm Shank	Item No.
1	**4-5-6-7-8-9-10-11-12**	65	6	76 601
2	**6-8-10-12-14-16-18-20**	75	9	76 602

Size	Ø mm of Each Step	L mm	Ø mm Shank	Item No.
3	**6-8-10-12-14-16-18-20-22-24-26-28-30**	100	10	76 603
4	**7 - 12.5 - 15.2 - 18.6 - 20.4 - 22.5 - 28.3 - 30.5 - 37**	100	12	766 032

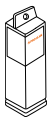
76000 | Step Drill Bits With Straight Flute
HSS-G



Art.-Group **12**



For product description see item series 76600



Single packaging with hanger

★★★★★

Size	Ø mm of Each Step	L mm	Ø mm Shank	Item No.
1	**4-5-6-7-8-9-10-11-12**	65	6	76 001
2	**6-8-10-12-14-16-18-20**	75	9	76 002

Size	Ø mm of Each Step	L mm	Ø mm Shank	Item No.
3	**6-8-10-12-14-16-18-20-22-24-26-28-30**	100	10	76 003
4	**7 - 12.5 - 15.2 - 18.6 - 20.4 - 22.5 - 28.3 - 30.5 - 37**	100	12	760032

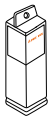
76700 | Step Drill Bits With Straight Flute
HSS-Co 5% ECO





Art.-Group **12**

- The cutting geometry of the straight flute produces shorter chips, which significantly reduces the risk of scratches on painted surfaces
- With 3-flat shank which prevents spinning in the drill chuck and ensures an optimal power transmission
- The next larger step can be used for slight countersinking or deburring
- The use of a suitable coolant and lubricant is recommended
- Designed to drill: stainless steel (only HSS-Co 5%), steel, non-ferrous metals, aluminum, plastics and acrylic glass



Single packaging with hanger

★★★★☆

Size	Ø mm of Each Step	L mm	Ø mm Shank	Item No.
1	**4-5-6-7-8-9-10-11-12**	80	6	76 701
2	**4-6-8-10-12-14-16-18-20**	70	8	76 702

Size	Ø mm of Each Step	L mm	Ø mm Shank	Item No.
3	**6-8-10-12-14-16-18-20-22-24-26-28-30**	100	10	76 703

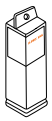
76100 | Step Drill Bits With Straight Flute
HSS-G ECO





Art.-Group **12**

For product description see item series 76700



Single packaging with hanger

★★★★☆

Size	Ø mm of Each Step	L mm	Ø mm Shank	Item No.
1	**4-5-6-7-8-9-10-11-12**	80	6	76 101
2	**4-6-8-10-12-14-16-18-20**	70	8	76 102

Size	Ø mm of Each Step	L mm	Ø mm Shank	Item No.
3	**6-8-10-12-14-16-18-20-22-24-26-28-30**	100	10	76 103

Sets

Art.-Group **16**

★★★★☆

Content	Material	Pieces	Packaging	Item No.
Size 1 step drill bit 4 - 12.0 mm Size 2 step drill bit 4 - 20.0 mm Size 3 step drill bit 6 - 30.0 mm	HSS-Co 5%	3	Plastic box	76 711
Size 1 step drill bit 4 - 12.0 mm Size 2 step drill bit 4 - 20.0 mm Size 3 step drill bit 6 - 30.0 mm	HSS-G	3	Plastic box	76 111



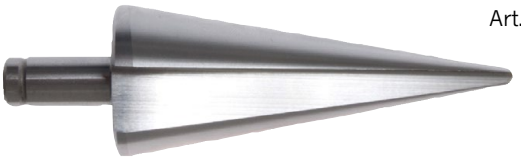
76 711



76 111

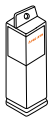
75600 | Tube and Sheet Drill Bits HSS-Co 5%





Art.-Group **12**

- Long lifetime due to high-quality high-speed steel with cobalt alloy
- For drilling larger holes in thin-walled materials and for enlarging existing boreholes
- With 3-flat shank which prevents spinning in the drill chuck and ensures an optimal power transmission
- Precision ground due to CBN grinding process
- 20° defined tapered cutting edges, with radial relief grinding
- The use of a suitable coolant and lubricant is recommended
- Designed to drill: stainless steel (only HSS-Co 5%), steel, non-ferrous metals, aluminum, plastics and acrylic glass
- Sheet steel and stainless steel 0.1 - 2.0 mm, non-ferrous metals 0.1 - 5,0 mm, stainless steel V2A 0.1 - 1.0 mm and plastics up to 10 mm



Single packaging with hanger

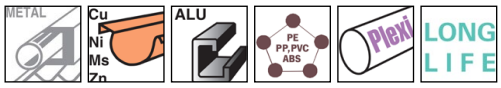
★★★★★

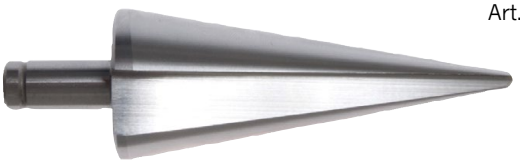
Size	Ø mm	Ø mm Shank	Item No.
1	**3 - 14**	6	75 601
2	**8 - 20**	8	75 602
3	**16 - 30.5**	10	75 603

Size	Ø mm	Ø mm Shank	Item No.
4	**26 - 40**	12	75 604
5	**36 - 50**	13	75 605
6	**46 - 60**	13	75 606

Size	Ø mm	Ø mm Shank	Item No.
L	**4 - 30.5**	10	75 609

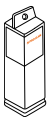
75000 | Tube and Sheet Drill Bits HSS-G





Art.-Group **12**

For product description see item series 75600



Single packaging with hanger

★★★★★

Size	Ø mm	Ø mm Shank	Item No.
1	**3 - 14**	6	75 001
2	**8 - 20**	8	75 002
3	**16 - 30.5**	10	75 003

Size	Ø mm	Ø mm Shank	Item No.
4	**26 - 40**	12	75 004
5	**36 - 50**	13	75 005
6	**46 - 60**	13	75 006

Size	Ø mm	Ø mm Shank	Item No.
L	**4 - 30.5**	10	75 009
1a	**2 - 7.8**	6	75 011
2a	**4 - 22,5**	8	75 010

Sets

Art.-Group **16**

★★★★★

Content	Material	Pieces	Packaging	Item No.
Size 1 tube and sheet drill bit Ø 3 - 14 mm Size 2 tube and sheet drill bit Ø 8 - 20 mm Size 3 tube and sheet drill bit Ø 16 - 30.5 mm	HSS-Co 5%	3	Plastic box	75 665
Size 1 tube and sheet drill bit Ø 3 - 14 mm Size 2 tube and sheet drill bit Ø 8 - 20 mm Size 3 tube and sheet drill bit Ø 16 - 30.5 mm	HSS-G	3	Plastic box	750 65



75 665

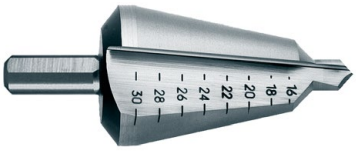


750 65

GOLD ★★★★★ SILVER ★★★★☆ BRONZE ★★★☆☆

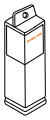
75700 | Tube and Sheet Drill Bits HSS-Co 5% ECO





Art.-Group **12**

- For drilling larger holes in thin-walled materials and for enlarging existing boreholes
- With 3-flat shank which prevents spinning in the drill chuck and ensures an optimal power transmission
- The use of a suitable coolant and lubricant is recommended
- Designed to drill: stainless steel (only HSS-Co 5%), steel, non-ferrous metals, aluminum, plastics and acrylic glass



Single packaging with hanger

★★★★☆

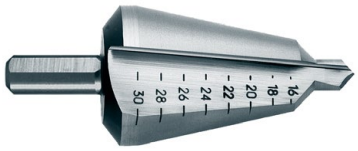
Size	Ø mm	Ø mm Shank	Item No.
1	**3 - 14**	6	75 701
2	**8 - 20**	8	75 702
3	**16 - 30.5**	9	75 703

Size	Ø mm	Ø mm Shank	Item No.
4	**26 - 40**	10	75 704
5	**36 - 50**	12	75 705
6	**46 - 60**	13	75 706

Size	Ø mm	Ø mm Shank	Item No.
L	**4 - 31**	9	75 709
2a	**4 - 22,5**	8	75 710

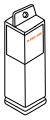
75100 | Tube and Sheet Drill Bits HSS-G ECO





Art.-Group **12**

For product description see item series 75700



Single packaging with hanger

★★★★☆

Size	Ø mm	Ø mm Shank	Item No.
1	**3 - 14**	6	75 101
2	**4 - 20**	8	75 102
3	**16 - 30.5**	9	75 103

Size	Ø mm	Ø mm Shank	Item No.
4	**26 - 40**	10	75 104
5	**36 - 50**	12	75 105
6	**46 - 60**	13	75 106

Size	Ø mm	Ø mm Shank	Item No.
L	**4 - 31**	9	75 109
2a	**4 - 22,5**	8	75 110

Sets

Art.-Group **16**

★★★★☆

Content	Material	Pieces	Packaging	Item No.
Size 1 tube and sheet drill bit Ø 3 - 14 mm Size 2 tube and sheet drill bit Ø 4 - 20 mm Size 3 tube and sheet drill bit Ø 16 - 30.5 mm	HSS-Co 5%	3	Plastic box	75 765
Size 1 tube and sheet drill bit Ø 3 - 14 mm Size 2 tube and sheet drill bit Ø 4 - 20 mm Size 3 tube and sheet drill bit Ø 16 - 30.5 mm	HSS-G	3	Plastic box	75 165



75 765



75 165