



HPC- and NC- Reamers

Carbide and HSS-E

Chip – by Chip – to the Top

Technology and advantages

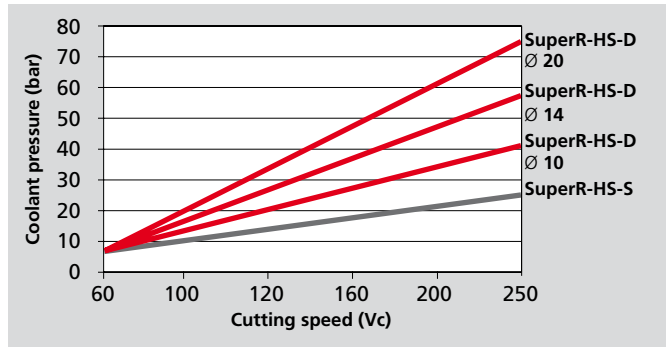
SuperR-HS Solid carbide high performance reamers

With the two new solid carbide HPC reamers SuperR-HS-D for through holes and SuperR-HS-S for blind holes, Stock offers two trend-setting solutions for the finish machining of holes, providing a 50-fold production time reduction as well as an increase in tool life and hole quality in comparison to conventional tools.

Faster, more accurate and longer tool life:

The new Stock solid carbide reamer SuperR-HS-D

The specially developed, straight flute, geometry is unique with reamers for through holes. It enables extremely high cutting rates even for deep holes. At the same time, the straight-flute geometry combined with the exceptional coolant delivery supports a problem-free chip evacuation ahead of the cutting edge. Subsequently, the excellent reamed surface remains optimally preserved, as chips do not return back within the flutes.



Coolant pressure - cutting speed
valid for dimensions standard



On a level with cermet but without its disadvantages:

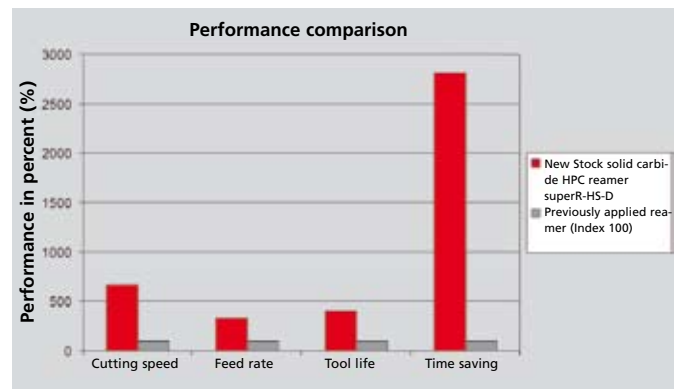
Stock's new solid carbide HPC reamers

The performance level of both new Stock solid carbide HPC reamers SuperR-HS-D and SuperR-HS-S could so far only be achieved with cermet tools and had to be acquired with several disadvantages. Cermet reamers are only suitable for the machining of few materials, whilst solid carbide reamers can be applied to most materials including soft and stainless steels. Machining with interrupted cut or non-rigid machining conditions are not possible at all with cermet tools but with solid carbide in most cases this is not a problem. In addition, generally cermet reamers are comparatively more expensive.

The optimal coolant supply is ensured by longitudinal flutes ground externally on the re-inforced HA shank, their position exactly synchronised to the spacing of the reamer flute. This version of external cooling has more than one advantage over internal cooling via radial coolant ducts: The solid portion is considerably more rigid and a flow restriction is not created through eroded or sintered cooling ducts. In addition, the chips cannot clog coolant holes that do not exist. Furthermore, the optimal coolant delivery is unconditionally maintained even with re-ground tools. The user need not fear a negative effect on the clamping in hydraulic or shrink fit chucks due to the oil grooves. The remaining bearing surface is more than sufficient for a secure clamping.

The user gains multiple benefits with the new Stock SuperR-HS-reamer:

- extremely high cutting rates,
- considerable time saving and therefore cost saving in the production,
- broad range of application
- a standard program with favourable prices as well as short delivery times
- intermediate dimensions, that can be produced quickly and cost-effectively at any time.



Clear performance increase in the machining of through holes: In comparison to previously applied reamer (values in diagram set to index 100), Stock's solid carbide HPC reamer SuperR-HS-D for through holes achieves considerably higher values and a 28 fold time saving!

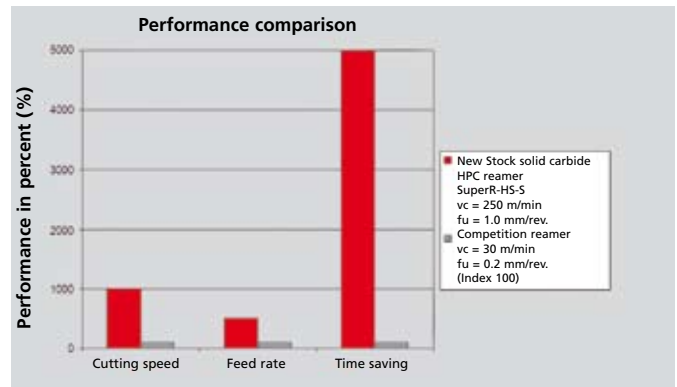
Technology and advantages

SuperR-HS Solid carbide high performance reamers

Unbelievable performance display:
SuperR-HS-S achieves cutting speeds

of 250 m/min. and feed rates of > 10 m/min. in steel

In contrast to the solid carbide HPC reamer SuperR-HS-D, the SuperR-HS-S reamer possesses internal cooling via a central coolant duct. Its especially large cross-section ensures the optimal delivery of the coolant to the cutting edge of the tool. The straight-fluted tool geometry combined with the outstanding coolant supply again ensure the safe evacuation of the optimally formed chips.



Unbelievable but true:

The efficiency of Stock's new solid carbide HPC reamer SuperR-HS-S in comparison to a competitors' tool, its performance values illustrated in the diagram with the index 100.

Technology and advantages

NC reamers

Stock NC reamers are manufactured in solid carbide or HSS-E with shank type DIN 6525 (H6). They are ideally suited to be used in hydraulic chucks, shrink fit or high precision collet chucks.

Due to the shank design and precise production tolerances minimal run out is achievable. Consequently these tools produce the best results with regard to hole size, surface finish and repeatability.

The availability of increment sizes of 1/100 mm mean tolerances other than H7 are achievable.

Stock NC reamers can be used in most materials. A universal tool that can be used in both through and blind holes if there is sufficient space at the bottom of the hole for the chips.



STC NC-reamer: Catalogue no. 72920 in 1/100 Dimensions or 72930 in 1/10 Dimension



HSS-E NC-reamer: Catalogue no. 72900 in 1/100 Dimensions or 72910 in 1/10 Dimension

Application recommendations

Feed column no.						
Code letter	E	F	G	H	I	
reamer-Ø mm	< 4.00	0.080	0.100	0.125	0,300	0,500
	4.00	0.100	0.125	0.160	0,300	0,500
	5.00	0.100	0.125	0.160	0,400	0,700
	6.30	0.125	0.160	0.200	0,400	1,000
	8.00	0.160	0.200	0.250	0,600	1,400
	10.00	0.200	0.250	0.315	0,600	1,400
	12.50	0.200	0.250	0.315	0,800	1,800
	16.00	0.250	0.315	0.400	0,800	2,200
	20.00	0.315	0.400	0.500	0,800	2,200
	25.00	0.400	0.500	0.630	1,000	2,500
	31.50	0.400	0.500	0.630	1,000	3,000
	40.00	0.500	0.630	0.800	1,200	3,000
	50.00	0.630	0.800	1.000	1,400	3,000
	> 50.00	0.800	1.000	1.250	1,600	3,000

Tools with feed column no. in bold are preferred choices for listed material group.

f (mm/rev)

- Lubricants:**
- cutting oil, highly activated, surface active lubricant with effective additives which chemically react and result in a special adhesive and abrasion reducing lubricant film.
 - soluble oil (emulsion)
 - without lubricant
 - air only

Material group	Materials examples, new designations (old designation in brackets) Figures in bold = material no. to DIN EN	Tensile strength MPa (N/mm ²)	Hard- ness	Coolant
General purpose steels	1.0035 S185(St33), 1.0486 P275N(StE285), 1.0345 P235GH(H1), 1.0425 P265GH(H2) 1.0050 E295 (St50-2), 1.0070 E360 (St70-2), 1.8937 P500NH (WStE500)	≤500 >500-850		■
Free-cutting steels	1.0718 115MnPb30 (95MnPb28), 1.0736 115Mn37 (95Mn36) 1.0727 46S20 (45S20), 1.0728 (60S20), 1.0757 46SPb20 (45SPb20)	≤850 850-1000		■
Unalloyed tempering steels	1.0402 C22, 1.1178 C30E (Ck30) 1.0503 C45, 1.1191 C45E (Ck45) 1.0601 C60, 1.1221 C60E (Ck60)	≤ 700 700-850 850-1000		■
Alloyed tempering steels	1.5131 50MnSi4, 1.7003 38Cr2, 1.7030 28Cr4 1.5710 36NiCr6, 1.7035 41Cr4, 1.7225 42CrMo4	850≤1000 1000-1200		■
Unalloyed case hardened steels	1.0301 (C10), 1.1121 C10E (Ck10)	≤750		■
Alloyed case hardened steels	1.7043 38Cr4 1.5752 15NiCr13 (15NiCr13), 1.7131 16MnCr5, 1.7264 20CrMo5	850≤1000 1000-1200		■ ■
Nitriding steels	1.8504 34CrAl6 1.8519 31CrMoV9, 1.8550 34CrAlNi7	≥850≤1000 >1000-1200		■ ■
Tool steels	1.1750 C75W, 1.2067 102Cr6, 1.2307 29CrMoV9 1.2080 X210Cr12, 1.2083 X42Cr13, 1.2419 105WCr6, 1.2767 X45NiCrMo4	≤850 >850-1000		■ ■
High speed steels	1.3243 S 6-5-2-5, 1.3343 S 6-5-2, 1.3344 S 6-5-3	≥650-1000		■
Spring steels	1.5026 55Si7, 1.7176 55Cr3, 1.8159 51CrV4 (51CrV4)		≤330 HB	■ ■
Stainless steels, sulphured austenitic martensitic	1.4005 X12CrS13, 1.4104 X14CrMoS17, 1.4105 X6CrMoS17, 1.4305 X8CrNiS18-9 1.4301 X5CrNi18-10 (V2A), 1.4541 X6CrNiTi18-10, 1.4571 X6CrNiMoTi 17-12-2 (V4A) 1.4057 X20CrNi 17 2 (X17CrNi16-2), 1.4122 X39CrMo17-1, 1.4521 X2CrMoTi18-2	≤850 ≤850 ≤850		■
Hardened steels	-		≤40-48 HRC >48-60 HRC	■
Special alloys	Nimonic, Inconel, Monel, Hastelloy	≤1200		■
Cast iron	0.6010 EN-GJL-100(GG10), 0.6020 EN-GJL-200(GG20) 0.6025 EN-GJL-250(GG25), 0.6035 EN-GJL-350(GG35)		≤240 HB <300 HB	■ □
Spheroidal graphite iron and maleable cast iron	0.7050 EN-GJS-500-7(GGG50), 0.8035 EN-GJMW-350-4(GTW35) 0.7070 EN-GJS-700-2(GGG70), 0.8170 EN-GJMB-700-2(GTS70)		≤240 HB <300 HB	■
Chilled cast iron	-		≤350 HB	■
Ti and Ti-alloys	3.7024 Ti99,5, 3.7114 TiAl5Sn2,5, 3.7124 TiCu2 3.7154 TiAl6Zr5, 3.7165 TiAl6V4, 3.7184 TiAl4Mo4Sn2,5, - TiAl8Mo1V1	≤850 >850-1200		■
Aluminium and Al-alloys	3.0255 Al99,5, 3.2315 AlMgSi1, 3.3515 AlMg1	≤400		■
Al wrought alloys	3.0615 AlMgSiPb, 3.1325 AlCuMg1, 3.3245 AlMg3Si, 3.4365 AlZnMgCu1,5	≤450		■
Al cast alloys ≤ 10 % Si	3.2131 G-AlSi5Cu1, 3.2153 G-AlSi7Cu3, 3.2573 G-AlSi9	≤600		■
> 10 % Si	3.2581 G-AlSi12, 3.2583 G-AlSi12Cu, - G-AlSi12CuNiMg	≤600		■
Magnesium alloys	3.5200 MgMn2, 3.5812.05 G-MgAl8Zn1, 3.5612.05 G-MgAl6Zn1	≤450		□
Copper, low alloyed	2.0070 SE-Cu, 2.1020 CuSn6, 2.1096 G-CuSn5ZnPb	≤400		■ ■
Brass, short-chipping	2.0380 CuZn39Pb2, 2.0401 CuZn39Pb3, 2.0410 CuZn43Pb2	≤600		■ ■
long-chipping	2.0250 CuZn20, 2.0280 CuZn33, 2.0332 CuZn37Pb0,5	≤600		■ ■
Bronze, short-chipping	2.1090 CuSn7ZnPb, 2.1170 CuPb55Sn5, 2.1176 CuPb10Sn 2.0790 CuNi18Zn19Pb	≤600 >600-850		■ ■
Bronze, long-chipping	2.0916 CuAl5, 2.0960 CuAl9Mn, 2.1050 CuSn10 2.0980 CuAl11Ni, 2.1247 CuBe2	≤850 >850-1000		■
Duroplastics	Bakelit, Resopal, Pertinax, Moltopren		-	□
Thermoplastics	Plexiglass, Hostalen, Novodur, Makralon		-	■ □
Kevlar	Kevlar		-	□
Glass/carbon-concentr. plastics	GFK/CFK		-	□

SuperR-HS- Reamers

Catalogue no.	72870	72871
Tool material	Carbide/K10	
Surface finish	TiAlN	TiAlN
DIN	Stock std.	Stock std.
Form	-	-



v_c m/min	Feed column no.
120-250	H-I
120-250	H-I
120-250	H-I
120-250	H-I
120-250	H-I
120-250	H-I
120-250	H-I
120-250	H-I
120-250	H-I
120-250	H-I
120-250	H-I
120-250	H-I
120-250	H-I
120-250	H-I
120-250	H-I
60-120	H-I
60-120	G-H
60-120	H-I
60-120	H-I
60-120	H-I
25-60	G-H
25-60	G-H
25-60	G-H
60-100	H-I
60-100	H-I
60-100	H-I
120-250	H-I
60-100	H-I
10-40	G-H
30-60	G-H
30-60	G-I
80-160	H-I
100-250	H-I
100-250	H-I
100-250	H-I
80-200	H-I
80-200	H-I
80-200	H-I
80-200	H-I

NC- Reamers

Catalogue no.	72920	72930
Tool material	Carbide/K10	
Surface finish	bright	bright
DIN	Stock std.	Stock std.
Form	-	-



v_c m/min	Feed column no.
18	F
16	F
18	F
16	F
18	E
14	E
14	E
12	E
18	E
14	E
12	E
14	E
12	E
14	E
12	E
12	E
10	E
10	E
8	E
6	E
6	E
6	E
6	E
20	E
18	E
20	E
18	E
10	E
10	E
30	G
30	G
40	F
30	F
25	F
25	F
35	F
30	F
35	F
30	F
30	F
25	F
20	G
20	G
20	G
20	G

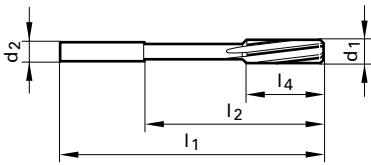
NC- Reamers

Catalogue no.	72900	72910
Tool material	HSS-E	
Surface finish	bright	bright
DIN	Stock std.	Stock std.
Form	-	-



v_c m/min	Feed column no.
16	F
12	F
12	F
10	E
14	F
10	E
10	E
8	E
16	F
10	E
8	E
10	E
8	E
10	E
8	E
14	F
10	E
10	E
6	F
6	F
4	F
4	E
14	E
12	E
12	E
10	E
6	E
4	E
18	G
18	G
20	F
18	F
20	F
18	F
18	F
14	F
12	G
14	G
10	G
8	G

NC machine chucking reamers



Catalogue no.

72920

Tool material

Solid carbide

Discount group

120

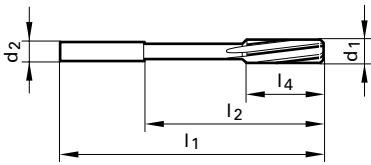
Surface

bright

Form

d1 mm	d2 mm	l1 mm	l2 mm	l4 mm	cutting edges	Gross price/€
0.980	4.000	50.00	22.00	6.00	3	46.00
0.990	4.000	50.00	22.00	6.00	3	46.00
1.000	4.000	50.00	22.00	6.00	3	40.00
1.010	4.000	50.00	22.00	6.00	3	46.00
1.020	4.000	50.00	22.00	6.00	3	46.00
1.030	4.000	50.00	22.00	9.00	3	46.00
1.480	4.000	50.00	22.00	9.00	3	46.50
1.490	4.000	50.00	22.00	9.00	3	46.50
1.500	4.000	50.00	22.00	9.00	3	40.50
1.510	4.000	50.00	22.00	9.00	3	46.50
1.520	4.000	50.00	22.00	9.00	3	46.50
1.530	4.000	50.00	22.00	9.00	3	46.50
1.980	4.000	50.00	22.00	12.00	4	46.50
1.990	4.000	50.00	22.00	12.00	4	46.50
2.000	4.000	50.00	22.00	12.00	4	40.50
2.010	4.000	50.00	22.00	12.00	4	46.50
2.020	4.000	50.00	22.00	12.00	4	46.50
2.030	4.000	50.00	22.00	12.00	4	46.50
2.480	4.000	60.00	32.00	16.00	4	46.50
2.490	4.000	60.00	32.00	16.00	4	46.50
2.500	4.000	60.00	32.00	16.00	4	40.50
2.510	4.000	60.00	32.00	16.00	4	46.50
2.520	4.000	60.00	32.00	16.00	4	46.50
2.530	4.000	60.00	32.00	16.00	4	46.50
2.970	4.000	64.00	36.00	17.00	6	48.00
2.980	4.000	64.00	36.00	17.00	6	48.00
2.990	4.000	64.00	36.00	17.00	6	48.00
3.000	4.000	64.00	36.00	17.00	6	42.50
3.010	4.000	64.00	36.00	17.00	6	48.00
3.020	4.000	64.00	36.00	17.00	6	48.00
3.030	4.000	64.00	36.00	17.00	6	48.00
3.970	4.000	77.00	45.00	21.00	6	57.00
3.980	4.000	77.00	45.00	21.00	6	57.00
3.990	4.000	77.00	45.00	21.00	6	57.00
4.000	4.000	77.00	45.00	21.00	6	50.00
4.010	4.000	77.00	45.00	21.00	6	57.00
4.020	4.000	77.00	45.00	21.00	6	57.00
4.030	4.000	77.00	45.00	21.00	6	57.00
4.970	6.000	93.00	59.00	26.00	6	62.00
4.980	6.000	93.00	59.00	26.00	6	62.00
4.990	6.000	93.00	59.00	26.00	6	62.00
5.000	6.000	93.00	59.00	26.00	6	56.00
5.010	6.000	93.00	59.00	26.00	6	62.00
5.020	6.000	93.00	59.00	26.00	6	62.00
5.030	6.000	93.00	59.00	26.00	6	62.00
5.970	6.000	93.00	57.00	26.00	6	67.00
5.980	6.000	93.00	57.00	26.00	6	67.00
5.990	6.000	93.00	57.00	26.00	6	67.00
6.000	6.000	93.00	57.00	26.00	6	61.00
6.010	6.000	93.00	57.00	26.00	6	67.00
6.020	6.000	93.00	57.00	26.00	6	67.00
6.030	6.000	93.00	57.00	26.00	6	67.00
7.000	8.000	109.00	69.00	31.00	6	62.00
7.970	8.000	117.00	75.00	33.00	6	85.00
7.980	8.000	117.00	75.00	33.00	6	85.00
7.990	8.000	117.00	75.00	33.00	6	85.00
8.000	8.000	117.00	75.00	33.00	6	78.00
8.010	8.000	117.00	75.00	33.00	6	85.00
8.020	8.000	117.00	75.00	33.00	6	85.00
8.030	8.000	117.00	75.00	33.00	6	85.00

NC machine chucking reamers



Catalogue no.

72930

Tool material

Solid carbide

Discount group

120

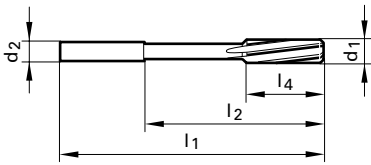
Surface

bright

Form

d1 mm	d2 mm	l1 mm	l2 mm	l4 mm	cutting edges	Gross price/€
3.000	4.000	64.00	36.00	17.00	6	39.00
3.100	4.000	68.00	40.00	18.00	6	42.00
3.200	4.000	68.00	40.00	18.00	6	42.00
3.300	4.000	68.00	40.00	18.00	6	42.00
3.400	4.000	74.00	46.00	20.00	6	42.00
3.500	4.000	74.00	46.00	20.00	6	40.50
3.600	4.000	74.00	46.00	20.00	6	44.00
3.700	4.000	74.00	46.00	20.00	6	44.00
3.800	4.000	77.00	45.00	21.00	6	44.00
3.900	4.000	77.00	45.00	21.00	6	44.00
4.000	4.000	77.00	45.00	21.00	6	41.50
4.100	6.000	82.00	50.00	23.00	6	44.00
4.200	6.000	82.00	50.00	23.00	6	44.00
4.300	6.000	82.00	50.00	23.00	6	44.00
4.400	6.000	82.00	50.00	23.00	6	44.00
4.500	6.000	82.00	50.00	23.00	6	43.00
4.600	6.000	82.00	50.00	23.00	6	46.50
4.700	6.000	82.00	50.00	23.00	6	46.50
4.800	6.000	93.00	59.00	26.00	6	46.50
4.900	6.000	93.00	59.00	26.00	6	46.50
5.000	6.000	93.00	59.00	26.00	6	51.00
5.100	6.000	93.00	59.00	26.00	6	55.00
5.200	6.000	93.00	59.00	26.00	6	55.00
5.300	6.000	93.00	59.00	26.00	6	55.00
5.400	6.000	93.00	57.00	26.00	6	55.00
5.500	6.000	93.00	57.00	26.00	6	54.00
5.600	6.000	93.00	57.00	26.00	6	58.00
5.700	6.000	93.00	57.00	26.00	6	58.00
5.800	6.000	93.00	57.00	26.00	6	58.00
5.900	6.000	93.00	57.00	26.00	6	58.00
6.000	6.000	93.00	57.00	26.00	6	56.00
6.100	8.000	101.00	63.00	28.00	6	60.00
6.200	8.000	101.00	63.00	28.00	6	60.00
6.300	8.000	101.00	63.00	28.00	6	60.00
6.400	8.000	101.00	63.00	28.00	6	60.00
6.500	8.000	101.00	63.00	28.00	6	59.00
6.600	8.000	101.00	63.00	28.00	6	63.00
6.700	8.000	101.00	63.00	28.00	6	63.00
6.800	8.000	109.00	69.00	31.00	6	63.00
6.900	8.000	109.00	69.00	31.00	6	63.00
7.000	8.000	109.00	69.00	31.00	6	58.00
7.100	8.000	109.00	69.00	31.00	6	61.00
7.200	8.000	109.00	69.00	31.00	6	61.00
7.300	8.000	109.00	69.00	31.00	6	61.00
7.400	8.000	109.00	69.00	31.00	6	61.00
7.500	8.000	109.00	69.00	31.00	6	60.00
7.600	8.000	109.00	69.00	31.00	6	64.00
7.700	8.000	117.00	75.00	33.00	6	64.00
7.800	8.000	117.00	75.00	33.00	6	64.00
7.900	8.000	117.00	75.00	33.00	6	64.00
8.000	8.000	117.00	75.00	33.00	6	71.00
8.100	10.000	117.00	75.00	33.00	6	77.00
8.200	10.000	117.00	75.00	33.00	6	77.00
8.300	10.000	117.00	75.00	33.00	6	77.00
8.400	10.000	117.00	75.00	33.00	6	77.00
8.500	10.000	117.00	75.00	33.00	6	75.00
8.600	10.000	117.00	75.00	33.00	6	80.00
8.700	10.000	125.00	81.00	36.00	6	80.00
8.800	10.000	125.00	81.00	36.00	6	80.00
8.900	10.000	125.00	81.00	36.00	6	80.00

NC machine chucking reamers



Catalogue no.

72900

Tool material

HSS-E

Discount group

105

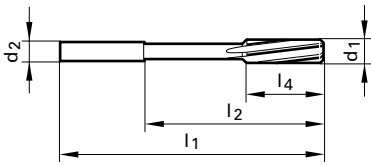
Surface

bright

Form

d1 mm	d2 mm	l1 mm	l2 mm	l4 mm	cutting edges	Gross price/€
1.000	1.000	34.00	15.00	5.50	3	16.20
1.010	1.000	34.00	15.00	5.50	3	16.20
1.020	1.000	34.00	15.00	5.50	3	16.20
1.030	1.000	34.00	15.00	5.50	3	16.20
1.500	2.000	40.00	18.00	8.00	3	14.10
1.510	2.000	43.00	20.00	9.00	3	14.10
1.520	2.000	43.00	20.00	9.00	3	14.10
1.530	2.000	43.00	20.00	9.00	3	14.10
1.970	2.000	49.00	24.00	11.00	4	14.10
1.980	2.000	49.00	24.00	11.00	4	14.10
1.990	2.000	49.00	24.00	11.00	4	14.10
2.000	2.000	49.00	24.00	11.00	4	13.30
2.010	2.000	49.00	24.00	11.00	4	13.30
2.020	2.000	49.00	24.00	11.00	4	13.30
2.030	2.000	49.00	24.00	11.00	4	13.30
2.470	3.000	57.00	28.00	14.00	4	15.40
2.480	3.000	57.00	28.00	14.00	4	15.40
2.490	3.000	57.00	28.00	14.00	4	15.40
2.500	3.000	57.00	28.00	14.00	4	13.00
2.510	3.000	57.00	28.00	14.00	4	13.00
2.520	3.000	57.00	28.00	14.00	4	13.00
2.530	3.000	57.00	28.00	14.00	4	13.00
2.970	3.000	61.00	32.00	15.00	6	15.60
2.980	3.000	61.00	32.00	15.00	6	15.60
2.990	3.000	61.00	32.00	15.00	6	15.60
3.000	3.000	61.00	32.00	15.00	6	11.50
3.010	4.000	65.00	35.00	16.00	6	11.50
3.020	4.000	65.00	35.00	16.00	6	11.50
3.030	4.000	65.00	35.00	16.00	6	12.80
3.970	4.000	75.00	43.00	19.00	6	12.80
3.980	4.000	75.00	43.00	19.00	6	12.80
3.990	4.000	75.00	43.00	19.00	6	12.80
4.000	4.000	75.00	43.00	19.00	6	12.80
4.010	4.000	75.00	43.00	19.00	6	12.80
4.020	4.000	75.00	43.00	19.00	6	12.80
4.030	4.000	75.00	43.00	19.00	6	12.80
4.970	5.000	86.00	52.00	23.00	6	13.90
4.980	5.000	86.00	52.00	23.00	6	13.90
4.990	5.000	86.00	52.00	23.00	6	13.90
5.000	5.000	86.00	52.00	23.00	6	13.90
5.010	5.000	86.00	52.00	23.00	6	13.90
5.020	5.000	86.00	52.00	23.00	6	13.90
5.030	5.000	86.00	52.00	23.00	6	13.90
5.970	6.000	93.00	57.00	26.00	6	15.40
5.980	6.000	93.00	57.00	26.00	6	15.40
5.990	6.000	93.00	57.00	26.00	6	15.40
6.000	6.000	93.00	57.00	26.00	6	15.40
6.010	6.000	101.00	63.00	28.00	6	15.40
6.020	6.000	101.00	63.00	28.00	6	15.40
6.030	6.000	101.00	63.00	28.00	6	15.40
7.970	8.000	117.00	75.00	33.00	6	16.50
7.980	8.000	117.00	75.00	33.00	6	16.50
7.990	8.000	117.00	75.00	33.00	6	16.50
8.000	8.000	117.00	75.00	33.00	6	16.50
8.010	8.000	117.00	75.00	33.00	6	16.50
8.020	8.000	117.00	75.00	33.00	6	16.50
8.030	8.000	117.00	75.00	33.00	6	16.50
9.000	10.000	125.00	81.00	36.00	6	21.00
9.010	10.000	125.00	81.00	36.00	6	21.00
9.020	10.000	125.00	81.00	36.00	6	21.00

NC machine chucking reamers



Catalogue no.
Tool material
Discount group
Surface
Form

72910

HSS-E

105

bright

d1 mm	d2 mm	l1 mm	l2 mm	l4 mm	cutting edges	Gross price/€
1.500	2.000	40.00	18.00	8.00	3	11.10
1.600	2.000	43.00	20.00	9.00	3	12.40
1.700	2.000	43.00	20.00	9.00	3	12.40
1.800	2.000	46.00	22.00	10.00	4	12.40
1.900	2.000	46.00	22.00	10.00	4	12.40
2.000	2.000	49.00	24.00	11.00	4	10.70
2.100	2.000	49.00	24.00	11.00	4	13.00
2.200	3.000	53.00	26.00	12.00	4	13.00
2.300	3.000	53.00	26.00	12.00	4	13.00
2.400	3.000	57.00	28.00	14.00	4	13.00
2.500	3.000	57.00	28.00	14.00	4	10.70
2.600	3.000	57.00	28.00	14.00	4	13.90
2.700	3.000	61.00	32.00	15.00	6	13.90
2.800	3.000	61.00	32.00	15.00	6	13.90
2.900	3.000	61.00	32.00	15.00	6	13.90
3.000	3.000	61.00	32.00	15.00	6	9.80
3.100	4.000	65.00	35.00	16.00	6	13.00
3.200	4.000	65.00	35.00	16.00	6	13.00
3.300	4.000	65.00	35.00	16.00	6	13.00
3.400	4.000	70.00	40.00	18.00	6	13.00
3.500	4.000	70.00	40.00	18.00	6	11.50
3.600	4.000	70.00	40.00	18.00	6	14.50
3.700	4.000	70.00	40.00	18.00	6	14.50
3.800	4.000	75.00	43.00	19.00	6	14.50
3.900	4.000	75.00	43.00	19.00	6	10.50
4.000	4.000	75.00	43.00	19.00	6	10.70
4.100	4.000	75.00	43.00	19.00	6	13.60
4.200	4.000	75.00	43.00	19.00	6	13.60
4.300	5.000	80.00	47.00	21.00	6	13.60
4.400	5.000	80.00	47.00	21.00	6	13.60
4.500	5.000	80.00	47.00	21.00	6	11.50
4.600	5.000	80.00	47.00	21.00	6	14.70
4.700	5.000	80.00	47.00	21.00	6	14.70
4.800	5.000	86.00	52.00	23.00	6	14.70
4.900	5.000	86.00	52.00	23.00	6	14.70
5.000	5.000	86.00	52.00	23.00	6	11.10
5.100	5.000	86.00	52.00	23.00	6	14.70
5.200	5.000	86.00	52.00	23.00	6	14.70
5.300	5.000	86.00	52.00	23.00	6	14.70
5.400	6.000	93.00	57.00	26.00	6	14.70
5.500	6.000	93.00	57.00	26.00	6	13.60
5.600	6.000	93.00	57.00	26.00	6	14.70
5.700	6.000	93.00	57.00	26.00	6	14.70
5.800	6.000	93.00	57.00	26.00	6	14.70
5.900	6.000	93.00	57.00	26.00	6	14.70
6.000	6.000	93.00	57.00	26.00	6	11.90
6.100	6.000	101.00	63.00	28.00	6	14.70
6.200	6.000	101.00	63.00	28.00	6	14.70
6.300	6.000	101.00	63.00	28.00	6	14.70
6.400	6.000	101.00	63.00	28.00	6	14.70
6.500	6.000	101.00	63.00	28.00	6	14.10
6.600	6.000	101.00	63.00	28.00	6	14.70
6.700	6.000	101.00	63.00	28.00	6	14.70
6.800	8.000	109.00	69.00	31.00	6	14.70
6.900	8.000	109.00	69.00	31.00	6	14.70
7.000	8.000	109.00	69.00	31.00	6	14.10
7.100	8.000	109.00	69.00	31.00	6	16.50
7.200	8.000	109.00	69.00	31.00	6	16.50
7.300	8.000	109.00	69.00	31.00	6	16.50
7.400	8.000	109.00	69.00	31.00	6	16.50



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