



SOLID CARBIDE CUTTING TOOLS SPECIALIST

Drilling - Reaming - Milling - Special tools



SOLID CARBIDE REAMERS 2019

Standard and special tools

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### SPECIAL REAMERS

Euromac can satisfy any request concerning length, angle, spiral or straight flutes, lateral or axial coolant ducts, step reamers, step drills and so on. We are used to examining each customer specific application and offering him a tool specially designed for his technical problematic.

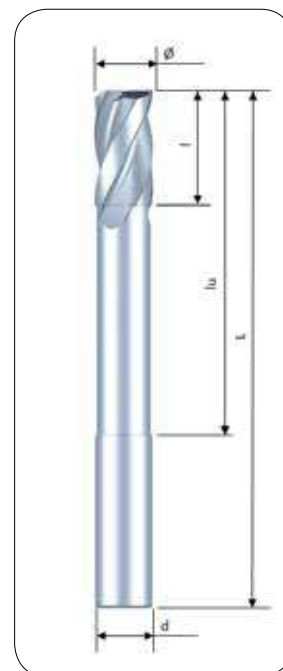
# 730 - Straighteners

Short series .....



This straightener was specially created to straighten drilled holes before reaming.  
This tool is also useful for keeping a consistent thickness in holes.

Ø	d	L	l	lu	Price
3.8	4	75	12	45	70.50 €
4.3	4	80	12	52	78.70 €
4.8	5	86	16	56	78.70 €
5.3	5	86	16	56	85.10 €
5.8	6	86	16	56	84.80 €
6.3	6	86	16	56	103.60 €
6.8	8	86	16	56	103.60 €
7.3	8	86	16	56	110.20 €
7.8	8	86	16	56	110.20 €
8.3	8	90	20	60	133.50 €
8.8	10	90	20	60	133.50 €
9.3	10	90	20	60	121.30 €
9.7	10	90	20	60	121.30 €
10.2	10	90	20	60	141.50 €
10.7	10	90	20	60	141.50 €
11.2	12	90	20	60	154.90 €
11.7	12	90	20	60	154.90 €
12.2	12	100	25	70	166.80 €
12.7	12	100	25	70	166.80 €



## 730 TOLERANCES

Diameter m6

Shank h6



Intermediate dimensions and special tolerances  
available upon request in a few days

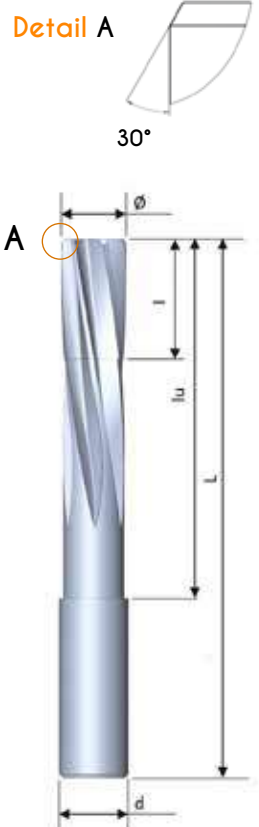
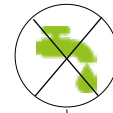


Recommended for tempered parts  
and raw castings

# 740 - High precision machine reamers, left-hand spiral

Short series .....

Ø	d	L	l	lu	Z	Price
1.48 - 2.25	2	49	10	29	3	43.30 €
2.26 - 2.75	2.5	57	12	32	3	47.00 €
2.76 - 3.25	3	61	12	36	4	48.20 €
3.26 - 3.75	3.5	70	12	40	4	49.10 €
3.76 - 4.25	4	75	12	45	4	49.70 €
4.26 - 4.75	4	80	12	52	4	50.40 €
4.76 - 5.25	5	86	16	56	4	51.00 €
5.26 - 5.75	5	86	16	56	4	52.50 €
5.76 - 6.25	6	86	16	56	4	56.40 €
6.26 - 6.75	6	86	16	56	6	62.40 €
6.76 - 7.25	8	86	16	56	6	64.20 €
7.26 - 7.75	8	86	16	56	6	67.90 €
7.76 - 8.25	8	86	16	56	6	70.30 €
8.26 - 8.75	8	90	20	60	6	75.20 €
8.76 - 9.25	10	90	20	60	6	77.70 €
9.26 - 9.75	10	90	20	60	6	81.50 €
9.76 - 10.3	10	90	20	60	6	86.70 €
10.26 - 10.8	10	90	20	60	6	91.60 €
10.76 - 11.3	12	95	20	60	6	95.00 €
11.26 - 11.8	12	95	20	60	6	98.60 €
11.76 - 12.3	12	95	20	60	6	107.40 €
12.26 - 12.8	12	105	25	70	6	114.00 €
12.76 - 13.3	14	105	25	70	6	121.00 €
13.26 - 13.8	14	115	25	80	6	170.80 €
13.76 - 14.3	14	115	25	80	6	192.00 €
14.26 - 14.8	14	120	30	85	6	208.60 €
14.76 - 15.3	16	130	30	85	6	208.60 €
15.26 - 15.8	16	130	30	85	6	213.40 €
15.76 - 16.3	16	130	30	85	6	222.20 €
16.26 - 16.8	16	140	30	95	6	259.40 €
16.76 - 17.3	18	140	30	95	6	259.40 €
17.26 - 17.8	18	140	30	95	6	263.90 €
17.76 - 18.3	18	140	30	95	6	270.10 €
18.26 - 18.8	18	140	30	95	6	348.50 €
18.76 - 19.3	20	140	30	95	6	355.50 €
19.26 - 19.8	20	140	30	95	6	362.40 €
19.76 - 20.3	20	140	30	95	6	374.20 €



**740 TOLERANCES**  
Diameter  $0/+0.004$   
Shank h6



Intermediate dimensions and special tolerances available upon request in a few days



Manufactured between centres = perfect concentricity and accuracy guaranteed



Recommended for through holes



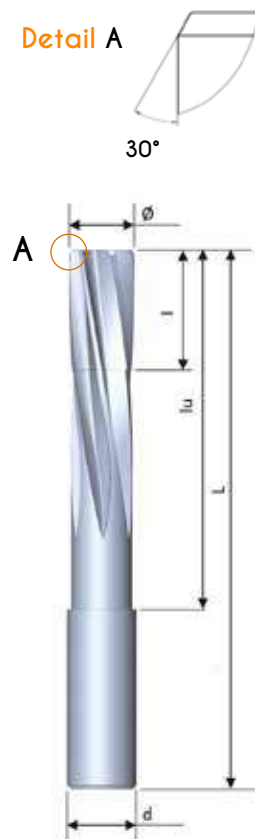
# 712 - High precision machine reamers, left-hand spiral

DIN 212 .....

Ø	d	L	l	lu	Z	Price
1.48 - 1.89	2	49	10	24	3	44.50 €
1.90 - 2.12	2	49	10	24	4	44.50 €
2.13 - 2.65	2.5	57	14	32	4	48.00 €
2.66 - 3.15	3	61	14	32	4	49.10 €
3.16 - 3.75	4	70	18	42	4	49.80 €
3.76 - 4.25	4	75	19	47	4	51.10 €
4.26 - 4.75	5	80	21	52	4	52.30 €
4.76 - 5.30	5	86	23	58	4	53.00 €
5.31 - 5.80	6	93	26	58	6	57.00 €
5.81 - 6.70	6	101	28	65	6	62.50 €
6.71 - 7.50	8	109	31	73	6	69.80 €
7.51 - 8.50	8	117	33	81	6	80.10 €
8.51 - 9.50	10	125	36	85	6	88.70 €
9.51 - 10.60	10	133	38	93	6	99.10 €
10.61 - 11.80	10	142	41	102	6	109.40 €
11.81 - 13.20	12	151	44	111	6	136.10 €
13.21 - 14.05	14	160	47	115	6	166.30 €
14.06 - 15.05	14	162	50	117	6	212.40 €
15.06 - 16.05	16	170	52	117	6	256.70 €
16.06 - 17.05	16	175	54	130	6	283.50 €
17.06 - 18.05	16	182	56	137	6	316.70 €
18.06 - 19.05	20	189	58	141	6	356.50 €
19.06 - 20.05	20	195	60	147	6	435.00 €



Detail A



712 TOLERANCES

Diameter Ø/+0.004

Shank h6



Intermediate dimensions and special tolerances available upon request in a few days



Manufactured between centres = perfect concentricity and accuracy guaranteed

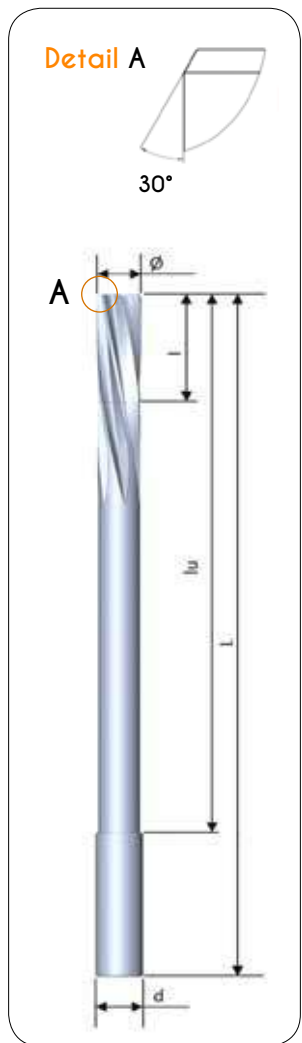


Recommended for through holes

# 774 - High precision machine reamers, left-hand spiral

Long series .....

Ø	d	L	l	lu	Z	Price
3.76 - 4.25	4	105	16	80	4	93.60 €
4.26 - 4.75	4	105	16	80	4	95.10 €
4.76 - 5.25	5	115	30	90	4	99.90 €
5.26 - 5.75	5	115	30	90	4	112.80 €
5.76 - 6.25	6	130	30	100	4	123.40 €
6.26 - 6.75	6	130	30	100	6	136.20 €
6.76 - 7.25	8	140	30	110	6	145.90 €
7.26 - 7.75	8	140	30	110	6	151.30 €
7.76 - 8.25	8	160	30	130	6	164.60 €
8.26 - 8.75	8	160	30	130	6	176.00 €
8.76 - 9.25	10	160	30	130	6	188.10 €
9.26 - 9.75	10	160	30	130	6	194.30 €
9.76 - 10.25	10	190	30	150	6	245.80 €
10.26 - 10.75	10	190	30	150	6	266.30 €
10.76 - 11.25	12	190	30	150	6	281.20 €
11.26 - 11.75	12	190	30	150	6	295.80 €
11.76 - 12.25	12	220	35	170	6	315.20 €
12.26 - 12.75	12	220	35	170	6	330.90 €
12.76 - 13.25	14	220	35	170	6	358.40 €
13.26 - 13.75	14	220	35	170	6	401.60 €
13.76 - 14.25	14	220	35	170	6	404.90 €
14.26 - 14.75	14	220	35	170	6	494.10 €
14.76 - 15.25	16	220	35	170	6	497.40 €
15.26 - 15.75	16	220	35	170	6	552.00 €
15.76 - 16.25	16	230	40	180	6	555.30 €
16.26 - 16.75	16	230	40	180	6	605.40 €
16.76 - 17.25	18	230	40	180	6	608.60 €
17.26 - 17.75	18	230	40	180	6	671.60 €
17.76 - 18.25	18	230	40	180	6	674.90 €
18.26 - 18.75	18	230	40	180	6	726.90 €
18.76 - 19.25	20	230	40	180	6	730.20 €
19.26 - 19.75	20	230	40	180	6	823.20 €
19.76 - 20.25	20	230	40	180	6	826.40 €



**774 TOLERANCES**  
Diameter Ø/+0.004  
Shank h6



Intermediate dimensions and special tolerances available upon request in a few days



Manufactured between centres = perfect concentricity and accuracy guaranteed



Recommended for through holes

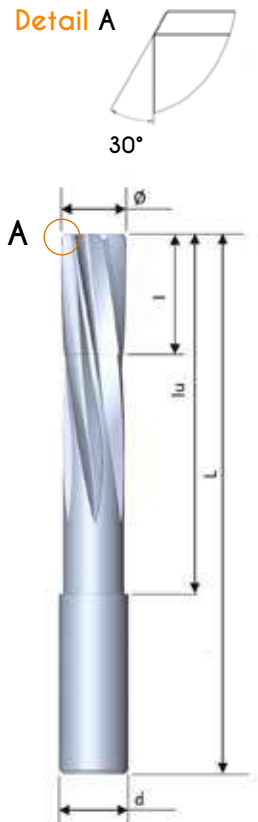
# 700 - Machine reamers H7, left-hand spiral

Short series .....



Reamers tolerances in accordance with the ISO standard "DIN 1420".

Ø	d	L	l	lu	Z	Price
2	2	49	10	29	3	39.00 €
2.5	2.5	57	12	32	3	42.30 €
3	3	61	12	36	4	43.40 €
3.5	3.5	70	12	40	4	44.20 €
4	4	75	12	45	4	44.80 €
4.5	4	80	12	52	4	45.40 €
5	5	86	16	56	4	45.90 €
5.5	5	86	16	56	4	47.30 €
6	6	86	16	56	4	50.80 €
6.5	6	86	16	56	6	56.20 €
7	8	86	16	56	6	57.80 €
7.5	8	86	16	56	6	61.20 €
8	8	86	16	56	6	63.30 €
8.5	8	90	20	60	6	67.70 €
9	10	90	20	60	6	70.00 €
9.5	10	90	20	60	6	73.40 €
10	10	90	20	60	6	78.10 €
10.5	10	90	20	60	6	82.50 €
11	12	95	20	60	6	85.50 €
12	12	95	20	60	6	96.70 €
13	14	105	25	70	6	121.00 €
14	14	115	25	80	6	192.00 €
15	16	130	30	85	6	208.60 €
16	16	130	30	85	6	213.40 €
17	18	140	30	95	6	259.40 €
18	18	140	30	95	6	270.10 €
19	20	140	30	95	6	355.50 €
20	20	140	30	95	6	374.20 €



700 TOLERANCES

Diameter H7

Shank h6



For intermediate dimensions and special tolerances, please refer to page 3




Manufactured between centres = perfect concentricity and accuracy guaranteed



Recommended for through holes

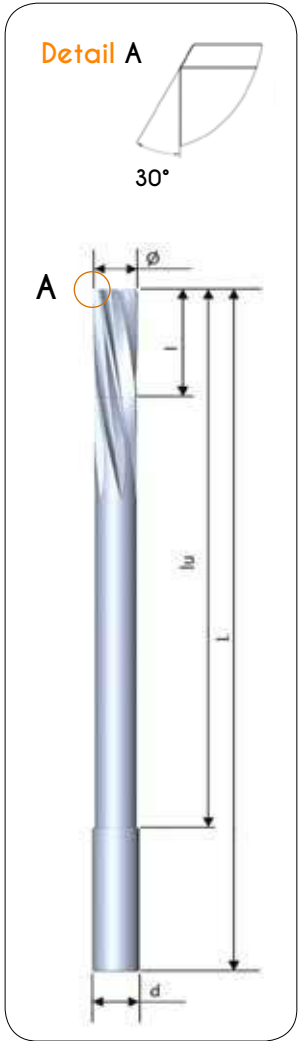
# 770 - Machine reamers H7, left-hand spiral

Long series .....



Reamers tolerances in accordance with the ISO standard "DIN 1420".


Ø	d	L	l	lu	Z	Price
4	4	105	16	80	4	93.60 €
4.5	4	105	16	80	4	95.10 €
5	5	115	30	90	4	99.90 €
5.5	5	115	30	90	4	112.80 €
6	6	130	30	100	4	123.40 €
6.5	6	130	30	100	6	136.20 €
7	8	140	30	110	6	145.90 €
7.5	8	140	30	110	6	151.30 €
8	8	160	30	130	6	164.60 €
8.5	8	160	30	130	6	176.00 €
9	10	160	30	130	6	188.10 €
9.5	10	160	30	130	6	194.30 €
10	10	190	30	150	6	245.80 €
10.5	10	190	30	150	6	266.30 €
11	12	190	30	150	6	281.20 €
12	12	220	35	170	6	315.20 €
13	14	220	35	170	6	358.40 €
14	14	220	35	170	6	404.90 €
15	16	220	35	170	6	497.40 €
16	16	230	40	180	6	555.30 €
17	18	230	40	180	6	608.60 €
18	18	230	40	180	6	674.90 €
19	20	230	40	180	6	730.20 €
20	20	230	40	180	6	826.40 €




770 TOLERANCES

Diameter H7


Shank h6



For intermediate dimensions and special tolerances, please refer to page 5



Manufactured between centres = perfect concentricity and accuracy guaranteed

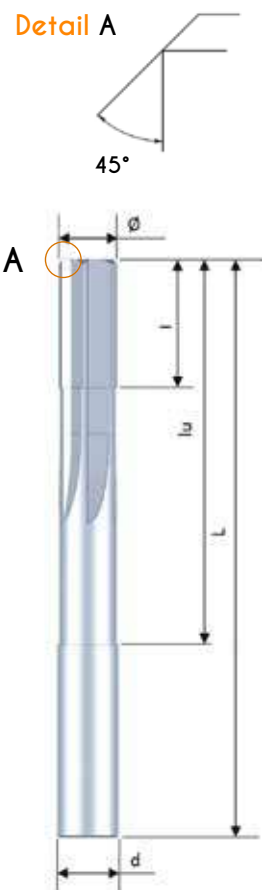


Recommended for through holes

# 750 - High precision machine reamers, straight flutes

Short series .....

Ø	d	L	l	lu	Z	Price
1.48 - 2.25	2	49	10	29	3	49.60 €
2.26 - 2.75	2.5	57	12	32	3	54.00 €
2.76 - 3.25	3	61	12	36	4	55.30 €
3.26 - 3.75	3.5	70	12	40	4	56.30 €
3.76 - 4.25	4	75	12	45	4	57.00 €
4.26 - 4.75	4	80	12	52	4	57.90 €
4.76 - 5.25	5	86	16	56	4	58.60 €
5.26 - 5.75	5	86	16	56	4	60.20 €
5.76 - 6.25	6	86	16	56	4	64.70 €
6.26 - 6.75	6	86	16	56	6	71.60 €
6.76 - 7.25	8	86	16	56	6	73.60 €
7.26 - 7.75	8	86	16	56	6	77.90 €
7.76 - 8.25	8	86	16	56	6	80.70 €
8.26 - 8.75	8	90	20	60	6	86.30 €
8.76 - 9.25	10	90	20	60	6	89.10 €
9.26 - 9.75	10	90	20	60	6	93.50 €
9.76 - 10.25	10	90	20	60	6	99.50 €
10.26 - 10.75	10	90	20	60	6	105.10 €
10.76 - 11.25	12	95	20	60	6	109.00 €
11.26 - 11.75	12	95	20	60	6	113.10 €
11.76 - 12.25	12	95	20	60	6	123.20 €
12.26 - 12.75	12	105	25	70	6	130.80 €
12.76 - 13.25	14	105	25	70	6	138.80 €
13.26 - 13.75	14	115	25	80	6	195.90 €
13.76 - 14.25	14	115	25	80	6	220.30 €
14.26 - 14.75	14	120	30	85	6	239.30 €
14.76 - 15.25	16	130	30	85	6	239.30 €
15.26 - 15.75	16	130	30	85	6	244.80 €
15.76 - 16.25	16	130	30	85	6	255.00 €
16.26 - 16.75	16	140	30	95	6	297.60 €
16.76 - 17.25	18	140	30	95	6	297.60 €
17.26 - 17.75	18	140	30	95	6	302.80 €
17.76 - 18.25	18	140	30	95	6	309.90 €
18.26 - 18.75	18	140	30	95	6	399.80 €
18.76 - 19.25	20	140	30	95	6	407.80 €
19.26 - 19.75	20	140	30	95	6	415.80 €
19.76 - 20.25	20	140	30	95	6	429.40 €



**750 TOLERANCES**  
Diameter  $0/+0.004$   
Shank h6



Intermediate dimensions and special tolerances  
available upon request in a few days



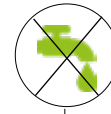
Manufactured between centres = perfect  
concentricity and accuracy guaranteed



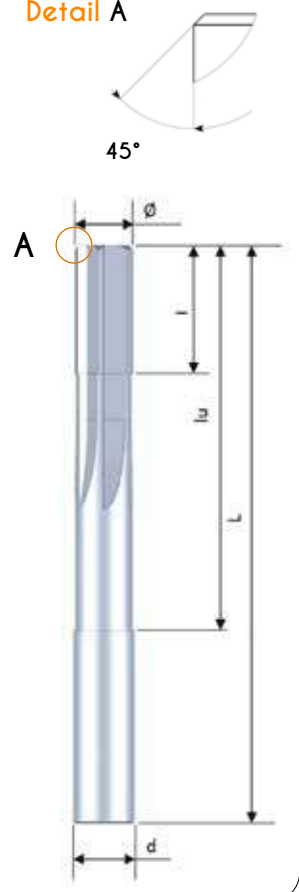
Recommended for blind holes

# 775 - High precision machine reamers, straight flutes

Long series .....



Detail A



## 775 TOLERANCES

Diameter  $0/+0.004$

Shank h6

$\varnothing$	d	L	l	lu	Z	Price
3.76 - 4.25	4	105	16	80	4	103.00 €
4.26 - 4.75	4	105	16	80	4	104.70 €
4.76 - 5.25	5	115	30	90	4	109.90 €
5.26 - 5.75	5	115	30	90	4	124.10 €
5.76 - 6.25	6	130	30	100	4	135.80 €
6.26 - 6.75	6	130	30	100	6	149.90 €
6.76 - 7.25	8	140	30	110	6	160.50 €
7.26 - 7.75	8	140	30	110	6	166.50 €
7.76 - 8.25	8	160	30	130	6	181.10 €
8.26 - 8.75	8	160	30	130	6	193.60 €
8.76 - 9.25	10	160	30	130	6	207.00 €
9.26 - 9.75	10	160	30	130	6	213.80 €
9.76 - 10.25	10	190	30	150	6	270.40 €
10.26 - 10.75	10	190	30	150	6	293.00 €
10.76 - 11.25	12	190	30	150	6	309.40 €
11.26 - 11.75	12	190	30	150	6	325.40 €
11.76 - 12.25	12	220	35	170	6	346.80 €
12.26 - 12.75	12	220	35	170	6	364.00 €
12.76 - 13.25	14	220	35	170	6	394.30 €
13.26 - 13.75	14	220	35	170	6	441.80 €
13.76 - 14.25	14	220	35	170	6	445.40 €
14.26 - 14.75	14	220	35	170	6	543.60 €
14.76 - 15.25	16	220	35	170	6	547.20 €
15.26 - 15.75	16	220	35	170	6	607.20 €
15.76 - 16.25	16	230	40	180	6	610.90 €
16.26 - 16.75	16	230	40	180	6	666.00 €
16.76 - 17.25	18	230	40	180	6	669.50 €
17.26 - 17.75	18	230	40	180	6	738.80 €
17.76 - 18.25	18	230	40	180	6	742.40 €
18.26 - 18.75	18	230	40	180	6	799.60 €
18.76 - 19.25	20	230	40	180	6	803.30 €
19.26 - 19.75	20	230	40	180	6	905.60 €
19.76 - 20.25	20	230	40	180	6	909.10 €



Intermediate dimensions and special tolerances  
available upon request in a few days



Manufactured between centres = perfect  
concentricity and accuracy guaranteed



Recommended for blind holes



# MACHINE REAMERS WITH INTERNAL LUBRICATION

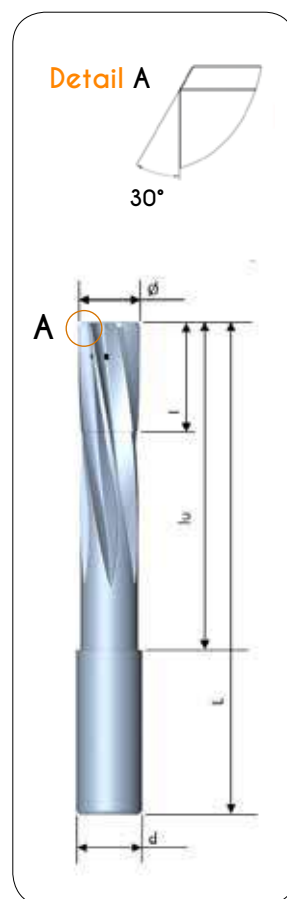


# 144 - High precision machine reamers, left-hand spiral

Short series – Lateral coolant ducts .....

These reamers are fitted with lateral coolant ducts. They are particularly recommended for operations which require intense lubrication, for example in hard materials such as titanium, inconel, aluminium, in deep drilled holes, or even in intricate hole configurations that make the cooling process difficult.

Ø	d	L	l	lu	Z	Price
3.76 - 4.25	6	75	12	45	4	122.30 €
4.26 - 4.75	6	80	12	52	4	119.80 €
4.76 - 5.25	6	86	16	56	4	110.20 €
5.26 - 5.75	6	86	16	56	4	116.30 €
5.76 - 6.25	6	86	16	56	4	127.30 €
6.26 - 6.75	8	86	16	56	4	131.50 €
6.76 - 7.25	8	86	16	56	6	135.20 €
7.26 - 7.75	8	86	16	56	6	143.80 €
7.76 - 8.25	8	86	16	56	6	143.80 €
8.26 - 8.75	10	92	20	60	6	178.60 €
8.76 - 9.25	10	92	20	60	6	212.00 €
9.26 - 9.75	10	92	20	60	6	238.00 €
9.76 - 10.25	10	92	20	60	6	246.00 €
10.26 - 10.75	12	95	20	60	6	249.00 €
10.76 - 11.25	12	95	20	60	6	251.00 €
11.26 - 11.75	12	95	20	60	6	256.00 €
11.76 - 12.25	12	95	20	60	6	253.00 €
12.26 - 12.75	14	115	25	80	6	277.50 €
12.76 - 13.25	14	115	25	80	6	298.80 €
13.26 - 13.75	14	115	25	80	6	298.80 €
13.76 - 14.25	14	115	25	80	6	312.50 €
14.26 - 14.75	16	130	30	85	6	343.30 €
14.76 - 15.25	16	130	30	85	6	360.20 €
15.26 - 15.75	16	130	30	85	6	389.40 €
15.76 - 16.25	16	130	30	85	6	393.10 €
16.26 - 16.75	18	140	30	95	6	448.90 €
16.76 - 17.25	18	140	30	95	6	487.20 €
17.26 - 17.75	18	140	30	95	6	504.20 €
17.76 - 18.25	18	140	30	95	6	504.20 €
18.26 - 18.75	20	140	30	95	6	548.50 €
18.76 - 19.25	20	140	30	95	6	548.50 €
19.26 - 19.75	20	140	30	95	6	588.80 €
19.76 - 20.25	20	140	30	95	6	621.30 €



**144 TOLERANCES**  
Diameter Ø/+0.004  
Shank h7



Intermediate dimensions  
and special tolerances  
available upon request  
in a few days



Manufactured between  
centres = perfect  
concentricity and accuracy  
guaranteed



Recommended for  
through holes



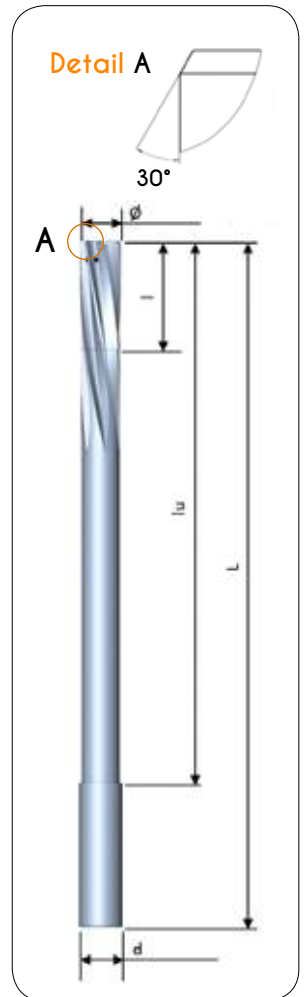
Close tolerances and  
concentricity  
Smooth accurate holes  
Extended tool lifetime

# 174 - High precision machine reamers, left-hand spiral

Long series - Lateral coolant ducts .....

These reamers are fitted with lateral coolant ducts. They are particularly recommended for operations which require intense lubrication, for example in hard materials such as titanium, inconel, aluminium, in deep drilled holes, or even in intricate hole configurations that make the cooling process difficult.

Ø	d	L	l	Lv	Z	Price
3.76 - 4.25	6	105	16	75	4	186.50 €
4.26 - 4.75	6	105	16	75	4	182.30 €
4.76 - 5.25	6	115	30	85	4	172.80 €
5.26 - 5.75	6	115	30	85	4	166.60 €
5.76 - 6.25	6	130	30	95	4	161.30 €
6.26 - 6.75	6	130	30	95	4	156.60 €
6.76 - 7.25	8	140	30	105	6	162.40 €
7.26 - 7.75	8	140	30	105	6	181.70 €
7.76 - 8.25	8	160	30	125	6	192.50 €
8.26 - 8.75	8	160	30	125	6	233.30 €
8.76 - 9.25	10	165	30	125	6	254.00 €
9.26 - 9.75	10	165	30	125	6	287.00 €
9.76 - 10.3	10	190	30	150	6	312.00 €
10.26 - 10.8	10	190	30	150	6	347.00 €
10.76 - 11.3	12	195	30	150	6	382.10 €
11.26 - 11.8	12	195	30	150	6	401.90 €
11.76 - 12.3	12	220	35	170	6	426.50 €
12.26 - 12.8	12	220	35	170	6	457.70 €
12.76 - 13.3	14	220	35	170	6	481.20 €
13.26 - 13.8	14	220	35	170	6	509.80 €
13.76 - 14.3	14	220	35	170	6	551.20 €
14.26 - 14.8	14	220	35	170	6	598.60 €
14.76 - 15.3	16	220	35	170	6	682.70 €
15.26 - 15.8	16	220	35	170	6	682.70 €
15.76 - 16.3	16	230	40	180	6	664.50 €
16.26 - 16.8	16	230	40	180	6	781.30 €
16.76 - 17.3	18	230	40	180	6	812.00 €
17.26 - 17.8	18	230	40	180	6	812.00 €
17.76 - 18.3	18	230	40	180	6	812.00 €
18.26 - 18.8	18	230	40	180	6	957.00 €
18.76 - 19.3	20	230	40	180	6	957.00 €
19.26 - 19.8	20	230	40	180	6	1 182.00 €
19.76 - 20.3	20	230	40	180	6	1 182.00 €



**174 TOLERANCES**  
Diameter Ø/+0.004  
Shank h7



Intermediate dimensions  
and special tolerances  
available upon request  
in a few days



Manufactured between  
centres = perfect  
concentricity and accuracy  
guaranteed



Recommended for  
through holes



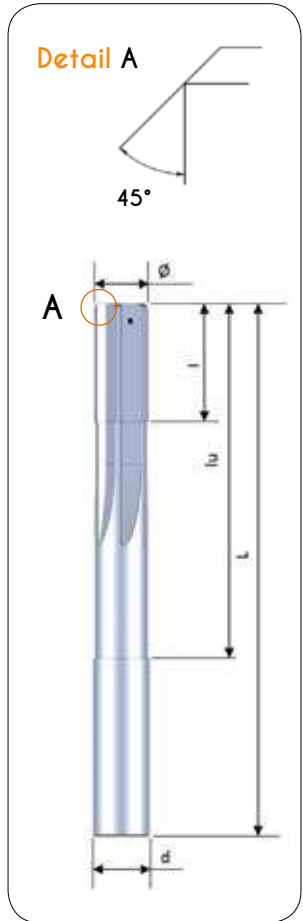
Close tolerances and  
concentricity  
Smooth accurate holes  
Extended tool lifetime

# 154 - High precision machine reamers, straight flutes

Short series - Lateral coolant ducts .....

These reamers are fitted with lateral coolant ducts. They are particularly recommended for operations which require intense lubrication, for example in hard materials such as titanium, inconel, aluminium, in deep drilled holes, or even in intricate hole configurations that make the cooling process difficult.

Ø	d	L	l	lu	Z	Price
3.76 - 4.25	6	75	12	45	4	122.30 €
4.26 - 4.75	6	80	12	52	4	119.80 €
4.76 - 5.25	6	86	16	56	4	110.20 €
5.26 - 5.75	6	86	16	56	4	116.30 €
5.76 - 6.25	6	86	16	56	4	127.30 €
6.26 - 6.75	8	86	16	56	4	131.50 €
6.76 - 7.25	8	86	16	56	6	135.20 €
7.26 - 7.75	8	86	16	56	6	143.80 €
7.76 - 8.25	8	86	16	56	6	143.80 €
8.26 - 8.75	10	92	20	60	6	178.60 €
8.76 - 9.25	10	92	20	60	6	212.00 €
9.26 - 9.75	10	92	20	60	6	238.00 €
9.76 - 10.25	10	92	20	60	6	246.00 €
10.26 - 10.75	12	95	20	60	6	249.00 €
10.76 - 11.25	12	95	20	60	6	251.00 €
11.26 - 11.75	12	95	20	60	6	256.00 €
11.76 - 12.25	12	95	20	60	6	253.00 €
12.26 - 12.75	14	115	25	80	6	277.50 €
12.76 - 13.25	14	115	25	80	6	298.80 €
13.26 - 13.75	14	115	25	80	6	298.80 €
13.76 - 14.25	14	115	25	80	6	312.50 €
14.26 - 14.75	16	130	30	85	6	343.30 €
14.76 - 15.25	16	130	30	85	6	360.20 €
15.26 - 15.75	16	130	30	85	6	389.40 €
15.76 - 16.25	16	130	30	85	6	393.10 €
16.26 - 16.75	18	140	30	95	6	448.90 €
16.76 - 17.25	18	140	30	95	6	487.20 €
17.26 - 17.75	18	140	30	95	6	504.20 €
17.76 - 18.25	18	140	30	95	6	504.20 €
18.26 - 18.75	20	140	30	95	6	548.50 €
18.76 - 19.25	20	140	30	95	6	548.50 €
19.26 - 19.75	20	140	30	95	6	588.80 €
19.76 - 20.25	20	140	30	95	6	621.30 €



**154 TOLERANCES**  
Diameter Ø/+0.004  
Shank h6



Intermediate dimensions and special tolerances available upon request in a few days



Manufactured between centres = perfect concentricity and accuracy guaranteed



Recommended for blind and through holes



Close tolerances and concentricity  
Smooth accurate holes  
Extended tool lifetime

# 175 - High precision machine reamers, straight flutes

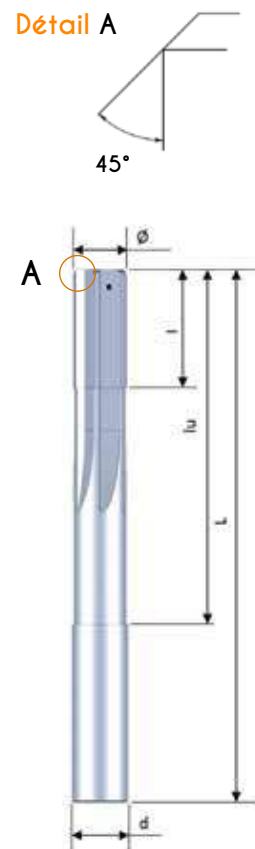
Long series – Lateral coolant ducts .....

These reamers are fitted with lateral coolant ducts. They are particularly recommended for operations which require intense lubrication, for example in hard materials such as titanium, inconel, aluminium, in deep drilled holes, or even in intricate hole configurations that make the cooling process difficult.

Ø	d	L	I	Lu	Z	Price
3.76 - 4.25	6	105	16	75	4	205.20 €
4.26 - 4.75	6	105	16	75	4	200.60 €
4.76 - 5.25	6	115	30	85	4	190.10 €
5.26 - 5.75	6	115	30	85	4	183.30 €
5.76 - 6.25	6	130	30	95	4	177.50 €
6.26 - 6.75	6	130	30	95	4	172.30 €
6.76 - 7.25	8	140	30	105	6	178.70 €
7.26 - 7.75	8	140	30	105	6	199.90 €
7.76 - 8.25	8	160	30	125	6	211.80 €
8.26 - 8.75	8	160	30	125	6	256.70 €
8.76 - 9.25	10	165	30	125	6	279.40 €
9.26 - 9.75	10	165	30	125	6	315.70 €
9.76 - 10.25	10	190	30	150	6	343.20 €
10.26 - 10.75	10	190	30	150	6	381.70 €
10.76 - 11.25	12	195	30	150	6	420.40 €
11.26 - 11.75	12	195	30	150	6	442.10 €
11.76 - 12.25	12	220	35	170	6	469.20 €
12.26 - 12.75	12	220	35	170	6	503.50 €
12.76 - 13.25	14	220	35	170	6	529.40 €
13.26 - 13.75	14	220	35	170	6	560.80 €
13.76 - 14.25	14	220	35	170	6	606.40 €
14.26 - 14.75	14	220	35	170	6	658.50 €
14.76 - 15.25	16	220	35	170	6	751.00 €
15.26 - 15.75	16	220	35	170	6	751.00 €
15.76 - 16.25	16	230	40	180	6	731.00 €
16.26 - 16.75	16	230	40	180	6	859.50 €
16.76 - 17.25	18	230	40	180	6	893.20 €
17.26 - 17.75	18	230	40	180	6	893.20 €
17.76 - 18.25	18	230	40	180	6	893.20 €
18.26 - 18.75	18	230	40	180	6	1 052.70 €
18.76 - 19.25	20	230	40	180	6	1 052.70 €
19.26 - 19.75	20	230	40	180	6	1 300.20 €
19.76 - 20.25	20	230	40	180	6	1 300.20 €



Détail A



**175 TOLERANCES**  
Diameter Ø/+0.004  
Shank h6



Intermediate dimensions  
and special tolerances  
available upon request  
in a few days



Manufactured between  
centres = perfect  
concentricity and accuracy  
guaranteed



Recommended for  
blind and through holes



Close tolerances and  
concentricity  
Smooth accurate holes  
Extended tool lifetime

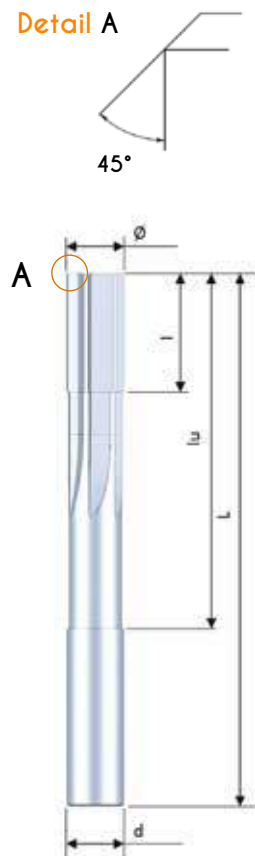
# 114 - High precision machine reamers, straight flutes

Short series - Axial coolant ducts .....

Ø	d	L	l	lv	Z	Price
3.61 - 4.10	6	80	15	55	4	76.90 €
4.11 - 4.60	6	80	15	55	4	77.10 €
4.61 - 5.10	6	80	15	55	4	77.10 €
5.11 - 5.60	6	80	15	55	4	82.30 €
5.61 - 6.10	6	80	15	55	4	82.30 €
6.11 - 6.60	8	90	20	60	4	99.40 €
6.61 - 7.10	8	90	20	60	4	99.40 €
7.11 - 7.60	8	90	20	60	4	105.90 €
7.61 - 8.10	8	90	20	60	4	105.90 €
8.11 - 8.60	10	90	20	60	5	121.20 €
8.61 - 9.10	10	90	20	60	5	121.20 €
9.11 - 9.60	10	90	20	60	5	118.80 €
9.61 - 10.10	10	90	20	60	5	118.80 €
10.11 - 10.60	12	90	20	60	5	149.80 €
10.61 - 11.10	12	90	20	60	5	149.80 €
11.11 - 11.60	12	90	20	60	5	161.50 €
11.61 - 12.10	12	90	20	60	5	161.50 €
12.11 - 12.60	14	105	25	75	5	196.70 €
12.61 - 13.10	14	105	25	75	5	196.70 €
13.11 - 13.60	14	105	25	75	5	235.40 €
13.61 - 14.10	14	105	25	75	5	235.40 €
14.11 - 14.60	16	105	25	75	5	269.80 €
14.61 - 15.10	16	105	25	75	5	269.80 €
15.11 - 15.60	16	105	25	75	5	326.50 €
15.61 - 16.10	16	105	25	75	5	326.50 €
16.11 - 16.60	18	120	30	85	5	356.80 €
16.61 - 17.10	18	120	30	85	5	356.80 €
17.11 - 17.60	18	120	30	85	5	411.50 €
17.61 - 18.10	18	120	30	85	5	411.50 €
18.11 - 18.60	20	130	30	95	5	466.10 €
18.61 - 19.10	20	130	30	95	5	466.10 €
19.11 - 19.60	20	130	30	95	5	503.30 €
19.61 - 20.10	20	130	30	95	5	503.30 €



Detail A



114 TOLERANCES

Diameter Ø/+0.004

Shank h6



Intermediate dimensions and special tolerances  
available upon request in a few days



Manufactured between centres = perfect  
concentricity and accuracy guaranteed

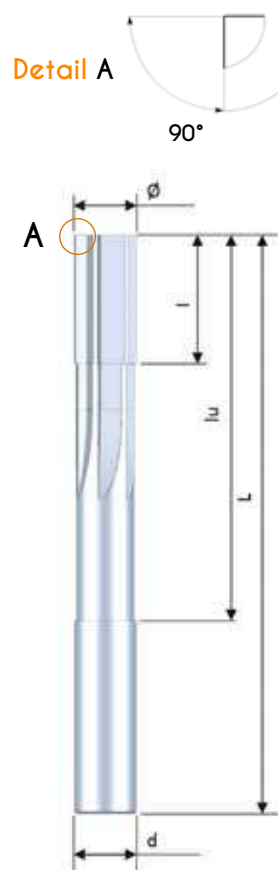


Recommended for blind holes

# 124 - High precision machine reamers, straight flutes

Short series – Axial coolant ducts .....

Ø	d	L	l	lu	Z	Price
3.61 - 4.10	6	80	15	55	4	86.80 €
4.11 - 4.60	6	80	15	55	4	86.80 €
4.61 - 5.10	6	80	15	55	4	86.80 €
5.11 - 5.60	6	80	15	55	4	92.60 €
5.61 - 6.10	6	80	15	55	4	92.60 €
6.11 - 6.60	8	90	20	60	4	111.90 €
6.61 - 7.10	8	90	20	60	4	111.90 €
7.11 - 7.60	8	90	20	60	4	119.20 €
7.61 - 8.10	8	90	20	60	4	119.20 €
8.11 - 8.60	10	90	20	60	5	136.40 €
8.61 - 9.10	10	90	20	60	5	136.40 €
9.11 - 9.60	10	90	20	60	5	133.70 €
9.61 - 10.10	10	90	20	60	5	133.70 €
10.11 - 10.60	12	90	20	60	5	168.60 €
10.61 - 11.10	12	90	20	60	5	168.60 €
11.11 - 11.60	12	90	20	60	5	181.70 €
11.61 - 12.10	12	90	20	60	5	181.70 €
12.11 - 12.60	14	105	25	75	5	221.30 €
12.61 - 13.10	14	105	25	75	5	221.30 €
13.11 - 13.60	14	105	25	75	5	264.90 €
13.61 - 14.10	14	105	25	75	5	264.90 €
14.11 - 14.60	16	105	25	75	5	303.60 €
14.61 - 15.10	16	105	25	75	5	303.60 €
15.11 - 15.60	16	105	25	75	5	367.40 €
15.61 - 16.10	16	105	25	75	5	367.40 €
16.11 - 16.60	18	120	30	85	5	401.40 €
16.61 - 17.10	18	120	30	85	5	401.40 €
17.11 - 17.60	18	120	30	85	5	463.00 €
17.61 - 18.10	18	120	30	85	5	463.00 €
18.11 - 18.60	20	130	30	95	5	524.40 €
18.61 - 19.10	20	130	30	95	5	524.40 €
19.11 - 19.60	20	130	30	95	5	566.30 €
19.61 - 20.10	20	130	30	95	5	566.30 €



124 TOLERANCES

Diameter Ø/+0.004

Shank h6



Intermediate dimensions and special tolerances available upon request in a few days



Manufactured between centres = perfect concentricity and accuracy guaranteed



Recommended for blind holes

# REAMERS TOLERANCES



The table below lists reamers ISO tolerances, in accordance with DIN 1420.

CATEGORY	6	7	8	9	10	11	12	13
$< \varnothing \leq$				A9	A10	A11	A12	A13
1-3				+282/+291	+290/+304	+300/+321	+320/+355	+340/+389
3-6				+284/+295	+293/+310	+306/+333	+330/+372	+360/+423
6-10				+297/+310	+308/+329	+324/+356	+354/+407	+390/+467
10-18				+310/+326	+324/+349	+344/+383	+380/+443	+424/+519
18-30				+325/+344	+341/+371	+364/+410	+404/+478	+464/+580
$< \varnothing \leq$			B8	B9	B10	B11	B12	B13
1-3			+146/+151	+152/+161	+160/+174	+170/+191	+190/+225	+210/+259
3-6			+148/+155	+154/+165	+163/+180	+176/+203	+200/+242	+230/+293
6-10			+160/+168	+167/+180	+178/+199	+194/+226	+224/+277	+260/+337
10-18			+162/+172	+170/+186	+184/+209	+204/+243	+240/+303	+284/+379
18-30			+176/+188	+185/+204	+201/+231	+224/+270	+264/+338	+324/+440
$< \varnothing \leq$	C6	C7	C8	C9	C10	C11	C12	C13
1-3	+62/+65	+64/+68	+66/+71	+72/+81	+80/+94	+90/+111	+110/+145	+130/+179
3-6	+73/+76	+75/+80	+78/+85	+84/+95	+93/+110	+106/+133	+130/+172	+160/+223
6-10	+83/+87	+86/+92	+90/+98	+97/+110	+108/+129	+124/+156	+154/+207	+190/+267
10-18	+100/+104	+103/+110	+107/+117	+115/+131	+129/+154	+149/+188	+185/+248	+229/+324
18-30	+116/+121	+119/+127	+126/+138	+135/+154	+151/+181	+174/+220	+214/+288	+274/+390
$< \varnothing \leq$	D6	D7	D8	D9	D10	D11	D12	D13
1-3	+22/+25	+24/+28	+26/+31	+32/+41	+40/+54	+50/+71	+70/+105	+90/+139
3-6	+33/+36	+35/+40	+38/+45	+44/+55	+53/+70	+66/+93	+90/+132	+120/+183
6-10	+43/+47	+46/+52	+50/+58	+57/+70	+68/+89	+84/+116	+114/+167	+150/+227
10-18	+55/+59	+58/+65	+62/+72	+70/+86	+84/+109	+104/+143	+140/+203	+184/+279
18-30	+71/+76	+74/+82	+81/+93	+90/+109	+106/+136	+129/+175	+169/+243	+229/+345
$< \varnothing \leq$	E6	E7	E8	E9	E10			
1-3	+16/+19	+18/+22	+20/+25	+26/+35	+34/+48			
3-6	+23/+26	+25/+30	+28/+35	+34/+45	+43/+60			
6-10	+28/+32	+31/+37	+35/+43	+42/+55	+53/+74			
10-18	+37/+41	+40/+47	+44/+54	+52/+68	+66/+91			
18-30	+46/+51	+49/+57	+56/+68	+65/+84	+81/+111			
$< \varnothing \leq$	F6	F7	F8	F9	F10			
1-3	+8/+11	+10/+14	+12/+17	+18/+27	+26/+40			
3-6	+13/+16	+15/+20	+18/+25	+24/+35	+33/+50			
6-10	+16/+20	+19/+25	+23/+31	+30/+43	+41/+62			
10-18	+21/+25	+24/+31	+28/+38	+36/+52	+50/+75			
18-30	+26/+31	+29/+37	+36/+48	+45/+64	+61/+91			
$< \varnothing \leq$	G6	G7	G8	G9	G10			
1-3	+4/+7	+6/+10	+8/+13	+14/+23	+22/+36			
3-6	+7/+10	+9/+14	+12/+19	+18/+29	+27/+44			
6-10	+8/+12	+11/+17	+15/+23	+22/+35	+33/+54			
10-18	+11/+15	+14/+21	+18/+28	+26/+42	+40/+65			
18-30	+13/+18	+16/+24	+23/+35	+32/+51	+48/+78			
$< \varnothing \leq$	H6	H7	H8	H9	H10	H11	H12	H13
1-3	+2/+5	+4/+8	+6/+11	+12/+21	+20/+34	+30/+51	+50/+85	+70/+119
3-6	+3/+6	+5/+10	+8/+15	+14/+25	+23/+40	+36/+63	+60/+102	+90/+153
6-10	+3/+7	+6/+12	+10/+18	+17/+30	+28/+49	+44/+76	+74/+127	+110/+187
10-18	+5/+9	+8/+15	+12/+22	+20/+36	+34/+59	+54/+93	+90/+153	+134/+229
18-30	+6/+11	+9/+17	+16/+28	+25/+44	+41/+71	+64/+110	+104/+178	+164/+280

# REAMERS TOLERANCES

CATEGORY	6	7	8	9	10	11	12	13
< Ø ≤	JS6	JS7	JS8	JS9	JS10	JS11	JS12	JS13
1-3	+2/-1	+3/-1	+4/-1	+8/-1	+14/0	+21/0	+35/0	+49/0
3-6	+2/-1	+4/-1	+6/-1	+10/-1	+16/-1	+25/-1	+42/0	+63/0
6-10	+2.5/-1.5	+4/-1	+7/-1	+12/-1	+20/-1	+31/-1	+52/-1	+77/0
10-18	+3.5/-0.5	+6/-1	+9/-1	+14/-1	+24/-1	+38/-1	+63/0	+94/-1
18-30	+4.5/0.5	+7/0	+11/-1	+18/-1	+29/-1	+45/-1	+73/-1	+115/-1
< Ø ≤	J6	J7	J8	J9				
1-3	+1/-2	+2/-2	+3/-2	+8/-1				
3-6	+3/0	+4/-1	+7/0	+10/-1				
6-10	3/-1	+5/-1	+8/0	+12/-1				
10-18	+4/0	+7/0	+10/0	+15/-1				
18-30	+6/+1	+8/0	+15/+3	+18/-1				
< Ø ≤	K6	K7	K8					
1-3	-1/-4	-2/-6	-3/-8					
3-6	0/-3	+1/-4	+2/-5					
6-10	0/-4	+2/-4	+2/-6					
10-18	0/-4	+3/-4	+3/-7					
18-30	0/-5	+2/-6	+5/-7					
< Ø ≤	M6	M7	M8	M9	M10			
1-3	-3/-6	-4/-8		-6/-15	-8/-22			
3-6	-3/-6	-2/-7	-1/-8	-9/-20	-12/-29			
6-10	-5/-9	-3/-9	-3/-11	-12/-25	-15/-36			
10-18	-6/-10	-3/-10	-3/-13	-14/-30	-18/-43			
18-30	-6/-11	-4/-12	-1/-13	-16/-35	-21/-51			
< Ø ≤	N6	N7	N8	N9	N10	N11		
1-3	-5/-8	-6/-10	-7/-12	-8/-17	-10/-24	-13/-34		
3-6	-7/-10	-6/-11	-5/-12	-5/-16	-8/-25	-12/-39		
6-10	-9/-13	-7/-13	-7/-15	-6/-19	-9/-30	-14/-46		
10-18	-11/-15	-8/-15	-8/-18	-7/-23	-11/-36	-17/-56		
18-30	-13/-18	-11/-19	-8/-20	-8/-27	-13/-43	-20/-66		
< Ø ≤	P6	P7	P8	P9	P10			
1-3	-7/-10	-8/-12	-9/-14	-10/-19	-12/-26			
3-6	-11/-14	-10/-15	-15/-22	-17/-28	-20/-37			
6-10	-14/-18	-12/-18	-19/-27	-21/-34	-24/-45			
10-18	-17/-21	-14/-21	-23/-33	-25/-41	-29/-54			
18-30	-20/-25	-18/-26	-27/-39	-30/-49	-35/-65			
< Ø ≤	R6	R7	R8	R9	R10			
1-3	-11/-14	-12/-16	-13/-18	-14/-23	-16/-30			
3-6	-14/-17	-13/-18	-18/-25	-20/-31	-23/-40			
6-10	-18/-22	-16/-22	-23/-31	-25/-38	-28/-49			
10-18	-22/-26	-19/-26	-28/-38	-30/-46	-34/-59			
18-30	-26/-31	-24/-32	-33/-45	-36/-55	-41/-71			
< Ø ≤	S6	S7	S8	S9	S10			
1-3	-15/-18	-16/-20	-17/-22	-18/-27	-20/-34			
3-6	-18/-21	-17/-22	-22/-29	-24/-35	-27/-44			
6-10	-22/-26	-20/-26	-27/-35	-29/-42	-32/-53			
10-18	-27/-31	-24/-31	-33/-43	-35/-51	-39/-64			
18-30	-33/-38	-31/-39	-40/-52	-43/-62	-48/-78			
< Ø ≤	U6	U7	U8	U9	U10			
1-3	-19/-22	-20/-24	-20/-25	-22/-31	-24/-38			
3-6	-22/-25	-21/-26	-26/-33	-28/-39	-31/-48			
6-10	-27/-31	-25/-31	-32/-40	-34/-47	-37/-58			
10-18	-32/-36	-29/-36	-38/-48	-40/-56	-44/-69			
18-30	-39/-44	-37/-45	-46/-58	-49/-68	-54/-84			

# OTHER CUTTING TOOLS EUROMAC



## DRILLS

- 2 and 3 flutes
- NC spotting drills 90°, 100°, 120° and 140°
- Short or long series
- With or without coolant ducts

Special on request

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## ENDMILLS

- 2, 3 and 4 flutes
- Square endmills or ball nose endmills
- Short or long series

## MICRO ENDMILLS

- Square endmills or ball nose endmills
- Short or long series

Special upon request

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*" Coming together is a beginning ; keeping  
together is progress ; working together is sucess "*



## CONTACT

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