



METAALTECHNIEK
handelsonderneming b.v.



Carbide Burs

Product Catalogue



Carbide burs: Versatile – Aggressive – Long lasting

Grinding and Deburring tools for the professional

Quality assured

Many years of experience in all kinds of industries resulted in the development of an extensive range of carbide burs for almost all common applications.

All production processes are performed with best quality in mind. Inspections of all raw material, brazing process, CNC-grinding and finished products help guarantee the desired consistent performance for professionals all over the world.

All the individual burs are tested (Non-Destructive) on the braze against breaking. The standard raw materials for our burs is the best available mix of cobalts and carbides in the market. The right hardness to withstand wear of the geometry and the right strength and toughness to prevent chipping in adverse conditions.

Easily the best
performance
compared to the
price-level

With these burs
we were able to
increase productivity
by over 15%!"

Solutions for everyone

Different tooth designs are available for heavy stock removal in shipbuilding industry, smooth finishing for Mold and Die industry. Special Non-Ferrous design for foundries and a range of Fibre Glass Routers (FGR's) will be available as well.

Further, we offer a wide range in shank lengths and diameters. Contact us for your special needs! We have many special shapes available, or we develop a special design for your application

Why choose our burs?

Quality, availability and sound advice for an attractive price.





12 Shapes - Standard Tooth geometry

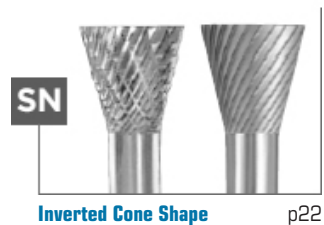
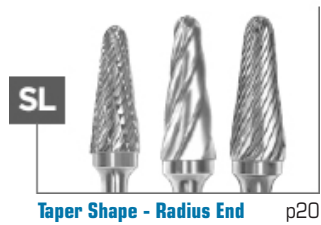
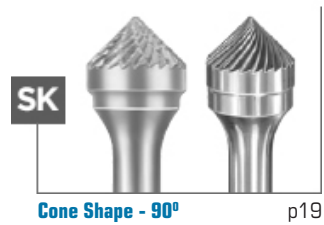
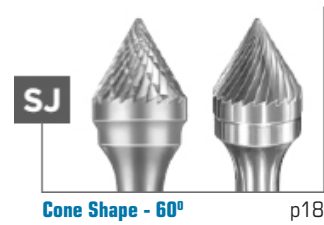
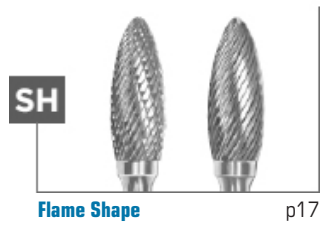
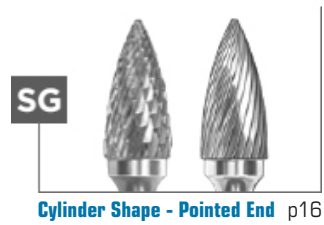
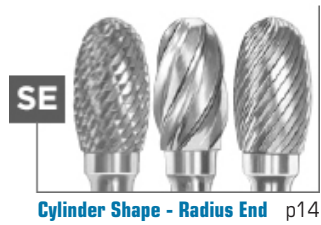
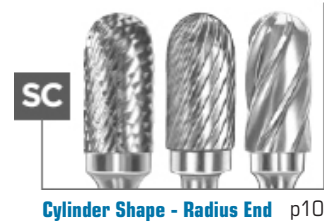
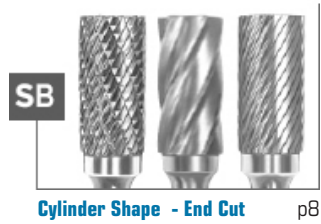
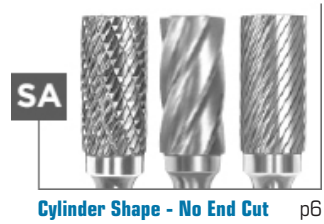


Table 1: Material vs geometry

Material Group	Cut 6	Cut 3	Cut 1
Aluminium			•
Brass, Bronze, Copper	•		
Carbon Fiber		•	
Cast Iron	•	•	
Plastics			•
Steel, 40-55 Rc	•	•	
Steel, 55-60 Rc	•	•	
Steel, Carbon	•	•	
Steel, Nickel Chrome	•	•	
Steel, Stainless	•	•	
Steel, Weldments	•	•	
Titanium	•	•	
Zinc			•

Available flute styles

6: Double Cut: Very efficient stock removal. Creates a small chip. Good finish, excellent operator control.



3: Single Cut: General purpose flute, produces long chips and a smooth finish



1: Non-ferrous: For non-ferrous materials. Aggressive stock removal



The way to use the speed guide below:

- 1 Select application and material group
- 2 Identify the appropriate cut style. (Table 1)
- 3 Identify recommended cutting style
- 4 Select bur diameter
- 5 Follow maximum rotational speeds

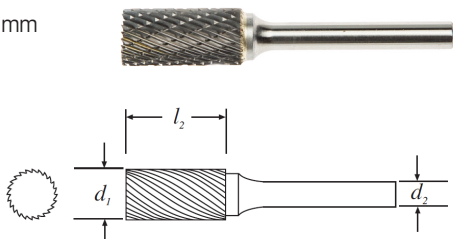
Table 2: Recommended Speed

1 Material Group	2 Cut Style									
	Cut 3/6		Cut 3/6		Cut 3/6		Cut 1		Cut 6	
Super Alloy Materials	Cut 3/6									
Hardened steel > 45HRc	Cut 3/6									
Non hardened steel < 45HRc	Cut 3/6									
High temperature-resistant Mat.	Cut 3/6									
Non ferrous metals	Cut 1									
Non ferrous light metals			Cut 1		Cut 6					
Plastics, hard rubber					Cut 1					
3 Recommended cutting speed										
METRIC (m/min)	420	480	540	600	660	720	780	840	900	
4 Bur Diameter Metric (mm)										
5 Maximum Rotational speed (RPM)										
< 3	45,000	53,000	60,000	66,000	73,000	79,000	86,000	92,500	100,000	
5	35,000	40,000	45,000	50,000	55,000	60,000	65,000	70,000	75,000	
6	26,000	30,000	34,000	37,500	41,500	45,000	49,000	52,500	55,000	
8	21,000	24,000	27,000	30,000	33,000	36,000	39,000	42,000	45,000	
10	17,500	20,000	22,500	25,000	27,500	30,000	32,500	35,000	37,500	
12	13,000	15,000	17,000	19,000	20,500	22,500	24,500	26,000	28,000	
15	10,500	12,000	13,500	15,000	16,500	18,000	19,500	21,000	22,500	
20	9,000	10,000	11,000	12,500	14,000	15,000	16,250	17,500	19,000	
25	6,500	7,500	8,500	9,500	10,500	11,000	12,000	13,000	14,000	

Burs - Cylinder Shape - No End Cut

8 mm shank optional for burs with a head diameter ≥ 12 mm

Order example XA05M DC 8mm shank



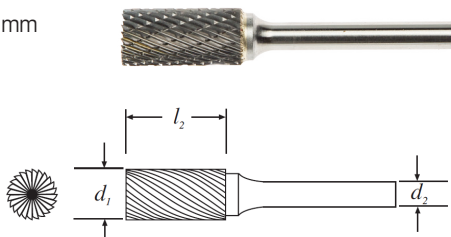
Tool No.	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut (6)	Single Cut (3)	Non Ferrous Cut (1)
XA41M	1,5	6	3	38	€ 6,15	€ 6,15	
XA42M	2,5	11	3	38	€ 6,15	€ 6,15	
XA43M	3	14	3	38	€ 6,15	€ 6,15	
XA11M	3	12	6	56	€ 8,50	€ 8,50	
XA12M	3	16	6	60	€ 8,50	€ 8,50	
XA52M	4	12	3	38	€ 8,50	€ 8,50	
XA13M	4	16	6	50	€ 8,50	€ 8,50	
XA53M	5	12	3	38	€ 8,50	€ 8,50	
XA14M	5	16	6	50	€ 8,50	€ 8,50	
XA51M	6	12	3	50	€ 8,50	€ 8,50	€ 11,90

Tool No.	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut (6)	Single Cut (3)	Non Ferrous Cut (1)
XA01M	6	16	6	50	€ 8,90	€ 8,90	€ 12,30
XA02M	8	19	6	63	€ 11,35	€ 11,35	€ 14,80
XA03M	10	19	6	63	€ 14,50	€ 14,50	€ 18,00
XA04M	11	25	6	70	€ 20,90	€ 20,90	€ 24,35
XA05M	12	25	6	70	€ 22,90	€ 22,90	€ 26,30
XA06M	16	25	6	70	€ 36,00	€ 36,00	€ 40,35
XA07M	19	25	6	70	€ 48,10	€ 48,10	€ 54,55
XA09M	25	25	6	70	€ 79,85	€ 79,85	€ 88,50
XA41ML2	1,5	6	3	50	€ 7,15	€ 7,15	
XA41ML3	1,5	6	3	75	€ 9,00	€ 9,00	
XA42ML2	2,5	11	3	50	€ 7,15	€ 7,15	
XA42ML3	2,5	11	3	75	€ 9,00	€ 9,00	
XA43ML2	3	14	3	50	€ 7,15	€ 7,15	
XA43ML3	3	14	3	75	€ 9,00	€ 9,00	
XA01ML6	6	12	6	162	€ 12,75	€ 12,75	€ 16,15
XA03ML6	10	19	6	169	€ 18,35	€ 18,35	€ 21,80
XA05ML6	12	25	6	175	€ 26,75	€ 26,75	€ 30,15

Burs - Cylinder Shape - End Cut

8 mm shank optional for burs with a head diameter ≥ 12 mm

Order example XB05M DC 8mm shank



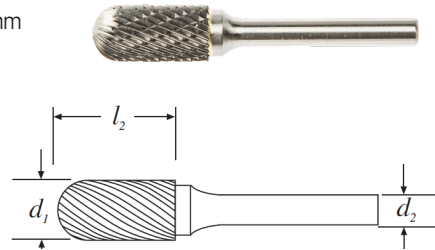
Tool No.	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut	Non Ferrous
XB41M	1,5	6	3	38	€ 6,15	€ 6,15	
XB42M	2,5	11	3	38	€ 6,15	€ 6,15	
XB43M	3	14	3	38	€ 6,15	€ 6,15	
XB11M	3	12	6	56	€ 8,50	€ 8,50	
XB12M	3	16	6	60	€ 8,50	€ 8,50	
XB13M	4	16	6	50	€ 8,50	€ 8,50	
XB14M	5	16	6	50	€ 8,50	€ 8,50	
XB51M	6	12	3	50	€ 8,50	€ 8,50	€ 11,90

Tool No.	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut	Non Ferrous
XB01M	6	16	6	50	€ 9,30	€ 9,30	€ 12,70
XB02M	8	19	6	63	€ 11,70	€ 11,70	€ 15,15
XB03M	10	19	6	63	€ 15,20	€ 15,20	€ 18,65
XB04M	11	25	6	70	€ 21,60	€ 21,60	€ 25,10
XB05M	12	25	6	70	€ 23,50	€ 23,50	€ 26,95
XB06M	16	25	6	70	€ 37,50	€ 37,50	€ 41,85
XB07M	19	25	6	70	€ 51,25	€ 51,25	€ 56,35
XB09M	25	25	6	70	€ 82,50	€ 82,50	€ 90,65
XB41ML2	1,5	6	3	50	€ 7,15	€ 7,15	
XB41ML3	1,5	6	3	75	€ 9,00	€ 9,00	
XB42ML2	2,5	11	3	50	€ 7,15	€ 7,15	
XB42ML3	2,5	11	3	75	€ 9,00	€ 9,00	
XB43ML2	3	14	3	50	€ 7,15	€ 7,15	
XB43ML3	3	14	3	75	€ 9,00	€ 9,00	
XB01ML6	6	16	6	166	€ 13,15	€ 13,15	€ 16,20

Burs - Cylinder Shape - Radius End

8 mm shank optional for burs with a head diameter ≥ 12 mm

Order example XC05M DC 8mm shank



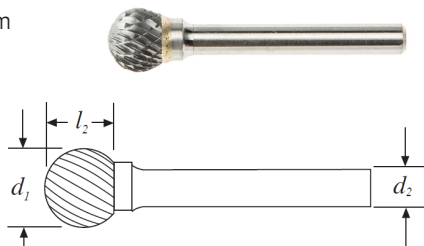
Tool No.	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut	Non Ferrous
XC41M	2,5	11	3	38	€ 6,90	€ 6,90	
XC42M	3	14	3	38	€ 6,90	€ 6,90	
XC11M	3	12	6	56	€ 8,50	€ 6,90	
XC12M	3	16	6	60	€ 8,50	€ 6,90	
XC52M	4	12	3	38	€ 8,50	€ 6,90	
XC13M	4	16	6	50	€ 8,50	€ 6,90	
XC53M	5	12	3	38	€ 8,50	€ 6,90	
XC14M	5	16	6	50	€ 8,50	€ 6,90	
XC51M	6	12	3	50	€ 8,50	€ 8,50	€ 11,90

Tool No.	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut	Non Ferrous
XC01M	6	16	6	50	€ 8,90	€ 8,90	€ 12,30
XC02M	8	19	6	63	€ 11,00	€ 11,00	€ 14,50
XC03M	10	19	6	63	€ 14,15	€ 14,15	€ 17,60
XC04M	11	25	6	70	€ 19,10	€ 19,10	€ 22,60
XC05M	12	25	6	70	€ 22,25	€ 22,25	€ 25,70
XC06M	16	25	6	70	€ 33,95	€ 33,95	€ 38,30
XC07M	19	25	6	70	€ 45,25	€ 45,25	€ 51,80
XC09M	25	25	6	70	€ 67,90	€ 67,90	€ 76,50
XC42ML2	3	14	3	50	€ 7,90	€ 7,90	
XC42ML3	3	11	3	75	€ 9,90	€ 9,90	
XC01ML6	6	12	6	162	€ 13,20	€ 13,20	€ 16,20
XC02ML6	8	19	6	169	€ 15,35	€ 15,35	€ 18,30
XC03ML6	10	19	6	169	€ 18,00	€ 18,00	€ 21,50
XC05ML6	12	25	6	175	€ 26,10	€ 26,10	€ 29,50

Burs - Ball Shape

8 mm shank optional for burs with a head diameter ≥ 12 mm

Order example XD05M DC 8mm shank



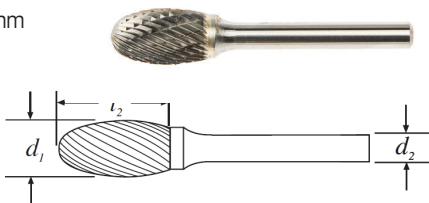
Tool No.	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	single Cut	Non Ferrous
XD41M	2,5	2,3	3	38	€ 6,15	€ 6,15	
XD42M	3	2,8	3	38	€ 6,15	€ 6,15	
XD11M	3	2,8	6	50	€ 8,50	€ 8,50	
XD52M	4	3,4	3	38	€ 8,50	€ 8,50	
XD53M	5	5	3	38	€ 8,50	€ 8,50	
XD14M	5	4	6	50	€ 8,50	€ 8,50	
XD51M	6	5	3	44	€ 8,50	€ 8,50	€ 11,90
XD01M	6	5	6	50	€ 8,50	€ 8,50	€ 11,70
XD02M	8	6	6	50	€ 10,40	€ 10,40	€ 13,80
XD03M	10	8	6	52	€ 12,10	€ 12,10	€ 15,60
XD04M	11	10	6	54	€ 13,40	€ 13,40	€ 16,90
XD05M	12	11	6	55	€ 14,30	€ 14,30	€ 17,70
XD06M	16	14	6	58	€ 20,40	€ 20,40	€ 23,00
XD07M	19	16	6	62	€ 31,90	€ 31,90	€ 38,40
XD09M	25	21	6	72	€ 61,60	€ 61,60	€ 70,20

Tool No.	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	single Cut	Non Ferrous
XD42ML2	3	2,8	3	38	€ 7,15	€ 7,15	
XD42ML3	3	2,8	3	75	€ 9,15	€ 9,15	
XD01ML6	6	5	6	155	€ 12,10	€ 12,10	€ 15,50
XD03ML6	10	8	6	158	€ 16,00	€ 16,00	€ 19,40
XD05ML6	12	11	6	161	€ 18,10	€ 18,10	€ 21,60

Burs - Cylinder Shape - Radius End

8 mm shank optional for burs with a head diameter ≥ 12 mm

Order example XE05M DC 8mm shank

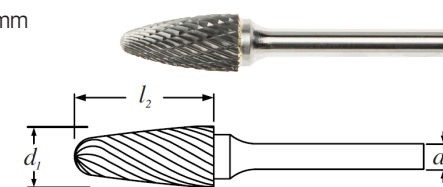


Tool No.	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut	Non Ferrous
XE41M	3	6	3	38	€ 6,15	€ 6,15	
XE53M	5	7	3	38	€ 8,50	€ 8,50	
XE51M	6	10	3	47	€ 8,50	€ 8,50	€ 11,90
XE01M	6	10	6	50	€ 8,70	€ 8,70	€ 12,10
XE03M	10	16	6	60	€ 12,80	€ 12,80	€ 16,20
XE05M	12	22	6	66	€ 20,10	€ 20,10	€ 23,50
XE06M	16	25	6	70	€ 30,50	€ 30,50	€ 34,80
XE07M	19	25	6	70	€ 39,60	€ 39,60	€ 46,10
XE41ML2	3	6	3	50	€ 8,00	€ 8,00	
XE41ML3	3	6	3	75	€ 9,80	€ 9,80	
XE01ML6	6	10	6	160	€ 12,50	€ 12,50	€ 16,00
XE03ML6	10	16	6	166	€ 17,10	€ 17,10	€ 20,10
XE05ML6	12	22	6	172	€ 24,40	€ 24,40	€ 27,40

Burs - Tree Shape

8 mm shank optional for burs with a head diameter ≥ 12 mm

Order example XF05M DC 8mm shank

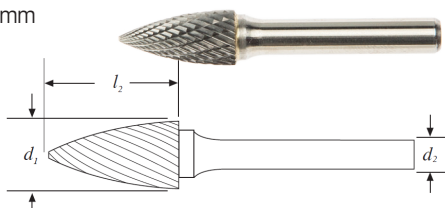


Tool No.	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut	Non Ferrous
XF41M	3	6	3	38	€ 6,90	€ 6,90	
XF42M	3	13	3	38	€ 6,90	€ 6,90	
XF11M	3	13	6	56	€ 8,50	€ 8,50	
XF53M	5	13	3	38	€ 8,50	€ 8,50	
XF51M	6	13	3	56	€ 8,50	€ 8,50	€ 11,90
XF01M	6	16	6	50	€ 8,90	€ 8,90	€ 12,30
XF03M	10	19	6	63	€ 13,00	€ 13,00	€ 16,40
XF04M	11	25	6	70	€ 15,60	€ 15,60	€ 19,10
XF13M	12	19	6	63	€ 16,30	€ 16,30	€ 19,80
XF05M	12	25	6	70	€ 19,50	€ 19,50	€ 22,90
XF06M	16	25	6	70	€ 29,00	€ 29,00	€ 33,40
XF07M	19	25	6	70	€ 37,50	€ 37,50	€ 44,00
XF14M	19	32	6	76	€ 48,10	€ 48,10	€ 54,60
XF15M	19	38	6	82	€ 53,10	€ 53,10	€ 59,60
XF42ML2	3	13	3	50	€ 7,90	€ 7,90	
XF42ML3	3	13	3	75	€ 9,90	€ 9,90	
XF01ML6	6	12	6	163	€ 13,20	€ 13,20	€ 16,20
XF03ML6	10	19	6	169	€ 16,80	€ 16,80	€ 20,30
XF05ML6	12	25	6	175	€ 23,30	€ 23,30	€ 26,70

Burs - Cylinder Shape - Pointed End

8 mm shank optional for burs with a head diameter ≥ 12 mm

Order example XG05M DC 8mm shank

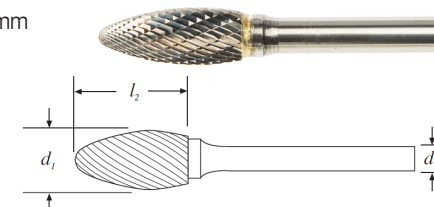


Tool No.	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut 3
XG41M	3	6	3	38	€ 6,15	€ 6,15
XG43M	3	10	3	38	€ 6,15	€ 6,15
XG44M	3	13	3	38	€ 6,15	€ 6,15
XG53M	5	13	3	38	€ 8,50	€ 8,50
XG51M	6	13	3	50	€ 8,50	€ 8,50
XG01M	6	16	6	50	€ 8,50	€ 8,50
XG02M	8	19	6	63	€ 10,30	€ 10,30
XG03M	10	19	6	63	€ 12,40	€ 12,40
XG13M	13	19	6	63	€ 18,40	€ 18,40
XG05M	13	25	6	69	€ 19,90	€ 19,90
XG06M	16	25	6	70	€ 26,90	€ 26,90
XG07M	19	25	6	70	€ 34,70	€ 34,70
XG15M	19	38	6	82	€ 48,80	€ 48,80
XG44ML2	3	13	3	50	€ 7,15	€ 7,15
XG41ML3	3	13	3	75	€ 9,15	€ 9,15
XG01ML6	6	12	6	163	€ 12,40	€ 12,40
XG03ML6	10	19	6	169	€ 16,30	€ 16,30
XG05ML6	12	25	6	175	€ 23,70	€ 23,70

Burs - Flame Shape

8 mm shank optional for burs with a head diameter ≥ 12 mm

Order example XH05M DC 8mm shank

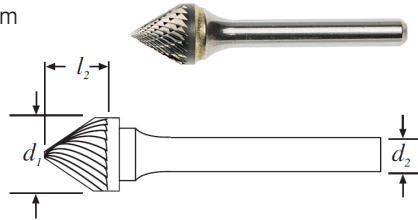


Tool No.	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut 3
XH41M	3	6	3	38	€ 6,90	€ 6,90
XH53M	5	10	3	38	€ 8,50	€ 8,50
XH02M	8	19	6	63	€ 11,30	€ 11,30
XH05M	12	32	6	76	€ 22,40	€ 22,40
XH06M	16	36	6	80	€ 38,60	€ 38,60
XH07M	19	41	6	85	€ 55,00	€ 55,00
XH41ML2	3	6	3	50	€ 7,90	€ 7,90
XH41ML3	3	6	3	75	€ 9,90	€ 9,90
XH02ML6	8	19	6	169	€ 15,20	€ 15,20
XH05ML6	12	25	6	175	€ 26,20	€ 26,20

Burs - Cone Shape - 60°

8 mm shank optional for burs with a head diameter ≥ 12 mm

Order example XJ05M DC 8mm shank

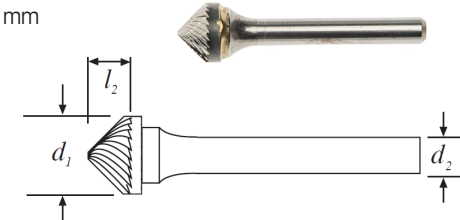


Tool No.	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut
XJ42M	3	2,5	3	38	€ 6,15	€ 6,15
XJ01M	6	4	6	50	€ 8,20	€ 8,20
XJ03M	10	8	6	55	€ 10,60	€ 10,60
XJ05M	12	11	6	58	€ 13,50	€ 13,50
XJ06M	16	14	6	61	€ 21,20	€ 21,20
XJ07M	19	17	6	65	€ 28,60	€ 28,60
XJ09M	25	24	6	68	€ 48,10	€ 48,10

Burs - Cone Shape - 90°

8 mm shank optional for burs with a head diameter ≥ 12 mm

Order example XK05M DC 8mm shank

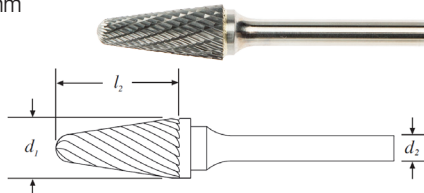


Tool No.	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	single Cut
XK42M	3	1,5	3	38	€ 6,15	€ 6,15
XK01M	6	3	6	50	€ 8,20	€ 8,20
XK03M	10	5	6	52	€ 10,70	€ 10,70
XK05M	12	6	6	54	€ 13,50	€ 13,50
XK06M	16	8	6	57	€ 19,90	€ 19,90
XK07M	19	10	6	58	€ 26,20	€ 26,20
XK09M	25	12	6	60	€ 44,60	€ 44,60

Burs - Taper Shape - Radius End

8 mm shank optional for burs with a head diameter ≥ 12 mm

Order example XL05M DC 8mm shank

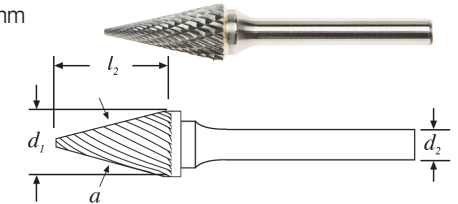


Tool No.	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut 3	Non Ferrous
XL41M	3	10	3	38	€ 6,90	€ 6,90	
XL42M	3	11	3	38	€ 6,90	€ 6,90	
XL53M	5	12	3	38	€ 8,50	€ 8,50	
XL01M	6	16	6	50	€ 8,60	€ 8,60	€ 12,00
XL02M	8	22	6	69	€ 11,00	€ 11,00	€ 14,40
XL03M	10	27	6	74	€ 13,50	€ 13,50	€ 19,50
XL04M	12	28	6	76	€ 19,50	€ 19,50	€ 22,90
XL05M	16	30	6	77	€ 35,40	€ 35,40	€ 39,65
XL07M	19	38	6	85	€ 50,90	€ 50,90	€ 57,40
XL42ML2	3	12	3	50	€ 7,90	€ 7,90	
XL42ML3	3	12	3	75	€ 9,90	€ 9,90	
XL01ML6	6	16	6	166	€ 12,40	€ 12,40	€ 15,80
XL03ML6	10	27	6	177	€ 17,30	€ 17,30	€ 20,80
XL04ML6	12	28	6	178	€ 23,30	€ 23,30	€ 26,80

Burs - Cone Shape

8 mm shank optional for burs with a head diameter ≥ 12 mm

Order example XM05M DC 8mm shank

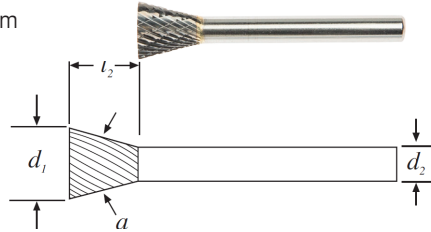


Tool No.	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut 3
XM41M	3	9	3	38	€ 6,15	€ 6,15
XM42M	3	11	3	38	€ 6,15	€ 6,15
XM43M	3	16	3	38	€ 6,15	€ 6,15
XM53M	5	12	3	38	€ 8,50	€ 8,50
XM51M	6,3	12	3	53	€ 8,50	€ 8,50
XM01M	6	12	6	50	€ 8,50	€ 8,50
XM02M	6	19	6	50	€ 8,90	€ 8,90
XM03M	6	25	6	50	€ 9,90	€ 9,90
XM04M	10	16	6	63	€ 11,40	€ 11,40
XM05M	12	22	6	70	€ 16,30	€ 16,30
XM06M	16	25	6	73	€ 25,20	€ 25,20
XM42ML2	3	11	3	50	€ 7,15	€ 7,15
XM42ML3	3	11	3	75	€ 9,15	€ 9,15

Burs - Inverted Cone Shape

8 mm shank optional for burs with a head diameter ≥ 12 mm

Order example XN05M DC 8mm shank



Also available on request
High Performance Fiberglass Cutting routers.

Tool No.	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut 3
XN41M	2,5	3	3	38	€ 6,15	€ 6,15
XN42M	3	4	3	38	€ 6,15	€ 6,15
XN53M	5	6	3	38	€ 8,50	€ 8,50
XN51M	6	6	3	44	€ 8,50	€ 8,50
XN01M	6	8	6	50	€ 8,90	€ 8,90
XN02M	10	10	6	53	€ 10,60	€ 10,60
XN04M	12	12	6	63	€ 16,30	€ 16,30
XN05M	12	22	6	57	€ 16,30	€ 16,30
XN06M	16	19	6	63	€ 25,20	€ 25,20
XN07M	19	16	6	60	€ 27,60	€ 27,60



Available sizes: 1,6 mm up to 12 mm and
with several styles of end cut and drill points



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