

DATRON CROSS CUTTER

Unique. Revolutionary. Innovative.

DATRON has been proving for many years that balanced single flute end mills are the ideal roughing solution. The DATRON Cross Cutter combines all advantages of a single end flute mill with a double flute end mill. The DATRON Cross Cutter not only achieves smallest chips but also a maximum chip volume over time. This versatile tool makes machining faster while improving quality, resulting in a generally more efficient production.

Your technical advantages:

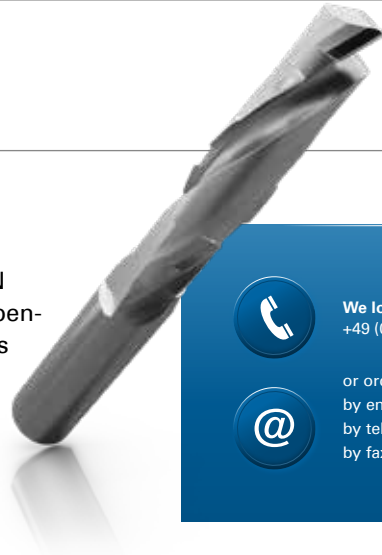
- Highly specialised roughing tool
- Smallest chips
- High-speed milling of aluminium
- Power grinding

Your production advantages:

- Excellent chip volume over time (>100% more than a classical balanced single flute end mill)
- Maximum tool life due to trochoidal milling
- Saving time and money
- No chip accumulations during helical milling

DATRON

Cross Cutter



A unique concept

With the rotary cutter, which is divided and offset 180°, the DATRON Cross Cutter proves very good chip removal characteristics during penetrating into the material. The division of the rotary cutter represents a unique combination of the advantages of a single flute end mill and a double flute end mill.

This results in an even load of the Cross Cutter's tool length, which evenly distributes the wear and extends its tool life to a maximum possible value.



We look forward to assisting you:
+49 (0) 61 51 - 14 19 - 480



or order directly
by email: tools@datron.de
by telephone: +49 (0) 61 51 - 14 19 - 111
by fax: +49 (0) 61 51 - 14 19 - 39

D1 (mm) Cutter Diameter	Z Number of Flutes	Vc (m/min) Cutting Speed	n (1/min) RPM	fz (mm) Feed per Flute	Vf (mm/min) Feed	ap (mm) Cutting Depth	ae (mm) Cutting Width	Q (cm³/min) Chip Volume
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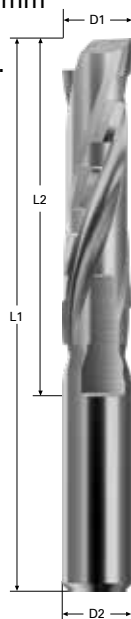


Art. No.	D1 (mm)	Z	Vc (m/min)	n (1/min)	fz (mm)	Vf (mm/min)	ap (mm)	ae (mm)	Q (cm³/min)
00688006E	6	1	679	36000	0,23	8280	20,0	0,5	82,8
00688006L	6	1	641	34000	0,17	5780	25,0	0,4	57,8
00688008E	8	1	855	34000	0,23	7820	25,0	0,7	136,9
00688008L	8	1	804	32000	0,19	6080	30,0	0,5	91,2
00688010E	10	1	1005	32000	0,25	8000	30,0	0,7	168,0
00688010L	10	1	942	30000	0,21	6300	40,0	0,4	100,8
00688012E	12	1	1131	30000	0,27	8100	40,0	0,8	259,2
00688012L	12	1	1056	28000	0,21	5880	50,0	0,5	147,0

Art. No.	D1 (mm)	Z	Vc (m/min)	n (1/min)	fz (mm)	Vf (mm/min)	ap (mm)	ae (mm)	Q (cm³/min)
00688006E	6	1	679	36000	0,14	5040	0,7	6,0	21,2
00688006L	6	1	641	34000	0,12	4080	0,5	6,0	12,2
00688008E	8	1	855	34000	0,14	4760	0,8	8,0	30,5
00688008L	8	1	804	32000	0,12	3840	0,6	8,0	18,4
00688010E	10	1	1005	32000	0,17	5440	1,0	10,0	54,4
00688010L	10	1	942	30000	0,14	4200	0,8	10,0	33,6
00688012E	12	1	1131	30000	0,18	5400	1,2	12,0	77,8
00688012L	12	1	1056	28000	0,15	4200	0,8	12,0	40,3

Our Cross Cutters at a glance:

The DATRON Cross Cutter is available in diameters of 6.0/8.0/10.0/12.0 mm and can be used with our 3kW, 4kW and 8kW DATRON spindles.



6 mm shank				
Art. no.	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)
00688006E	6.0	6.0	55.0	21.0
00688006L	6.0	6.0	65.0	26.0
8 mm shank				
Art. no.	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)
00688008E	8.0	8.0	65.0	26.0
00688008L	8.0	8.0	70.0	32.0
10 mm shank				
Art. no.	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)
00688010E	10.0	10.0	75.0	32.0
00688010L	10.0	10.0	80.0	42.0
12 mm shank				
Art. no.	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)
00688012E	12.0	12.0	80.0	42.0
00688012L	12.0	12.0	95.0	52.0

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