

DATRON ACRYLICS AND PLEXIGLAS® END MILLS

Milling Tools with Polished Flutes Superb Glossy Surface Quality at an Absolute Low Cost

Until now, there was no alternative to expensive natural or industrial diamond-coated polishing end mills for glossy machining of transparent plastics such as acrylics or Plexiglas®.

DATRON now offers cost effective alternatives to diamondtipped polishing end mills. With the new series of polished milling tools, DATRON helps you to achieve highly transparent milling results at a remarkably low cost.

A completely new cutting geometry, besides the additional polished flute, has been developed to ensure that the design of all cutting angles is much more acute but also significantly sharper compared to conventional tools, giving you a financial advantage!

Depending on the application, the need for post-processing is eliminated completely or reduced to an absolute minimum.

Crystal-Clear Benefits -**DATRON's Acrylic Range**

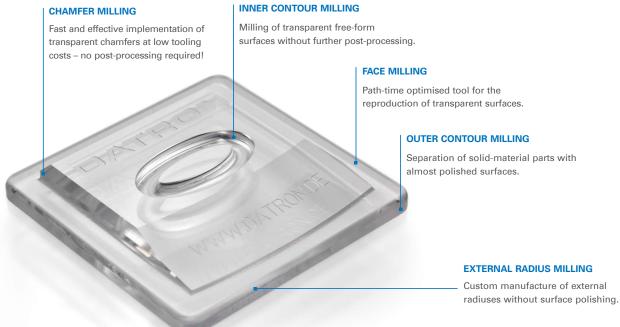
In addition to our proven single-flute end mills with polished flutes, DATRON now offers a wide range of form end mills. These polished milling tools allow achieving highly transparent milling results for the most diverse applications. Just try them out!

We offer the following variants:

- Single flute end mills, polished
- Ball nose end mills, single flute, polished
- Countersink tools with polished flute
- External radius end mills, polished
- Double flute end mills, stepped, with polished flute



Acrylics and Plexiglas® End Mills



Ball Nose End Mill, Single-Flute, Polished

Spezially designed for 3D machining of transparent plastics.

The single-flute design allows much higher feed rates when roughing than multi-flute versions.

6 mm Shank							
Art. No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)
0068191E	1.0	6.0	0.9	50.0	4.0	12.0	0.5
0068191S	1.5	6.0	1.4	50.0	5.0	12.0	0.75
0068192E	2.0	6.0	1.8	50.0	6.0	20.0	1.0
0068192S	2.5	6.0	2.3	50.0	7.0	20.0	1.25
0068193E	3.0	6.0	2.8	50.0	8.0	21.0	1.5
0068194E	4.0	6.0	3.8	50.0	10.0	21.0	2.0
0068195E	5.0	6.0	4.8	50.0	12.0	22.0	2.5
0068196E	6.0	6.0	5.8	50.0	14.0	22.0	3.0



External Radius End Mill, Polished

For crystal-clear external radiuses and edge rounding.

The flute length L2 corresponds exactly to the value of the radius.

6 mm Shank							
Art. No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	
00685710	4.0	6.0	6.0	50.0	1.0	1.0	
00685720	4.0	6.0	8.0	50.0	2.0	2.0	
00685730	4.0	6.0	10.0	50.0	3.0	3.0	
00685715	5.0	6.0	8.0	50.0	1.5	1.5	
00685725	5.0	6.0	10.0	50.0	2.5	2.5	



Single Flute End Mill, Polished

High cutting performance with transparent contour surfaces without chip accumulation. These tools deliver perfect results both for finest smoothing as for rough machining!

Art. No.	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	
0078310E	1.0	6.0	50.0	4.0	
0078320E	2.0	6.0	50.0	7.0	
0078320L	2.0	6.0	50.0	11.0	
0078330E	3.0	6.0	50.0	8.0	
0078330L	3.0	6.0	50.0	12.0	
0078334E	4.0	6.0	50.0	10.0	
0078334L	4.0	6.0	60.0	22.0	
0078335E	5.0	6.0	50.0	12.0	
0078335L	5.0	6.0	60.0	22.0	
0078360E	6.0	6.0	50.0	14.0	
0078360L	6.0	6.0	60.0	22.0	
0078338E	8.0	8.0	60.0	22.0	
0078338L	8.0	8.0	70.0	32.0	
0078339E	10.0	10.0	75.0	32.0	



Double-Flute End Mill, Stepped, with Edge Radius Polished Flute

Developed especially for you, for added "transparency" in milling. The advanced face geometry of these double-flute end mills, in conjunction with their polishing cut allows transparent results when face-milling or pocket-milling.

6 mm Shank					
Art. No.	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	R (mm)
0078440	10.0	6.0	50.0	6.0	1.0
0078442	12.0	6.0	50.0	6.0	1.0





Countersinks for Acrylics, with Polished Flute

For countersinks and chamfers with highest surface quality. Large chip chambers and a 15° spiralisation guarantee optimum chip evacuation.

6 mm Shank							
Art. No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	α (°)	Number of Flutes
00685806	0.1	6.0	6.0	50.0	3.0	90	6
00685808	0.1	6.0	8.0	50.0	4.0	90	6
00685810	4.0	6.0	10.0	50.0	3.0	90	3
00685812	4.0	6.0	12.0	50.0	4.0	90	3
00685814	4.0	6.0	14.0	50.0	5.0	90	3
00685816	4.0	6.0	16.0	50.0	6.0	90	3





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