



DATRON **Acrylic and Plexiglass 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 plexiglass.

DATRON now offers cost effective alternatives to diamond-tipped 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 quality and cost advantage!

Depending on the application, the need for post-processing is eliminated completely or reduced to an absolute minimum. You save time and significantly reduce your cost per piece!

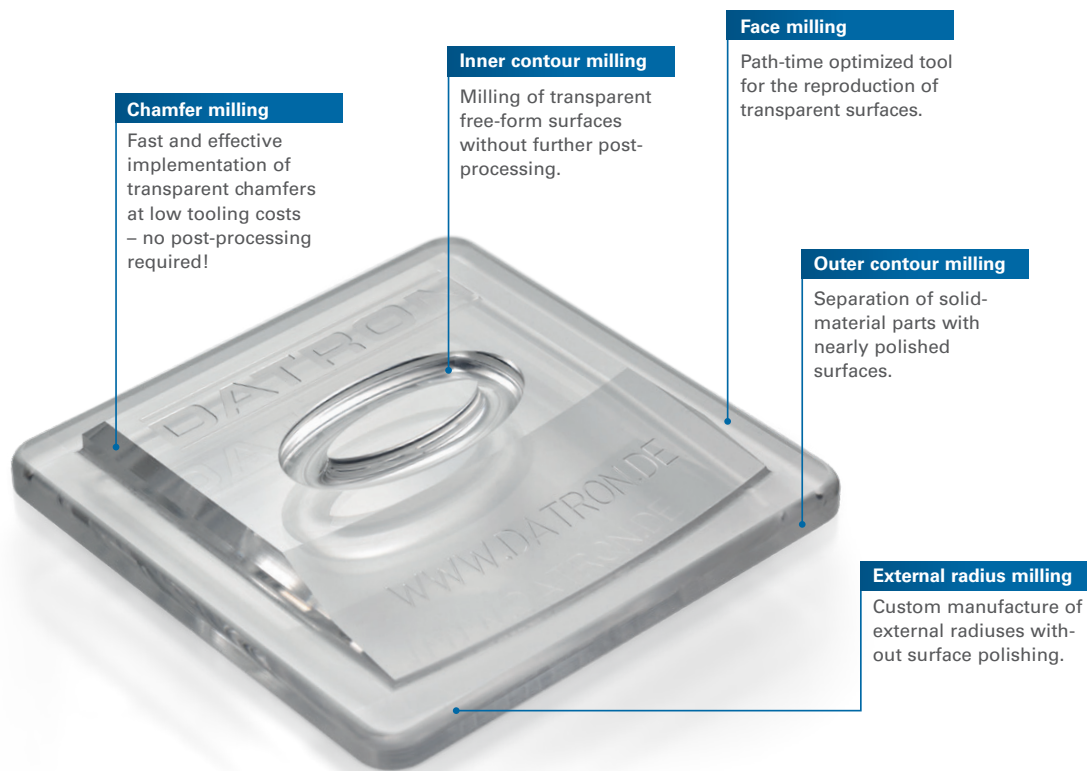
Crystal-clear benefits – DATRON's news acrylic range

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 are offering the following variants:

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

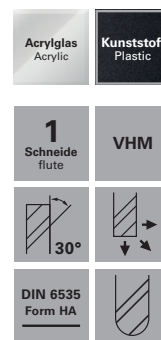
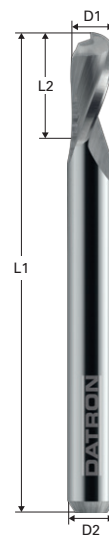
DATRON Acrylic and Plexiglass End Mills



Ball nose end mill, single-flute, polished

Spezial designed for 3D machining of transparent plastics. The single-flute design allows much higher feed rates when roughing than multi-flute versions.

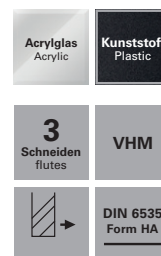
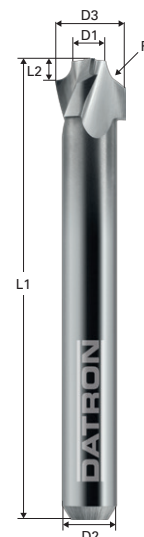
| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) |
|----------|------------|------------|------------|------------|------------|------------|
| 0068191E | 1 | 6 | 0.95 | 50 | 4 | 12 |
| 0068191S | 1.5 | 6 | 1.45 | 50 | 5 | 12 |
| 0068192E | 2 | 6 | 1.95 | 50 | 6 | 20 |
| 0068192S | 2.5 | 6 | 2.45 | 50 | 7 | 20 |
| 0068193E | 3 | 6 | 2.95 | 50 | 8 | 21 |
| 0068194E | 4 | 6 | 3.95 | 50 | 10 | 21 |
| 0068195E | 5 | 6 | 4.95 | 50 | 12 | 22 |
| 0068196E | 6 | 6 | 5.95 | 50 | 14 | 22 |



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.

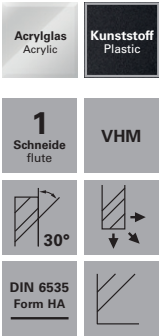
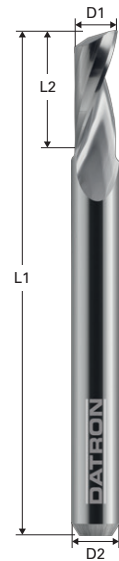
| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | R (mm) | S (mm) |
|----------|------------|------------|------------|------------|------------|-----------|-----------|
| 00685710 | 4 | 6 | 6 | 50 | 1 | 1 | 3 |
| 00685715 | 5 | 6 | 8 | 50 | 1.50 | 1.50 | 3 |
| 00685720 | 4 | 6 | 8 | 50 | 2 | 2 | 3 |
| 00685725 | 5 | 6 | 10 | 50 | 2.50 | 2.50 | 3 |
| 00685730 | 4 | 6 | 10 | 50 | 3 | 3 | 3 |



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!

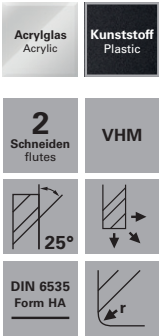
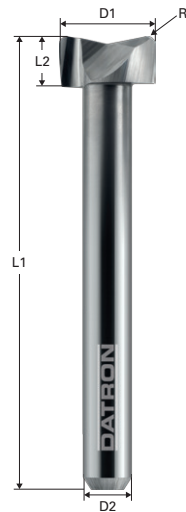
| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) |
|----------|------------|------------|------------|------------|
| 0078310E | 1.0 | 6.0 | 50.0 | 4.0 |
| 0078320E | 2.0 | 6.0 | 50.0 | 7.0 |
| 0078320L | 2.0 | 6.0 | 50.0 | 11.0 |
| 0078330E | 3.0 | 6.0 | 50.0 | 8.0 |
| 0078330L | 3.0 | 6.0 | 50.0 | 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.

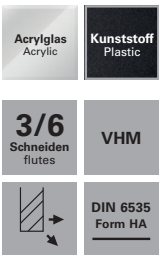
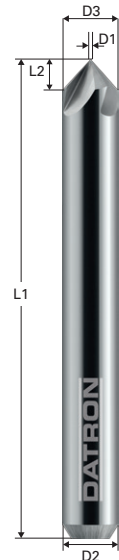
| Art. No. | D1 (mm) | D2 (mm) | L1 (mm) | L2 (mm) | R (mm) |
|----------|------------|------------|------------|------------|-----------|
| 0078440 | 10 | 6 | 50 | 6 | 1 |
| 0078442 | 12 | 6 | 50 | 6 | 1 |
| 0078444 | 14 | 8 | 50 | 6 | 1 |
| 0078446 | 16 | 8 | 50 | 6 | 1 |

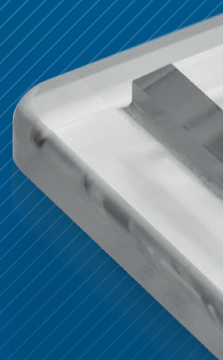


Countersinks for acrylics, with polished flute

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

| Art. No. | D1 (mm) | D2 (mm) | D3 (mm) | L1 (mm) | L2 (mm) | L3 (mm) |
|----------|------------|------------|------------|------------|------------|------------|
| 00685806 | 0.10 | 6 | 6 | 50 | 3 | 6 |
| 00685808 | 0.10 | 6 | 8 | 50 | 4 | 6 |
| 00685810 | 4 | 6 | 10 | 50 | 3 | 3 |
| 00685812 | 4 | 6 | 12 | 50 | 4 | 3 |
| 00685814 | 4 | 6 | 14 | 50 | 5 | 3 |
| 00685816 | 4 | 6 | 16 | 50 | 6 | 3 |





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By Fax: 603.672.8067



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