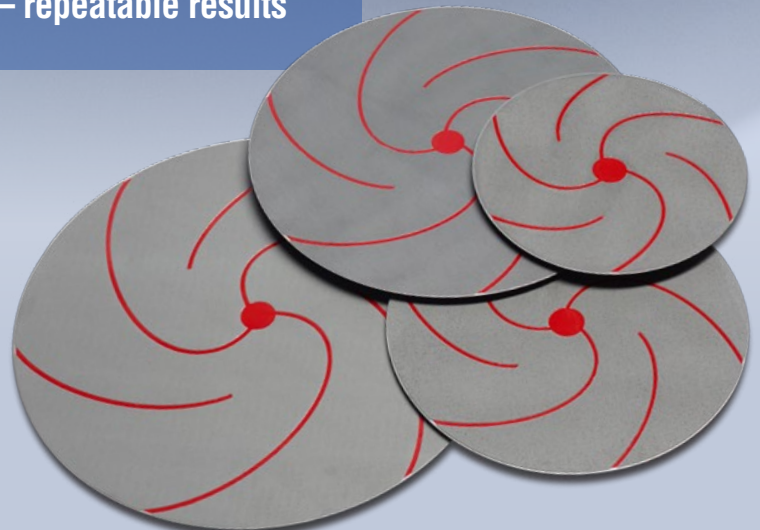


Perfect edge retention and absolutely plane surfaces in less time

- Longer lifetime than SiC Paper – fewer replacements and less waste
- Constant high material removal – short preparation times
- Perfect planeness and edge retention – repeatable results



Fast preparation – less waste – repeatable results

Plane grinding of aluminium alloys usually takes place using SiC Paper; however, achieving perfect edge retention, maximum planeness and consistent results is not always easy. SiC Paper wears quickly – meaning frequent paper changes and a longer working process.

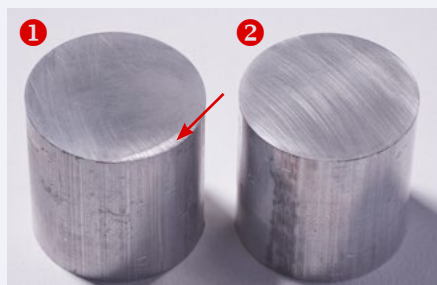
MD-Molto 220 disc is ideal for plane grinding of aluminium alloys and can be used instead of SiC Paper or Foil #220. The following preparation steps are the same, except from the fine grinding step on MD-Largo, which can be shortened as the specimens already are completely flat after plane grinding.

The diamond abrasive also allows grinding of aluminium alloys in combination with very hard materials like ceramics. Perfectly plane specimens are achieved despite the large differences in hardness. Made with resin bonded diamonds, MD-Molto has a lifetime of up to 100 pieces of SiC Paper guaranteeing a high removal rate and continuously short grinding times.

MD-Molto is suited for the preparation of aluminium alloys in the hardness range from 50 - 250 HV. Some softer types of aluminium alloys can also be prepared but may require longer fine grinding times.

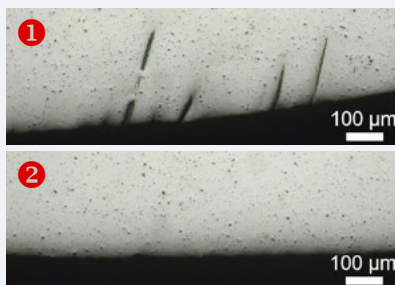
Planeness of MD-Molto 220 versus SiC Paper #220

Results after fine grinding on MD-Largo with DiaPro Allegro/Largo



- 1** The surface of the specimen ground using SiC Paper still shows clear signs of edge rounding, even after fine grinding.
- 2** The surface of the specimen ground using MD-Molto is completely flat.

Results after final polishing



- 1** The edge of the specimen ground on SiC Paper displays remaining scratches because of the edge rounding.
- 2** The edge of the specimen ground on MD-Molto is perfectly plane and scratch free.

Step	PG	FG	DP	OP
Surface	MD-Molto 220	MD-Largo	MD-Mol	MD-Chem
Lubricant / Suspension	Water	DiaPro Allegro/ Largo 9 µm	DiaPro Mol R 3 µm	OP-S
rpm	300	150	150	150
Force N / Specimen	25	30	25	15
Time	Until plane	2-4 min.	3 min.	1 min.

SPECIFICATIONS

Resin bonded diamond grinding disc. Surface finish comparable to SiC Paper/Foil #220. For magnetic fixation on MD-Disc.

200 mm (8") dia.	40800187
250 mm (10") dia.	40800188
300 mm (12") dia.	40800189
350 mm (14") dia.	40800190

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