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Perfect surfaces through:

## New dry grinding media from OTEC

The new TZ range of grinding media from OTEC is a multi-purpose type of grinding media. It can be used in both disc finishing machines and drag finishing machines. The TZ media consists of a silicon carbide grinding medium with a high-quality elastic binding agent. The granules are cylindrical in shape with a diameter of 4 mm and a length of 5 mm. The media is designed to be self-sharpening. Because of the increased amount of dust given off, it is advisable to install air extraction at the machine. The amount of dust created can also be reduced by adding oil.



E.g.: TZM 4/5

Advantages of the new grinding media:

- No fragmentation during processing
- Very good smoothing properties, which reduces the orange peel effect
- No waste water reprocessing necessary
- Ideal for edge rounding of cutting and forming tools in drag finishing machines
- Edge rounding of up to 200  $\mu\text{m}$  possible
- Self-sharpening – no media maintenance required
- High stock removal rates with low media hardness – very little chipping at the tool edge

Application:

- Defined edge rounding of tools, especially suitable for cutting tools used with a cooling lubricant, since it prevents the cooling holes from becoming blocked.
- Grinding and smoothing of high-quality workpieces such as watch cases



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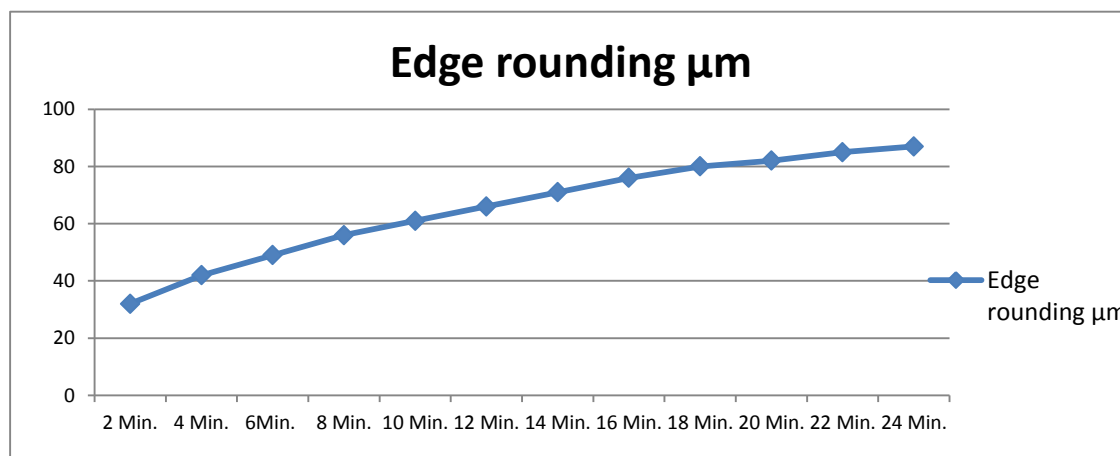
Perfect surfaces through:

The following qualities are available:

- TZM 4/5 - (red) for fine grinding (e.g. watch cases), edge rounding up to 30 µm
- TZMS 4/5 – (grey) for grinding, edge rounding from 30 to 100 µm
- TZS 4/5 – (dark grey) for grinding, edge rounding from 30 to 200 µm

Example: Rounding a 10 mm carbide drill with TZS 4/5

	2 min.	4 min.	6 min.	8 min.	10 min.	12 min.	14 min.	16 min.	18 min.	20 min.	22 min.	24 min.
Edge rounding µm	32	42	49	56	61	66	71	76	80	82	85	87
Roughness µm	60	70	60	70	60	60	60	60	70	70	70	60



Preview: Visit us at EMO 2011 in Hanover, 19 – 24 September 2011, Hall 6, Stand KO2

You can look forward to seeing our latest development, the SF machine <http://www.otec.de/en/filme/sf-streamfinish-machine.html>

You will also find us at other trade fairs: <http://www.otec.de/en/news/trade-fairs.html>