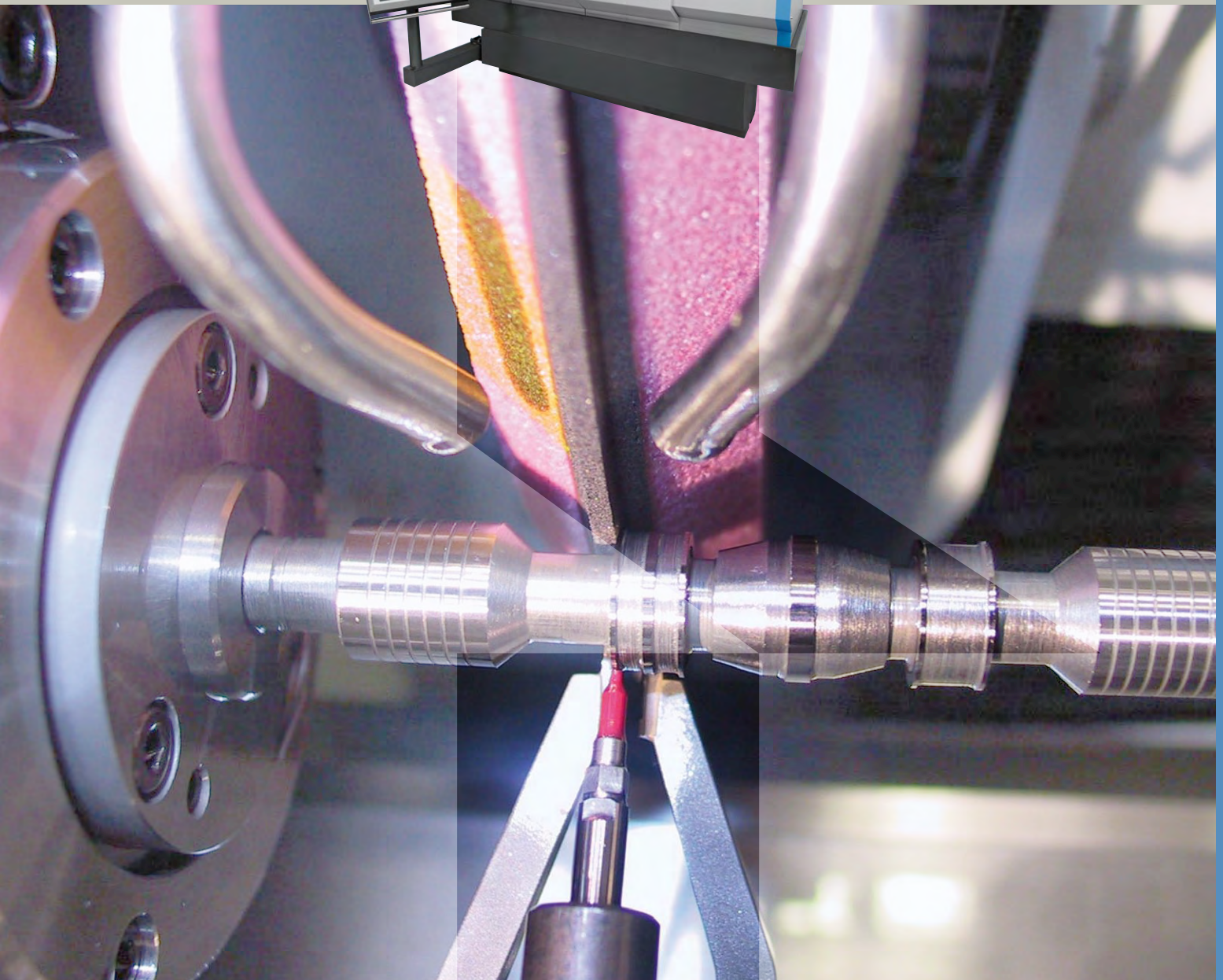


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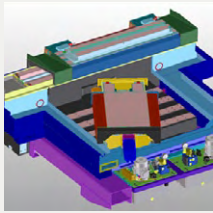
The modular production  
cylindrical grinding machine



TURNING MILLING GRINDING WORKHOLDING  
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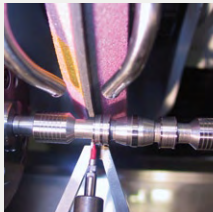
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EXPECT MORE™

# The modular production cylindrical grinding machine



## Axes configuration

- Straight or angular
- Range +6° to -30° configurable



## Burr-free grinding

- Several patented processes
- Production of sharper, burr-free edges



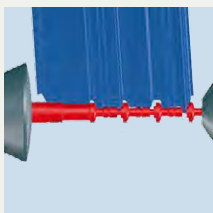
## Prismatic grinding system

- Very efficient production grinding process
- Shortest part changing time, rapid retooling
- Fully integrated handling with modular peripherals and great autonomy



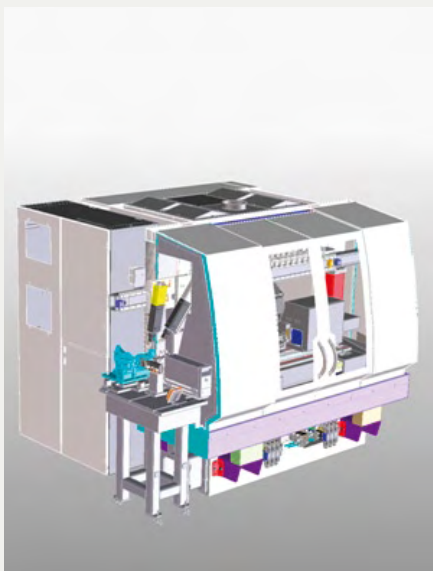
## Match grinding

- Highly accurate automatic process with several extension possibilities
- Automatic cylindrical correction within 0.1 μm range



## Grinding from hardened bar stock

- High precision parts can be finish-ground directly from hardened bar stock



## Grinding from hardened bar stock

- Optimal process to produce non-machined parts with high precision centers and minimum overmeasure for subsequent operations

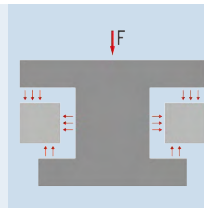
## Automation

- Modular concept for peripherals and handling systems
- Wide application range from small integrated handling to complex systems with autonomous cells
- Unrestricted use, water or oil
- Customer-specific solutions possible



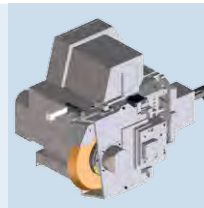
## Hydrostatics with holding device

- X and Z guideways
- No stick slip
- Good damping
- High dynamics



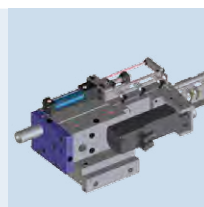
## Wheelhead

- Hydrodynamic spindle bearings
- Roller bearing variant for applications up to 120 m/sec.
- Grinding wheels 400 – 600 mm



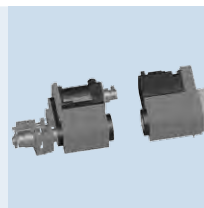
## Tailstock

- In manual or automatic versions
- Version for automatic taper correction



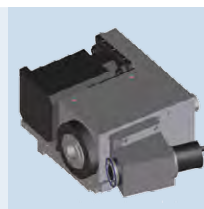
## Workhead

- MT5 and MT6 versions in modular construction
- Synchronously running workheads left and right for special grinding applications



## Dressing device

- Formed dressing roll unit installed behind workhead, tailstock or on the table
- CNC controlled profiling roll unit fitted behind the wheelhead



## Control systems

- Siemens 840 D
- Bosch Rexroth MTX

The software for the control system was developed by grinding specialists and thus permits optimum programming of grinding and dressing processes. A particular highlight is the integration of part-specific features such as measurement technology, handling and additional processing units.



# Technical Data TSCHUDIN T 35

<b>Dimensions</b>		
Distance between centers	mm	400
Grinding length	mm	400
Centre height	mm	125 / 175
Max. workpiece diameter	mm	249
<b>Workpiece weight</b>		
between centres	kg	150
<b>Base / Table slide</b>		
Travel z axis	mm	600
Rapid traverse	m/min	15
Resolution	µm	0.1
<b>Upper table</b>		
Swivelling range	degr	+/- 6 °
<b>Wheel slide</b>		
Travel x axis	mm	350
Rapid traverse	m/min	7.5
Resolution	µm	0.1
<b>Wheelhead OD</b>		
Wheel (appl. spez.)	mm	400 - 500 x 80 x 203.2
Diameter	mm	up to 600
Width	mm	up to 120
opt	mm	500 x 120 x 203.2
Peripheral roller bearing	m/s	0 - 120
Peripheral hydrodynamic	m/s	45 / 60
Spindle speed	min-1	V const ( opt )
Motor output	kW	10 (opt. up to 20)
<b>Workhead</b>		
Spindle speed	min-1	5 - 1,500 (opt. 3,000)
Motor output	kW	2.1
Spindelnose taper		MT5 / Ø 70 mm // MT6 / Ø 90 mm
Spindelnose bore	mm	34
Spindle torque	Nm	20
<b>Tailstock</b>		
Sleeve retraction	mm	80
internal taper		MT3
<b>Control</b>		
		Bosch / Siemens

All specifications and designs are subject to alterations without notice



## HTT Hauser Tripet Tschudin Ltd.

Längfeldweg 107  
2500 Biel-Bienne 8 / Switzerland  
Phone +41 (0) 32 344 11 52  
Fax +41 (0) 32 341 13 93  
www.htt.ch  
info@htt.ch

## L. Kellenberger & Co. AG

Heiligkreuzstrasse 28  
9009 St.Gallen / Switzerland  
Phone +41 (0) 71 242 91 11  
Fax +41 (0) 71 242 92 22  
www.kellenberger.net  
info@kellenberger.net