

Technical data
Vision Ultimate TOWER

VISION TOWER *Ultimate*

	Tower 4	Tower 6	Tower 8
Machining parameters			
Working diameter:	max. 12 mm	max. 12 mm	max. 12 mm
Bore length:	max. 60 mm	max. 60 mm	max. 60 mm
Part weight:	max. 200 gr	max. 200 gr	200 gr
Blind end holes	yes	yes	yes
Materials	all	all	all
Numbers of Stations			
Honing stations	max. 1	max. 2	max. 3
Measuring stations	max. 1	max. 2	max. 3
Brushing stations	max. 1	max. 1	max. 2
Load/unload station	max. 1	max. 1	max. 2
Honing spindle			
Speed rpm	12000 min ⁻¹	12000 min ⁻¹	12000 min ⁻¹
Run out	< 3 μ	< 3 μ	< 3 μ
Receiving Diameter	10 mm/20 mm	10 mm/20 mm	10 mm/20 mm
Drive	servo motor	servo motor	servo motor
Drive power	12 kW	12 kW	12 kW
True feed coolant	yes	yes	yes
High speed stroke			
Stroke speed	40 doublestrokes/s	40 doublestrokes/s	40 doublestrokes/s
Stroke length	90 mm	90 mm	90 mm
Drive normal	90 mm	90 mm	90 mm
Drive system	linear motor	linear motor	linear motor

All technical specifications, data and dimensions are given with reservation.

- **Highly dynamic**
- **highly productive**
- **optimum all-round operating comfort**
- **modular spindle and slide system**
- **highly flexible configuration**
- **variable number of spindles**
- **extreme-compact**

Intelligence in Production:
 High-Speed-Honing machine
 Honing Solutions powered by Degen



VISION TOWER *Ultimate*

The CLEVER-generation
VisionUltimate
High-Speed-Honing tower



HONING SOLUTIONS
 powered by DEGEN



QR code leads you directly to our contact on the Internet



Degen Maschinenbau GmbH
 Litzelbergstr. 12
 72355 Schömburg
 Germany
 Phone +49 (0)7427 94910
 Fax +49 (0)7427 9491-11
 info@degengmbh.com
 www.degengmbh.com

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Made in Germany

VISION TOWER Ultimate

The new and clever TOWER series for small and light workpieces
3 modular build up high-speed honing towers

For classic processing

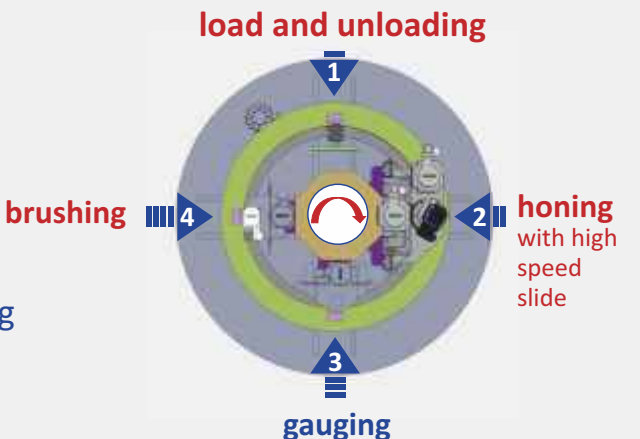


TOWER 4

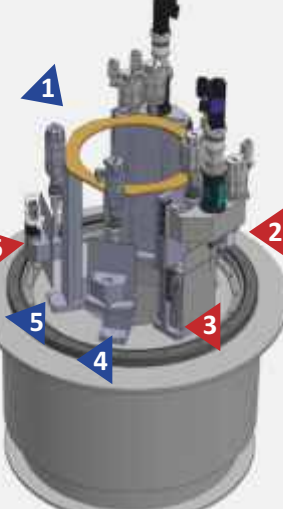
For the classic or fully automatic Machining

4 stations

1. load and unloading
2. honing
3. measure
4. brushing



For combined processing



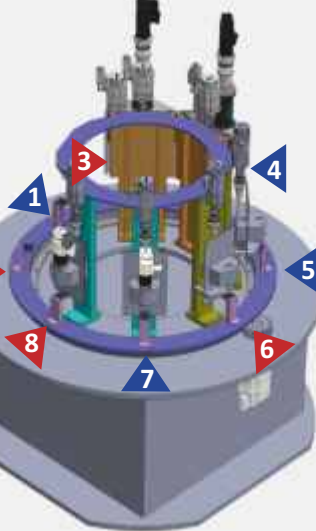
TOWER 6

Up to 6 stations

1. load and unloading
2. honing I/ craughting
3. gaugen I
4. honing II/ finsih honing
5. gauging II
6. brushing




Processing 2 workpieces at the same time



TOWER 8

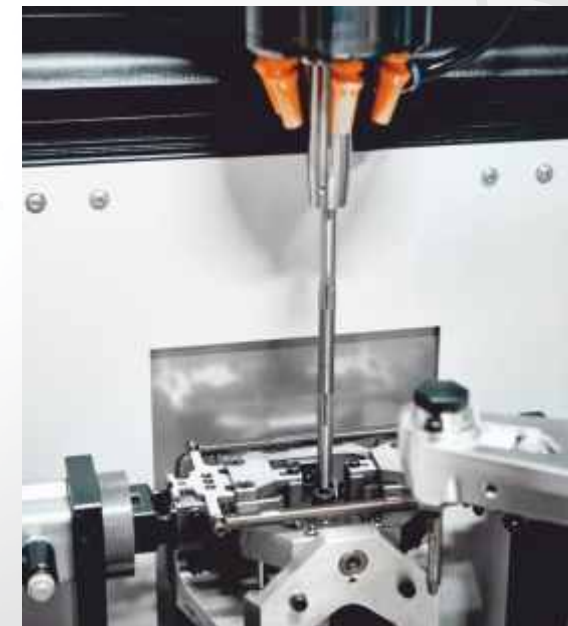
Up to 8 stations

- 1.+2. load + unloading
- 3.+4. honing/double stroke
- 5.+6. gauging/double stroke
- 7.+8. brushing/double stroke



Controll

- Siemens S7-1500 newest generation
- Siemens mobile-panel
- Touch-screen
- Self-explanatory
- Very easy to lern and program
- 360° degree moveable



Honing and honing tools

Proven honing tools and standardized interfaces are adapted to the tower systems.

standardized tool interface on a Schunk "Tendo" hypo chuck system

run out of the clamped honing tool on the honing spindle: max 3 μm (0,003)



HSMLS - Steele honing tool with honing sticks rounded in blind hole design



HSMLSo - Sleeve honing tool for steyed bores with honing sticks mounted