

PreMill

VL 5 ax series

Powered by MMD





Controllers:

- Siemens 828 D SL (standard)
- Siemens 840 D SL
 - Heidenhain TNC 640

Standard accessories

- Siemens 828 D SL
- Motor spindle 15000 U/min
- Spindle oil cooler (active)
- Air conditioner at switch cabinet
- Auto Power Off (APO)
- Rigid Tapping
- Ethernet/USB
- One-column design
- Userfriendly full housing and guide track coverings
- Linear guides (rollers)
- Balancing Z axis*
- Coolant supply: Ring flushing at spindle and sidewise adjustable coolant nozzles air
- IKZ prepared
- Chip conveyor (scraper) with chip tray
- Chip flushing
- Cleaning guns water/air
- Electr. handwheel
- Signal lamp 3 colors LED
- Working space light LED (Planonlight)
- Central lubrication LHL (grease)
- CE
- Manuals CD

Optional accessories

- Band filter system
- Oil skimmer
- Oil fog lubrication
- Extraction
- IKZ 30 / 70 Bar
- Air through spindle
- Direct position sensor Heidenhain
- Temperature compensation
- Tool measuring
- 3D workpiece measuring
- etc.

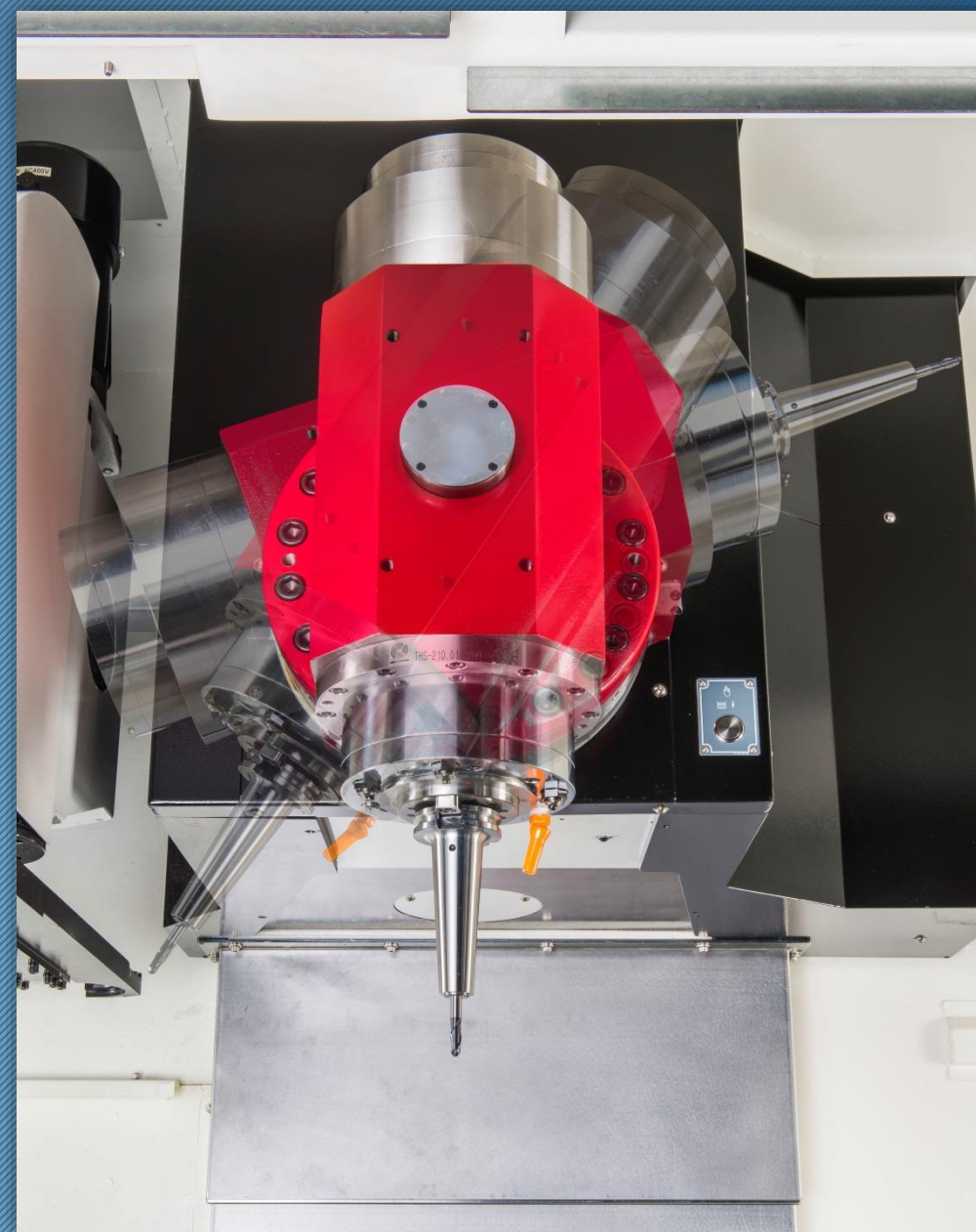
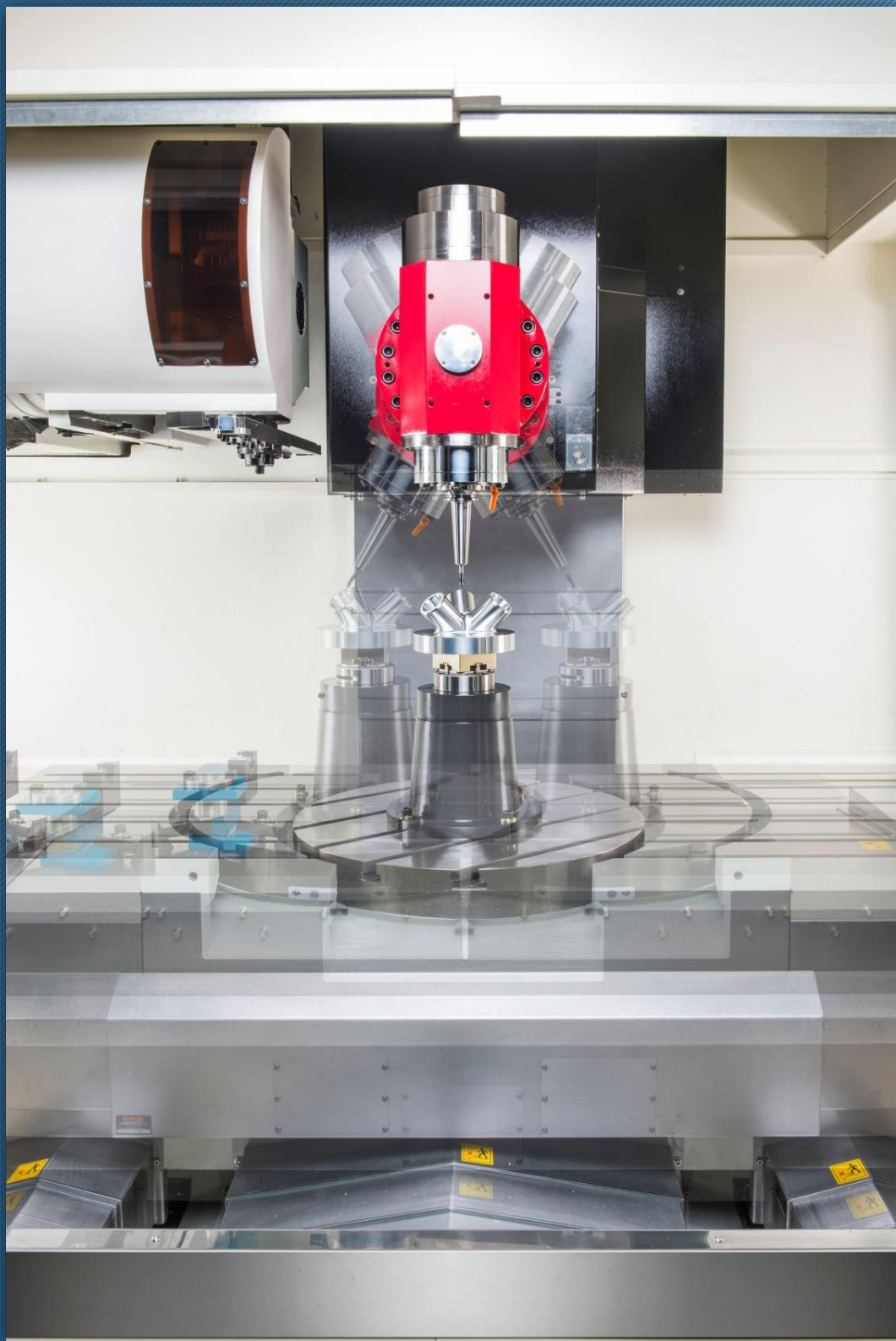
Accuracy

- Positioning $\pm 0.005 \text{ mm}$
- Repeatability $\pm 0.003 \text{ mm}$

- All machines are made according to VDI/DGQ3441
- Laser measuring
- Renishaw
- Vibration check milling spindle
- ISO 9001



- All machines can be equipped with direct positioning sensor make Heidenhain.

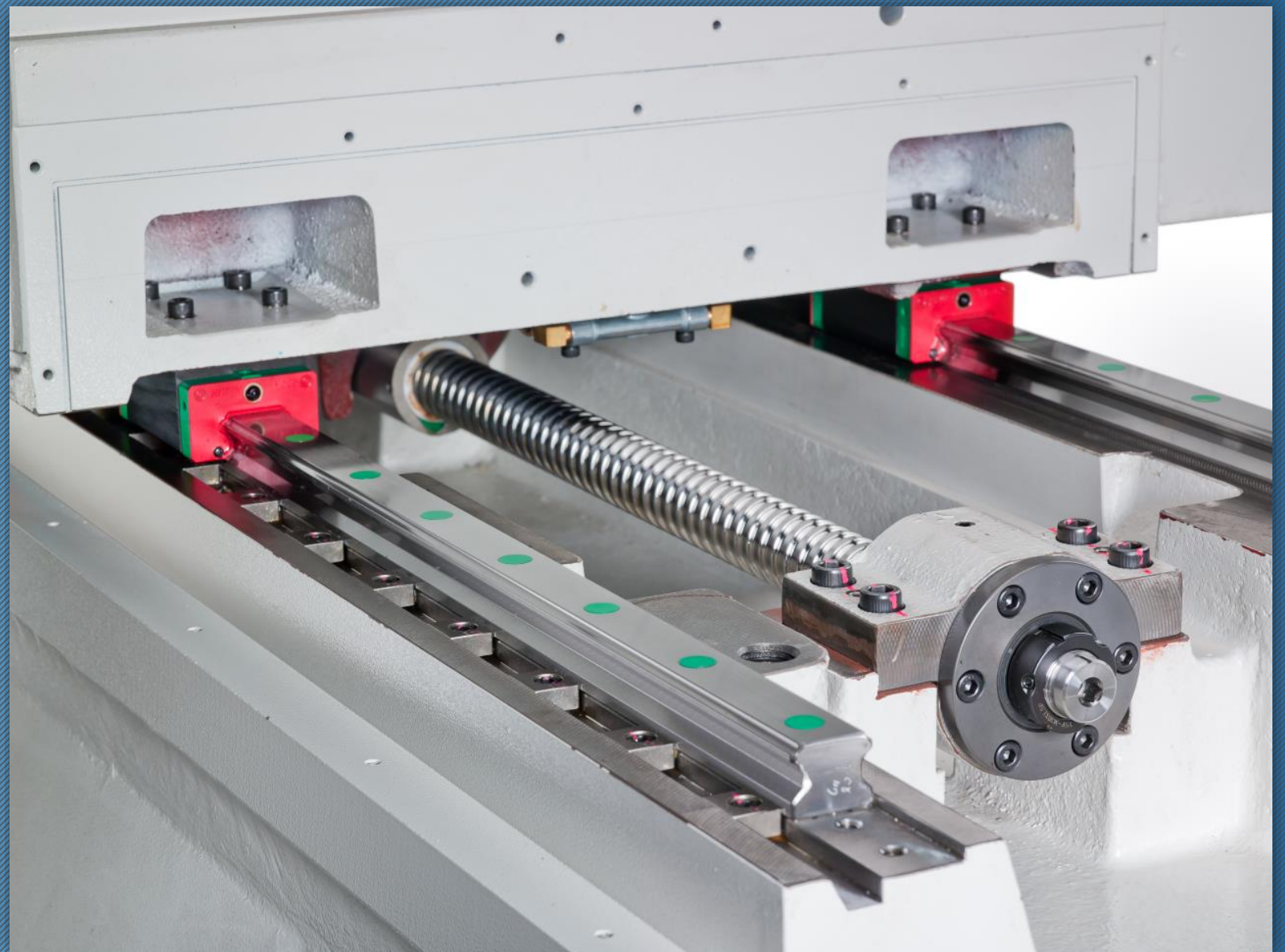


Milling head
 $\pm 30/110^\circ$

Milling table



Linear guides and ball screws: HIWIN or PMI



Roller circulation

Controlling examples

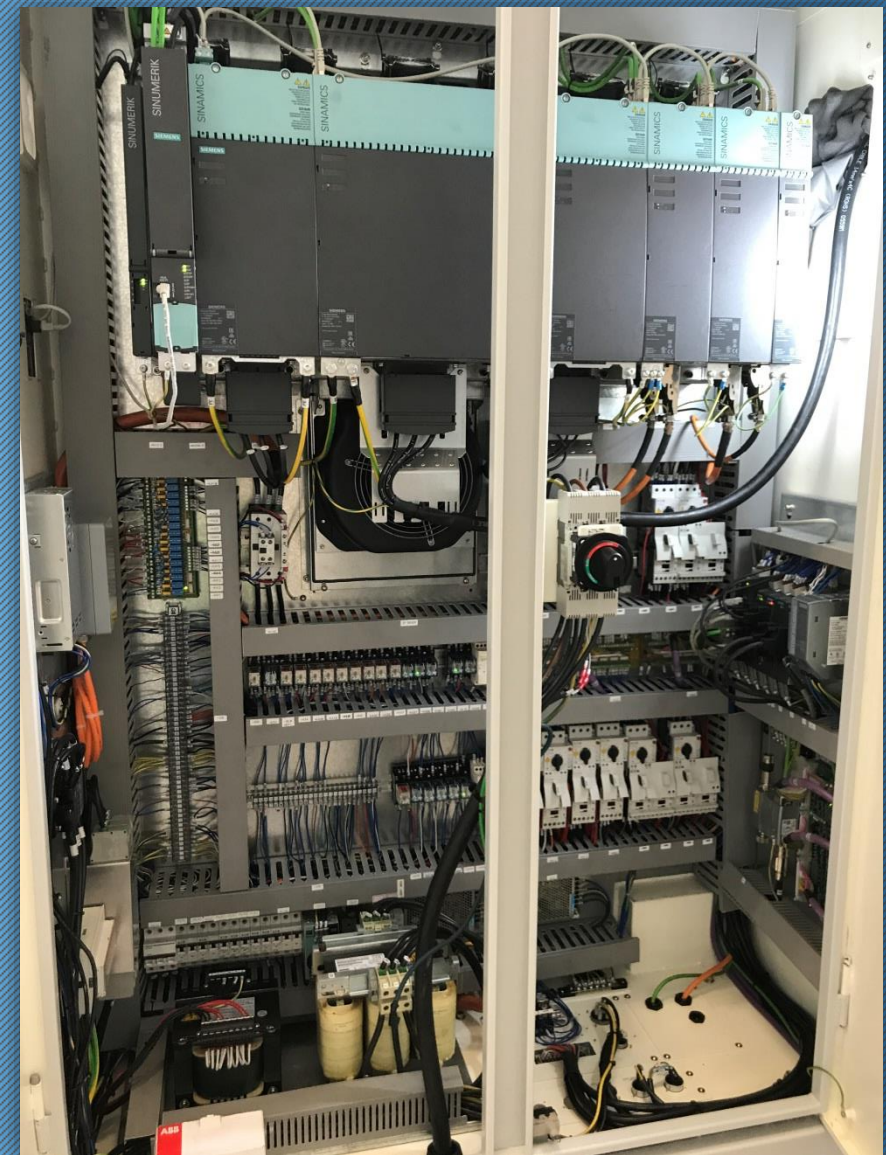
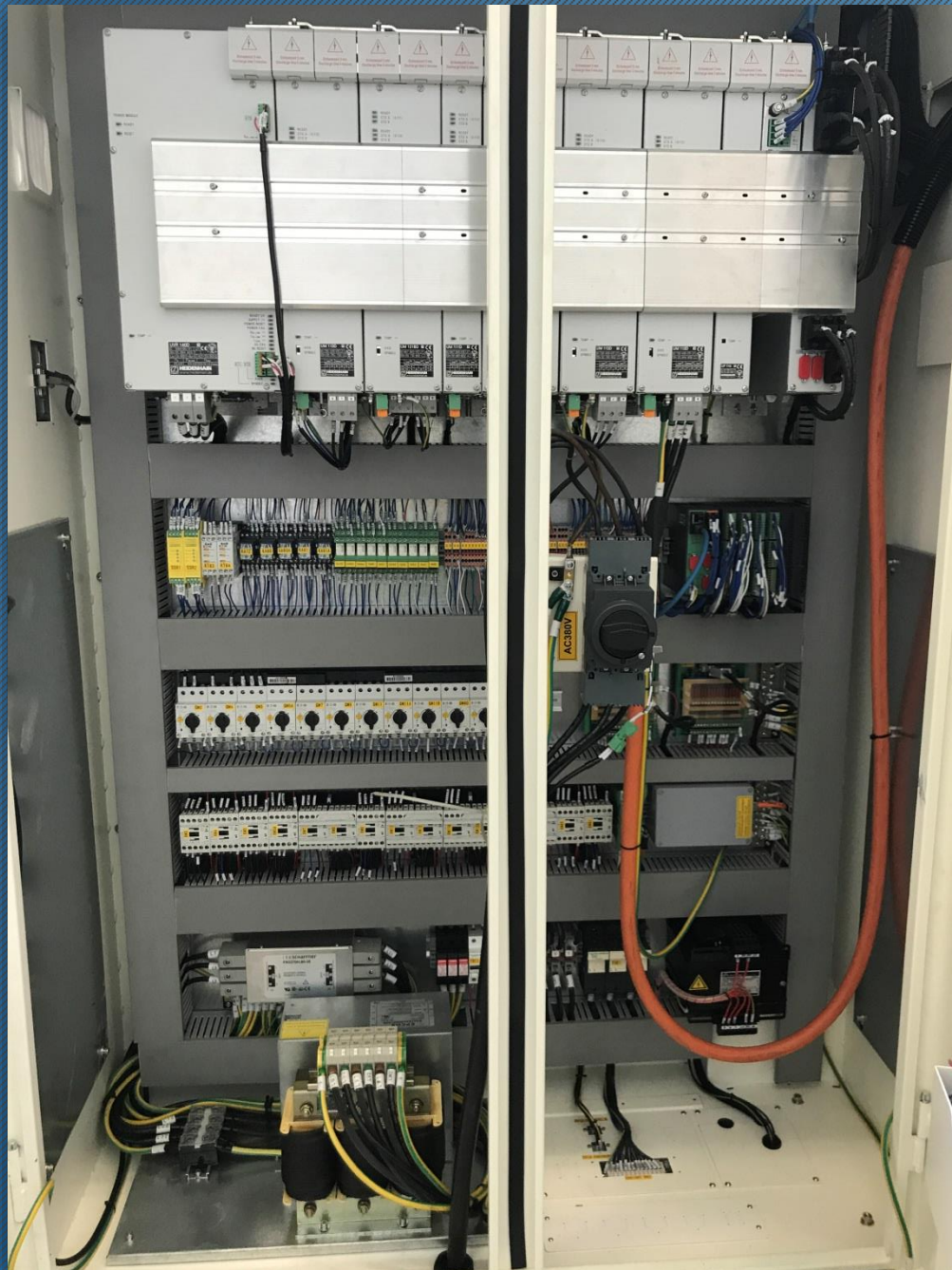


Heidenhain
TNC 640



Siemens 840 D touch

Switch cabinet



Maintenance unit



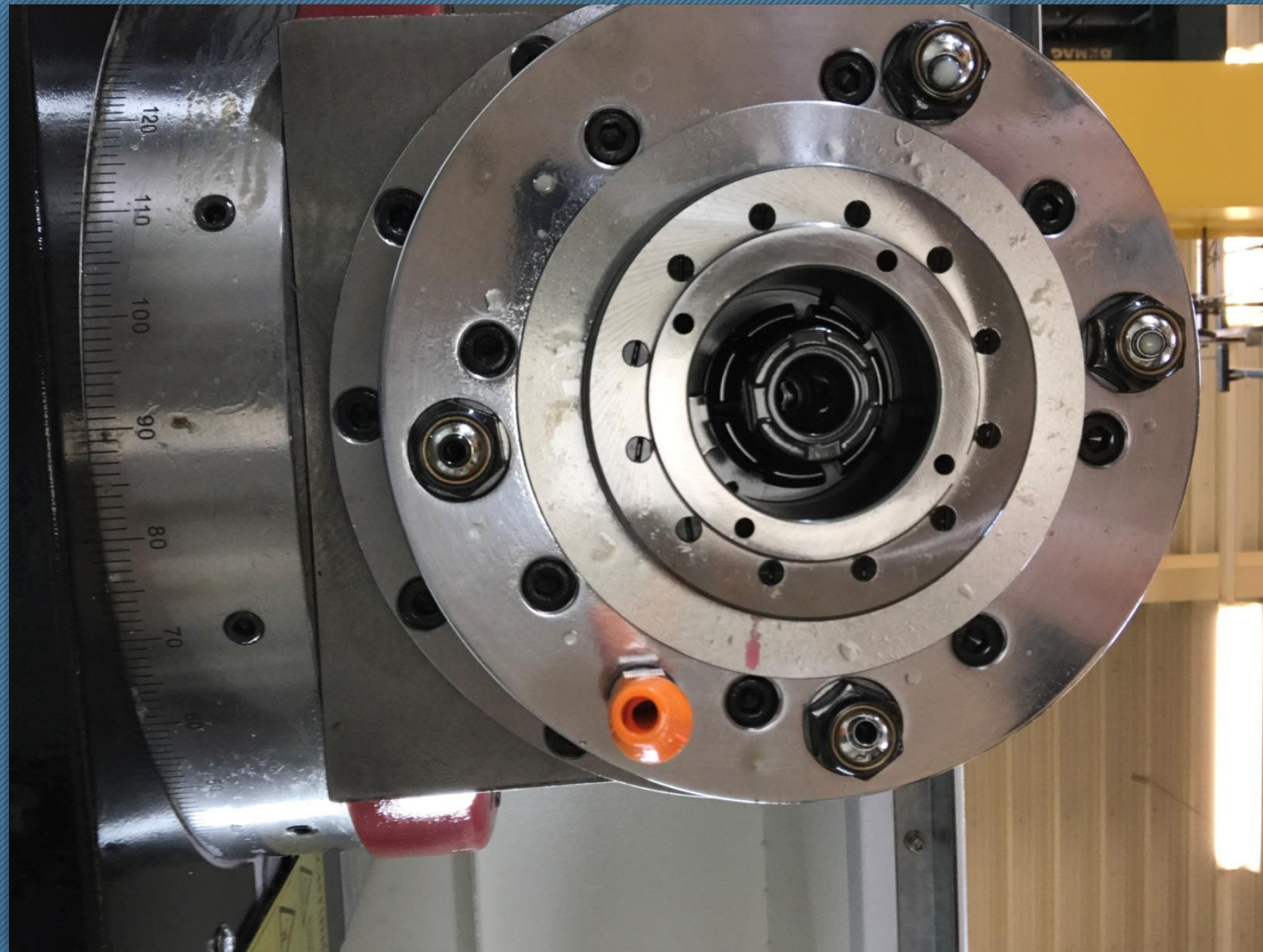
Hydraulic unit



Active spindle cooling standard



Coolant supply with water and air



standard

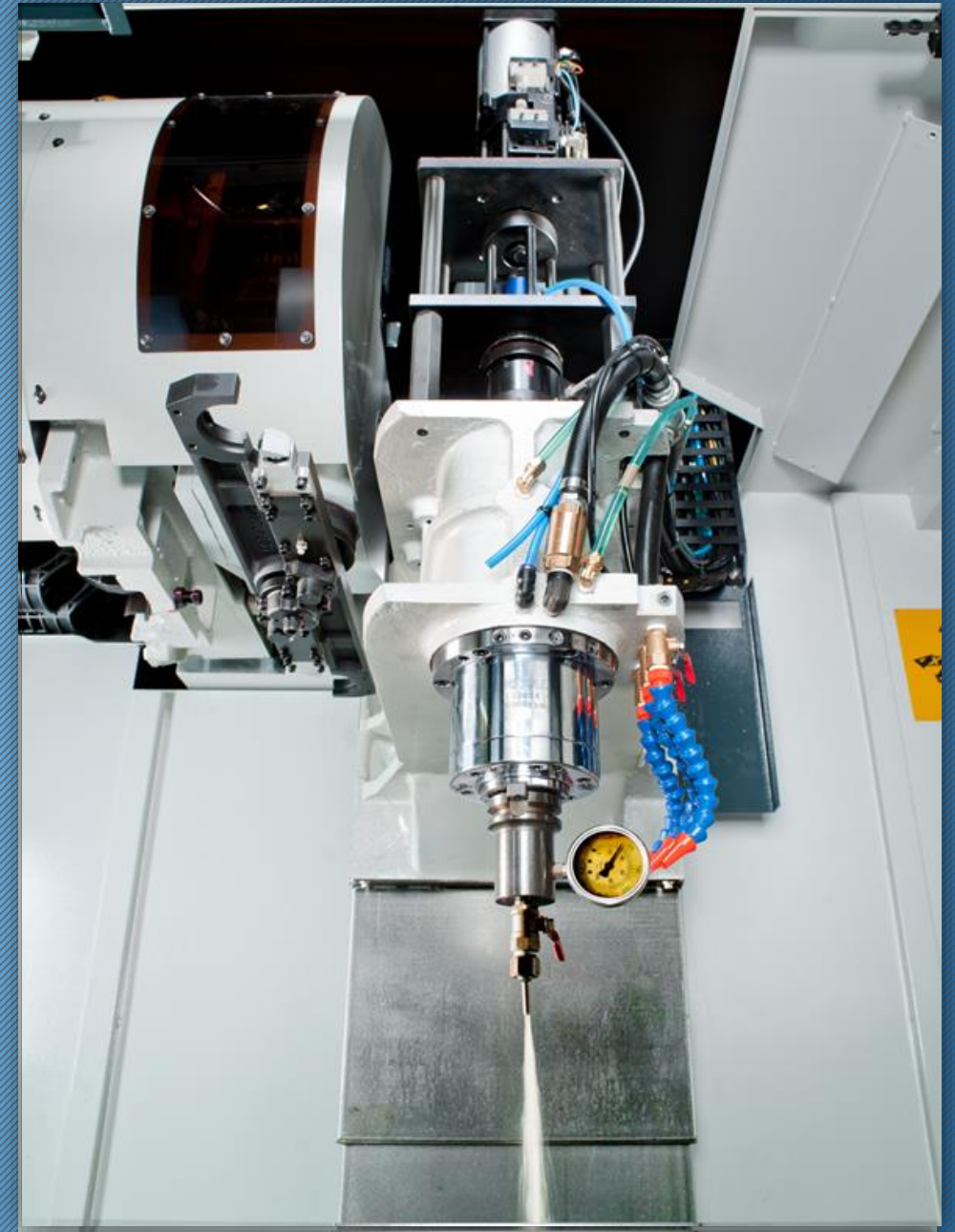
Internal cooling (option)



30 Bar with double filter system



70 Bar with 300l extra tank

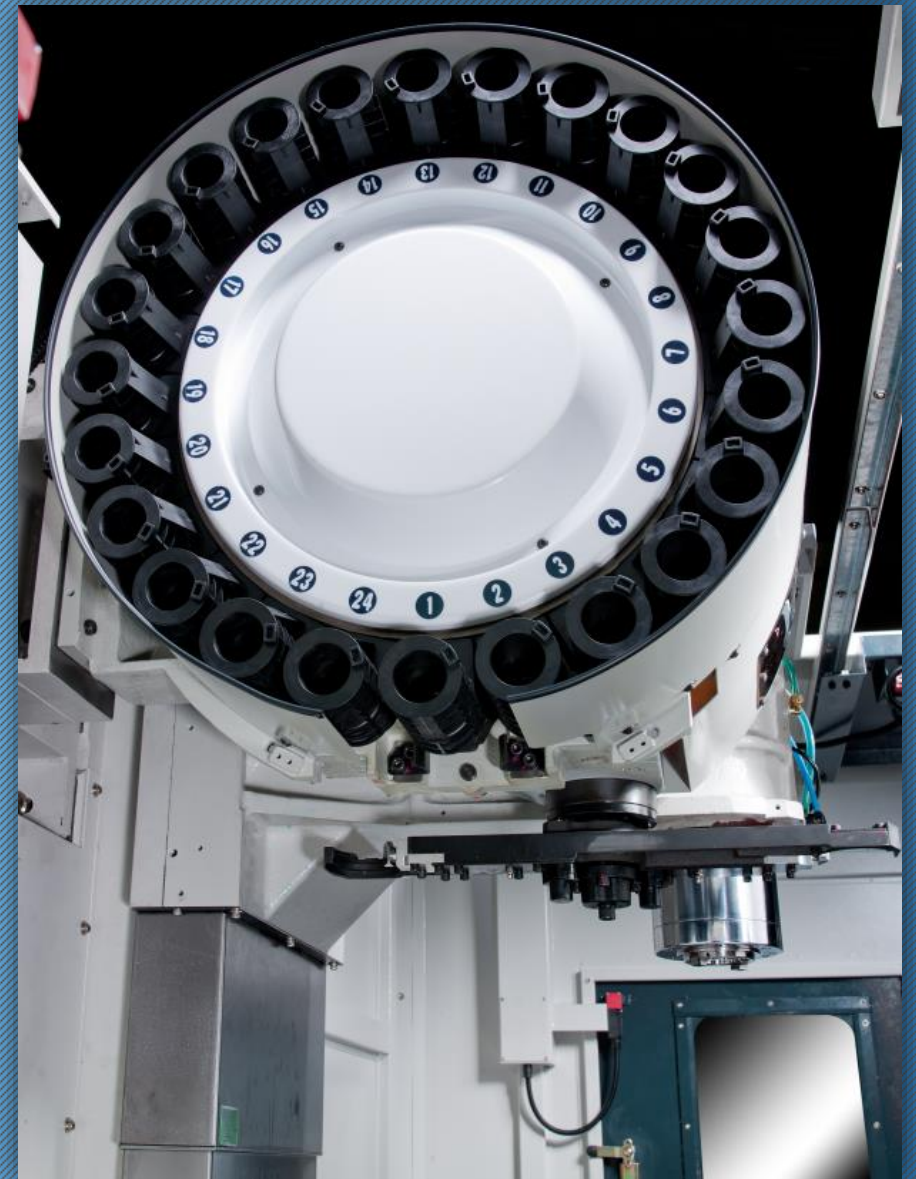


Air through spindle (option)
Band filter system (option)

Tool changer

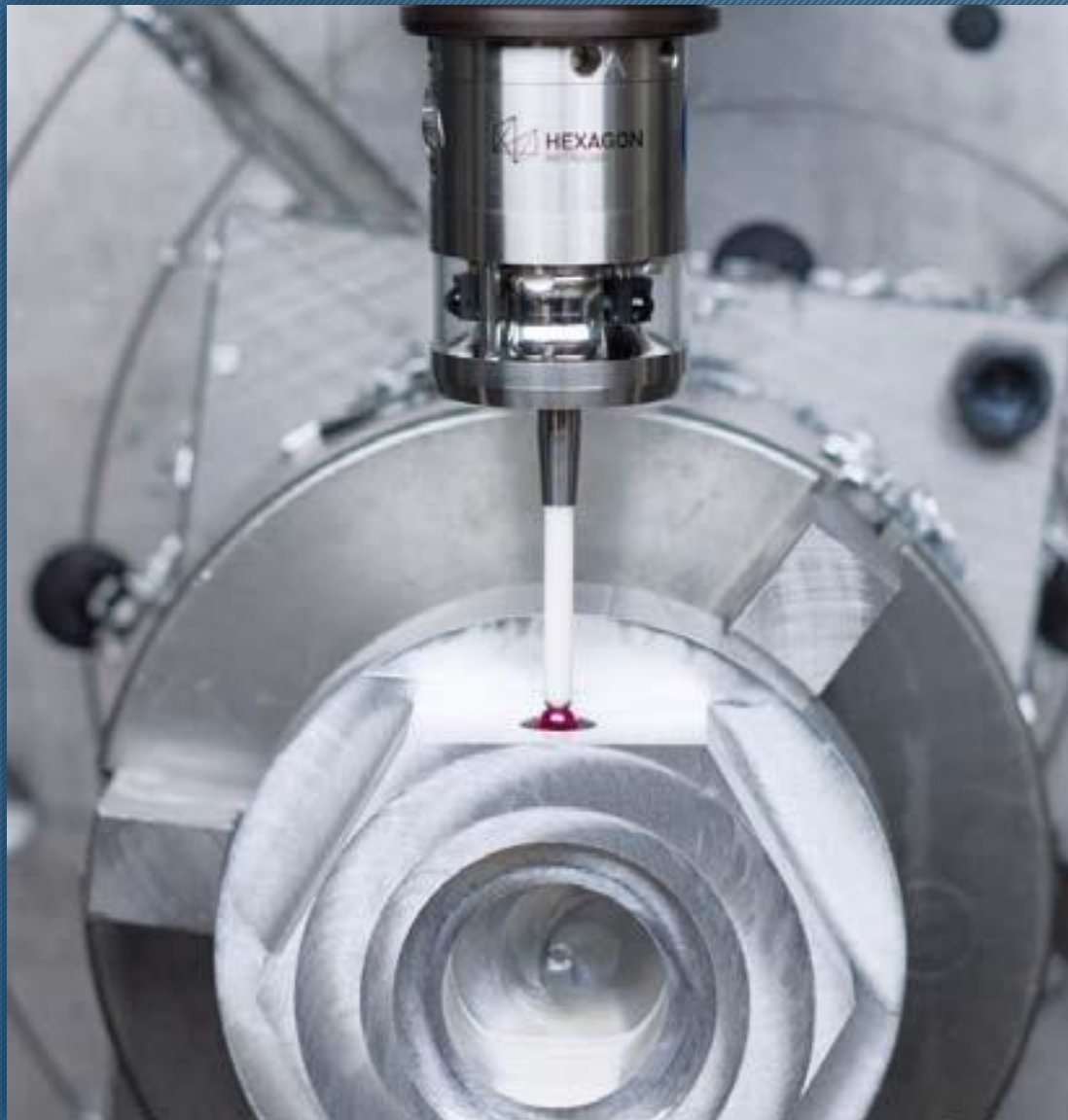


Rocker bar changer



Measuring HEXAGON m&h

3D workpiece measuring



Button/Laser tool measuring



*other brand on customers demand possible

Technical data

Verfahrenbereiche			
X – Achse	mm	1300	1600
Y – Achse	mm	700	700
Z – Achse	mm	700	700
Abstand Spindelnase und Tischoberseite (Vertikal)	mm	20 ~ 720	0 ~ 700
Abstand Spindelmitte und Tischoberseite (Horizontal)	mm	260 ~ 960	240 ~ 940
Abstand Spindelmitte und Maschinenständer	mm	770	770
Aufspanntisch			
Tischgröße	mm	1450 x 700	1450 x 700
Max. Werkstückgewicht	kg	1000	1000
Tischnuten	Anzahl	5 x 18 x 125	5 x 18 x 125
B Achse (Heidenhain Encoder 8380)			
Kraftübertragung	Schneckentrieb		
Übersetzung		1:120	1:120
Schwenken	Grad	±30/110	±30/110
Geschwindigkeit	U/min	16.6	16.6
Indexierung		0.001	0.001
C Achse Heidenhain (Encoder 2380)			
Kraftübertragung	Torquemotor	DD	DD
Durchmesser	mm	600	600
Tischbohrung Ø	mm	60	60
Geschwindigkeit	U/min	50	50
Indexierung		0.001	0.001
Frässpindel (Motorspindel)	Torque	71.6/82.6	71.6/82.6
Spindeldrehzahl	U/min ⁻¹	15000	15000
Aufnahmekegel	SK	40*	40*
Bewegungen			
Eilganggeschwindigkeit X – Y - Z	m/min	30/30/24	30/30/24
Vorschubgeschwindigkeit	m/min	10	10
Genauigkeit auf 300mm			
Positionierung	mm	±0.005	±0.005
Wiederholgenauigkeit	mm	±0.003	±0.003
BC Achse Positionierung	sec.	15/10	15/10
BC Achse Wiederholgenauigkeit	sec.	10/8	10/8

Werkzeugwechsler Schwingarm			
Anzahl der Werkzeuge	Stück	24(32/40)	24(32/40)
Max. Werkzeugdurchmesser	mm	80	80
Max. Werkzeugdurchmesser ohne Nachbarwerkzeug	mm	130	130
Max. Werkzeuglänge	mm	250	250
Max. Werkzeuggewicht	kg	7	7
Antriebsmotoren			
Motorspindel (100% ED)	kW	15/17.3	15/17.3
Vorschubmotor X – Y - Z	kW	3.9	3.9
Leistungsaufnahme			
Stromversorgung	KVA	50	50
Druckluftanschluss	bar	6	6
Fassungsvermögen der Tanks			
Kühlmitteltank	L	350	350
Abmessungen und Gewicht			
Breite:	mm	3650	4370
Tiefe:	mm	2915	2915
Höhe:	mm	3150	3050
Maschinengewicht	kg	10200	11500
Maschinenfarben	RAL	7035/7012	7035/7012

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wanted machine.

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