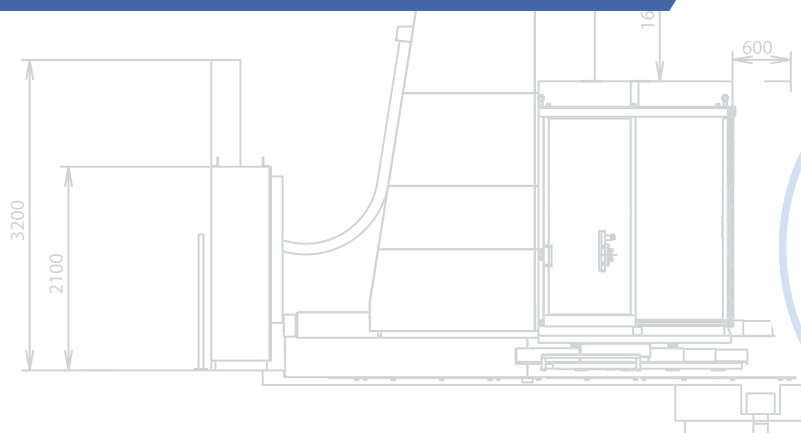
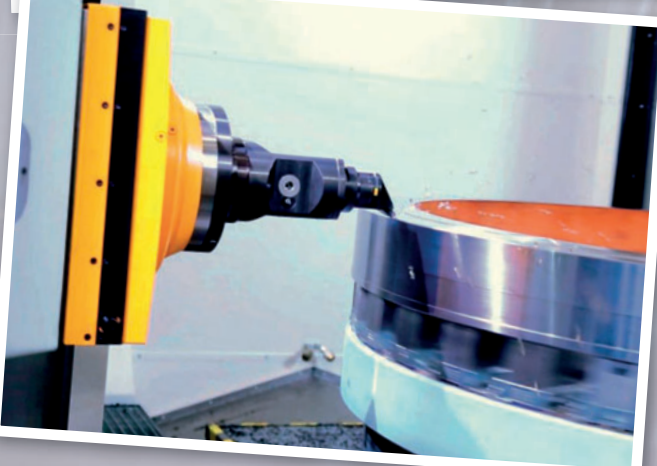
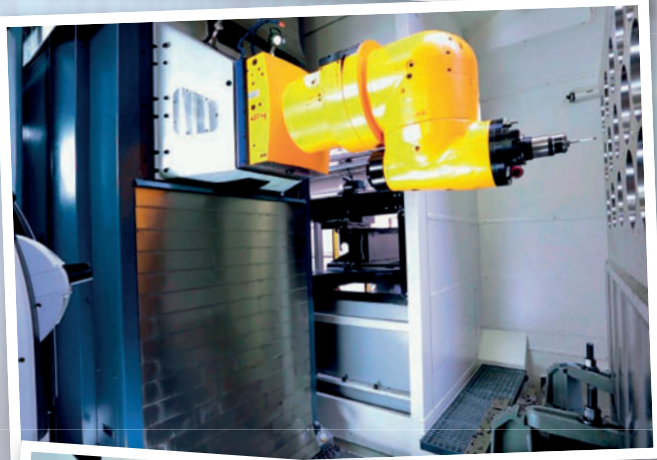
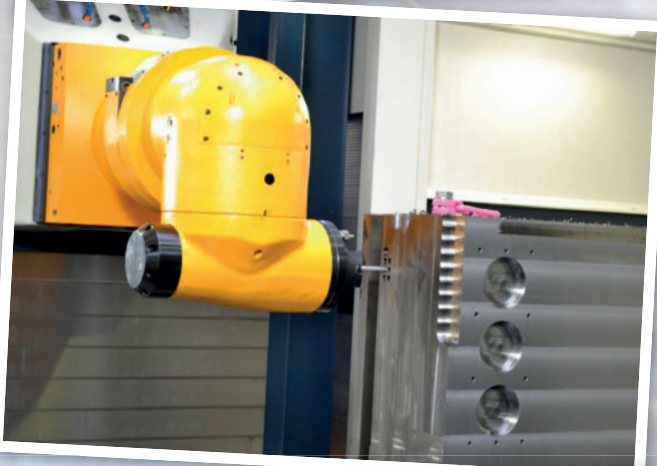
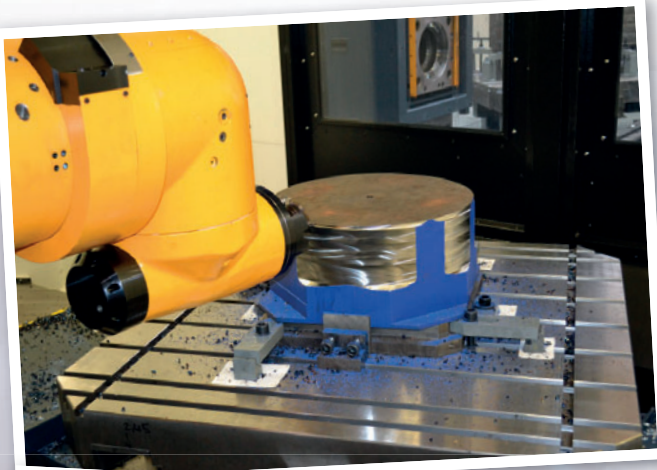


WHT 130

TOS VARNSDORF a.s.

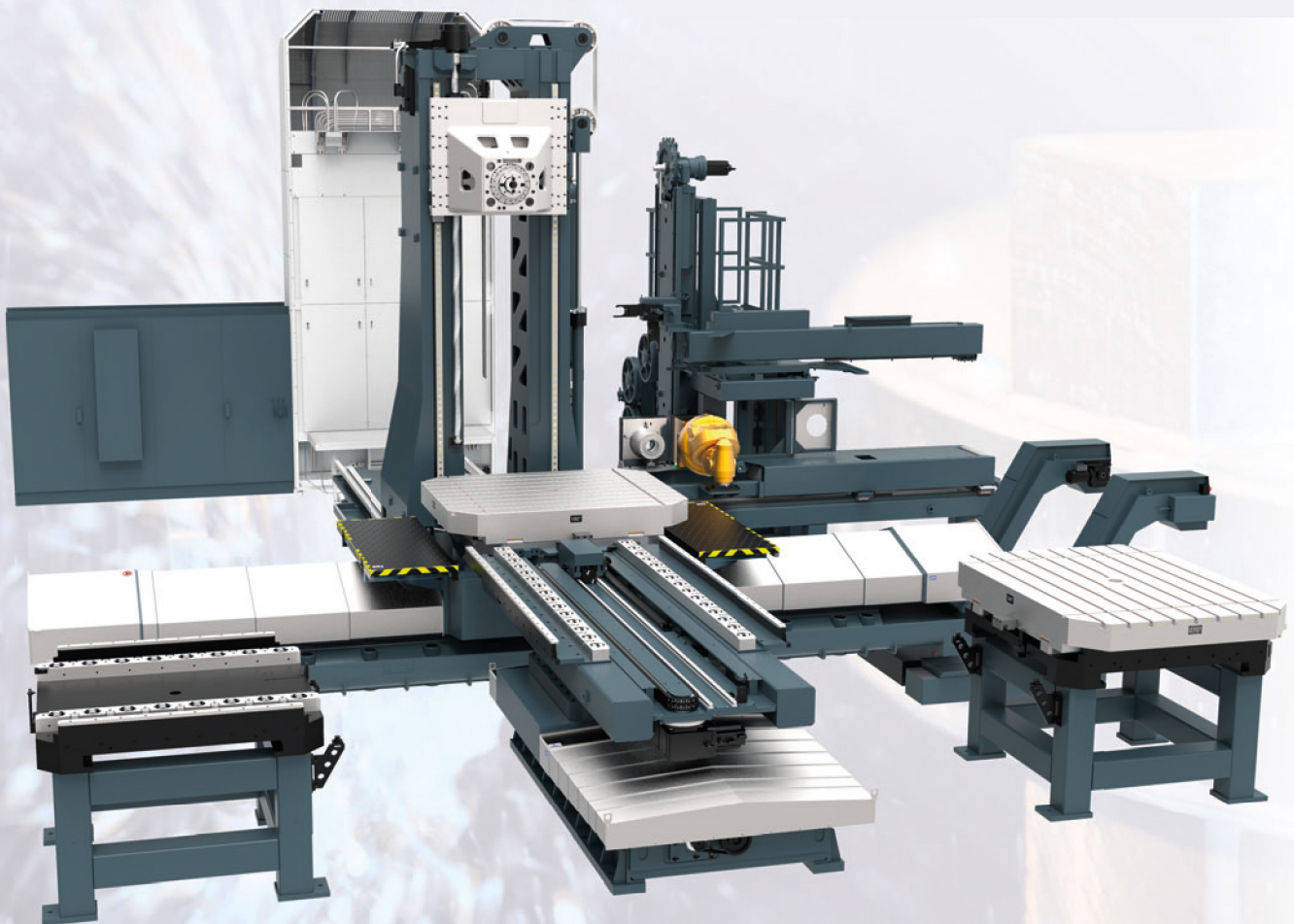




WHT 130 C



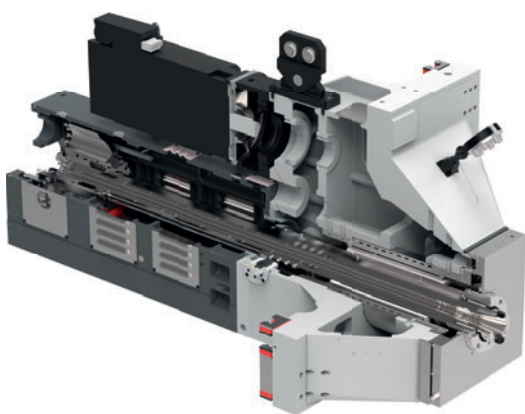
The new high-performing machine WHT 130 is a horizontal boring machining centre suitable for the most demanding operations that require precise boring, threading, vertical lathing and/or milling. The WHT 130 may be additionally equipped with a wide choice of accessories, which will satisfy the needs of even the most demanding applications.



1



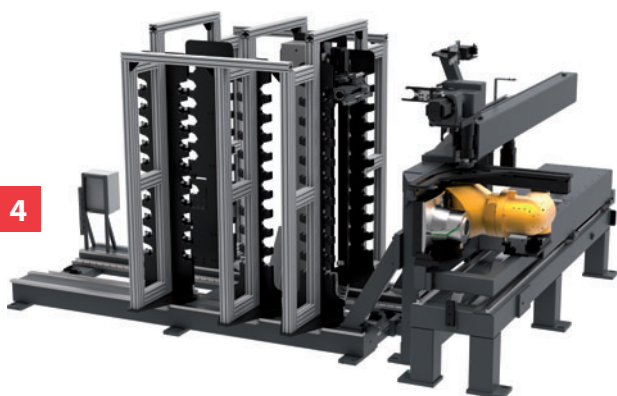
2



3



4



Machine Centres



Machine type		WHT 130	WHT 130 C
Headstock			
Working spindle diameter / spindle taper		130 / ISO 50	
Working spindle speed range	1/min	10 – 4 000	10 – 4 000 10 – 5 000
Main motor nominal power (S1)	kW	41	41 41
Nominal torque on the spindle (S1)	Nm	3 200	3 200 1 718
Spindle stroke W	mm	800	
Column			
Headstock vertical travel Y	mm	1 500, 2 000, 2 500, 3 000*	
Longitudinal column adjustment Z	mm	1 500, 2 000, 2 500, 3 000	
Rotary (turning) table / palette			
Traverse table travel X	mm	2 000, 3 000, 4 000, 5 000*	
Max. table / palette (turning palette) load	kg	20 000 / 16 000 (10 000)	
Table (palette) clamping area dimensions	mm	1 800 x 1 800, 1 800 x 2 200, 1 800 x 2 500, 2 000 x 3 000, 2 500 x 3 000 (1 600 x 1 600, 1 600 x 2 000)	1 800 x 1 800, 1 800 x 2 200, 1 800 x 2 500 (1 600 x 1 600, 1 600 x 2 000)
Turning version clamping area dimension	mm	Ø 2 000	
Max. speed of turning table or palette	1/min	250	
Max. number of palettes	pcs	2 to 4	
Automatic tool change			
Number of pockets – chain type magazine	pcs	40, 60, 80	
Number of pockets – rack type magazine	pcs	100+	
Tool change time	s	16	
Feeds			
Range of feeds (working and rapid traverse) – X, Y, Z	mm/min	1 – 25 000	1 – 36 000
	– W mm/min	1 – 20 000	
	– B 1/min	0,003 – 3	
Basic machine equipment			
– Chip conveyor		•	•
– Machine operator covering		•	•
– X and Z-axis covering		•	
– Complete machine enclosure (including the machine operator covering)			•
– Modification for the manual change of the manually adjusted milling heads		•	
– Remote diagnostics		•	•
– Automatic tool change AVN 40			•
– Modification for the automatic change of the milling heads (UPPT)			•
– CHZ tool cooling (via the external nozzles)			•

* Only for WHT 130

1

X, Y, Z, W axis drives

Linear axes are driven by servo drives with embedded belt transmissions and ball screws with a high pitch. X and Z axes are driven via ball screws with rotating ball nuts. Y and W axes are driven via rotating ball screws.

2

Central headstock

The WHT 130 is equipped with a centrally guided headstock. This design is optimal for even distribution of both the thermal and mechanical loading of the machine frame. The extending spindle slides in the hollow spindle.

5

Machine frame

The fundamental heavy machine components are made of grey cast iron. The machine column is designed as a double-shell casting with an optimized structure. High rigidity of the whole machine structure is ensured by an interconnection of the X and Z axis beds.

6

Guiding of movable groups

Linearly movable groups of the X, Y, and Z machine axes are guided using pre-loaded compact roller linear guides. The table is supported in a large-size radial thrust rolling bearing.

5

7

Balancing

The headstock weight is hydro-mechanically compensated (by a hydraulic cylinder) using a standalone hydraulic unit.

6

3

Automatic change of technological palettes

The pallet change equipment is based on automatic changing of technological palettes between stationary stowage stations and the pallet clamping base on the machine.

4

Automatic tool change

The system consists of a magazine and a handler with a twin mechanical arm.

