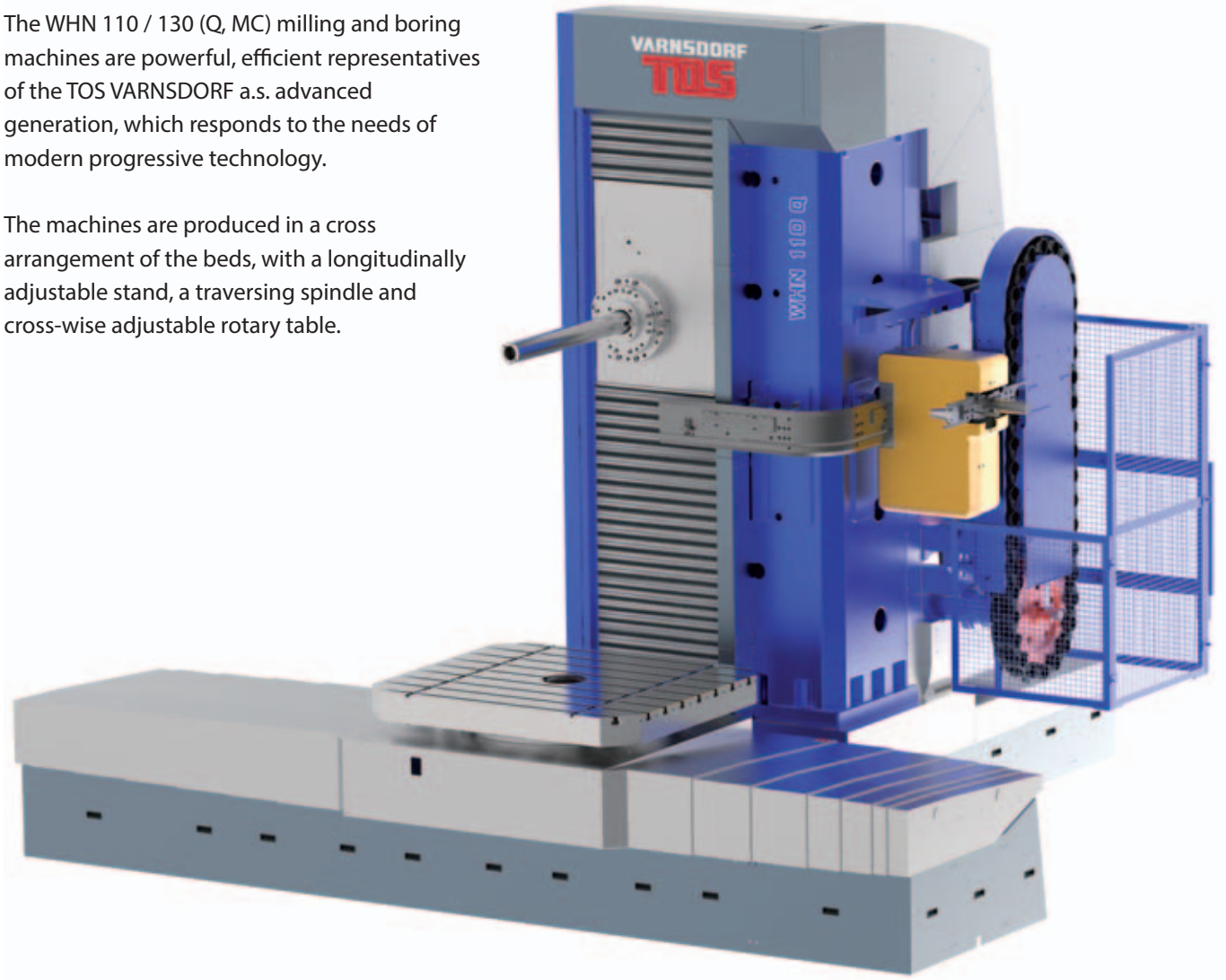
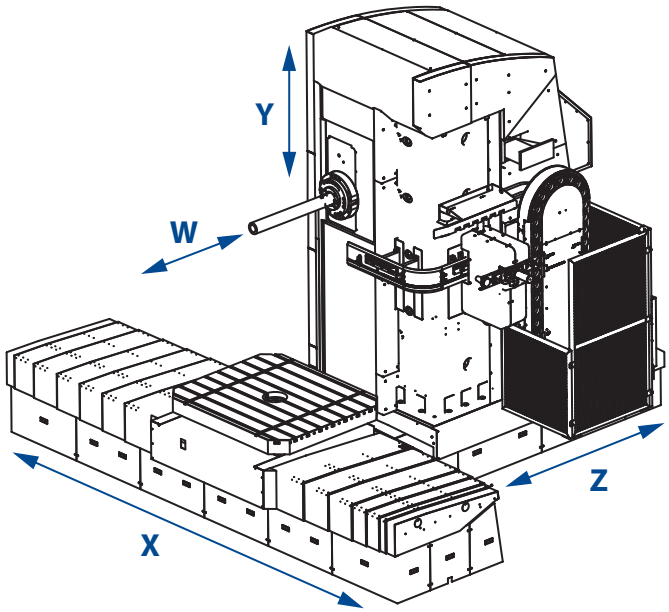
WHN 110/130 (Q, MC)

The WHN 110 / 130 (Q, MC) milling and boring machines are powerful, efficient representatives of the TOS VARNSDORF a.s. advanced generation, which responds to the needs of modern progressive technology.

The machines are produced in a cross arrangement of the beds, with a longitudinally adjustable stand, a traversing spindle and cross-wise adjustable rotary table.





Machine configuration

- WHN 110 – machine with spindle diameter 112 mm
- WHN 130 – machine with spindle diameter 130 mm
- WHN 110/130 – basic version
- WHN 110/130 Q – version with an automatic tool change
- WHN 110/130 MC – version with an automatic palette change
- 5 continuously controlled axes (X, Y, Z, W and B)

TECHNICAL PARAMETERS

Machine type		WHN 110 (Q, MC)	WHN 130 (Q, MC)
Headstock		**„N/R“**	**„N/R“**
Work spindle diameter	mm (in)	112 (4.4094)	130 (5.1181)
Spindle taper		ISO 50 / ISO 50 BIG+	
Work spindle speed range	1/min	10 – 3 300	10 – 3 000
Main motor power (S1)	kW (HP)	41 (55.7)	
Max. output of main motor (S6 – 60%)	kW (HP)	46 (62.5)	
Torque on spindle (S1)	Nm (ft lb)	1 463 (1079.1)	1 622 (1196.3)
Max. torque on spindle (S6 – 60%)	Nm (ft lb)	1 811 (1335.7)	2017 (1487.7)
Spindle stroke W	mm (in)	710 (27.9527)	800 (31.4960)
Column			
Headstock vertical travel Y – version with normal rotary table – version with technological palette	 mm (in) mm (in)	 1 250, 1 400, 1 600 (49.2125, 55.1181, 62.9921) 1 120, 1 250, 1 400 (44.0944, 49.2125, 55.1181)	 1 600, 2 000, 2 500 (62.9921, 78.7401, 98.4251) 1 400, 1 800, 2 240 (55.1181, 70.8661, 88.1889)
Minimum height of spindle axis above work table / Pallet Changer	mm (in)	50 (1.9685) / 0	
Column longitudinal travel Z	mm (in)	800, 1 000, 1 250 (31.4960, 39.3700, 49.2125)	1 000, 1 250, 1 600, 2 000 (39.3700, 49.2125, 62.9921, 78.7401)
Rotational table			
Max. workpiece weight	kg (lbs)	8 000 (17637)	12 000 (26455.5)
Table attachment area	mm (in)	1 250 x 1 400, 1 400 x 1 600, 1 400 x 1 800* (49.2125 x 55.1181, 55.1181 x 62.9921, 55.1181 x 70.8661*)	1 600 x 1 800, 1 800 x 2 240 (62.9921 x 70.8661, 70.8661 x 88.1889)
Table transverse travel X	mm (in)	1 600, 2 000, 2 500, 3 000 (62.9921, 78.7401, 98.4251, 118.1102)	2 000, 2 500, 3 000, 3 500, 4 000 (78.7401, 98.4251, 118.1102, 137.7952, 157.4803)
Automatic palette exchage			
Max. workpiece weight	kg (lbs)	5 000 (11023.1)	8 000 (17636.9)
Palette attachment area	mm (in)	1 250 x 1 400, 1 250 x 1 600 (49.2125 x 55.1181, 49.2125 x 62.9921)	1 600 x 1 800 (62.9921 x 70.8661)
Number of Pallets in the system		2	2
Total period of automatic palette change	s	85	85
Feeds			
Range of feeds (working and rapid traverse) – X, Y, Z, W	mm/min (ipm)	1 – 10 000 (0.0393 - 393.7007)	
– B	1/min	0.003 – 2.5	0.003 – 2

* max. wokpiece weight 5 000 kg (11023.1 lbs)

WHN 110 / 130 (Q, MC) – Varied use

Drilling and milling at angles.

Deep drilling and reaming.

Interpolation turning of large diameter holes.

Minimisation of downtime when replacing a workpiece with a palette system that replaces a product in only 85 seconds.