

# TECHNOLOGICAL SHEET No. 3

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Machining of agricultural machine arm

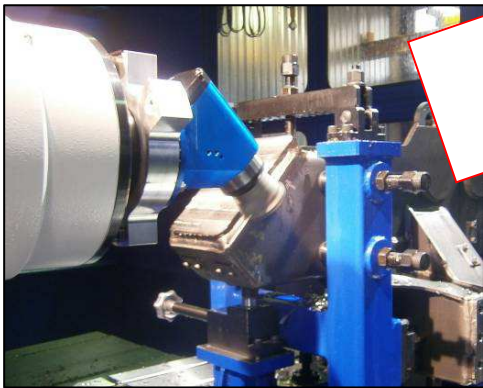
## SOLUTION OF CUSTOMER TECHNOLOGY

**New goals need new solutions**

Presentation of **WHQ 13 MC** milling machine technological usage by the machining of agricultural machine arm. The machine is equipped with automatic pallet change. The preparation process was carried out outside the machine, so its time was reduced significantly.



**Ideal solution for series production!**



**Maximization of productive work!**

One part of the machining has been realized using of special angle heads **BENZ**.



**Fully automated machining process:**

- pallet exchange
- automatic moving of workpiece touch probe
- angle heads exchange



**TOS VARNSDORF a.s.**

# Horizontal milling and boring machine WHN(Q) 13/15 CNC



**More than 2000  
manufactured types!**

Universal machine tool designed for precise milling, coordinate boring, the boring and cutting of box and plate screws and complicated workpieces with a weight of up to 25,000 kg.

## Technical specifications

Working space – max. travels			
Table transverse travel X	mm	up to 6,000	
Headstock vertical travel Y	mm	up to 3,500	
Column longitudinal travel Z	mm	up to 3,000	
Spindle stroke W	mm	up to 900	
Headstock with traveling spindle			
Spindle type		„R“	„N“
Spindle diameter	mm	130	
Spindle speed max	R.P.M.	3,000	1,500
Main motor power (S1/S6)	kW	37 / 46	
Headstock with non-traveling spindle			
Spindle speed max	R.P.M.	5,000	
Main motor power (S1/S6)	kW	28 / 35	
Headstock „15“			
Spindle diameter	mm	150	
Spindle speed max	R.P.M.	3,000	
Main motor power (S1/S6)	kW	46 / 55	
Table			
Workpiece weight max	kg	25,000	
Clamping surface max - standard	mm	1,800 x 2,500	
Clamping surface max - option	mm	2,500 x 3,000	
Automatic pallet change			
Workpiece weight max	kg	16,000	
Clamping surface max	mm	1,800 x 2,500	
Time of pallet change	sec	120	
Feeds			
Feed range – X, Y, Z, W	mm.min <sup>-1</sup>	4 – 5,000	
Feed range – B	min <sup>-1</sup>	0,003 – 1,5	
Rapid traverse – X, Y, Z, W	mm.min <sup>-1</sup>	up to 10,000	
Rapid traverse – B	min <sup>-1</sup>	2	



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