

TECHNICAL DATASHEET CNC – Horizontal – Machining Centre

manufacturer	HÜLLER HILLE
type	Nb-h 170 Speed
built	2004
control	SINUMERIK 840 D



NC – rotary table

Pallet size	630 x 500 mm	2-fold pallet changer
Smallest partial step	0,001 °	
Maximum workpiece circuit	Ø 900 x 1.100 mm	
Max. table load centric	800 kg	
Max. feed rate	30 Upm	

travels

X-axis (rotary table cross)	1.000 mm
Y-axis (head stock vertical)	800 mm
Z-axis (column longitudinal)	800 mm
B-axis (NC – rotary table)	360.000 °

Feeds

Feed range in X-Y-Z-axis	1 – 50.000	mm/min
Feed force in X-Y-Z-axis 100% ED	15.000	N
rapid feed in X-Y-Z-axis	50	m/min
rapid feed B-axis (NC – rotary table)	30	m/min

Tool magazine, Tool changer

Number of magazine cassettes	3	
Number of tool places each cassette	50	150 places in total
Max. tool-Ø	100	mm
Tool taper	HSK 100	
Tool-Ø with limitations	125/325	mm
Tool length max.	650	mm
Tool weight max.	40	kg
Max. weight each magazine casset	650	kg
Tool changing time (max. 25 kg)	ca. 2,5 – 4,5	sec
Chip to chip time (VDI 2852, Bl. 1)	ca. 7-8	sec
Pallet change time	ca. 12 - 18	sec

Main spindle

Max. power, ED 100/40%	36/50	kW
Max. torque, ED 100/40%	344/475	Nm
Max. speed	12.000	min-1
Tool taper	HSK 100	

Coolant equipment

Tank capacity	ca. 1.250	l
External coolant	ca. 30 l/min	at 11 bar
Internal coolant	ca. 10 l/min	at 25 + 50 bar
Flushing pump device	ca. 160 l/min	at 1,0 bar
Flushing pump channel flushing	ca. 60 l/min	at 1,7 bar
Chip conveyor – ejection height	1.200	mm

measurement

Space requirement	ca. 7,8 x 6,1 x 3,4 m
Machine weight	27.000 kg

equipment

- 2-fold pallet changer with in total 4 piece pallets 630 x 500 mm (2 pallets extra)
- Tool magazine with 150 places HSK 100
- NC-rotary table pitch 0,001°
- Main spindle 12.000 min-1/36 kW
- 3D-measuring probe RENISHAW OMP 60
- Machine cover with fully enclosed working area
- 2 St. chip conveyors longitudinal
- Coolant equipment with paper band filter, internal coolant
- BRANKAMP tool monitoring
- exhaust ELBARON
- Power ON: 34.000 h, Machine run: 21.600 h