

TECHNICAL DATA  
CNC-Turning-, Milling and Boring Machine

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Brand	<b>NILES – SIMMONS</b>
Type	<b>N 30 x 4500</b>
Build	<b>2009</b>
Control	<b>SINUMERIK 840 D power line</b>

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**Working Area**

Swing Ø over bed covering	780 mm
Swing Ø over carriage	760 mm
Turning diameter	760 mm
Turning Length	4.500 mm
Turning axis high over floor	1.300 mm
Z-Axis moving	5.054 mm

## Mainspindle drive with gear box (Variante II)

Power 100/60% ED	67,4/80	kW
Speed	10 – 2.600	min-1
Speed in gear step I	10 - 975	min-1
Speed in gear step II	10 – 2.600	min-1
Diameter in front bearing	240	mm
Spindle bore	160	mm
Spindle nose DIN 55026	size 15	
Max. Torque gear step I, ED 60%	3.135	Nm
Max. Torque gear step II ED 60%	967	Nm

## C – Axis

Resolution of measuring system	+/- 0,001	°
Max. Torque ED 60%	3.135	Nm
Speed	0 - 50	min-1
Power of brake	2.300	Nm

Hydraulic cylinder for power chuck OVS-150 with control  
2 pressure stage programmable

## Longitudinal and cross slide

With integrated Y-slide in tool turret

X-Axis	435	mm
Y-Axis	+/- 65	mm
Z-Axis	5.054	mm
Rapid feed Y-X-Z	10/18/30	m/min
Max. feed	18.000/30.000	mm/min
Max. feed power Y-/X-/Z-Axis	4,5/12/20	kN
Measurement system X- und Z-Axis linear, absolut, Y-Axis with motor measuring system		

### 16-fold tool turret

With drive for live tools	2 x 8 Pos.
Tool taper	VDI 50
Pitch circle 1, 8 Pos. VDI 50	470 mm
Pitch circle 2, 8 Pos. VDI 50	590 mm
Spindle speed stepless	10-3.200 min-1

### 2 pc. NC-positionable steady carriage

Equipped with 2 pc. Steadys

Self-centering steadys brand SMW

Working area steady 1	45 - 310 mm
Working area steady 2	250 – 500 mm

### Tailstock NC-positionable

Rapid feed max.	12 m/min
Diameter of quill	150 mm
Quill speed	8 m/min
Quill stroke	160 mm
Cone	5 MK
Axial power manual adjustable	4 - 25 kN

### CNC-Control

SIEMENS, SINUMERIK 840 D power line

### Equipment, Accessories

- All drives digital servo technic from SIEMENS

- Coolant unit consisting of:

Coolant tank 1000 l, standard pump 11 bar/40l/min, high pressure pump 70 bar, band filter unit,

- Chip conveyer

- Dust exhausting brand ILT, Typ UNIFIL 60, capacity ca. 3.600 m<sup>3</sup>/h

- Complete covering with automatic doors

- 1 pc. 3-jaw-chuck RÖHM DURO NC 400/3

- 1 St. 3-jaw-chuck RÖHM DURO NC 500/3

Div. Tool holders + div. Live tools