

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	Limited to 2.000 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, absolute, Y-Axis with motor measuring system

## 16-fold tool turret

With drive for live tools	1 x 8 Pos.	On circle 1
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

Only fixed tools

## 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

## Electrical supply

Nominal voltage 400 V

Power consumption 124 kVA

Nominal machine current 179 A

Supply line fuse 250 A 250 A

## Dimensions

length x width x height ca. 14 x 4,3 x 3,3 m

Machine weight ca. 28.000 Kg

## Equipment, Accessories

- - All drives digital servo technique 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 conveyor
  - - Dust exhausting brand ILT, Typ UNIFIL 60, capacity ca. 3.600 m<sup>3</sup>/h
  - - Complete covering with automatic doors
  - - Measuring probe for work piece measurement make RENISHAW, type RMP60, VDI 50
- - 1 pc. 3-jaw-chuck RÖHM DURO NC 400/3
- - 1 St. 3-jaw-chuck RÖHM DURO NC 500/3
- Misc. Tool holders + div. Live tools