L 50E

OPTIMUM Universal CNC Lathe

Complete solution - Diverse possibilities

SIEMENS CONTROL SINUMERIK 808D ADVANCED

- Precision workmanship
- Spindle and servo motors by SIEMENS
- Fully cladded with safety device
- Maximum spindle speed of 3 000 rpm as standard
- Hydraulic lathe chuck
- Ball screws for high rapid traverse speeds in all axes
- Linear guides on all axes
- Automatic centralised lubrication
- Servo-hydraulic VDI 30 tool changer with 8 tool stations
- Swivelling operating unit
- Electronic handwheels for the X and Z axis
- Coolant unit with 110 litre coolant tank
- RJ45 plug-in connection, USB connection and power connection 230 V
- EMC Electromagnetic compatibility
- Six levelling feet
- Operating tool
- Additional package SIEMENS material defects liability and free on-site service OSS on Seite 51
- For information on maintenance contracts see Seite 309

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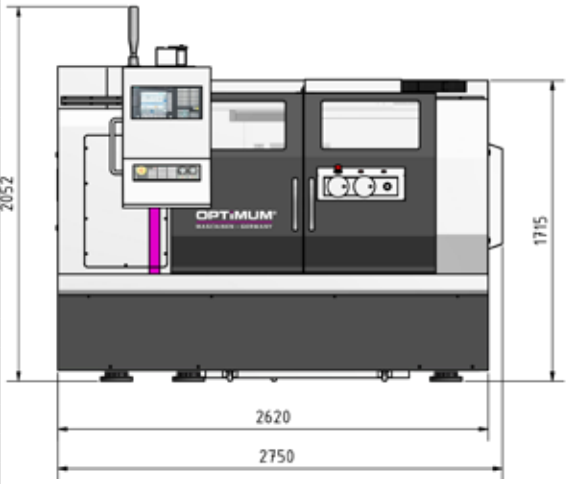
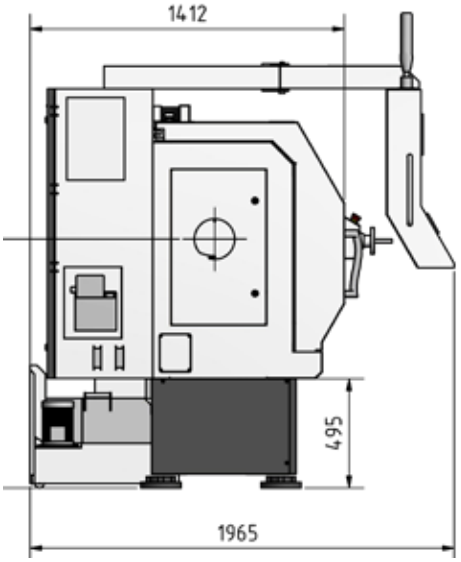
TECHNICAL DATA

Model	L 50E
Article no.	3504240
Machine data	
Electrical connection	400 V / 3 Ph ~50 Hz
Total connected load	11 kW
Spindle	
Drive motor S1 operation	7.5 kW
Torque drive motor S1 operation	48 Nm
Drive motor S6 30 % operation	11.25 kW
Torque drive motor S6 30 % operation	72 Nm
Spindle seat	ISO 702-1 No. 6 form A2
Hydraulic lathe chuck	Ø 210 mm
Chuck passage	Ø 52 mm
Spindle bore*	Ø 66 mm
Torque at the spindle	86 Nm
Cooling lubricant system	
Cleaning pump output	1 kW
Coolant pump output	450 W
Tank capacity	110 litres
Hydraulic system	
Hydraulic pump power	2.2 kW
Tank capacity	50 litres
Machine data	
Turning length	618 mm
Centre height	245 mm
Swing Ø above cross slide	**280 mm**
Swing Ø above machine bed	**490 mm**
Bed width	**400 mm**
Speed range	
Spindle speeds	3 000 rpm
Tool changer	
Shank	VDI 30
Type	Hydraulic
Number of tool slots	8
Mounting height x width of square max.	**20 mm**
Max. chuck diameter drilling rod	**32 mm**
Accuracy	
Repeat accuracy	±0.005 mm
Positioning accuracy	±0.008 mm
Travel	
X axis	300 mm
Z axis	800 mm
Feed speed	
X axis fast motion	12 m/min.
Z axis fast motion	15 m/min.
Motor torque	
X axis	6 Nm
Z axis	11 Nm
Tailstock	
Shank	MT 5
Spindle sleeve diameter	75 mm
Spindle sleeve stroke	150 mm
Dimensions	
Length x width x height	2 750 x 1 965 x 2 052 mm
Overall weight	4 200 kg





* depending on installed chuck

SINUMERIK 808 ADVANCED

CNC technology from the technology leader

- The SINUMERIK 808D ADVANCED control is a panel-based CNC control. The compact and user-friendly entry-level solution is used for simple turning applications. Features such as easy operation, commissioning and maintenance are the perfect basis for equipping CNC machines.
- With its technology-specific variants, the SINUMERIK 808D ADVANCED control is perfectly preconfigured for turning. And with its hardware and software enhancements, the SINUMERIK 808D ADVANCED also offers sufficient performance for simple turning functionalities in mould and tool making.

SINUMERIK 808D ON PC

- Control-identical software package that further simplifies handling of the machine tool. Download free of charge at https://xcelerator.siemens.com/global/en/industries/machinebuilding/machine-tools/cnc4you/808d-on-pc.html

Communicative:
- USB front panel (IP65)

Communicative:
- RJ45 Ethernet on the rear

User-friendly:
- Technology-specific keyboard layout
- Hard keys with protective membrane

Easy to maintain:
- No battery. Continuous data buffering based on NV-RAM technology
- IP65 protection class on the front

OVERALL PACKAGE

- RJ45 Ethernet port
- Ready for remote maintenance
- AST function gives users an easy optimisation option in case of stricter dynamic and precision requirements
- Absolute encoder / no referencing move required
- Greater precision

CONTROL

- 8.4" LCD colour display with a resolution of 800x600

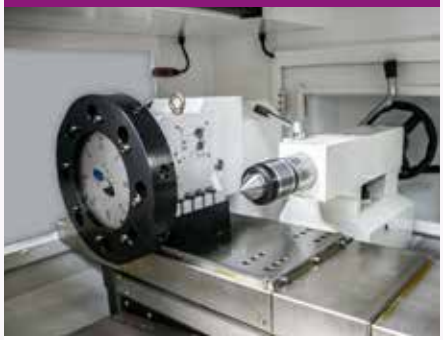
ADDITIONAL PACKAGE SIEMENS OSS

12 months; Article no. 3589010
36 months; Article no. 3589012

Information on this additional package and conditions for utilisation can be found at:
Liability for material defects and on-site service - SiePortal - Siemens WW

STANDARD EQUIPMENT

TOOL CHANGER



- Servo-hydraulic VDI30 tool changer for eight tool stations
- Max. mounting height 20 mm
- Max. chuck diameter 32 mm

LINEAR GUIDE

- Maximum static and dynamic stiffness
- High positioning accuracy
- Smooth, backlash-free movement
- Consistent precision with long service life

SIGNAL LIGHT

- Visually displays the machine status
- Very bright and with a long service life

HANDWHEELS

- Handwheel for moving the X axis and Z axis manually
- Emergency stop button

CONTROL CABINET

- Clear-cut layout of the control cabinet
- Standard-compliant
- Drives by SIEMENS

CENTRAL LUBRICATION SYSTEM

- Guarantees regular and automatic lubrication
- Lubricating points that are connected to the central lubricating system have a longer service life

SINUMERIK 808D on PC

- Software package identical to control
- Facilitates the handling of the machine tool
- The workpieces can be programmed and simulated offline.

Training and learning

- SINUMERIK Operate BASIC operations can be explored on a PC without additional hardware.
- Easy and convenient learning experience with a user interface identical to that of the control

Offline CNC programming:

- Boos productivity by programming directly on a PC
- Testing of part programmes on the PC with the integrated simulation

Professional CNC presentations:

- Present the SINUMERIK Operate BASIC user interface on the PC – at any time and anywhere without additional hardware

- *Download free of charge at https://xcelerator.siemens.com/global/en/industries/machinebuilding/machine-tools/cnc4you/808d-on-pc.html*

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LATHE CHUCKS AND ACCESSORIES

Article no.			
350424014*	**Four-jaw lathe chuck Ø 210 mm**		· for the › three-jaw lathe chuck Ø 210 mm - included in the standard equipment
3519712	**Soft jaw (1 pc.) Autogrip**		· for lathe chuck Ø 210 mm
3519732	**Set of hard top jaw (3 pc.) Autogrip**		· for the - in the standard equipment › three-jaw lathe chuck Ø 210 mm
3519733	**Set of hard top jaw (4 pc.) Autogrip**		· for the optional four-jaw lathe chuck Ø 210 mm

MISCELLANEOUS

3536115	**Starter set VDI 30**		· 3 pcs. square cross adapter · 1 pc. square cross adapter overhead · 1 pc. square longitudinal adapter · 5 pcs. boring bar holder Ø 10/12/16/20/25 mm · 3 pcs. closing lid · 1 pcs. Collet chuck holder ER 25 · 1 pc. Collet chuck spanner ER 25 · 15-part collet set ER 25 · 1 pc. Tool holder · 1 pc. drill chuck
3544190	**Lathe tool set Carbide 20 mm**		· 6-part · see Seite 282
350424004	**Chip conveyor with chip trolley**		· Conveyor version
350424003	**Oil separator / oil skimmer**		· Oil skimmer reliably removes floating tramp oils and finest chip debris from cooling lubricants · Longer service life of the cooling lubricants
350424002	**High performance coolant pump 1 kW**		· instead of the - in the standard equipment › coolant pump 450 W
350424001	**Lifting device**		· a lifting device is required to unload the machine.

SOFTWARE

3584150*	**SIEMENS** **Manual Machine Plus (MM+)** **Simple cycle control**		The software enables the transition from conventional machines to CNC programming. Functions: · Axis-parallel traverse, taper turning, radius turning, centre drilling, tapping, groove cycle, tapping, pre-turning of contours

For more information, see auf Seite 301

*Delivered ex works. The option must be ordered with the basic machine. Cannot be retrofitted.