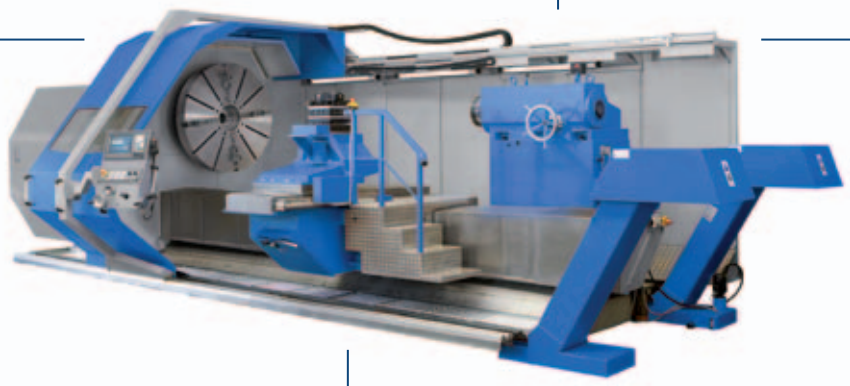
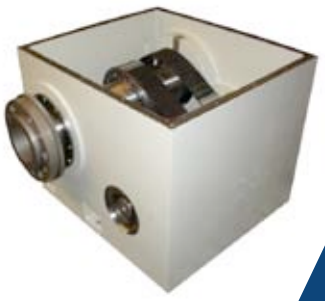
Product overview

Drehen mit...®

SEIGER Drehmaschinen





- Cycle lathes
- CNC lathes
- Facing lathes

www.seiger.de

Company History

SEIGER Drehmaschinen have a long tradition. The company's history has its roots in the 19th century. The origin of the know-how lies in the products of the company *"Fleisch und Steiner"* from Frankfurt in 1891. The permanent development process, however is actuated since the last century until today, which can be seen in the machines' ongoing further developments, adaptions and modernization.

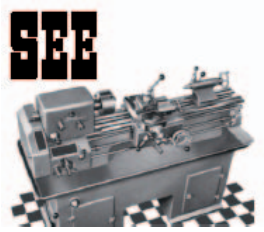
Guidance & Development

First of all we offer an extensive guidance concerning our machines. Experts are at your disposal whenever you need them. Furthermore we prepared machines for demonstrations with different equipment and different controls. We present our newest developments either in our in-house demonstration room or at international fairs.

The machine's construction and development as well as the switch cabinet construction are done in our company. After setting up and fixing your machine and its equipment, Seiger's engineers will do their mechanical and electrical construction. Our achievement is supported by modern appliances like a 3D-software within our modern computers.

1891 — 1935 — 1984 — 1992

Foundation of *"Fleisch & Steiner"*, Maschinenfabrik



Acquisition of *"Fleisch & Steiner"* by the company SEE in Bischofsheim

The *Willi Seiger* GmbH was founded in Lippstadt and has grown product-oriented ever since. The distribution network is represented due to many supporting points throughout Germany and throughout other countries in Europe.

Acquisition of the product series of the company SEE and further development of the machines

Production

Different from other producers whose entire production is outsourced to other countries, we manufacture the components mechanically in our company. With us you receive machines "Made in Germany". Since our vertical range of manufacture is very high, we determine the quality of your machine by ourselves initially.

Service

Our proficient team is always available for you concerning questions or problem solutions.
We offer you an entire spare parts supply as well as a locally service through our external work technician. Local reparation of a machine and special training through our service technician is also possible.

CONTROL SYSTEMS

Heidenhain MANUALplus 620 is characterized particularly by convenient manual machine operating. Application-oriented cycle programming enables the machinist to create and edit programs rapidly and effciently. The new *smart.TURN* interface is based on the proven HEIDENHAIN-DIN PLUS: *smart.TURN* creates DIN PLUS programs. **www.heidenhain.de**

Optional locations of the control systems.

All SEIGER cycle lathes are equipped with control systems either Heidenhain MANUALplus 620 or Siemens Solution Line 840 D.

Siemens SINUMERIK 840D sl offers you modularity, openness, flexibility, a uniform structure for operation, programming, visualization and optimum integration into networks. **www.siemens.com**

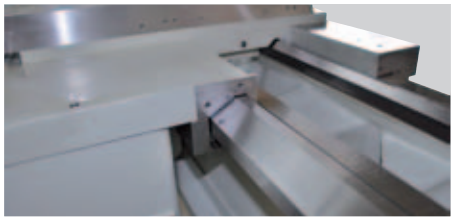
Optional locations of the control systems.

SLZ 300 E

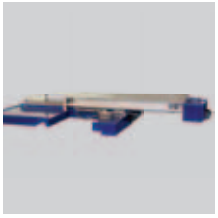
Automatic central lubrication of the guideways and nuts. Sealing air system with carbon filter for the linear measuring system in the X-axis.

CAPACITY

Swing over bed	mm	300
Swing over cross slide	mm	150
Cross slide travel X-axis	mm	170
Width over bedways	mm	240
Spindle nose DIN 55027	size	5
Spindle bore	mm	40
Spindle dia. in front bearing	mm	70
Taper hole of spinde	MT	5
Tailstock quill diameter	mm	50
Tailstock quill travel	mm	125
Tailstock quill taper	MT	3
Distance between centers	mm	750



Solid saddle with plastic laminated counter guidance at the support. Long continuous cross slide with adjustable V-ledge. Cross slide guidings hardened.



Direct distance measurement in the X-axis via glass-scale including sealing air system for high precision.

SPEED RANGE AND POWER

Mainmotor 100/40% ED	KW	7,5/11,5
Speed range	Rpm	1–4.500
Torque without gear	Nm	approx. 166
Longitudinal feed power	N	6.000
Cross feed power	N	3.000
Rapid traverse rate X/Z	m/min	8/6

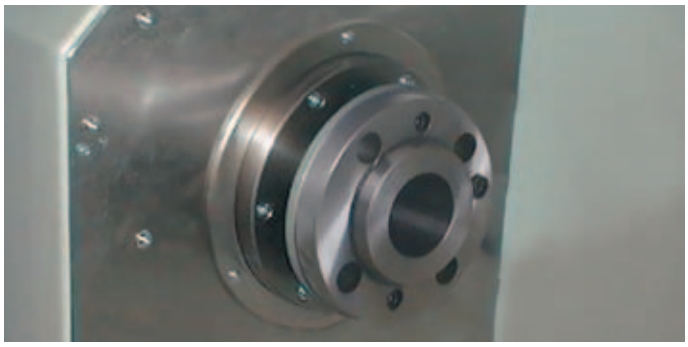
SLZ 420 E

CAPACITY

Swing over bed	mm	430
Swing over cross slide	mm	220
Cross slide travel X-axis	mm	230
Width over bedways	mm	350
Spindle nose DIN 55027	size	6
Spindle bore	mm	80
Spindle dia. in front bearing	mm	110
Taper hole of spinde	MT	6
Tailstock quill diameter	mm	70
Tailstock quill travel	mm	150
Tailstock quill taper	MT	5
Distance between centers	mm	1.000/1.500 2.000

SPEED RANGE AND POWER

Mainmotor 100/60% ED	KW	9/11
Speed range	Rpm	1–3.600
Torque without gear	Nm	approx. 200
Torque with gear	Nm	approx. 750
Longitudinal feed power	N	5.000
Cross feed power	N	4.000
Rapid traverse rate X/Z	m/min	10/7



High accuracy and rigidity of the spindle by precision bearing arrangement and standard spindle bore diameter 80 mm.

Torsion-resistent bed of high quality cast iron with hardened, fine grinded guideways and glass-scale in X-axis.

Safety clutch in X- and Z-axis.

OPTION
Steady and follow rest.

SLZ 500 E

High accuracy and rigidity of the spindle by precision bearing arrangement and standard spindle bore diameter 93 mm.

Torsion-resistent bed of high quality cast iron with hardened, fine grinded guideways and glass-scale in X-axis.

Safety clutch in X- and Z-axis.

OPTION
Steady and follow rest.

CAPACITY

Swing over bed	mm	500
Swing over cross slide	mm	280
Cross slide travel X-axis	mm	260
Width over bedways	mm	350
Spindle nose DIN 55027	size	8
Spindle bore	mm	93
Spindle dia. in front bearing	mm	130
Taper hole of spinde	MT	100
Tailstock quill diameter	mm	90
Tailstock quill travel	mm	180
Tailstock quill taper	MT	5
Distance between centers	mm	1.000/1.500 2.000

SPEED RANGE AND POWER

Mainmotor 100/60% ED	KW	20/25
Speed range	Rpm	1–3.000
Torque without gear	Nm	approx. 500
Torque with gear	Nm	approx. 1.400
Longitudinal feed power	N	10.000
Cross feed power	N	7.000
Rapid traverse rate X/Z	m/min	10/7

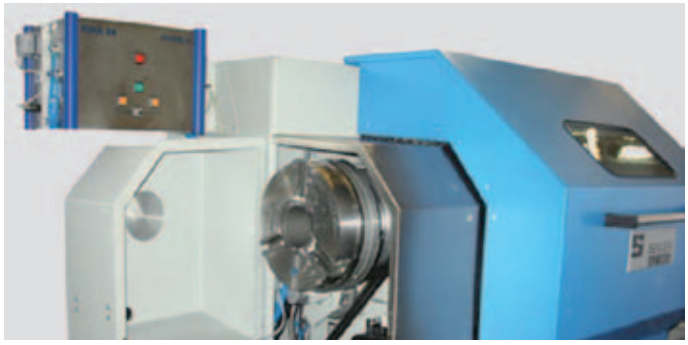
SLZ 570 E

CAPACITY

Swing over bed	mm	570
Swing over cross slide	mm	340
Cross slide travel X-axis	mm	290
Width over bedways	mm	350
Spindle nose DIN 55027	size	8
Spindle bore	mm	93
Spindle dia. in front bearing	mm	130
Taper hole of spinde	MT	100
Tailstock quill diameter	mm	90
Tailstock quill travel	mm	180
Tailstock quill taper	MT	5
Distance between centers	mm	1.000/1.500 2.000

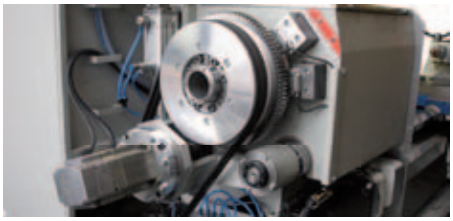
SPEED RANGE AND POWER

Mainmotor 100/60% ED	KW	20/25
Speed range	Rpm	1 – 3.000
Torque without gear	Nm	approx. 500
Torque with gear	Nm	approx. 1.400
Longitudinal feed power	N	10.000
Cross feed power	N	7.000
Rapid traverse rate X/Z	m/min	10/7



OPTION
Additional chuck at the end of the spindle, operated pneumatically.

Solid saddle
with direct travel measuring system on the X-axis (glass-scale).



OPTION
C-axis with digital servo motor, gear drive swiveling in pneumatically or hydraulically.

SLZ 620 E

High accuracy and rigidity of the spindle by precision bearing arrangement and standard spindle bore diameter 93 mm.

Safety clutch in X- and Z-axis.

Electrically-operated 2 step gear.

Robust tailstock with a quill diameter 90 mm and taper MT 5.

CAPACITY

Swing over bed	mm	660
Swing over cross slide	mm	435
Cross slide travel X-axis	mm	375
Width over bedways	mm	400
Spindle nose DIN 55027	size	8
Spindle bore	mm	93
Spindle dia. in front bearing	mm	130
Taper hole of spinde	MT	100
Tailstock quill diameter	mm	90
Tailstock quill travel	mm	180
Tailstock quill taper	MT	5
Distance between centers	mm	1.000/2.000 3.000

SPEED RANGE AND POWER

Mainmotor 100/60% ED	KW	22/30
Speed range	Rpm	1–2.500
Maximal torque	Nm	approx. 2.000
Longitudinal feed power	N	14.000
Cross feed power	N	10.000
Rapid traverse rate X/Z	m/min	10/8

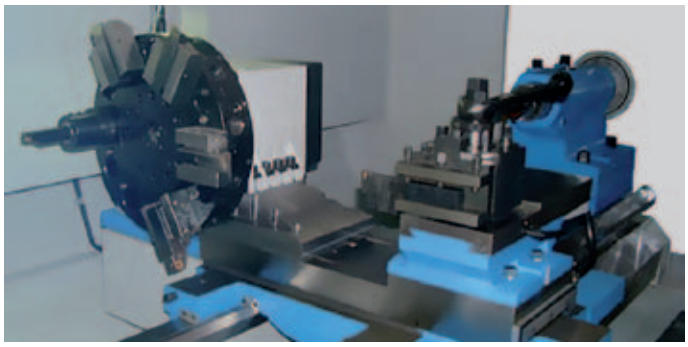
SLZ 700 E

CAPACITY

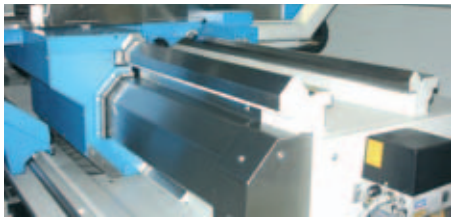
Swing over bed	mm	730
Swing over cross slide	mm	450
Cross slide travel X-axis	mm	390
Width over bedways	mm	480
Spindle nose DIN 55027	size	11
Spindle bore	mm	130
Spindle dia. in front bearing	mm	170
Tailstock quill diameter	mm	115
Tailstock quill travel	mm	225
Tailstock quill taper	MT	6
Distance between centers	mm	1.500–4.000

SPEED RANGE AND POWER

Mainmotor 100/60% ED	KW	22/30
Speed range	Rpm	1–2.200
Maximal torque	Nm	approx. 2.200
Longitudinal feed power	N	16.000
Cross feed power	N	14.000
Rapid traverse rate X/Z	m/min	7/6



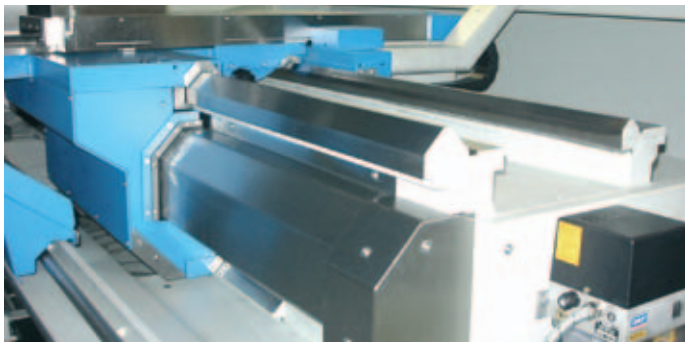
OPTION ON CUSTOMER'S REQUEST
8-station disc-type turret behind the rotation center and 4-station horizontal turret, hand-operated, in front of the rotation center.



Torsion-resistant bed of high quality cast iron with hardened, fine grinded guideways and glass-scale in X-axis, apron guideways as additional reinforcement at the front.

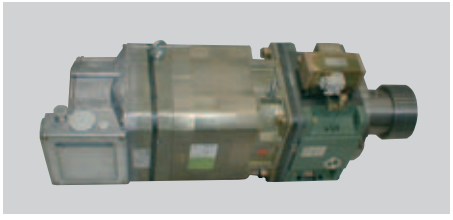
Safety clutch in X- and Z-axis.

SLZ 800 E



Torsion-resistant bed of high quality cast iron with hardened, fine grinded guideways and glass-scale in X-axis, additional reinforcement at the front.

Safety clutch
in X- and Z-axis.



Electrically operated 2 step gear.

CAPACITY

Swing over bed	mm	810
Swing over cross slide	mm	540
Cross slide travel X-axis	mm	400
Width over bedways	mm	480
Spindle nose DIN 55027	size	11
Spindle bore	mm	130
Spindle dia. in front bearing	mm	170
Tailstock quill diameter	mm	115
Tailstock quill travel	mm	225
Tailstock quill taper	MT	6
Distance between centers	mm	1.500–8.000

SPEED RANGE AND POWER

Mainmotor 100/60% ED	KW	22/30
Speed range	Rpm	1–1.800
Maximal torque	Nm	approx. 3.200
Longitudinal feed power	N	18.000
Cross feed power	N	14.000
Rapid traverse rate X/Z	m/min	7/6

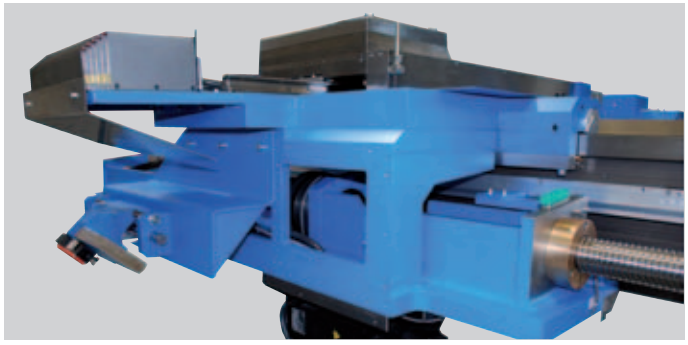
SLZ 850 E

CAPACITY

Swing over bed	mm	850
Swing over cross slide	mm	490
Cross slide travel X-axis	mm	500
Width over bedways	mm	560
Spindle nose DIN 55027	size	11
Spindle bore	mm	130
Spindle dia. in front bearing	mm	190
Tailstock quill diameter	mm	160
Tailstock quill travel	mm	315
Tailstock quill taper	MT	6
Distance between centers	mm	1.000–15.000

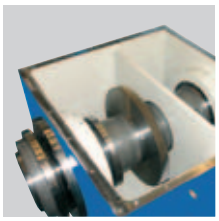
SPEED RANGE AND POWER

Mainmotor 100/60% ED	KW	37/46
Speed range	Rpm	1–1.200
Maximal torque	Nm	approx. 6.000
Longitudinal feed power	N	20.000
Cross feed power	N	16.000
Rapid traverse rate X/Z	m/min	7/4

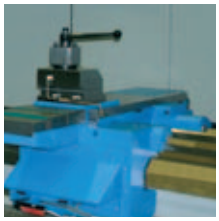


Robust apron with driven nut at a center distance of 6.000 mm.

Electrically operated 2 step gear.

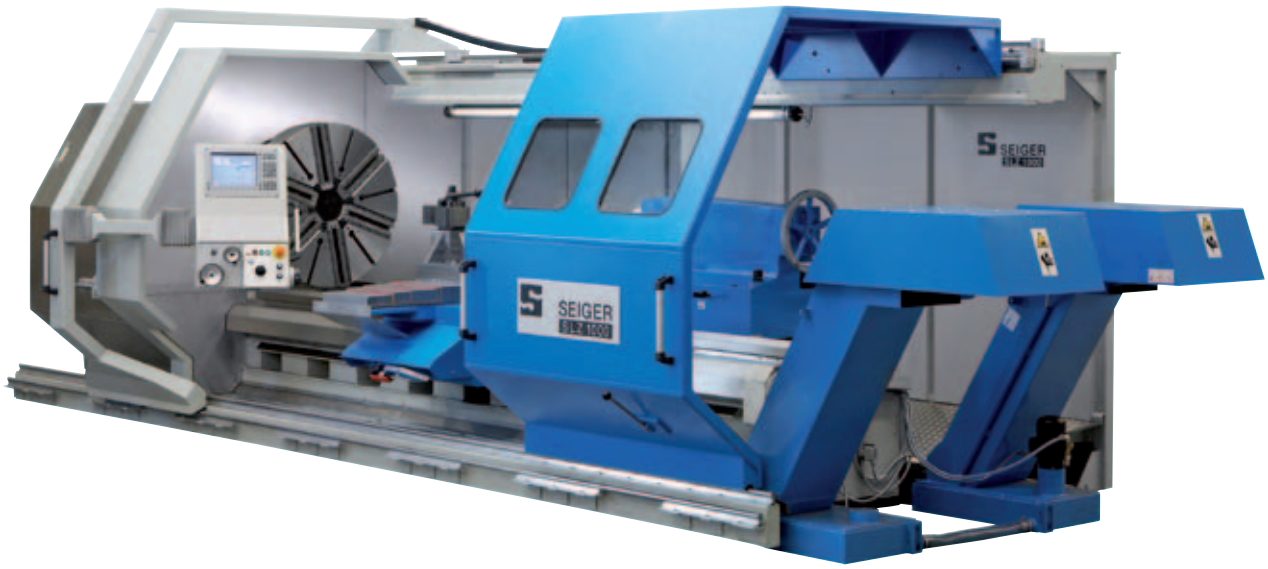


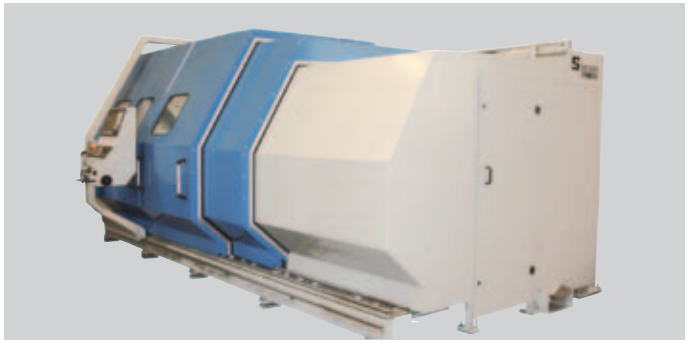
Compact casting headstock with main spindle supported by 3 bearings. Spindle bore diameter: 130 mm.



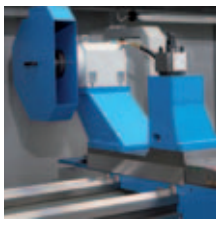
Torsion resistent box-type bed, with double V-guideways, made of cast iron with hardened fine grinded guideways and glass scale in X-axis. Bed-width: 560 mm.

SLZ 1000 E





OPTION Avaiable with complete covering and visiport.



OPTION
Grinding unit behind the rotation center and a hand-operated 4-station toolholder in front of the rotation center.

Torsion-resistant box-type bed, with double V-guideways, made of high quality cast iron with hardened, fine-grinded guide-way and glass-scale in X-axis.

Electrically-operated 2 step gear.

CAPACITY

Swing over bed	mm	1.010
Swing over cross slide	mm	650
Cross slide travel X-axis	mm	600
Width over bedways	mm	750
Spindle nose DIN 55027	size	11
Spindle bore	mm	130
Spindle dia. in front bearing	mm	190
Tailstock quill diameter	mm	160
Tailstock quill travel	mm	315
Tailstock quill taper	MT	6
Distance between centers	mm	1.000–15.000

SPEED RANGE AND POWER

Mainmotor 100/60% ED	KW	37/52
Speed range	Rpm	up to 900
Maximal torque	Nm	approx. 7.000
Longitudinal feed power	N	24.000
Cross feed power	N	16.000
Rapid traverse rate X/Z	m/min	7/4

SLZ 1200 E

CAPACITY

Swing over bed	mm	1.250
Swing over cross slide	mm	850
Cross slide travel X-axis	mm	680
Width over bedways	mm	750
Spindle nose DIN 55027	size	11
Spindle bore	mm	130
Spindle dia. in front bearing	mm	190
Tailstock quill diameter	mm	160
Tailstock quill travel	mm	315
Tailstock quill taper	MT	6
Distance between centers	mm	1.000–15.000

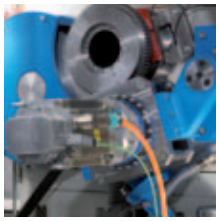
SPEED RANGE AND POWER

Mainmotor 100/60% ED	KW	37/46
Speed range	Rpm	up to 710
Maximal torque	Nm	approx. 9.000
Longitudinal feed power	N	24.000
Cross feed power	N	16.000
Rapid traverse rate X/Z	m/min	7/4

At a center distance starting with 6.000 mm a solid rack and a gear with gear wheels tensed against each other.

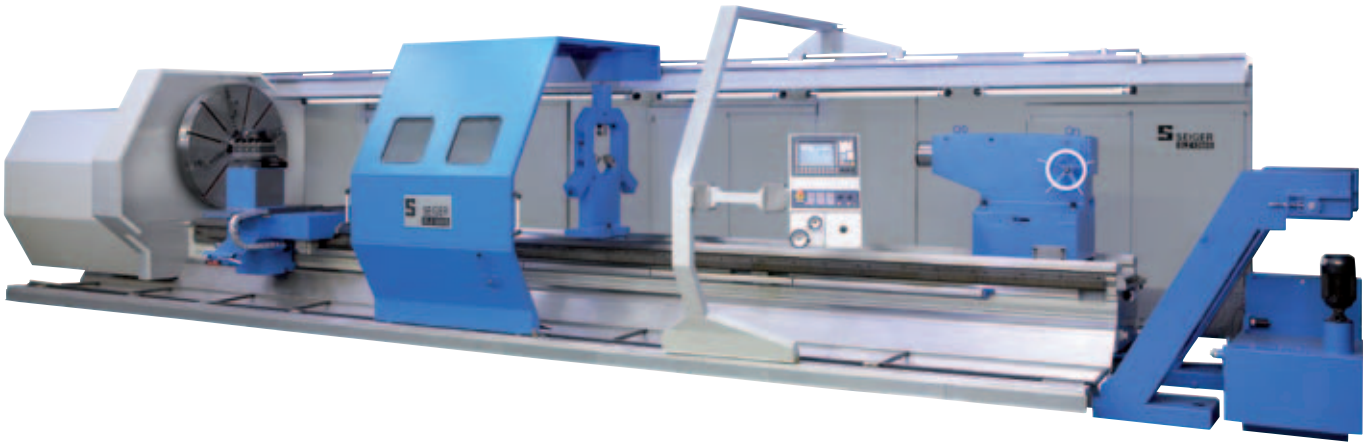
Electrically-operated 2 step gear.

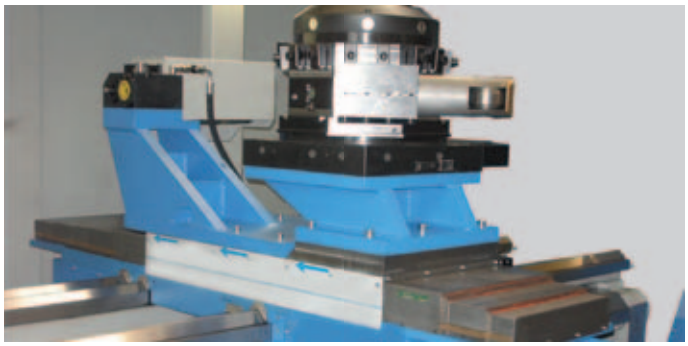
Torsion-resistant bed of high quality cast iron with hardened, fine-grinded guide-ways and glass-scale in X-axis, apron guide-ways as additional reinforcement at the front.



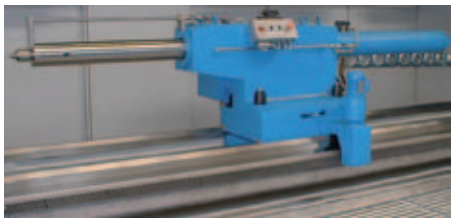
OPTION
C-axis with digital servo motor, gear drive swiveling in hydraulically.

SLZ 1200 S





OPTION
8-station horizontal turret in front of the rotation center and driven tools behind the rotation center.



OPTION
Tailstock electrically moveable, hydraulically clampable and hydraulic sleeve with a travel of 1.000 mm.

CAPACITY

Swing over bed	mm	1.250
Swing over cross slide	mm	850
Cross slide travel X-axis	mm	700
Width over bedways	mm	900
Spindle nose DIN 55027	size	15
Spindle bore	mm	110
Spindle dia. in front bearing	mm	240
Tailstock quill diameter	mm	220
Tailstock quill travel	mm	315
Tailstock quill taper	MT	dead center
Distance between centers	mm	3.000–15.000

SPEED RANGE AND POWER

Mainmotor 100/60% ED	KW	55/70
Speed range	Rpm	up to 710
Maximal torque	Nm	approx. 12.000
Longitudinal feed power	N	30.000
Cross feed power	N	20.000
Rapid traverse rate X/Z	m/min	6/4

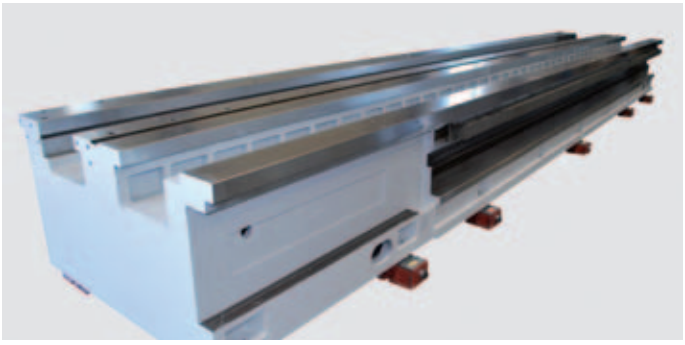
SLZ 1500

CAPACITY

Swing over bed	mm	1.600
Swing over steel cover	mm	1.500
Swing over cross slide guideway	mm	1.240
Cross slide travel X-axis	mm	680
Width over bedways	mm	1.350
Spindle nose DIN 55027	size	15
Spindle bore	mm	110
Spindle dia. in front bearing	mm	240
Tailstock quill diameter	mm	220
Tailstock quill travel	mm	350
Tailstock quill taper	MT	dead center
Distance between centers	mm	3.000–15.000

SPEED RANGE AND POWER

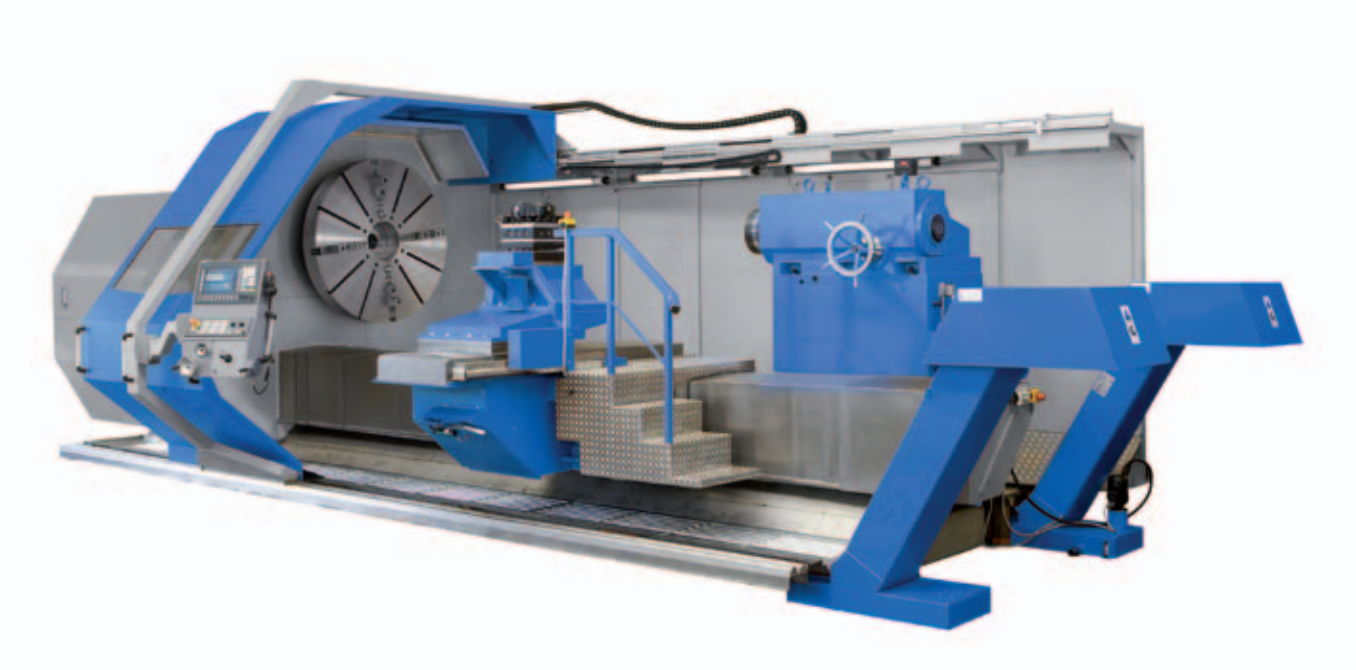
Mainmotor 100/60% ED	KW	55/70
Speed range	Rpm	up to 710
Maximal torque	Nm	approx. 12.000
Longitudinal feed power	N	35.000
Cross feed power	N	25.000
Rapid traverse rate X/Z	m/min	6/4

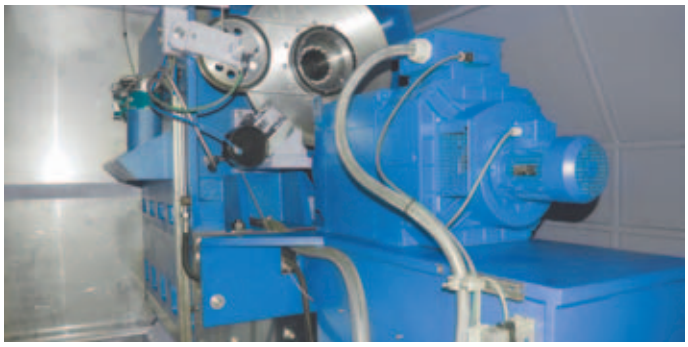


Torsion-resistent 4-way-box-type bed with hardened fine-grinded guideways and glass scale in X-axis. Bed-width: 1.350 mm.

OPTION
12-station disc-type turret for driven tools
Y-axis ± 65 mm.

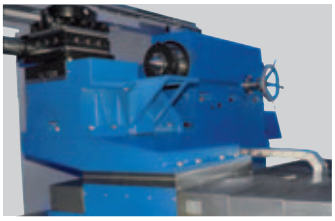
SLZ 2000





Main drive 70 KW build up on its own panel and basement.
The entrance into the headstock is carried out without belt drive.
Capacity 21.000 Nm torque at the spindle.

Headstock as compact cast housing with a gear drive inside. Hydraulic switchable.
Main spindle with 3 bearings and equipped with a circuit lubrication. Diameter of the spindle in front bearing: 300 mm.



Solid saddle with hardened guiding and a direct distance measurement. Telescopic cover in front and at the rear. Stairs for setup work.

CAPACITY

Swing over bed	mm	2.000
Swing over steel cover	mm	1.900
Swing over cross slide guideway	mm	1.400
Cross slide travel X-axis	mm	1.000
Width over bedways	mm	1.350
Spindle nose DIN 55026	size	20
Spindle bore	mm	120
Spindle dia. in front bearing	mm	300
Tailstock quill diameter	mm	320
Tailstock quill travel	mm	250
Tailstock quill taper	MT	dead center
Distance between centers	mm	3.000–15.000

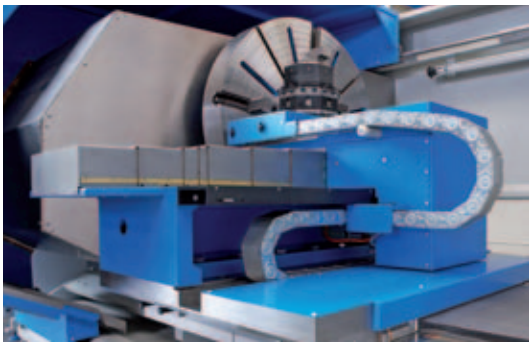
SPEED RANGE AND POWER

Mainmotor 100/60% ED	KW	55/70
Speed range	Rpm	450
Maximal torque	Nm	approx. 21.000
Longitudinal feed power	N	35.000
Cross feed power	N	25.000
Rapid traverse rate X/Z	m/min	6/4

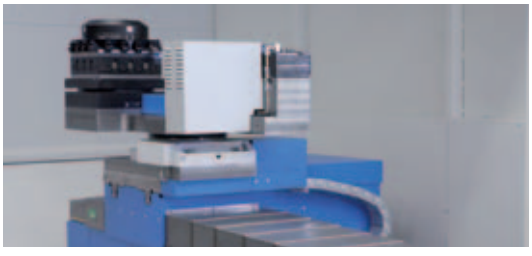
SPL 1400-LC

CAPACITY		STANDARD	OPTION UP TO
Swing diameter in the bridge	mm	1.400	2.300
Cross stroke	mm	740	1.200
Turning diameter	mm	1.400	2.000
Longitudinal stroke above upper carriage	mm	400	800
Spindle nose DIN 55027	size	11	DIN 55026 / 20
Spindle bore	mm	130	460

SPEED RANGE AND POWER			
Mainmotor 100/60% ED	KW	37/46	54/70
Speed range	Rpm	1 – 700	
Torque without gear	Nm	approx. 9.000	approx. 12.000
Longitudinal feed power	N	20.000	30.000
Cross feed power	N	16.000	24.000
Rapid traverse rate X/Z	m/min	7/4	



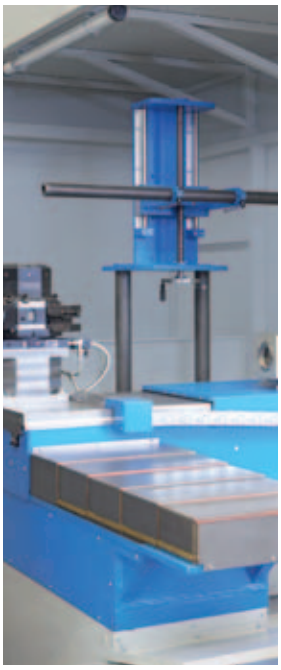
OPTION
Different toolslides, different travel distances on the X and Z-axes.



OPTION
Special assembly with swiveling table: to one side 4-station horizontal turret, opposite digital tool drive with Capto adapter for driven tools.

SPL 1400-CG

OPTION
Access door at the back for setup and placing of a parts catcher.



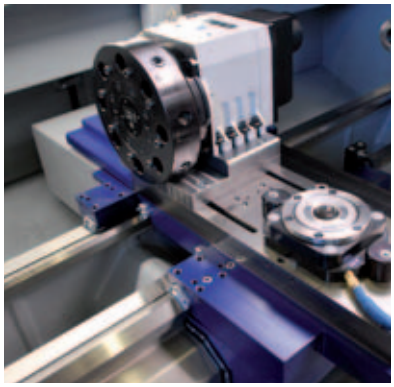
OPTION
Special model: Parts catcher for plastic rings and a chipper for chips on the top slide.

CAPACITY		STANDARD	OPTION UP TO
Swing diameter in the bridge	mm	1.400	2.300
Cross stroke	mm	400	1.200
Turning diameter	mm	800	2.000
Longitudinal stroke above upper carriage	mm	300	800
Spindle nose DIN 55027	size	11	DIN 55026 / 20
Spindle bore	mm	130	460

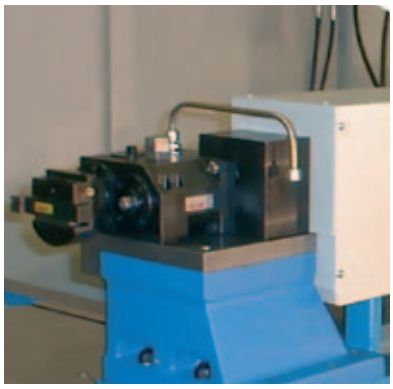
SPEED RANGE AND POWER			
Mainmotor 100/60% ED	KW	22/30	54/70
Speed range	Rpm	1 – 1.200	
Torque without gear	Nm	approx. 3.200	approx. 12.000
Longitudinal feed power	N	20.000	30.000
Cross feed power	N	16.000	24.000
Rapid traverse rate X/Z	m/min	7/4	

EXTRA EQUIPMENT

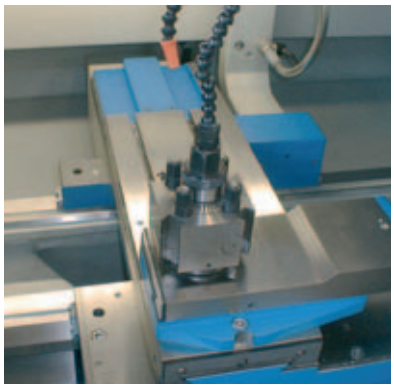
To optimize your production SEIGER offers a variety of special accessories. Make use of our experience. Feel free to contact our team of professional consultants.



Quick-change pallet system for installation in front of or behind the turning center. Clamping and release via push-button. Holding fixture for different components, such as tool holder, processing unit etc.



WTO-driven tool system with CAPTO tool fixture.

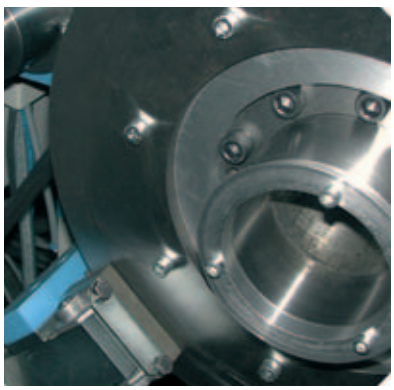


PARAT 4-station hand- operated horizontal turret with centralized coolant attachment.

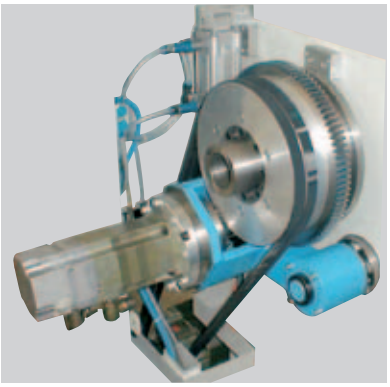
SAUTER 8-station disc-type tool turret with driven tools.

SAUTER 8-station disc-type tool turret with or without driven tools.

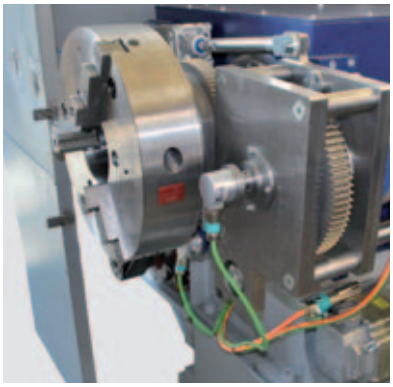
SAUTER 4-station horizontal turret.



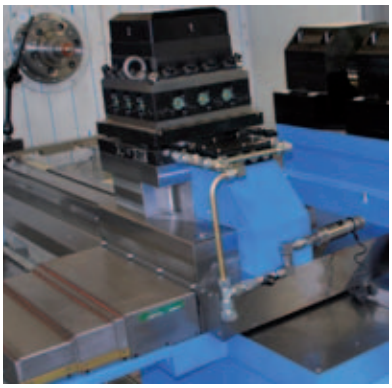
Main spindle brake incl. additional software for pitch circle processing.



C-axis with digital motor, hydraulically or pneumatically swivel connection.



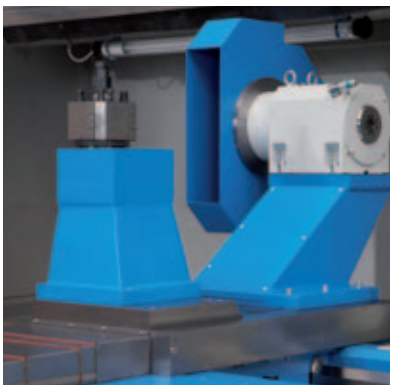
C-axis and second chuck flange with chuck at the end of the spindle.



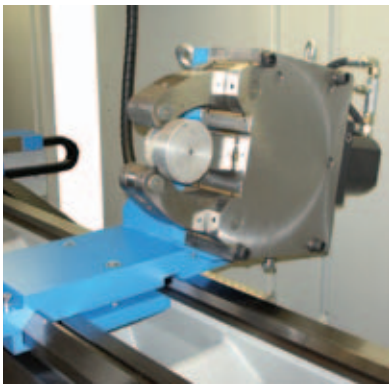
Clamping bearing for boring bars with changeable bearing inserts for different diameters. 2 clamping points and additional guiding on the bed slide. Installed behind the turning center.

Hand-operated quick-action collet chuck.

Tailstock electric movable via gear motor and rack, in this case with hydraulic tailstock, hydraulic sleeve and clamping on the bed.



Grinding unit behind the turning center for grinding wheels up to diameter 600 mm.



Hydraulically self-centering steadyrest.

Need more information?
You can reach us via phone or e-mail:

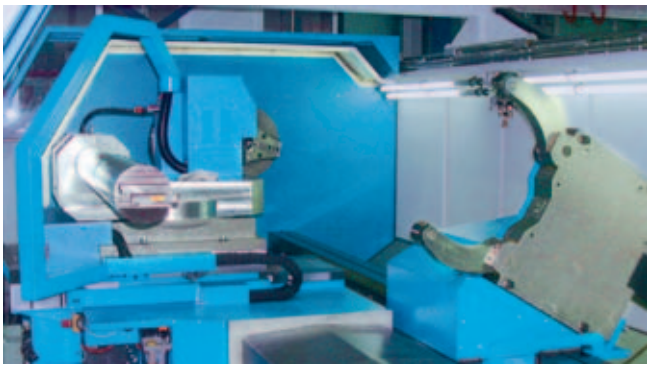
+ 49 (0) 29 41 28 56-0

info@seiger.de

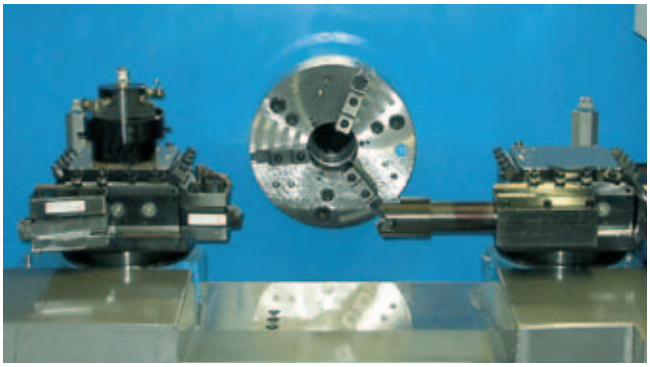
SPECIAL DESIGNS

Due to our in-house production depth we are in the position to offer in addition to the standard range tailor-made solutions especially for your application. From a modular system of different components we can realize special solutions at market competitive prices. In the following you will find some examples of our lathe manufacture.

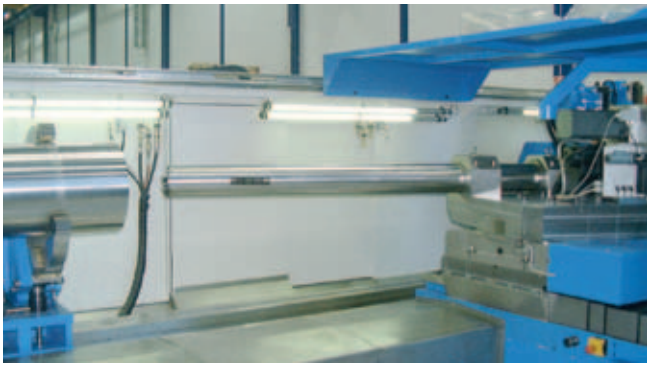
SLZ 1500
12-station disc-type tool turret equipped with driven tools. Hydraulically selfcentering steadyrest, electrically moveable.



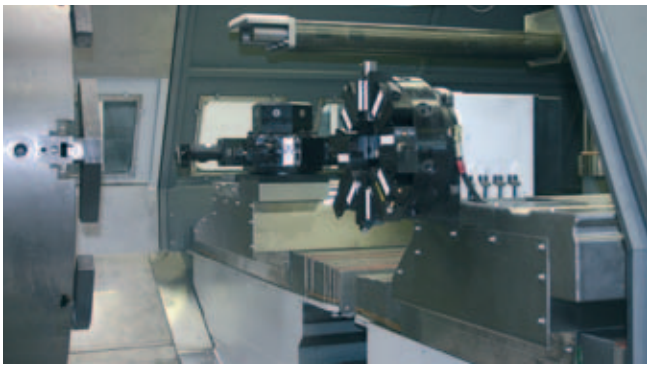
SLZ 850
Two 4-station horizontal tool turrets with 900 mm tool to tool distance. Special carriage according to customers specifications.



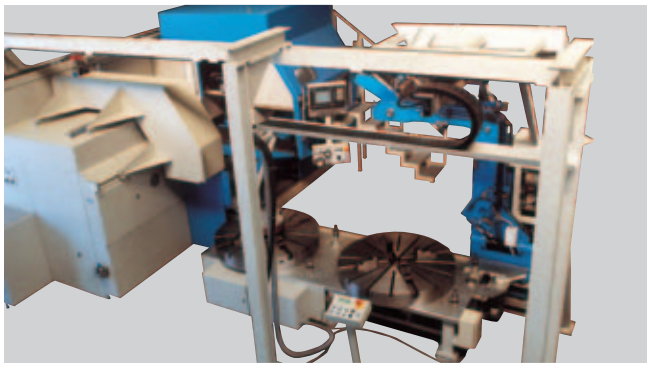
SLZ 1500
Boring bar length = 1.800 mm, mounted on swivel table with disc-type tool turret in opposite position.



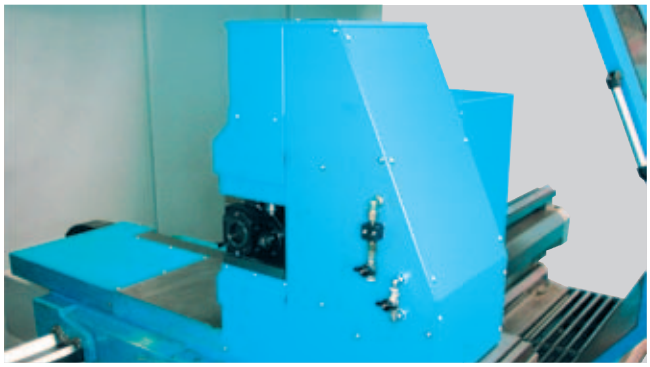
Facing lathe SPL 4-axis machine.
Special solution on customer's request.
Two independent X- and Z-axes including workpiece catcher, CNC control.



SLZ 1200
Face plate changing mechanism, 30-station revolving magazin for fixed or driven tools.



SLZ 850
WTO-tool holder equipped with Y-axis.

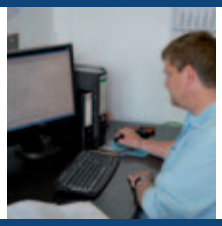


Drehen mit...®

SEIGER Drehmaschinen

Success with five Stars!

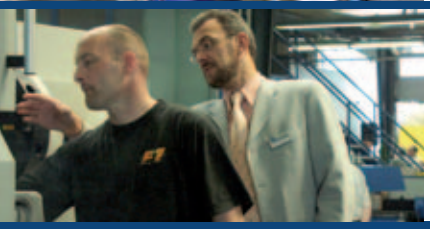
Lathes made in Germany: SEIGER offers excellent machines, development, production and setting up of the products. Furthermore we offer consulting and service—everything in our own company! A key advantage for you.

Individual development and construction

Own production

Special designs



Training and support


Service and spare parts

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02/2013 | Technical changes and errors expected.