

**Pick up  
lathe**  
**P-Series**

**Economic. Effective.  
Productive.**



**Single- / double-spindle  
pick up lathe  
with internal and external grinding  
option for soft and hard machining**

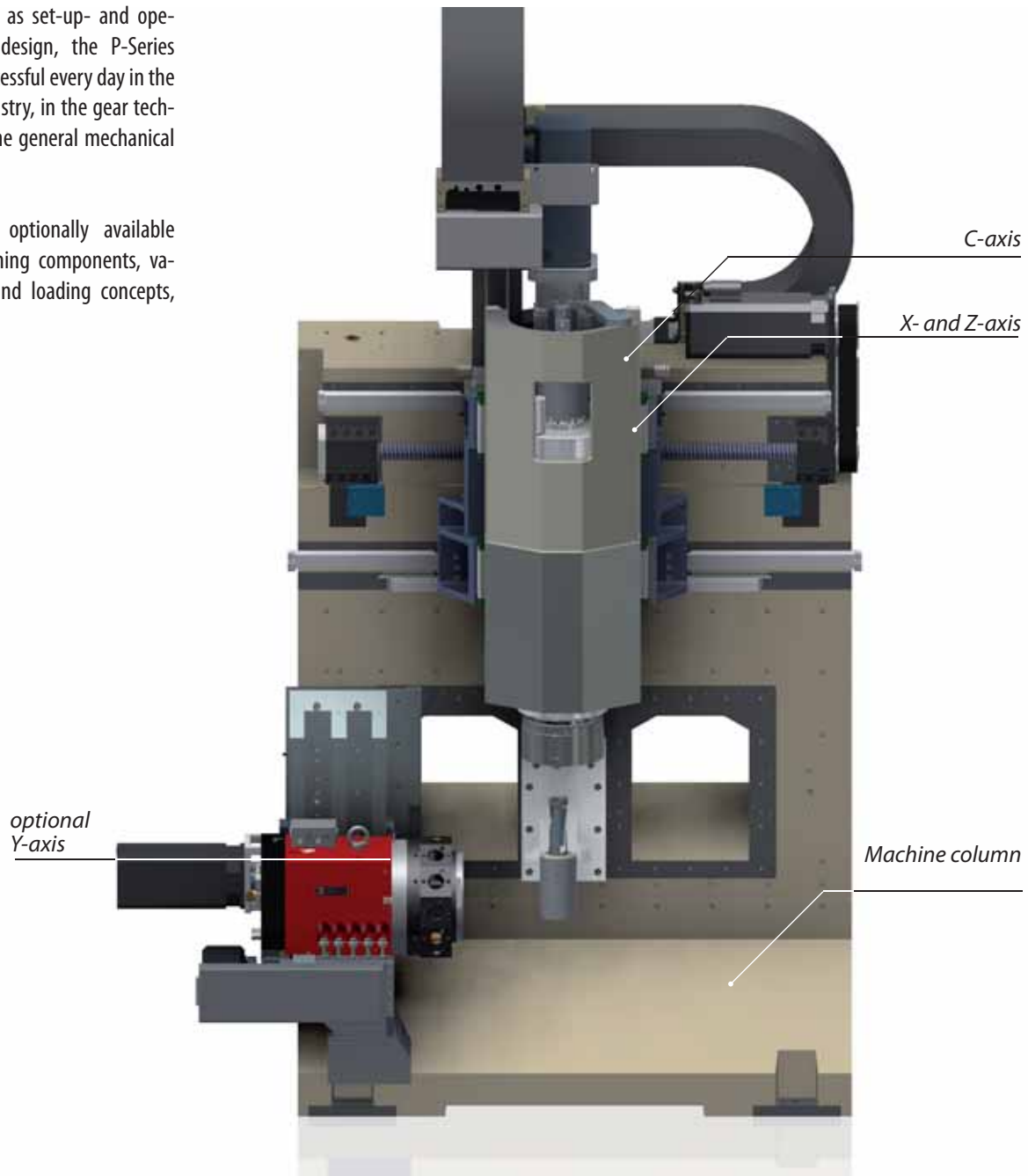
## P-Series – The concept Economic. Effective. Productive.

Based on a thermally stable mineralit machine column, the motor spindle has been designed as pick-up principle.

Owing to shortest chip to chip times, optimal accessibility, compact construction as well as set-up- and operator- friendly design, the P-Series proves itself successful every day in the automobile industry, in the gear technology and in the general mechanical engineering.

Equipped with optionally available different machining components, various spindles and loading concepts,

the range of application of the P-Series starts from the single-/double-spindle soft machining up to the complex hard machining incl. grinding operations.



## P-Series – The economic efficiency

### Single-spindle pick-up lathe P30

In standard the P30 is equipped with a motor spindle, with a VDI40 turret and with a belt and is appropriate for components up to a turning diameter of 250 mm (opt. 300 mm). Because of different loading and unloading possibilities, robot interlinkage, y-axis or drilling / deburring stations, the P30 can be equipped individually, according to the customer's requirements.

Additional features are the patented chip-guarded and splash-proof loading and unloading station in the working area as well as the attainable, high-precision accuracies in case of hard turning.

As an option, the P30 is also available in the following specifications:

P30L: with enlarged machining space

P40: for components up to a diameter of 380 mm



## P-Series – The efficiency

### Pick-up lathe with integrated grinding operation: P30 DSS

Equipped with an internal and an external grinding spindle in addition to the VDI40 turret, the P30 DSS will be used for hard machining of gears up to diameter of 350 mm.

As the motor spindle can be moved over the complete X-axis, wheel-shaped workpieces can be machined

completely in only one clamping. In this case, the extremely compact design guarantees fast cycle times combined with a highly-dynamical and accurate process.

As an option, the P30 is also available in the following specification:

P30 DS:

Alternatively with an internal or with an external grinding spindle for components up to a diameter of 250 mm.



## P-Series – The productivity PD30 as productive double-spindle pick up lathe

In compact design, almost as a single-spindle machine, the PD30 will be used as double-spindle machine for the classical two-sided machining as well as for the production of very high volumes of disk-shaped components up to a diameter of 250 mm.

Owing to the flexible and compact design, different loading concepts can be realized utilizing minimum space. The workpiece turnover unit, integrated (and protected) in the working area, guarantees an accurately positioned component transfer as well as a straight and effective component handling.

As an option, the PD30 is also available in following specification:

PD30 twin:

Simultaneous machining of 2 workpieces with identical operating processes as well as simultaneous loading and unloading for workpieces up to a diameter of 250 mm.



## P-Series – Technical specifications

	Single-spindle machines			with grinding option		double-spindle machine	
	P30	P40	P30 DS	P30 DSS	PD30		
<b>Working space</b>							
Max. chuck diameter	mm	400	315	400	315	400	315
Max. workpiece diameter	mm	380	250	350	250	350	250
<b>Number of spindles</b>	1	1	1	1	1	1	2
<b>Main spindle</b>							
Spindle speed	min -1	6000 / (4500)	3500	6000 / (4500)	6000 / (4500)	6000 / (4500)	6000 / (4500)
Spindle power ED 100% (S1)	KW	26 / (28,3)	48	26 / (28,3)	26 / (28,3)	26 / (28,3)	26 / (28,3)
Torque ED 100% (S1)	Nm	150 / (300)	630	150 / (300)	150 / (300)	150 / (300)	150 / (300)
Spindle nose	DIN	55026 - A6	55026 - A8	55026 - A6	55026 - A6	55026 - A6	55026 - A6
<b>C-axis</b>							
Positioning accuracy	arsec	10	10	10	10	10	10
<b>Number of turret(s)</b>	1	1	1	1	1	1	2
<b>Turret</b>							
Number of tool positions:		12	12	12	12	12	12
Turret switching time	sec.	0,2	0,2	0,2	0,2	0,2	0,2
Tool holder	DIN 69880	VDI 40	VDI 40	VDI 40	VDI 40	VDI 40	VDI 40
Driven tools		optional	optional	optional	optional	optional	optional
Speed	min -1	10000	10000	10000	10000	10000	10000
<b>Internal grinding</b>							
		no	no	no/yes	yes	yes	no
<b>External grinding</b>							
		no	no	yes/no)	yes	yes	no
		45	45	50	50	50	50
<b>Feed axis Z</b>							
Rapid traverse	m/min	50	450	50	370	370	370
Travel	mm	370	D 50x20	370	D 40x20	D 40x20	D 40x20
Ball screw	mm	D 40x20		D 40x20		D 40x20	D 40x20
		60	60	60	60	60	60
<b>Feed axis X</b>							
Rapid traverse	m/min	60	D 50x20	60	D 50x20	D 50x20	D 50x20
Ball screw	mm	D 50x20		D 50x20		D 50x20	D 50x20
<b>Dimensions</b>							
Depth	mm	2800	2800	2800	2800	2800	2800
Width	mm	2825	3500	2825	3500	3500	3500
Height	mm	2790	3100	2790	2790	2790	2790
<b>Control</b>							
		Siemens 840 D sl					Siemens 840 D sl

## Our product range

Vertical Turning

Impact cutting

F-Series: Flexible turning cells

Custom machines  
Transfer lines

P-Series: Pick Up lathes

Automation

V-Series: Vertical turning cells

Engineering  
with passion

