

Lathes

OPTI D 240 x 500 G / OPTI D 280 x 700 G

Lathes with feedgear mechanism for the demanding user.

“VARIO” - model also incorporates continuous speed control with frequency converter “Made in Germany”

Convincing arguments: quality, efficiency and price

- Main spindle hardened and bedded in adjustable precision taper roller bearings
- Hardened spindle nose (DIN 55021)
- Guaranteed concentricity precision of the main spindle less than 0.009 mm
- Smooth running feed gear with rounded oil-quenched gearwheels
- Taper roller bearing in P5 quality
- Rolled trapeziod spindle
- Thrust bearing
- Leadscrew run on two porous bearings
- Easy and fast speed change
- Wide threading range due to change gear kit
- Leadscrew for threading or automatic straight turning
- Prismatic base made of grey cast iron inductively hardened precision ground
- All guideways adjustable without clearance due to tapered gibs
- Powerful, maintenance-free motor
- Automatic off-switch (IP 54 compliant) for easy operation, with undervoltage release, lockable emergency stop switch and right-left-hand rotation
- Manufactured to DIN 8606 (toolmaker's precision)
- Cost-efficient, precise and of stable value



“The high-grade performed D 240 x 500 G Vario of Optimum is easy to operate and opens up any possibilities of turning from tapers over shaft up to spherical objects. There is fairly any thing else, a proud owner might desire.”
Upshot of Heimwerker Test



Model	D 240 x 500 G	D 280 x 700 G
Item No. (230 V)	342 5001	342 7001
€ (VAT excl.)	1,390.00	1,790.00
Item No. (400 V)	342 5003	342 7003
€ (VAT excl.)	1,390.00	1,790.00

D 240 x 500 G - Illustration with optimum digital measuring system MPA 3 and measuring gib refer to page 48

Model	D 240 x 500 G Vario*	D 280 x 700 G Vario*
Item No. (230 V)	342 5004	342 7004
€ (VAT excl.)	1,990.00	2,550.00

Technical data		
Centre height	125 mm	140 mm
Distance between centres ¹⁾	620 mm	700 mm
Turning diameter (max.)	250 mm	280 mm
Spindle hole	26 mm	26 mm
Spindle taper	MT 4	MT 4
Spindle speeds	125 - 2,000 rpm	150 - 2,000 rpm
Number of steps	6 steps	6 steps
*Spindle speeds Vario	20 - 2,500 rpm	20 - 2,500 rpm
Pitch - Metric	0.2 - 3.5 mm/rev	0.2 - 3.5 mm/rev
Pitch - Inch	8 - 56 TPI	8 - 56 TPI
Longitudinal feeds	0.07 - 0.2 mm/rev	0.07 - 0.2 mm/rev
Top slide travel ¹⁾	75 mm	60 mm
Cross slide travel ¹⁾	110 mm	160 mm
Tailstock taper	MT 2	MT 2
Tailstock sleeve travel	65 mm	60 mm
Motor power 50 Hz	750 W	850 W
Dimensions L x W x H	1,100 x 540 x 480 mm	1,400 x 600 x 500 mm
Net weight	125 kg	180 kg

Optional accessories:

Substructure
with lockable doors and shelves for cabinet furniture
D 240 x 500 G
LxWxH: 1,000 x 300 x 750 mm

D 280 x 700 G
LxWxH: 1,165 x 320 x 750 mm



Extent of supply:

- 3-jaw chuck Ø 125 mm
- Steady centre MT2
- Steady centre MT4
- Lathe chuck protection
- Lathe dog
- HSS cutting tools

- Rear splash guard
- Chip pan
- Quadruple tool holder
- Operating tools
- Change gear kit
- Test certificate

¹⁾ Travels are reduced when using measuring gibs for digital displays



Optional accessories
Digital magnetic measuring system
MPA 3 refer to page 48

- Main spindle hardened and bedded in adjustable precision taper roller bearings
- Short taper, hardened spindle nose with a spindle hole of 26 mm
- Smooth running feed gear with rounded oil-quenched gearwheels
- Two taper roller bearings in P5 quality

- Precision-machined slide
- Handwheels with adjustable precision scaling of 0.04/0.01 mm
- Quadruple tool holder
- All guideways adjustable without clearance due to tapered gibs
- Rolled trapezoid spindle

- Tailstock adjustable for taper turning
- Tailstock sleeve and handwheel with adjustable precision scaling of 0.02 mm



D 280 x 700 G

- Change gear kit for threading
- Easy and fast speed change via V-belts



- Induction-hardened and precision-ground prismatic bed made of grey cast iron (HRC 42-52)

- Leadscrew run on two porous bearings



Accessories D 240 x 500 G	Item No.	€(VAT excl.)
■ Face plate Ø 240 mm	344 1352	50.00
■ Lathe chuck flange Ø 125 mm	344 1311	65.00
■ Steady rest	344 1315	45.00
■ Follow rest	344 1310	45.00
■ Revolving centre MT2	344 0702	45.00
■ Cutting tool kit 11 pcs., 10 mm	344 1108	59.90
■ Cutting tool kit 7 pcs., 10 mm	344 1111	110.00
■ Collet chuck kit ER 25, 15 pcs. 1 - 16mm	344 1109	240.00
■ Collet chuck kit ER 32, 18 pcs. 3 - 20 mm	344 1122	260.00
■ Draw-in collet chuck ER 25	344 1305	90.00
■ Draw-in collet chuck ER 32	344 1306	99.00
■ Quick-action tool holder SWH 1-A	338 4301	350.00
■ Factory assembly and adaptation SWH	900 0401	60.00
■ Substructure (unmounted)	344 0507	230.00
■ Digital magnetic measuring system MPA 3 kit	338 3903	799.00
■ Assembly MPA 3 with assembly material	900 0420	580.00

More accessories from page 42 onwards

Accessories D 280 x 700 G	Item No.	€ (VAT excl.)
■ Face plate Ø 260 mm	344 1452	60.00
■ Lathe chuck flange Ø 125 mm	344 1311	65.00
■ Lathe chuck flange Ø 160 mm	344 1413	79.00
■ Steady rest	344 1415	55.00
■ Follow rest	344 1410	55.00
■ Revolving centre MT2	344 0702	45.00
■ Cutting tool kit 11 pcs., 10 mm	344 1108	59.90
■ Cutting tool kit 7 pcs., 10 mm	344 1111	110.00
■ Collet chuck kit ER 25, 15 pcs. 1 - 16mm	344 1109	240.00
■ Collet chuck kit ER 32, 18 pcs. 3 - 20 mm	344 1122	260.00
■ Draw-in collet chuck ER 25	344 1305	90.00
■ Draw-in collet chuck ER 32	344 1306	99.00
■ Quick-action tool holder SWH 1-A	338 4301	350.00
■ Substructure (unmounted)	344 1407	260.00
■ Factory assembly and adaptation SWH	900 0401	60.00
■ Digital magnetic measuring system MPA 3 kit	338 3903	799.00
■ Assembly MPA 3 with assembly material	900 0420	580.00