

**NEW**

**Vario machines  
with brushless  
motor**

## Lathes with feed gear mechanism for the demanding user.

“VARIO” - type with infinitely variable speed control for brushless motor

### Convincing arguments: quality, efficiency and price

- Hardened and ground slideways
- Guaranteed concentricity precision of the spindle nose better than 0.009 mm
- Vario type with smooth running and powerful DC drive with excellent control characteristics
- Concentricity precision at the lathe chuck better than 0.04 mm
- Emergency-stop button and low-voltage release
- With saddle slide, compound slide and top slide
- With leading spindle for threading or automatic longitudinal turning
- Handwheels on the slide with adjustable precision scaling of 0.04/0.01 mm
- Wide threading range due to change gear kit
- Smooth feed gear with rounded toothed wheels, running in the oil quench
- High-quality lathe chuck protection
- With change gear kit for threading
- Thrust bearing
- High-precision machining
- Leading spindle run on two porous bearings
- Right-/left-handed rotation switchable in the control panel
- High-performance, maintenance-free motor
- Chip protection at the top slide
- Heavily ribbed made of grey cast iron, inductively hardened (HRC 42-52) and precision ground
- Automatic longitudinal/leading spindle drive
- Rolled trapezoid spindles
- Test certificate
- Manufactured according to DIN 8606 (toolmaker's precision)
- Cost-efficient, precise and of stable value

Model	D 240 x 500 G	D 280 x 700 G
Item No (230 V)	342 5001	342 7001
Item No (400 V)	342 5003	342 7003
€ VAT excl.	<b>1'390.00</b>	<b>1'850.00</b>
Model	D 240 x 500 DC Vario	D 280 x 700 DC Vario
Item No (230 V)	342 5006	342 7006
€ VAT excl.	<b>1'990.00</b>	<b>2'390.00</b>
Features of performance		
Electrical connection		
Motor	750 W ~50 Hz	850 W ~50 Hz
Motor <i>Vario machines</i>	1.5 kW ~50 Hz	1.5 kW ~50 Hz
Machine data		
Center height	125 mm	140 mm
Center width	550 mm	700 mm
Turning Ø over lathe bed	250 mm	266 mm
Bed width	135 mm	180 mm
Spindle speed	125 - 2000 rpm	150 - 2000 rpm
Number of steps	6 steps	6 steps
Spindle speed <i>DC Vario machines</i>	30 - 4000 rpms	30 - 4000 rpm
Number of steps <i>DC Vario machines</i>	4 steps, infinitely variable	4 steps, infinitely variable
Spindle taper	MT4	MT4
Spindle hole	26 mm	26 mm
Top slide - travel	70 mm	60 mm
Compound slide - travel	110 mm	160 mm
Tailstock holding fixture	MT2	MT2
Tailstock sleeve travel	65 mm	85 mm
Longitudinal feed	0.07 - 0.2 mm/rev	0.07 - 0.2 mm/rev
Pitch - Metric	0.2 - 3.5 mm/rev	0.2 - 3.5 mm/rev
Pitch - Inch	56 - 8 threads/1"	56 - 8 threads/1"
Quadruple tool holder seat height	(max.) 13 mm	(max.) 13.5 mm
Dimensions		
Length x Width x Height	1250 x 585 x 475 mm	1370 x 640 x 535 mm
Length x Width x Height <i>DC Vario</i>	1250 x 675 x 475 mm	1370 x 780 x 535 mm
Net weight	125 kg	180 kg
Extent of supply		
3-jaw chuck Ø 125 mm, steady center MT2 Steady center MT4, splash board, chip tray, Lathe chuck protection, HSS cutting tool, lathe dog, quadruple tool holder Change gear kit, operating tool, test certificate		



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

Upshot of Heimwerker Test 05.2002

You want to retrofit your lathes to **CNC technology**?

**No problem!**

**Please find information  
about retrofitting  
from page 138 on**

D240 x 500 G  
D280 x 700 G

### Optional accessories

- Digital magnetic measuring system MPA 3-S  
Item No 338 3902; € 739,00 VAT excl.

**i** Detailed information for MPA 3-S on page 98

### Main spindle

- Hardened and bedded in adjustable precision taper roller bearings
- Two taper roller bearings of P5 quality
- Short taper, hardened spindle nose with a spindle holder of 26 mm

### Speed change

- Easy and rapid via V-belts
- Vario machines easy via potentiometers

### Digital speed display

- For Vario machines

### Feed gear

- Smooth running
- Rounded toothed wheels
- Running in a oil quench

### Slide

- Quadruple tool holder
- All guidings adjustable without clearance due to V-ledges
- Rolled trapezoid spindles
- Chip protection at the top slide

### Tailstock

- Adjustable by ± 5 mm for taper turning
- Tailstock spindle sleeve and handwheel with adjustable precision scaling of 0.02 mm
- Rapid and easy adjustment of the tailstock via clamping lever

### Optional accessories

#### Machine substructure with shelves

- **D 240 x 500 G:** L x W x H: 994 x 380 x 750 mm  
Item No 344 0507; € 230.00 VAT excl.
- **D 280 x 700 G:** L x W x H: 1160 x 380 x 750 mm  
Item No 344 1407; € 260.00 VAT excl.



Fig.: D 240 x 500 G

Fig.: D 280 x 700 DC Vario

Accessories D 240 x 500 G	Item No	€ VAT excl.
• Plane clamping disk 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 center MT2	344 0702	45.00
• Cutting tool HM 8 mm, 7 pcs.	344 1011	89.00
• Cutting tool 8 mm, 11 pcs.	344 1008	59.90
• Cutting tool HM 10 mm, 7 pcs.	344 1111	110.00
• Cutting tool 10 mm, 11 pcs.	344 1108	59.90
• Cutting tool HM 12 mm, 9 pcs.	344 1211	129.00
• Collet chuck kit ER 25, 1-16 mm	344 1109	149.00
• Collet chuck kit ER 32, 3-20 mm	344 1122	169.00
• 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	380.00
• Factory assembly SWH	900 0401	60.00
• Add-on adapter for assembly of upright and milling head of the BF20(L) Vario	335 6572	99.00
• Add-on adapter for assembly of upright and milling head of the BF16 Vario	335 6568	99.00

Accessories D 280 x 700 G	Item No	€ VAT excl.
• Plane clamping disk Ø 265 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 center MT2	344 0702	45.00
• Cutting tool HM 8 mm, 7 pcs.	344 1011	89.00
• Cutting tool 8 mm, 11 pcs.	344 1008	59.90
• Cutting tool HM 10 mm, 7 pcs.	344 1111	110.00
• Cutting tool 10 mm, 11 pcs.	344 1108	59.90
• Cutting tool HM 12 mm, 9 pcs.	344 1211	129.00
• Collet chuck kit ER 25, 1-16 mm	344 1109	149.00
• Collet chuck kit ER 32, 3-20 mm	344 1122	169.00
• 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	380.00
• Factory assembly SWH	900 0401	60.00
• Add-on adapter for assembly of upright and milling head of the BF20(L) Vario	335 6572	99.00
• Add-on adapter for assembly of upright and milling head of the BF16 Vario	335 6568	99.00

More accessories from page 82 on