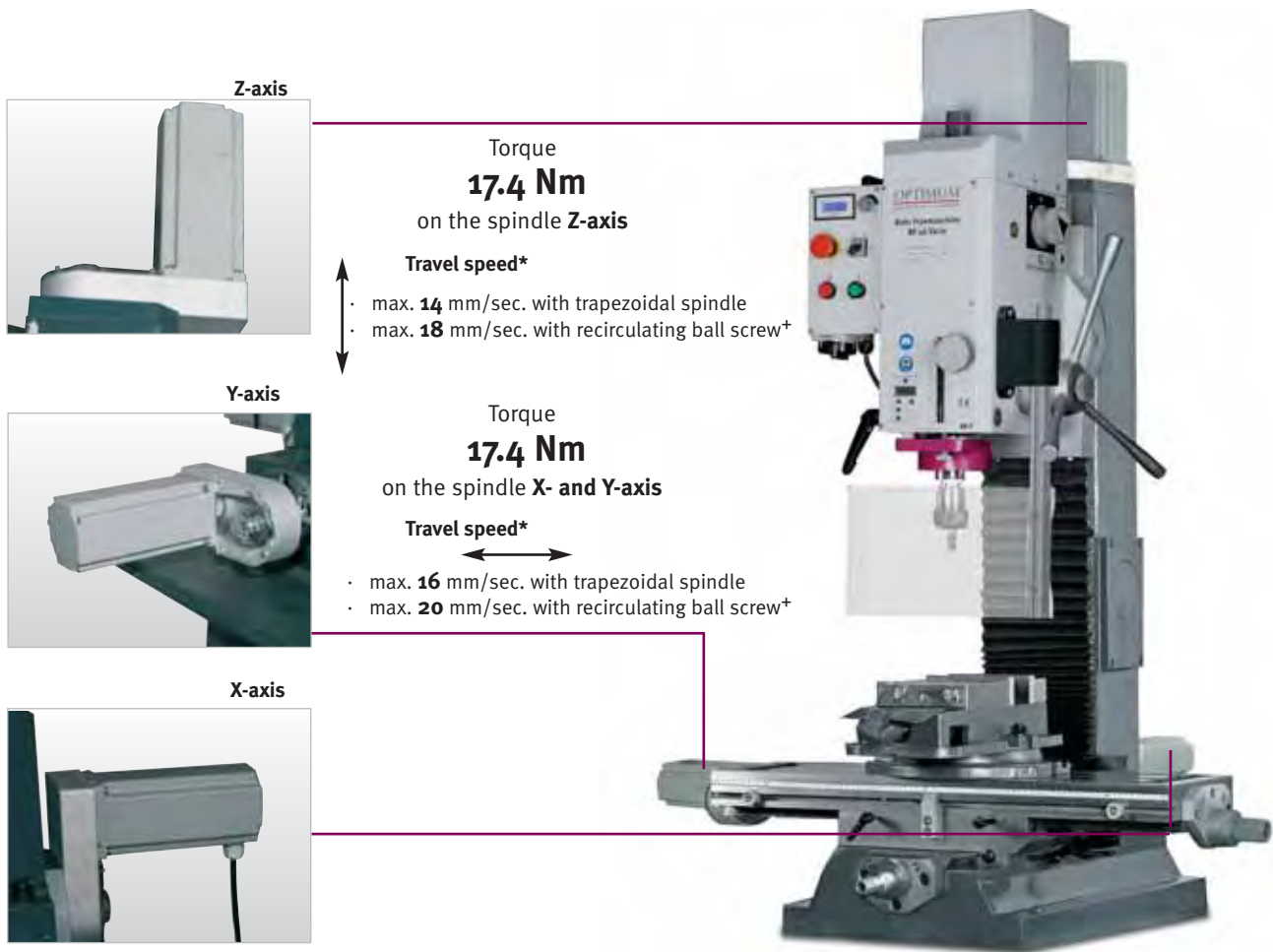


## Complete and CNC add-on kit for milling suitable for OPTI BF46 VARIO



Z-axis



Torque  
**17.4 Nm**  
on the spindle Z-axis

**Travel speed\***

- max. **14** mm/sec. with trapezoidal spindle
- max. **18** mm/sec. with recirculating ball screw<sup>†</sup>

Y-axis



Torque  
**17.4 Nm**  
on the spindle X- and Y-axis

**Travel speed\***

- max. **16** mm/sec. with trapezoidal spindle
- max. **20** mm/sec. with recirculating ball screw<sup>†</sup>

X-axis



\*The indicated speeds demonstrate a nominal value, which had been determined by the current Opti BF46 Vario. These values may deviate upward or downward depending on the used software system and the operating method of the motor or the load of the motor.

**i** Information BF 46 Vario on pages 38 - 39

### CNC complete kit

**for BF 46 Vario**

Consisting of:

- 1 x CNC controller IV "high power"
- 3 x control cards "high power"
- 1 x reference switch kit
- 1 x CNC add-on kit MK F46DP

**Extent of supply: MK F46DP**

Three step motors 12 Nm

Three assembly housings incl. lids

Six pulleys

Three toothed belts

Two nuts

One distance ring

Two spacers

15 meters screening cable

Screw kit

Mounting instructions

- Incl. assembly (without software)

Item No 353 9024

€ 3'190.00 VAT excl.

### Recirculating ball screws

**Complete kit**

Item No

€ VAT excl.

Consisting of:

- 3 x recirculating ball screws Ø 25 mm with nuts
- Assembly kit of recirculating ball screws for all three axes

**Without assembly**

357 4456

**850.00**

**With assembly**

353 9225

**1'590.00**

Individual **recirculating ball screws** Ø 25 mm with spindle nuts

**X-axis**

357 4321

**319.00**

**Y-axis**

357 4322

**299.00**

**Z-axis**

357 4323

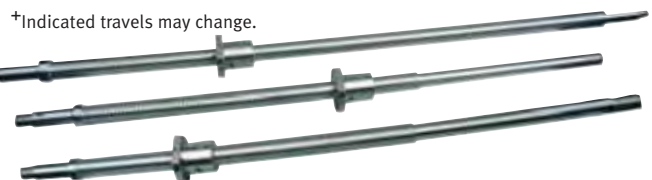
**249.00**

**Assembly recirculating ball screw**

900 0524

**290.00**

- For each axis



<sup>†</sup>Indicated travels may change.

**CNC add-on kit for milling**

**CNC add-on kit MK F46DP for BF46 Vario** 357 0046 **890.00**

- Step motors with integrated terminal board
- Especially smooth running due to little self resonance
- IP 54 enclosed motor protected against water and chips
- Extended axle shaft · 400 steps per rotation
- Toothed belt of HTD type (High Tork Drive) by Gates

**Extent of supply:**

Three step motors 12 Nm,  
three assembly housings incl. lids, six pulleys,  
three toothed belts, two nuts, one distance ring, two bushings,  
15 meters screening cable, screw kit,  
mounting instructions



**Factory assembly CNC add-on kit MK F46DP** 900 0605 **350.00**

- "Step motors" · For all 3 axes

**Control electronic for step motors**

**CNC controller IV "high power"** 357 1953 **1'490.00**

- **Included 3 control cards "high power"**
- Controller with 4 card slots · 4 potential-free relay outputs
- External emergency-stop input · Input for universal reference switch
- Connection 230 V ~50 Hz 300 VA
- Dimensions L x W x H: 545 x 270 x 165 mm



Fig.: Controller IV

**Optional CNC control card "high power"** 357 1962 **295.00**

- Universally for all axes  
(one card per axis is required)



Fig.: Control card

**Instruction**

**CNC instruction** 900 0510 **500.00**

- Instruction in the house - information see on page 143
- Instruction on-site plus travel cost and overnight stay if required

**Mega NC CNC software for milling**

**CNC basic software "NCdrive"** 358 2110 **300.00**

This is an executive program – no plotting program  
NC programs can be imported (from 2D or 3D programs)  
or can be directly entered to DIN 66025

- CD-Rom incl. NClyzer
- Power supply unit
- Connection cable RS 232
- NCdrive as external box



Fig.: NCdrive as external box

**MegaNC 2008 - 2D CAD program** 358 2112 **750.00**

- In order to work with the machine, the "NCdrive" basic software needs to be available

**MegaNC 2008 - 3D CAD program** 358 2114 **980.00**

- In order to work with the machine, the "NCdrive" basic software needs to be available

**i** Information Mega NC on pages 144 - 147

**pcdreh@ CNC - software for milling**

**pcdreh@ for Windows for milling and turning - Basis** 358 2025 **380.00**

- Hardware interface
- Power supply unit and all cables for serial connection
- CD-Rom

**pcdreh@ for Windows milling- Plus** 358 2060 **150.00**

Upgrade von pcdreh@ Basic-Version - Additional functions:

- Axes can be referenced via a switch
- Manual or automatic changing of tools, incl. tool management
- Load and edit DIN-ISO files
- Four-axes processing



Fig.: Dongle

**i** Information pcdreh@ for milling on pages 148 - 151

**USB adapter RS232** 357 1969 **19.90**

- For PCs without RS232 connection

**Reference switch**

**Universal reference switch kit** 357 1980 **129.00**

- With universal add-on parts for up to three axes
- High repeat accuracy · Contactless
- To be mounted on the machine, machine zero point
- Protective system IP 65

**Factory assembly reference switch kit** 900 0506 **99.00**

