

**Complete and CNC add-on kit for turning** suitable for optimum D 320 x 630 / D 320 x 920



**i** Information about lathes on pages 70 - 71



**4.2 Nm**  
Torque on the spindle  
**X-axis**  
Travel speed\*  
max. 12 mm/sec.



**16.0 Nm**  
Torque on the spindle  
**Z-axis**  
Travel speed\*  
max. 8 mm/sec.

**CNC complete kit**

- for D 320**  
Consisting of:
- 1 x Controller IV "high power"
  - 3 x control cards "high power"
  - 1 x reference switch
  - 1 x CNC add-on kit MK D32DP
  - Incl. assembly (without software)

Item No 353 9036  
**€ 2'490.00 VAT excl.**

- Extent of supply: MK D32DP**
- Step motor bipolar X-axis 4.2 Nm
  - Step motor bipolar Z-axis 8 Nm
  - Two assembly housings incl. lid
  - Two driving belts
  - Four pulleys
  - One shaft extension
  - One rotary shaft seal
  - 5 meters screening cable
  - Screw kit
  - Mounting instructions

\*The indicated speeds demonstrate a nominal value, which had been determined by the current Opti D320. 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.

**New in the product range**

**OPTIMUM®**

**CNC controls**

**CNC add-on kit for turning**

<b>CNC add-on kit MK D32DP</b>	357 0285	<b>539.00</b>
<ul style="list-style-type: none"> <li>Step motors with integrated terminal board</li> <li>Especially smooth running due to little self resonance</li> <li>IP 54 enclosed motor protected against water and chips</li> <li>Extended axle shaft</li> <li>400 steps per rotation</li> </ul> <p><b>Extent of supply:</b>  <i>Step motor bipolar X-axis 4.2 Nm, step motor bipolar Z-axis 8 Nm, two assembly housings incl. lid, two driving belts, four pulleys, one shaft extension, one rotary shaft seal, 5 meters screening cable, screw kit, mounting instructions</i></p>		



<b>Factory assembly CNC add-on kit MK D32DP</b>	900 0632	<b>300.00</b>
· "Step motors" · For both axes		

**Control electronic for step motors**

<b>CNC controller IV "high power"</b>	357 1953	<b>1'490.00</b>
<ul style="list-style-type: none"> <li>Included 3 control cards "high power"</li> <li>Controller with 4 card slots · 4 potential-free relay outputs</li> <li>External emergency-stop input · Input for universal reference switch</li> <li>Connection 230 V ~50 Hz 300 VA</li> <li>Dimensions L x W x H: 545 x 270 x 165 mm</li> </ul>		

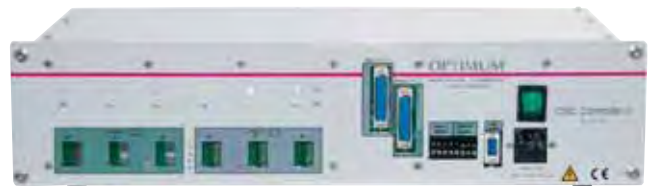


Fig.: Controller IV



Fig.: Control card

**CNC software**

<b>CNC basic software "NCdrive"</b>	358 2110	<b>300.00</b>
<p>This is an executive program – no plotting program          NC programs can be directly entered to DIN 66025</p> <ul style="list-style-type: none"> <li>CD-Rom incl. Nclyzer · Power supply unit · Connection cable RS 232</li> <li>Ncdrive as external box</li> </ul>		

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

<b>pcdreh® for Windows for milling and turning - Basic</b>	358 2025	<b>380.00</b>
<ul style="list-style-type: none"> <li>Hardware interface</li> <li>Power supply unit and all cables for serial connection</li> <li>CD-Rom</li> </ul>		

**NEW**

<b>pcdreh® für Windows turning - Plus</b>	358 2061	<b>150.00</b>
<p>Upgrade software of pcdreh® Basic version; additional functions:</p> <ul style="list-style-type: none"> <li>Axes can be referenced via a switch</li> <li>Manual or automatic changing of tools, incl. tool management</li> <li>Load and edit DIN-ISO files</li> <li>Threading</li> </ul>		

**NEW**

*Information pcdreh® for turning on pages 148 - 151*

**Instruction**

<b>CNC instruction</b>	900 0510	<b>500.00</b>
<ul style="list-style-type: none"> <li>Instruction in the house - information see on page 143</li> <li>Instruction on-site plus travel cost and overnight stay if required</li> </ul>		

**CNC accessories**

<b>Keyboard</b>	357 1945	<b>18.00</b>
<ul style="list-style-type: none"> <li>Water-, chip-, and dust-proof</li> <li>Space-saving</li> <li>Wear-resistant</li> <li>Easy cleaning</li> <li>Flexible</li> <li>Connection and power supply via PS/2</li> </ul>		



<b>USB adapter RS232</b>	357 1969	<b>19.90</b>
· For PCs without RS232 connection		

**Reference switch**

<b>Universal reference switch kit</b>	357 1980	<b>129.00</b>
<ul style="list-style-type: none"> <li>To determine the machine zero point</li> <li>With universal mounting parts</li> <li>High repeat accuracy · Contactless</li> <li>To be mounted on the machine</li> <li>Protection class IP 65</li> </ul>		
<b>Factory assembly reference switch kit</b>	900 0506	<b>99.00</b>

