



DATRON neo Rotary Axis Dynamic and Precise Fourth Axis

The anytime-retrofittable rotary axis expands the machining capabilities of the DATRON neo milling machine. Featuring a clamping mechanism, it allows for multi-sided processing and circular engraving. Developed, tested and manufactured by DATRON, the rotary axis integrates perfectly on the DATRON neo with high dynamics and precision.

PRODUCT FEATURES

- For greater capability: multi-sided processing, circular engraving
- Dynamics and precision for excellent results
- Flexibility with optional accessories: three-jaw chuck, centric clamping device, tailstock
- Precise alignment with the XYZ sensor of DATRON neo
- Can be retrofitted at any time
- Easy positioning on the table through modular clamping technology
- Simple changeover between a 3-axis and 4-axis machine
- Plug-and-play connection on machining table



TECHNICAL DATA

Technical of	

55 - 75 mm (depending on the accessories and part geometry)
Plane surface with D=106 mm and centric fit (34h6)
200 W AC servo with multi-turn absolute value encoder
Free cycloidal gear
79
Continuous rotary operation
< 0.0001°
120 arcsec
30 arcsec
60 rpm
170 mm x 360 mm x 142 mm
Approx. 9.5 kg
Approx. 19 kg

Scope of delivery

Rotary axis on module clamping plate

Rotary axis control in separate control cabine

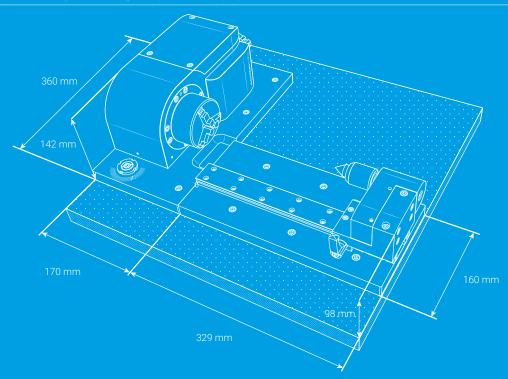
Jumper plug for 3-axis operation

Installation

Simple mounting of the control cabinet for the rotary axis contro

Installation and setup by customer possible (plug-and-play approach)

Note: The installation and use of the rotary axis requires an expansion of the standard DATRON next software with the "4.Axis" option. Entering a licence key is required for this purpose.



OPTIONAL ACCESSORIES







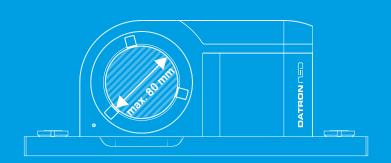
neo three-jaw chuck	neo centric clamping device	neo tailstock
(item no. 0A03704C)	(item no. 0A03704D)	(item no. 0A03704B)

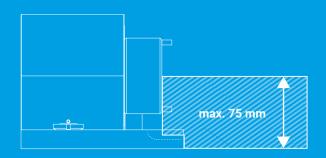
Key features	Key features	Key features
Dimensions (D x H): 106 mm x 63.5 mm	Dimensions (D x H): 106 mm x 80 mm	Dimensions (L x W x H): 329 mm x 160 mm x 98 mm
Tip height: 55 – 75 mm	Tip height: 65 – 75 mm	Tip height (max.): 55 mm
Clamping range (jaws tapered to the inside): 2 – 80 mm	Clamping range: 0 – 65 mm	Tip height (max.): 210 mm
Clamping range (jaws tapered to the outside): 25 – 78 mm	Jaw width: 46 mm	Seat: MK2
Inner borehole (D x H): 19 mm x 40 mm	Clamping force (max.): 6 kN	Centring tip diameter (max.): 65 mm
Clamping force (max.): 13 kN	Tightening torque (max.): 30 Nm	
Tightening torque (max.):		

Scope of delivery	Scope of delivery	Scope of delivery
Three-jaw chuck, including mounting flange	Centric clamping device, including mounting flange	Tailstock, including module clamping plate
1x set jaws tapered to the inside made of case-hardened steel	Clamping key	Live lathe centre (D 18 mm)
1x set jaws tapered to the outside made of case-hardened steel		
Lathe chuck spanner		

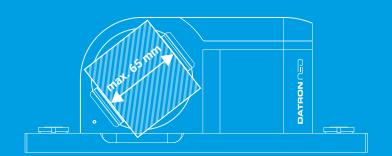
APPLICATION EXAMPLES:

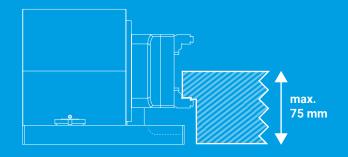
ROTARY AXIS WITH THREE-JAW CHUCK



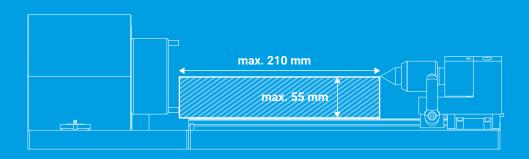


ROTARY AXIS WITH CENTRIC CLAMPING DEVICE





ROTARY AXIS WITH TAILSTOCK



DATRON AGIn den Gänsäckern 5
64367 Mühltal, Germany

Phone: +49(0)6151-1419-0 Fax: +49(0)6151-1419-690 www.datron.de

www.datron-neo.com

Please observe our "Safety regulations when operating the machine." This document can be requested from DATRON or viewed under www.datron.de/sicherheit

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