Manual for CNC-Axis / Rotation Axis / Rotary Table RounDINO - 120

Congratulations for the purchase of this powerful CNC – rotation - axis. Following we have listed several important points in regards to the product for you.

- Never use compressed air for cleaning of this fine mechanical component.
- Try to avoid using cooling agent in conjunction with the dividing head. The oil within the dust-protected installed ball-bearing is to be washed.
- Occasionally oil the worm and worm-wheel using detention oil
- Never overstress the retaining moment of the stepping motor
- Be aware of collision conflicts when running in the dividing head!

Correction of worm-gear tolerance:

- In case the worm-pair does show tolerance at one stage, lose the M4-screws, which are positioned under the Motor. Correct the motor position in direction of the clamping plate.
- Further on the snail-tolerance can be corrected when sanding the thickness of the shim by 0,01 – 0,02 mm. It is located underneath the worm shaft on the side of the closing cap.

Note: Too high pre-tension can destroy worm-pair and drive strand!

- Please refer to the Specification Data sheet supplied with your NC-Axiscard in regards to connection of the motor.
- If you do have any further queries, please do not hesitate to contact us on +49 [0]2831 / 133236 during opening hours..

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Technical Data:						
Height – vertical structure	145 mm					
Height – horizontal structure	70 mm					
Peak height	60 mm					
horizontal table - Diameter	109 mm	run out axially 0,025 mm				
Centering flange – diameter	55 h 7 mm	run out axially 0,015 mm				
Interior cone MK 1 with interior boring	d-10.3 mm	run out axially 0,015 mm				
Driving moment	20 Nm					
Weight	3,9 Kg					
Translation worm-drive	100: 1					
Mounting hole – diameter	7 mm with distance of 150 mm					
Speeds at flange	0,1 U/min – 3,2 rot/min					
Dissolution of step at the drift	160. 000 steps for each revolution with 1/8 step-by- step operation. Set accuracy +/- 1 step corresponds +-0.135 minutes of angle					

All data subject to variations of technical changes!

Connection diagram for stepping motor for RounDINO-120 with stepping motor Nanotec® SH5618L1608

Our High-Z construction is being delivered inclusive of D-Sub 9 pin plug and one meter cable. This allows direct connection of rotation axis to 5 canal control of the C-axis input.

For all other users connection is as follows: Cabling is bipolar parallel as shown in the diagram below:



The motor can also be connected and operated with serial or unipolar connection. For more information please refer to our webpage: http://www.nanotec.de/page_zweiphasen_sh5618_de.html

Motordata											
	Type (Drive: <u>bipolar only parallel</u>)	Voltage (V DC)	Power per coil (A)	Stopping- moment (Ncm)	Resistance per coil (Ohm)	Inductivity per coil (mH)	Rotor Inertia (gcm ²)	Weight (<u>kg</u>)	Length "A" (mm)		
	SH5618L1608-A	3,61	2,26	148	1,6	6,3	230	0,9	76		