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..*

Distribution of this unit is exclusively through Fa. HEIZ – 47608 Geldern

Technical Data:

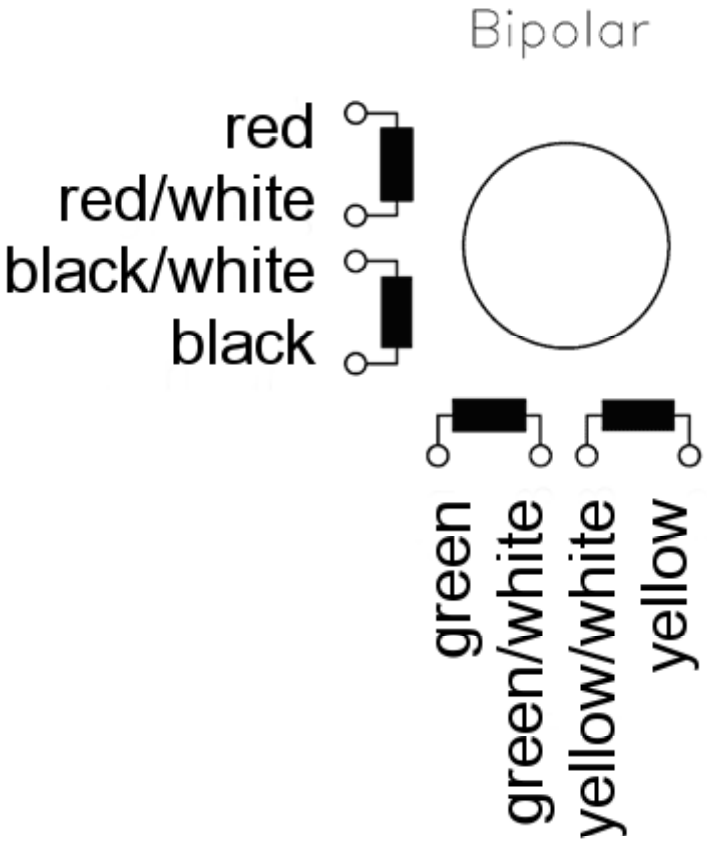
Height – vertical structure	*145 mm*	
Height – horizontal structure	*70 mm*	
Peak height	*60 mm*	
horizontal table - Diameter	*109 mm*	*run out axially 0,025 mm*
Centering flange – diameter	*55 h 7 mm*	*run out axially 0,015 mm*
Interior cone MK 1 with interior boring	*d-10.3 mm*	*run out axially 0,015 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: bipolar only parallel)	Voltage (V DC)	Power per coil (A)	Stopping-moment (Ncm)	Resistance per coil (Ohm)	Inductivity per coil (mH)	Rotor Inertia (gcm^2)	Weight (kg)	Length "A" (mm)
SH5618L1608-A	3,61	2,26	148	1,6	6,3	230	0,9	76