

# NRG 63

## Non-Round Grinding

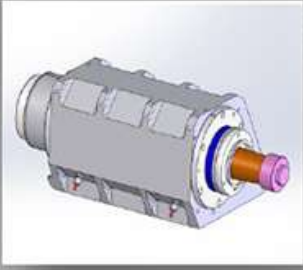


- NRG-63 is an SH platform based machine suitably upgraded for precise Non-Round Grinding Application.
- Alox wheel makes the machine ideal for components with high grinding width (>40mm)
- NRG 63 is an optimum solution for medium productivity and high accuracy requirements



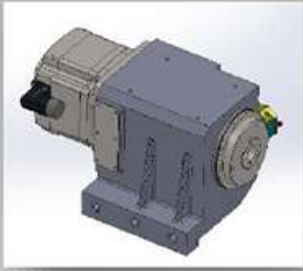
Non-Round Profile

## WHEEL HEAD



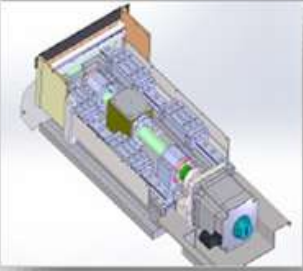
- Wheel-head with built-in spindle motor offers the following advantages:
  - High Static Rigidity
  - High Thermal Stability

## WORK HEAD



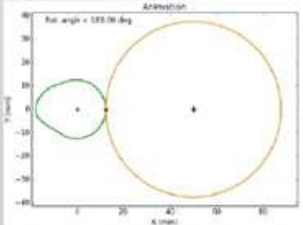
- The machine has a robust Work head spindle
- High Torque 40 Nm motor
- Motor is directly coupled onto the spindle to avoid any backlash

## INFEEED AXIS



- In-feed axis with LM Guideway for precise movement.
- Ball screw with fixe-fixed configuration has been used for high stiffness and thermal stability.

## NON-ROUND GRINDING SOFTWARE



- MGT Developed Non-Round Grinding Software is capable of automatically generating the grinding program based on the component profile
- The Software is divided into three modules:
  - Input Module
  - Analysis Module
  - Process Module

SPECIFICATIONS		
DESCRIPTION	U/M	VALUE
<b>CAPACITY</b>		
Swing over table	mm	320
Grinding diameter	mm	200
Max. Grinding length	mm	630
Admit between centers	mm	630
Max. weight of job between centres	kg	150
X-axis Slide Stroke	mm	300
Z- axis table stroke	mm	840
Infeed Axis Guideways Type (X Axis)		LM Type/ Hydrostatic
Traverse Axis Guideways Type (Z Axis)		V & Flat
Basic Machine weight (apx)	Kgs	5500
<b>WHEEL HEAD (Antifriction Type)</b>		
Power:	kW	7.5/15
Peripheral Speed	mps	45
Grinding wheel (OD x ID x Width)	mm	Ø660 x Ø254 x W
<b>WORK HEAD</b>		
Direct Driven C-Axis Antifriction Work head		
Taper	MT	5
<b>TAILSTOCK</b>		
Dead Centre Tail Stock Assembly with Hydraulic Actuation		
Taper	MT	5
Quill Travel	mm	60
Quill Diameter	mm	63
<b>SERVO SYSTEM</b>		
3-axis CNC system Fancu 3li with digital servo drives and absolute encoders for all Servo Motors.		
X Axis Servo Motor	kW	6
C Axis Servo Motor	kW	6
Z Axis Servo Motor	kW	4
<b>SOFTWARE</b>		
MGT Developed Non-Round Grinding software for generating CNC codes based on cam profile. integrated into CNC		



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