crankshaft

CG360CNC - Crankshaft Grinding Machine

Complete Machining Center

automated

		CGX2000	CGX3000
WORKING CAPACITY	**UNIT**		
Height of centres on table	*mm*	360 mm	360 mm
Max distance between centers	*mm*	2000 mm	3000 mm
Swing over table	*mm*	720 mm	720 mm
MACHINE SPECIFICATIONS			
Z AXIS			
Max speed	*mm/min*	From 0 to 5000	From 0 to 5000
Table motor power	*KW*	0,5	0,5
X AXIS			
Max grindinghead feed	*mm*	210	210
Micrometic grindinghead feed	*mm*	240	240
WHEEL UNIT			
Diameter of grinding wheel	*mm*	915	915
Max grinding wheel width	*mm*	60	60
Wheel rotation motor power	*KW*	7,5	7,5
Min grinding wheel thickness	*mm*	20	20
Grinding wheel peripheral speed	*m/sec*	33	33
WORKHEAD			
Stepless rotation speed	*rpm*	0-80	0-80
Headstock rotation motor power	*KW*	1,2	1,2

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engine rebuilding equipment

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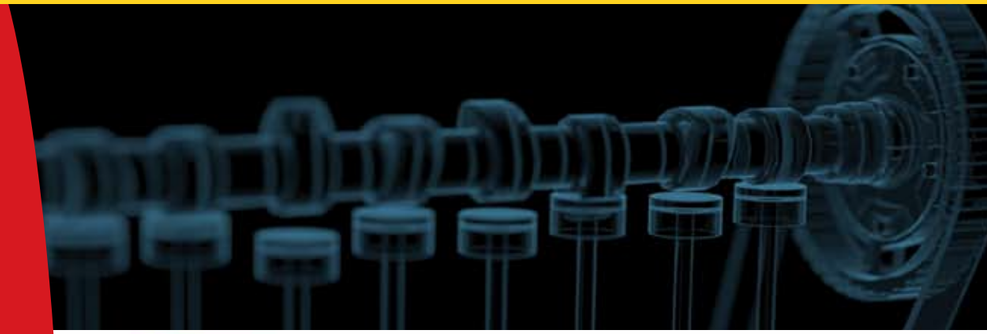

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precise

Productivity and quality are programmed in with Winona Van Norman's high performance CG360CNC Grinding Machine.

Basement

The Basement of the CG360CNC is made of high-resistance cast iron that is thermally stabilized. Features include:

- A large, flat "V" guide designed specifically to accommodate table and grinding carriage movements.
- A stout structure with a scraped surface that ensures precise alignment and level positioning throughout the table length.
- Special guideways that enhance the table's rigidity and longitudinal accuracy.
- Special anti-friction covering on guideways that reduce rubbing wear.
- Precise Heidenhain linear encoders that control Z-axis movement with repeatability of 0.003 mm.

Tailstock

- The tailstock enables cylindrical manual correction.
- Made of highly-resistant, thermally stabilized cast iron.
- Moved by motor as well as manually using an air-cushion, gear and rack system.
- Sleeves are moved and pressurized through the use of hydraulics.

Headstock

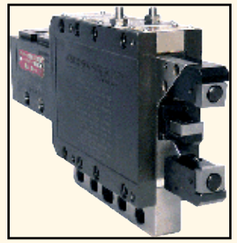
- The headstock can move by motor as well as manually using an air-cushion, gear and rack system.
- Seimens servomotors rotate the headstock.
- Headstock can be equipped with three auto-centering jaw chucks or four independent jaw chucks.

Wheel Dresser

The CG360CNC is equipped with a diamond single-point dresser. A diamond wheel dresser is available as an option.

Steady Rest

Steady rest can be provided in either standard or narrow sizes (two pieces each). An optional self-centering rest is available as an option.



Wheelhead Unit

- Strong, thermally stabilized construction with a scraped surface that delivers precise alignment and level positioning of the grinding wheel head.
- The grinding head can be manually rotated around the B zxis in positions from -20 to +180 degrees.
- A second external grinding wheel can be added as optional equipment.
- Includes in-process, fork measurement system.

CNC Control Panel

The precision and efficiency of CNC programming is provided via the Sinumerik 840D, the industry standard for high-performance grinding operation.