



REX 4000-5000-6000

SEMI-AUTOMATIC CRANKSHAFT GRINDERS



Importing Reliable Grinding Machines
— Call us @ 770-279-2001

REX 4000 - 5000 - 6000 CRANKSHAFT GRINDERS

REX Crankshaft Grinders are designed with state-of-the-art technology to utilize the most accurate and efficient crankshaft setup system available. REX's built-in features benefit the serious rebuilder who is grinding welded crankshafts or crankshafts with special stroke requirements.

High performance Engine Builders particularly appreciate the ability to modify or maintain the existing stroke with the utmost accuracy and repeatability.

REX Crankshaft Grinders use work heads with 4-way cross slides with an advanced locking system which permits quick centering of the crankshaft.

Heavy duty one piece cast iron construction assures you a lifetime of superior accuracy and dependability. Whatever your crank grinding needs, REX has a model designed to do the job that your customers demand at a price that you can afford.

WHEEL HEAD

Sideways are coated with antifriction material to obtain free movement and a minimum of wear
Hardened steel spindle, turns in oil bathed fully adjustable precision sleeve bearings

HYDRAULIC CONTROLS

Rapid hydraulic wheelhead traverse and hydraulic table movement increase speed during set-up and grinding
Fine feed controls for both movements assure accuracy

WORK HEADS

4 way cross slides with advanced locking system permit quick centering of crankshaft. Shiftring is found by a centesimal dial indicator

"O" setting is obtained by shifting the heads against the central stop, which may be released for possible corrections

Indexed chucks rotate 360 °

Micrometric chuck rotation

Easy change from chucks to centers

Only two keys for all shifting, centering and clamping operations







TECHNICAL SPECIFICATIONS

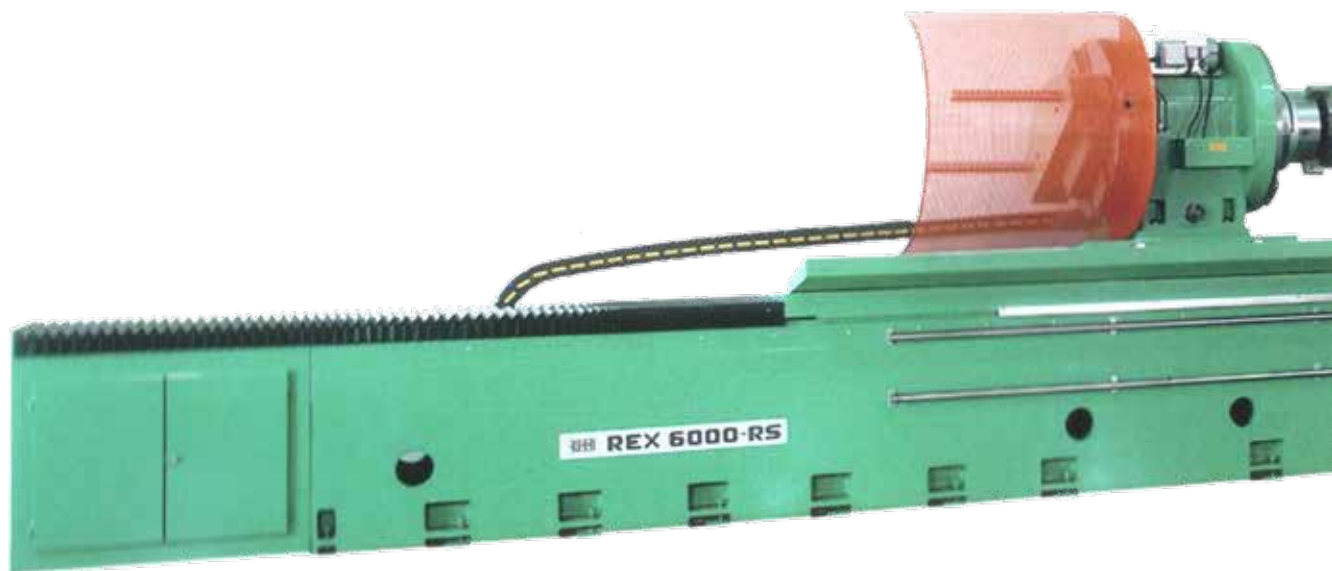
- PLC controls manually and automatically the positions and movements of axis "X – Z"
- Infinitely variable table traverse speed 0 – 3000 mm/min with automatic reversing and variable dwell, for cylindrical grinding
- Bed and table in cast iron
- Guides with anti-friction material
- Wheel head spindle bearings with forced lubrication
- Electronic handwheels for micrometric wheel and table movements
- Re-circulating ball screw with high precision pre-loaded double nut for wheel and table movements
- Brushless motor for wheel and table
- Hydraulic platform positioning clamps
- Fast hydraulic wheelhead movement
- Cloth bellow protections for guides

STANDARD EQUIPMENT

- Electric installation 24 V
- Hydraulic installation
- Cooling installation with tank
- Two self centering chucks
- Pair of additional counter weights
- Grinding wheel with pair of wheel hubs
- 4 steady rest
- Wheel periphery and side truing attachment with diamond
- Eccentricity control device with dial gauge
- Truing fixture for checking concentricity with dial gauge
- V-square for centering of crankpins with dial gauge
- Wheel balancing mandrel
- Motor drive pulley for reduced wheel diameter
- Grinding wheel stripper
- Set of steel splash guards
- Service spanners
- Operating manual

5000 - REX 6000





5000 - REX 6000



TECHNICAL SPECIFICATIONS

		4000	5000	6000	
Distance between centers	Max	4200	5200	6200	mm
Distance between chucks	Max	4050	5050	6050	mm
Height of centers over table			650		mm
Swing over table			1300		mm
Grinding diameter (grinding wheel \varnothing 1200 mm)	Max		1000		mm
Offset of centers	Max		250		mm
Rapid hydraulic wheelhead feed			300		mm
Micrometric manual wheelhead feed			600		mm
Micrometric manual wheelhead feed, graduation			0,001 – 0,01 – 0,1		mm
Micrometric manual worktable movement			0,01 – 0,1		mm
Table speed	Max		3000		mm/min
Grinding wheel rotation speed (2)			800 – 1000		r.p.m.
Grinding wheel rotation speed – variable with inverter			450 – 1000		r.p.m.
Diameter of the grinding wheel	Max		1200		mm
Grinding wheel thickness	Min		30		mm
	Max		100		mm
Chuck diameter			400		mm
Rest capacity			340		mm
Workpiece rotation speed			0 – 50		r.p.m.
Max. weight on centers – crankshafts			3500		kg
Max. weight on rests - crankshafts			4500		kg
Max. weight on centers – cylinders			4000		kg
Max. weight on rests – cylinders			4500		kg
Wheel head motor			22		Kw
Work head first motor			7		Kw
Length		12.400	14.300	16.300	mm
Width			4.600		mm
Height			2.200		mm
Weight, approx.		29.000	35.000	38.000	kg

STANDARD EQUIPMENT

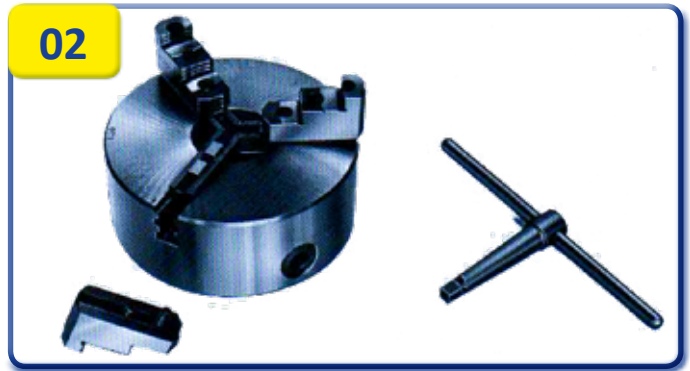
- 01 Cooling installation with tank
- 02 Two self centering chucks
- 03 Pair of additional counter weights
- 04 Grinding wheel with pair of wheel hubs
- 05 Narrow steady rest
- 06 Normal steady rest (excluding Rex 1200 and Rex 1500)
- 07 Wheel periphery and side truing attachment with diamond
- 08 Eccentricity control device with dial gauge
- 09 Truing fixture for checking concentricity with dial gauge
- 10 V-square for centering of crankpins with dial gauge
- 11 Wheel balancing mandrel
- 12 Motor drive pulley for reduced wheel diameter
- 13 Grinding wheel stripper
- 14 Set of steel splash guards
- 15 Service spanners
- 16 Operating manual

01

Hydraulic Crankshaft Grinders



02



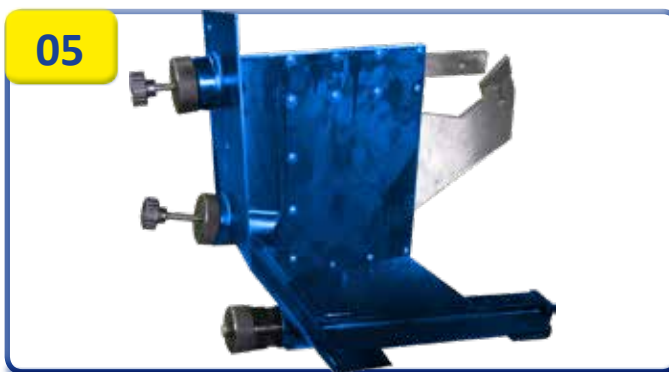
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04



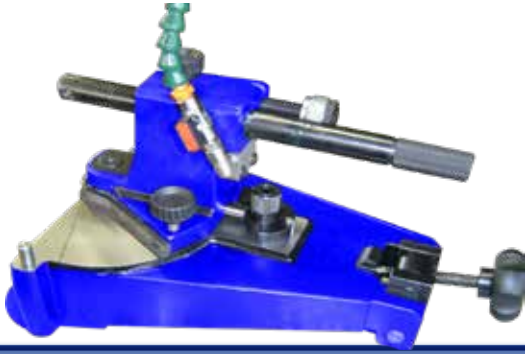
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SEMI-AUTOMATIC CRANKSHAFT GRINDERS

Crankshaft grinding machines:

- Rex 4000
- Rex 5000
- Rex 6000

are made only in semi-automatic version

OPERATOR PANEL

- SIEMENS TP 700 touch screen operator panel that allows a simple and intuitive working cycles programming
- Plunge and pass rectification cycles parametrically programmed
- Grinding with automatic stop at the programmed quote
- Grinding wheel dressing with automatic compensation
- Direct reading system of the work quota during the cycle (optional)
- Progress to the quota controlled by a measuring device in process
- Electronic handwheels

The 'touch-screen' panel displays:

- machine status and alarm messages
- all the parameters set for the automatic cycle being processed
- any corrections to the set parameters made during the automatic cycle being processed



AT YOUR SERVICE SINCE 1936



Robbi has operated in the machine tool market since 1936 and specialise in the manufacture of machines tailored to meet the more demanding needs of the customer's complexed and more specialised demands.

Whilst maintaining competitive prices, Robbi have ensured their machines have stability and precision.



Robbi grinding machines, use the best technology and the most robust and reliable components available on the market in their build programme.

Robbi have a commitment to assist and help, proactively, its customers to ensure they maximise the efficiency of the machine.



Robbi, in fact, offers various service solutions, including the:

- development of manufacturing processes;*
- replacement parts spare part programme,*
- making parts available for older models,*
- tailored operational training programs*
- and maintenance training to maximise the features of grinding machines and maintain the Robbi Grinders longevity.*



Understanding the needs of our customers we are offer the best solutions and services that increase their return on productivity thus improving our customers return on his investment.

Ideas that may improve our business are always appreciated from customers.

If there's anything we can do to improve your experience with Robbi, please let us know.

Robbi have a commitment to ensure all customers are completely satisfied.

Choose Robbi precision for increased productivity and a faster return on your investment.

Call us today, we've have a solution for your grinding application.



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