

R 2000

Line Boring Machines

For crankshaft and camshaft bearings

PRECISION SINCE 1936

ROBBI

MADE IN ITALY

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Precision Broing machines

Line Boring Machines are designed for precision performance.
The heavy duty cast-iron base provides stability for precise boring.
Boring bars are hardened and chrome plated for rigid, straight boring.
The direct tool setting capabilities provided on the machine minimize operator error.
The line bore's versatility allows boring of overhead cam type cylinder heads, passenger car blocks, large diesel blocks and a wide range of other industrial uses.
The 4-way adjustment of the boring head and columns simplifies set-up.
The twin control panels puts the operator in front of the work for full control during the boring process.
The infinitely variable spindle selection combined with choice of feed, gives the operator precise control of the bore finish.
Extra long boring spindle travel maximizes the boring capacity with just one tool setting.

Bed

Heavy bed made of stress-relieved steel to assure stability and vibration free boring

Workpiece setting up

Approximative centering by means of cones and final centering by means of two universal centering device with dial indicator
A bridge comparator holder secures a perfect alignment of boring bar as to the block surface

Workhead

Workhead is mounted on a vertical and trasversally adjustable support to allow a fat and accurate alignment
Control grouped in the head for an easy and handy operation
Boring spindle with two limit stops
Automatic workhead lubrication

Boring Bar Support

Bar supports vertically adjustable and movable on all working surfaces
Ajustable bar bearings with possibility to swing and shift crosswise to permit a fast alignment







01	Slow and fast feed selector knob
02	Manual fast feed
03	Micrometric manual feeds for spotfacing and chamfering
04	Controls
05	Engage the gear of automatic feeds
06	Vertical adjustement
07	Cross adjustement





11	Locking knob for bearing oscillation
12	Control for crosswise adjust
13	Bearing support
14	Locking handle for bearing rotation
15	Micrometric manual feeds for spotfacing and chamfering
16	Handwheel for vertical adjust


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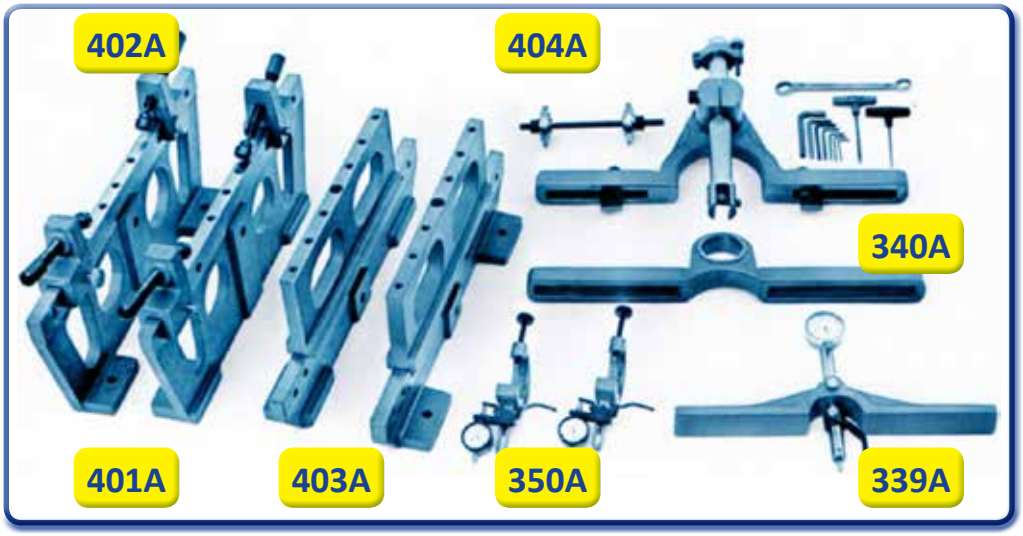


TECHNICAL FEATURES

		R 2000/B	R 2000/C	R 2000/CS	
Length of block	Max	1800	2200	2500	mm
Distance from bed to bar center-line	Min		400		mm
	Max		800		mm
Boring diameters wiht bars and cutters heads			22 - 200		mm
Speeds of spindle			0 ÷ 500		giri/min
Spindle travel	Max		430		mm
Feed manual rapid			100		mm/giro
Feed manual micrometric			0.1		mm/giro
Automatic feeds	N. 2		0,05-0,1		mm/giro
Electric motor power			1.5		kW
Dimensions					
Lenght		3300	3700	4000	mm
Width		670	670	670	mm
Height			1400		mm
Weight without packing		1500	1600	1700	Kg

Standard Equipment

		Complete electric installation with low tension controls (24 V)
		Lighting system
015M	1	Precision tool setting micrometer
350A	2	Universal centering devices
403A	1	Pair of parallel supports 600x100 mm
401A	1	Pair of parallel supports 600x230 mm
404A	1	Pair of parallel supports 400x140 mm
402A	4	Locking clamps
340A	1	Complete bridge central support
339A	1	Dial gauge holder
404A	1	Bearing adjusting device
	1	Set of spanners
		Operating manual and spare parts list







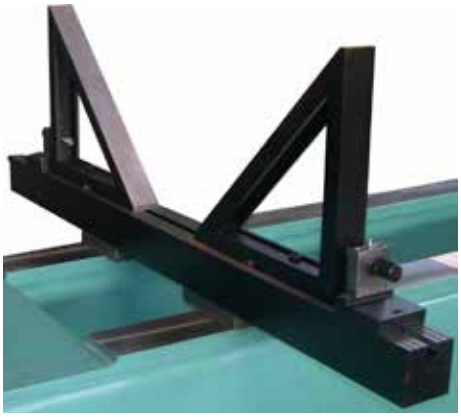
Spot-facing devices with automatic feed, with tool

321A 322A 323A 324A 325A

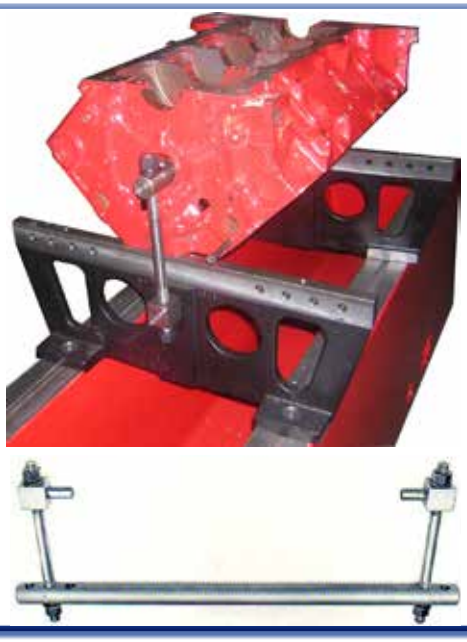


Cylinder gauge inside diameters. Gauges, without removing the boring bar:

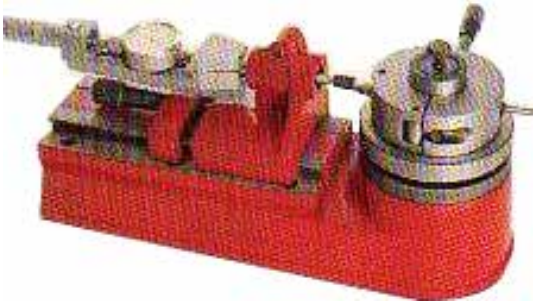
- 013M - Cap 35 ÷ 100 mm
- 014M - Cap 90 ÷ 160 mm



V-cylinder clamping fixture(159C)



V-cylinder clamping fixture(159B)



Special tool setting holder for cutter heads (020M)



Tool grinding device, incl. electric motor, abrasive wheel, diamond wheel, grinding jig and stand (043R)

Boring Bars



01 02 03 04 05 06 07

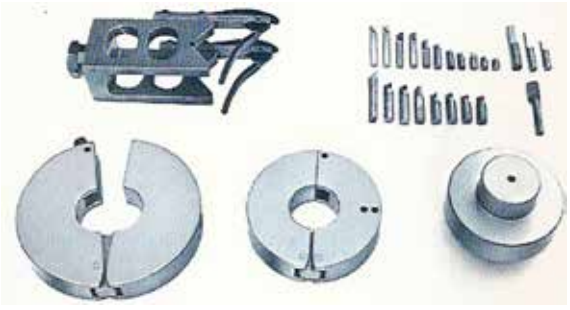
01 Bushes
02 Bearings
03 Centering cones
04 Tool pushers
05 Cutter heads
06 Steady rest
07 Tool setting micrometer holder

Bars				Cutter Heads (Standard)			Complete Equipment (*)				Cutter Heads and Accessories (On demand)		
	ø	L	CAP	REF	ø	CAP	TIPE	Cutter Heads REF	ø	CAP	Cutter Heads REF	ø	CAP
	mm	mm	mm		mm	mm			mm	mm		mm	mm
BA22	22	1200	24÷50	•	•	•						40	45÷65
BA26	26	1300	28÷50	•	•	•					300A	45	50÷70
BA30	30	1600	32÷60	301A	50	55÷70					302A	70	75÷100
BA37	37	1800	40÷100	303A	70	75÷100					304A	85	90÷120
BA45/21	45	2100	47÷110	305A	65	70÷90	BA160	307A	100	105÷130	309A	140	145÷190
BA45/25	45	2500											
BA45/28	45	2800		306A	75	80÷110		308A	120	125÷160			
BA50/25	50	2500	52÷120	310A	70	75÷100	BA200	313A	150	155÷200	312A	120	125÷170
BA50/28	50	2800											
BA50/32	50	3200		311A	90	95÷130							
BA60/32	60	3200	120÷200	314A	120	125÷150	BA250	316A	200	205÷250			
BA60/35	60	3200		315A	150	155÷200							

(*) Complete equipment includes

- Cutter heads
- Tools for boring
- Recorder support
- Micrometer Set Masters

Google



Ba160: Complete equipment for noring up to Ø 160 mm with bar Ø 45 mm

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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