

# MAXPREC

AUTOMOTIVE SERVICES AND  
SPECIAL PURPOSE MACHINE



Our aim is to have a genuine relationship with the maximum precision excellent engineering rebuilding sector of the world

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## ABOUT COMPANY

Located amidst the vibrant industrial environs of Bangalore, Maxpreci, right from inception in 1995, has positioned itself at the high end of machine tool technology, thanks to the experienced technocrat team of promoters.

Focused exclusively on machines for engine rebuilding, the manufacturing range of Maxpreci, has expanded from a single product in 1995 to an impressive array of more than ten **"Best in the class performers"**.

Maxpreci today, is a multi-specialty manufacturing unit turning out fine boring machines, grinders & honing machines, with each introduction helping to unfold optimal possibilities in competitive manufacturing.

The strength of Maxpreci to offer nothing less than the best, is derived from a self-reliant high-precision manufacturing capacity, **"state of the art"** checking facility, uncompromising mandate on quality and **"customer-centric"** strategy.

And the most important trait is the spirit of innovation that stems from the competent crew of professionals, whose experience under different platforms, lends that extra bit of confidence. And that extra touch of reliability. Which is why, Maxpreci enjoys the overwhelming support of its clients, who get what they like and like what they get.

## VISION

Our Vision is to create a robust presence in the global marketplace and be rated among front line suppliers of high quality, cost effective and easy to use, high precision machine tools for the engine rebuilding industry.

Every individual or organisation associated with **"Maxpreci"** should be delighted to identify with the brand.

## MISSION

Our mission is to be the customer's consistent first choice for engine reconditioning. We believe in sustained growth through.

- ▶ Value congruence across all levels of the organisation
- ▶ Positive response to change in market expectations
- ▶ Good manufacturing practices backed by sound technology

mutually beneficial relationships adding to customer and stakeholder value

# VERTICAL CYLINDER FINE BORING MACHINE - VCBM 2500

## MODELS

VCBM	2500
VCBM	2200
VCBM	1500V
VCB	1500V
VCBM	1200V
VCB	1200V



Manual feeds operated by pulse generator.

Digital display for boring head movements, spindle speeds and table movements.



- ▶ Base, Cross Slide, Table, Column and boring slide (gear box) are of fine-graded, alloy casting.
- ▶ Stress relief after rough machine ensures rugged and vibration free operation of the machine.
- ▶ Boring slide setting with tapered gibs to avoid vibration and achieve better boring accuracy.
- ▶ Auto stop spindle rotation and rapid return of boring head after completion of boring operation.
- ▶ Anti-friction wear resistant lines provided on all sliding surfaces of the boring slide to minimise wear and tear.

TECHNICAL SPECIFICATIONS	VCBM - 2500	VCBM - 2200	VCBM - 1500V	VCB - 1500V	VCBM - 1200V	VCB - 1200V
Boring capacity	62 - 265 mm	62 - 265 mm	48 - 220 mm	48 - 220 mm	62 - 135 mm	62 - 135 mm
Boring capacity with extra spindle		38 -350 mm	38 - 310 mm	38 - 310 mm	38 - 190 mm	38 - 190 mm
Milling length	2300 mm	1800 mm	1350 mm		1250 mm	
Milling width	400 mm	400 mm	350 mm		350 mm	
Maximum boring head travel	850 mm	850 mm	700 mm	700 mm	600 mm	600 mm
Maximum distance head to table	1500 mm	1500 mm	1340 mm	1340 mm	1300mm	1300mm
Maximum distance between outer cylinder center	2500 mm	1800 mm	1200 mm	1200 mm	900 mm	900 mm
Max work piece on table		2500 kg	1000 kg	1000 kg	750 kg	750 kg
Spindle speed motor	2.2 kw/3 hp	2.2 kw / 3 hp	1.5 kw / 2 hp	1.5 kw / 2 hp	1.5kw / 2hp	1.5kw / 2hp
Motor rapid & feed		4kw servo motor	0.37 kw / 0.5 hp	0.37 kw / 0.5 hp	0.37 kw / 0.5hp	0.37 kw / 0.5hp
Motor table traverse longitudinal		0.37 kw / 0.5hp	0.37 kw / 0.5 hp		0.37 kw / 0.5hp	
Spindle speeds	50 to 750 rpm	50 to 750 rpm	50 to 750 rpm	50 to 750 rpm	50 to 750 rpm	50 to 750 rpm
Spindle feeds		10 to 100 mm/min	12 - 100 mm / min	12 - 100 mm / min	12 - 100mm / min	12 - 100mm / min
Maximum distance from spindle centre to column	500 mm	500 mm	410 mm	410 mm	360 mm (14.17")	360 mm
Working table size (L x W)	2500 mm x 600 mm	2200 mm x 600 mm	1500 x 450 mm	1500 x 450 mm	1200 x 360mm	1200 x 360mm
Table traverse - longitudinal	2700 mm	2050 mm	1850 mm	1350 mm	1300mm	850 mm
Table traverse - cross wise	150 mm	150 mm	120 mm	120 mm	75 mm	75 mm
Length of the machine	3300 mm	3300 mm	2800 mm	2500 mm	2200mm	1900 mm
Width of the machine	1800 mm	1800 mm	1440 mm	1420 mm	1300 mm	1300 mm
Height of the machine	3050 mm	3050 mm	2525 mm	2525 mm	2440 mm	2440 mm
Work space required (Lx W)	4500 x 1850 mm	4400 x 1850 mm	4050 x 1520 mm	4050 x 1520 mm	2880 x 1400 mm	2800 x 1700 mm
Net weight	5000 kgs	4800 kgs	3500 kgs	3000 kgs	2650 kgs	2500 kgs
Gross weight	6000 kgs	5800 kgs	4000 kgs	3500 kgs	3300 kgs	3200 kgs
Shipping volume	15 m3	15 m3	9.5 m3	9 m3	9 m3	7 m3

STANDARD ACCESSORIES	VCBM - 2500	VCBM - 2200	VCBM - 1500V	VCB - 1500V	VCBM - 1200V	VCB - 1200V
Setting up parallel 100mm	01 pair	01 pair	01 Pair	01 Pair	01 Pair	01 Pair
Setting up parallel 200mm	01 pair	01 pair	01 Pair	01 Pair	01 Pair	01 Pair
Setting up parallel 300mm	01 pair	01 pair				
Boring spindle dia 46mm with centring device			01 No	01 No		
Boring spindle dia 60mm with centring device	01 No	01 pair	01 No	01 No	01 No	01 No
Boring spindle dia 85mm with centring device	01 No	01 pair	01 No	01 No	01 No	01 No
Boring spindle dia 125mm with centring device	01 No	01 pair				
Boring head dia 125 with centring device			01 No	01 No		
Boring head dia 175 with centring device	01 pair	01 No	01 No	01 No		
Boring head dia 225 with centring device	01 pair	01 No				
Boring tool dia 18 x 37mm long			01 No	01 No		
Boring tool dia 18 x 47mm long	01 No	01 No	02 Nos	02 Nos	01 No	01 No
Boring tool dia 18 x 70mm long	02 Nos	02 Nos	2 Nos	02 Nos	2 Nos	02 Nos
Boring tool dia 18 x 95mm long	04 Nos	04 Nos	03 Nos	03 Nos	01 No	01 No
Chamfering tool 46mm long			01 No	01 No		
Chamfering tool 60mm long	01 No	01 No	01 No	01 No	01 No	01 No
Chamfering tool 85mm long	04 Nos	04 Nos	03 Nos	03 Nos	01 No	01 No
C' spanner for dia 85 spindle			01 No	01 No		
C' spanner for dia 125 spindle	01 No	01 No				
Head loosening rod	01 No	01 No	01 No	01 No	01 No	
Tool setting micrometer assembly	01 No	01 No	01 No	01 No	01 No	01 No
Tool setting micrometer fixing bracket & knob	03 Nos	03 Nos	02 Nos	02 Nos	01 No.	01 No
Allankey set (9nos)	01 Set	01 Set	01 Set	01 Set	01 Set	01 Set
Table gib adjusting handle					01 No	01 No
Double end spanner 24/26	01 No	01 No	01 No	01 No	01 No	01 No
Double end spanner 30/32	01 No	01 No				
T bolt washer with nut	20 Nos	20 Nos	16 Nos	16 Nos	12 NoS	12 Nos
Block tightening clamp	04 Nos	04 No	04 Nos	04 Nos	04 No	04 No
Milling spindle	01 No	01 No	01 No		01 No	
Milling tools inserter type	08 Nos	08 Nos	01 No			
Oil gun	01 No	01 No	01 No	01 No	01 No	01 No
Levelling plate with bolt	10 Nos	10 Nos	03 Nos	03 Nos	03 Nos	03 Nos
Foundation bolt washer & nut	10 Nos	10 Nos	03 nos	03 Nos	03 Nos	03 Nos
T handle allenkey 4mm	01 No	01 No	01 No	01 No	01 No	01 No
T handle allenkey 5mm	01 No	01 No	01 No	01 No	01 No	01 No
Lifting hole cover	02 No	02 Nos	02 Nos	02 Nos	02 Nos	02 Nos
Depth setting device with dial			01 No		01 No	
operation manual	01 No	01 No	01 No	01 No	01 No	01 No

# VERTICAL CYLINDER FINE BORING MACHINE - VCB 1500V



Easy & quick bore centering and machining positioning is possible with in built dial indicator



# VERTICAL CYLINDER FINE BORING MACHINE VCB 1200V



In boring spindle, you can take up the tool setting micrometer, for advantage accurate repeatable tool setting.

## OPTIONAL ACCESSORIES

- Boring spindle dia 36mm
- Boring head dia 225mm
- Boring head dia 275mm
- Boring head dia 300mm
- Setting up parallel 130mm height
- Quick clamping fixture
- V type block clamping fixture adjustable
- Universal angle fixture (60° & 90°)



# VALVE SEAT CUTTING MACHINE - VSC 999

MODELS  
VSC 999  
VSC 777



Touch pad provided for easy operating controls



Vacuum gauge provided to check the leakage of the valve seat



Comfortable operating tools stand



Quick holding & changing of tool holder with live pilots.

Automatic centering system based on the SPHERICAL AND FLAT AIR-FLOAT CUSHION cross action principle, servo motor control with infinitely variable with digital display.

Machine Spindle head clamping by double pneumatic cylinders. 360° rollover clamping system

**This machine has three air cushions for easy and quick centering with live pilots which are:**

- On the upper bed on the spindle head(2 axis)
- On the spindle (spherical cushion 360°)
- On the work table (2 axis)



# VALVE SEAT CUTTING MACHINE - 777



TECHNICAL SPECIFICATIONS	VSC 999	VSC 777
Spindle Travel	200mm	200mm
Spindle Speed	30-500rpm	30-500rpm
Boring Range	18-80mm	18-60mm
Spindle Swing Angle	6°	6°
Work Head Longitudinal Traverse	1000mm	700mm
Work Head Cross Traverse	30mm	30mm
Cylinder Head Max (LxWxH)	1050x550x450	800x550x450
Spindle Motor Power	0.25KW	0.25KW
Air Supply Pressure	6bars/85psi	6bars/85psi
Electrical Supply	3ph, 440v, 50Hz	3ph, 440v, 50hz
Approximate Weight	1300Kgs	1000Kgs
Machine Dimension	1600x850x1900mm	1210x850x1900mm

#### Optional Accessories

Pilots as per customised size
Profile insert re-sharpener
Various profile inserts
Various vacuum checking pads
Counter bore insert guide with reammers
Counter bore insert with drills

STD. ACCESSORIES	VSC 999	VSC 777
Tool Holder Dia18 – 60mm	1No	1 No
Tool Holder Dia40– 120mm	1 No	-----
Tip Holder Dia18 – 30mm	1 No	1 No
Tip Holder Dia28 – 42mm	1 No	1 No
Tip Holder Dia40 – 60mm	1 No	1 No
Tip Holder Dia58 – 80mm	1 No	-----
Guide Stem (Pilot)	3 Nos	3 Nos
Profile Insert	2 Nos	2 Nos
Counter Bore Insert	1 No	1 No
Tip Setting Device	1 Set	1 Set
Anti- Vibration Pad	4 Nos	4 Nos
Head Clamping Fixture	1 Set	1 Set
Allen Key	1 Set	1 Set
Vacuum Checking Device	1 Set	1 Set
Air Purifier	1 Set	1 Set
Vacuum Checking Pads	1 No	1 No

# VERTICAL HYDRAULIC SURFACE GRINDING MACHINE - VSG 1800

## MODELS

VSG 1800V

VSG 1500V

VSG 1300V



This machines are very compact, rigid and also have variable milling speeds, and hydraulically operated table mounting



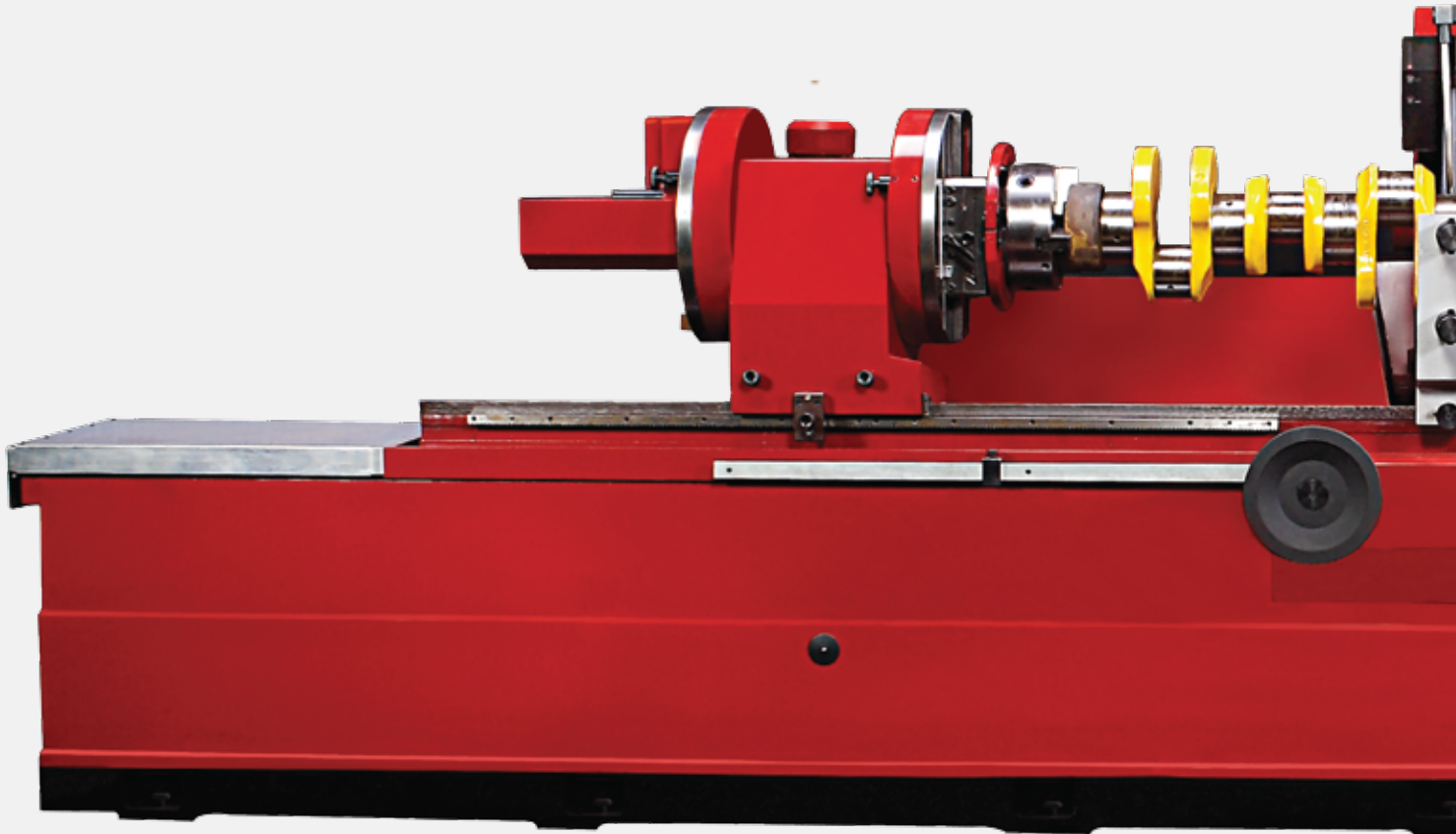
Easy & perfect angle of wheel dressing mechanism

# VERTICAL HYDRAULIC SURFACE GRINDING MACHINE - 1500V



TECHNICAL SPECIFICATIONS	VSG-1800V	VSG-1500V	VSG-1300V	STD. ACCESSORIES	VSG-1800V	VSG-1500V	VSG-1300V
Max. Automatic table traverse	1800 mm (71")	1500 mm (59")	1300 mm (51")	Setting up parallel 135 height	1 Pair	1 Pair	1 Pair
Head vertical traverse	900 mm (35.45")	720 mm (28.3")	600 mm (24")	Segment wheel	1 No	1 No	1 No
Segment wheel dia	450 mm (17.7")	400 mm (15.7")	350 mm (14")	Segment stones	8 Nos	8 Nos	8 Nos
Max. Milling width	400 mm (15.75")	300 mm (14")	300 mm (11.8")	T-bolt with nut and washer	8 Nos	8 Nos	8 Nos
Max. Grinding width	450 mm (17.7")	400 mm (15.7")	350 mm (14")	Block tightening clamp	4 Nos	4 Nos	4 Nos
Max. Grinding length	1500 mm (59")	1200 mm (47")	1000 mm (41")	Head clamping plate with studs	2 Nos	2 Nos	2 Nos
Min./max. Distance between table & segment wheel	0-900 mm (0 - 35.5")	0-720 mm (0-28.4")	0-600 mm (0-24")	Wheel balancing shaft with nut	1 No	1 No	1 No
Distance from column to table center	396 mm (15.6")	350 mm (14")	350 mm (14")	Grinding wheel dresser	1 Set	1 Set	1 Set
Grinding spindle rotation speed	900 RPM	1440 RPM	1440 RPM	Coolant tank with electric pump	1 No	1 No	1 No
Milling speed variable	80 - 600 RPM	80 - 700 RPM	80 - 700 RPM	Double end spanner (22 - 24)	1 No	1 No	1 No
Min./max. Table feed speed (stepllessly variable)	0 - 4500 mm/min	0 - 4500 mm/min	0 - 4500 mm/min	Allankey set (9 nos.)	1 Set	1 Set	1 Set
Spindle motor	57.5 kw / 10 HP	5.5 kw / 7.5 HP	3.75 - 0.75 K.W / 5 - 1 HP	Levelling plates with bolts	3 Nos	3 Nos	3 Nos
Head rapid feed motor	0.44 kw servo motor	0.19 kw / 0.25 HP	0.19 kw / 0.25 HP	Foundation bolt with nuts	3 Nos	3 Nos	3 Nos
Hydraulic system motor	1.1 kw / 1.5 HP	0.75 kw / 1 HP	0.75 kw / 1 HP	Milling tool dia. 16mm	1 No	1 No	1 No
Coolant pump motor	0.09 kw / 0.12 HP	0.09 kw / 0.12 HP	0.09 kw / 0.12 HP	Segment wheel puller	1 No	1 No	1 No
Length of machine	4000 mm (157")	2600 mm (103")	2480 mm (95")	Handle type allenkey 4mm	1 No	1 No	1 No
Width of machine	1300 mm (51")	1200 mm (47")	1200 mm (47.25")	Dialing rod	1 No	1 No	1 No
Height of machine	2250 mm (89")	2050 mm (81")	1900 mm (75")	Head clamping fixture with stud	1 Set	1 Set	1 Set
Work space required (L X W)	5750 MM X 1600 mm	3800 X 1500 mm (122" X 59")	3100 X 1500 mm (110" X 59")	Washer (Head tightening)	2 Nos	2 Nos	2 Nos
Work height required	2350 MM (93")	2150 MM (85")	2050 MM (81")	Allenkey 14 mm	1 No	1 No	1 No
Net weight	3000 Kg (Aprox)	1850 KG (Aprox)	1500 KG (Aprox)	Lifting hole cover	6 No	6 No	6 No
Gross weight	3250 Kg (Aprox)	2500 KG (Aprox)	2420 KG (Aprox)	Operating manual	1 No	1 No	1 No
Shipping volume	15 M3	9 M 3	8 M 3				
Packing case outer size (L X W X H)	4250 X 1500 X 2485 mm (114" X 55" X 93")	2900 X 1400 X 2360 mm (104" X 55" X 87")	2650 X 1400 X 2205 mm (114" X 55" X 93")				
				<b>OPTIONAL ACCESSORIES</b>			
				Fly weel grinding device			
				V type block clamping fixture adjustable			
				Universal grinding fixture			
				Head clamping device			

# CRANK SHAFT GRINDING MACHINE - 2750



TECHNICAL SPECIFICATIONS	CSG - 2750	CSG - 2200	CSG - 1500
Height of centre from the table	350 mm - (13.8")	300 mm	265 mm
Maximum swing over table	700 mm - (27.5")	600 mm	530 mm
Maximum head offset	140 mm - (5.5")	140 mm	100 mm
Maximum distance between chuck	2725 mm	2150 mm	1450 mm
Maximum distance between centers	2800 mm	2200 mm	1500 mm
Maximum weight admitted between chuck	1250 kgs	500 kgs	250 kgs
Diameter of self centering chucks	250 mm - (10")	250 mm	200 mm
Diameter of grinding wheel	813 mm - (32")	813 mm	710 mm
Grinding head feed per turn of handle wheel	1 mm	1 mm	1 mm
Fast grinding head feed with control	350 mm	175 mm	150 mm
Micrometric grind head feed	-----	175 mm	150 mm
Work head spindle rotation speed (variable)	25 - 100 rpm	19 - 90 rpm	25 -100 rpm
Table slow feed per turn of hand wheel	5 mm	5.4 mm	5.4 mm
Table fast feed per turn of hand wheel	3000 mm / min.	15.2 mm	15.2 mm
Automatic table movement	-----	1 set	optional
Grinding wheel spindle	760 rpm.	760 rpm	900 rpm
Grinding wheel motor	7.5 hp / 5.5 kw/ 1440 rpm	5.5kw / 7.5 hp/ 1440 rpm	3.7 kw / 5 hp/ 1440 rpm
Work head motor	1 HP / 0.75 kw/ 1440 rpm	0.37kw / 0.5 hp/ 1440 rpm	0.37 kw / 0.5 hp/ 1440 rpm
Coolant pump motor	0.13 hp/ 2800 rpm	0.13 hp/ 2800 rpm	0.13 hp / 2800 rpm
Servo control motor (grinding wheel slide)	0.4 kw	0.4 kw	0.4 kv
Length of the machine	5400 mm	4500 mm	3500 mm
Width of the machine	2250 mm	1750 mm	1750 mm
Height of the machine	1650 mm	1650 mm	1550 mm
Work space required	7000 X 2000 mm	5100 X 1900 mm	5500 X 2000 mm
Work height required	1650 mm	1650 mm	1550 mm
Net weight	5 ton	4 ton	3.25 ton
Gross weight	6.5 ton	4.5 ton	4 ton
Shipping volume	17 m3	17 m3	15 m3

## MODELS

CSG 2750

CSG 2200

CSG 1500

OPTIONAL  
ACCESSORIES

Radius Dresser

Wheel Balancer

Heavy duty steady rest

STD. ACCESSORIES	CSG - 2750	CSG - 2200	CSG - 1500
Self centring chuck with key	02 Nos	02 Nos	02 Nos
Self centring chuck jaws	02 Nos	02 Nos	02 Nos
Face and side dresser assembly	01 No	01 No	01 No
Centres	02 Nos	02 Nos	02 Nos
Steady rest	01 No	01 No	01 No
Crank centring V gauge	01 No	01 No	01 No
Diamond dresser	01 No	01 No	01 No
Wheel hub	01 No	01 No	01 No
Grinding wheel	01 No	01 No	01 No
Ratchet spanner	01 No	01 No	01 No
Double end spanner 24/26	01 No	01No	01 No
Single end spanner 46	01 No	01 No	01 No
Allen key set ( 9 no's)	01 Set	01 Set	01 Set
Wheel hub puller	01 No	01 No	01 No
Wheel balancing arbour with nut	01 No	01 No	01 No
Levelling plate with bolt	12 Nos	12 Nos	10 Nos
Foundation bolt with nut	12 Nos	12 Nos	10 Nos
Coolant system	01 No	01 No	01 No
Splash guard	01 Set	01Set	01 Set
Spindle nut tightening spanner	01 No	01 No	01 No
Lifting hole cover	08 Nos	08 Nos	08 Nos
Crank truing gauge	01 No	01 No	01 No
Crank truing dial	01 No	01 No	01 No
Extra balancing weight with bolt	04 Nos	04 Nos	02 Nos
Face plate tightening spanner	01 No	01 No	01 No
Face plate puller	01 No	01 No	01 No
Ball screw rod nut tightening spanner	01 No	01 No	01 No
Radius Dresser	1 No	----	----
Operation manual	01 No	01 No	01 No

# CRANK SHAFT GRINDING MACHINE - 2200



Digital Display for grinding head movement, work head speed and table speed movement



Strong & rigid steady rest



Accurate radius dressing mechanism

# CONNECTING ROD BORING MACHINE - CRB 600

## MODELS

CRB 600  
CRB 450



Con-rod boring machines is solid & vibration free structure, main advantage is speed & feed is variable, accurate tool setting in microns, and excellent boring finish.

Digital Display is the friendly feature for quick identification of boring speeds.



Bore centering dial gauge helps quick truing of bore with in actual machining position.



TECHNICAL SPECIFICATIONS	CRB - 600V	CRB - 450V
Bore center distance	80 mm to 600 mm (3.1" x 23.6")	80 mm to 450 mm (3.1" x 17.7")
Boring spindle speed 100 -1000 rpm	infinity variable 100 -1000 rpm	infinity variable
Boring range	15 mm to 175 mm (0.6"-7")	15 mm to 140 mm (0.6"-5.5")
Bottom part traverse crosswise	50 mm(1.97")	50 mm(1.97")
Table movement longitudinal	300 mm(11.8")	300 mm(11.8")
A.C motor	1.5 kw / 2 hp	1.5 kw / 2 hp
D.C. Motor	0.19 kw /0.25 hp	0.19 kw/0.25 hp
Lenght of the machine	1300 mm (51")	1300 mm(51")
Width of the machine	800 mm (31.5")	800 mm(31.5")
Height of the machine	1850 mm (73")	1700 mm(67")
Work space required (L x W x H)	1800 mm x 1100 mm x 2000 mm (71" x 43" x 79")	1800 mm x 1100 mm x 1850 mm (71" x 43" x 73")
Net weight(approx)	775 kgs	725 kgs
Gross weight(approx)	1100 kgs	925 kgs
Shipping volume	3 m <sup>3</sup>	3 m <sup>3</sup>
Packing case outer size (L x W x H)	1500 mm x 950 mm x 2055mm	1500 mm x 950 mm x 1905 mm

STD. ACCESSORIES	CRB - 600V	CRB - 450V
Boring spindle dia 14	01 No	01 No
Boring spindle dia 25	01 No	01 No
Boring spindle dia 40	01 No	01 No
Boring spindle dia 90	01 No	01 No
Boring tool	06 Nos	06 Nos
Tsm. Frame small	01 No	01 No
TSM frame big with knob	01 No	01 No
Centering device	01 No	01 No
Tool setting micrometer	01 No	01 No
Con-rod fixing "v"block with pin	01 No	01 No
Con rod clamping collar dia 28mm	01 No	01 No
Con rod clamping collar dia 40mm	01 No	01 No
Con rod clamping collar dia 48mm	01 No	01 No
Con rod clamping collar dia 75mm	01 No	01 No
Con rod clamping collar dia 100mm	01 No	01 No
Taper pins for con rod clamping	10 Nos	10 Nos
Tool adjusting bracket with knob	01 No	01 No
Centring cone small	01 No	01 No
Centring cone big	01 No	01 No
Oil gun	01 No	01 No
Allen key set (9nos)	01 No	01 No
Foundation bolt with nut	04 Nos	04 Nos
Levelling plate with bolt	04 Nos	04 Nos
Eccentric plug	01 No	01 No
Lifting hole cover	04 Nos	04 Nos
Nylon plug	04 Nos	04 Nos
Operation Manual	01 No	01 No

## LINE BORING MACHINE - LBM 2500

### MODELS

LBM 2500

LBM 1500



- ▶ Infinitely variable spindle speed and feed to achieves good surface finish of the bore.
- ▶ Compact centering device for accurate bore centering.
- ▶ Tool setting micrometer with magnetic base for fast and accurate tool setting.
- ▶ Special alloy bearing bush for boring bar to ensure long life of the boring bar.

## LINE BORING MACHINE - LBM 1500



Tool setting micrometer device with magnetic base, for tool setting accurate repeatability



Centering of job on the machine could be very fast with the dial indicator







TECHNICAL SPECIFICATIONS	LBM - 2500	LBM - 1500
Maximum length of block	2500 mm (98.5")	1500 mm (59")
Max.Distance between top of bed to boring bar center	850 mm (33.5")	750 mm(29 1/2")
Min.Distance between top of bed and boring bar center	550 mm (21.5")	450 mm(17.75")
Boring capacity with standard equipments	32 mm – 175 mm (1.25" - 7")	32 mm-140 mm (1.25-5.5")
Boring capacity with optional equipments	24 mm – 225 mm (1" - 8.9")	24 mm-225 mm (1"-8.75")
Spindle speed infinitely variable	80 – 700 rpm	80-700 rpm
Feed both directions infinitely variable	0 – 50 mm/ min.	0-50 mm/min.
Max.Travel of boring bar	450 mm ( 17.75")	450 mm (17.75")
Drive motor( A.C)	1.5 kw / 2 hp	1.5 kw / 2 hp.
Spindle feed motor (D.C.)	0.18 kw / 0.25 hp	0.18 kw / 0.25 hp
Length of machine	4840 mm (190")	3840 mm (151")
Width of the machine	750 mm (29.5")	750 mm (29.5")
Height of machine	1850 mm (73")	1750 mm (69")
Work space required (L x W x H)	6000x1750 x 2000 mm (236" x 69" x 78.7")	5000 x 1750 x 1900 mm (197" x 69" x 75")
Net weight (approx.)	2250 kgs	1750 kg
Gross weight (approx.)	2750 kgs	2250 kgs
Shipping volume	8 m <sup>3</sup>	6 m <sup>3</sup>
Packing case outer size (L x W x H)	5100 x 1000 x1595 (200" x 40" x 62")	4100 x 1000 x1495 mm (161"x40"x 58.8")

STD. ACCESSORIES	LBM - 2500	LBM - 1500
Setting up parallel 100mm height x 550mm long	01 Pair	01 Pair
Setting up parallel 100mm height x 750mm long	01 Pair	---
Setting up parallel 200mm height x 550mm long	01 Pair	01 Pair
Boring bar dia 30 x 1600mm long	01 No	01 No
Boring bar dia 48 x 2000mm long	01 No	01 No
Boring bar dia 60 x 3000mm long	01 No	---
Bearing bush for boring bar dia 30mm	02 Nos	02 Nos
Bearing bush for boring bar dia 48mm	02 Nos	02 Nos
Bearing bush for boring bar dia 60mm	02 Nos	---
Extra support for boring bar dia 60mm with bush	01 No	---
Centring cone dia 30	02 Nos	02 Nos
Centring cone dia 48	02 Nos	02 Nos
Centring cone dia 60	02 Nos	---
Cutter head dia 90 for boring bar dia 48mm	---	01 No
Cutter head dia 100 for boring bar dia 60mm	01 No	---
Cutter head dia 135 for boring bar dia 60mm	01 No	---
Boring tool dia 7 x 22mm long	01 No	01 No
Boring tool dia 7 x 28mm long	01 No	01 No
Boring tool dia 12 x 55mm long	02 No	02 Nos
Boring tool dia 12 x 67mm long	02 No	01 No
Boring tool dia 12 x 20mm long	01 No	---
Boring tool dia 12 x 30mm long	01 No	---
Boring tool dia 12 x 35mm long	01 No	---
Facing tool dia 12 x 69mm long	02 Nos	01 No
Tool setting micrometer	01 No	01 No
Magnetic base small	01 No	01 No
Magnetic base big	01 No	---
Centering device with dial indicator	01 No	01 No
Boring bar rest	01 No	01 No
Block clamping assembly	04 Nos	04 Nos
Leveling plate with bolt	06 Nos	04 Nos
Foundation bolt with nut	06 Nos	04 Nos
Oil gun	01 No	01 No
Allen key set (9nos)	01 Set	01 Set
Double end spanner 24/26	01 No	01 No
Handle type allenkey 4mm	01 No	01 No
Handle type allenkey 6mm	01 No	01 No
Centring pin dia 7 & 12mm	01 No	01 No
Operation manual	01 No	01 No

# VERTICAL CYLINDER HONING MACHINE VCH 450

## MODELS

VCH 450EL  
VCH 450  
VCH 350

This machines is hydraulically operated with variable spindle speeds and feeds, and also you can hone the bore with any hacth angle.



TECHNICAL SPECIFICATIONS	VCH - 450EL	VCH - 450	VCH - 350
Minimum honing diameter	62 mm(2.5")	62 mm(2.5")	62 mm (2.5")
Maximum honing diameter	200 mm(8")	200 mm(8")	140 mm(5.5")
Honing diameter with extra honing head	250 mm(10")	250 mm(10") (1.5" – 8")	38 mm-200 mm
Minimum honing stroke	50 mm(1.96")	50 mm(1.96")	50 mm (1.96")
Maximum honing stroke	450 mm(17.7")	450 mm(17.7")	350 mm (13.7")
Stroke speed (infinitely variable)	1-12 m/min	1-12m/min	1-12 m/min
Spindle speed variable	25-200 rpm-3 hp drive	25-200rpm-3hp drive	25-200 rpm
Motor spindle drive	1.5 kw/2 hp	1.5kw/2hp	1.5 kw/2hp
Max. Block length	1400 mm(55.1")	1100mm(55.1")	1100 mm
Max. Block width	550 mm(21.7")	550mm(21.7")	550 mm
Max. Block height	600 mm(23.6")	600mm(23.6")	450 mm
Motor power pack	0.75 kw/1 hp	0.75kw/1hp	0.75 kw/1hp
Electric coolant pump motor	0.09 kw/0.12 hp	0.09 kw/0.12 hp	0.09 k/ 0.12 hp
Honing head traverse	1300 mm	1000 mm	1000 mm (39.3")
Length of the machine	1920 mm	1620 mm	1620 mm ( 63.7")
Width of the machine	1300 mm	1300 mm	1300 mm (51.2")
Height of the machine	1850 mm	1850 mm	1750 mm (74")
Work space required (L x W x H)	2000 x 1400 x 2070 mm (78.7" x 55" x 81.5")	1700 x 1400 x 2070 mm (67 x 55" x 77.5")	1700 x 1400 x 1970 mm (67 x 55" x 77.5")
Net weight (approx.)	900 kgs	750 kgs	720 kg
Gross weight (approx.)	1600 kgs	1250 kgs	1200 kg
Shipping volume	8 m <sup>3</sup>	6 m <sup>3</sup>	6 m <sup>3</sup>
Packing case outer size (L x W x H)	2200 x 1500 x 2145 mm (86.6" x 65" x 84.4")	1900 x 1500 x 2145mm (74.8" x 59" x 84.4")	1900 x 1500 x 1950 mm (74.8" x 59" x 85")

STD. ACCESSORIES	VCH - 450EL	VCH - 450	VCH - 350
Setting up parallel 100mm height x 500mm long	01 Pair	01 Pair	01 Set
Setting up parallel 100mmheight x 650mm long	01 Pair		
Honing head 62mm to 140 mm with stone	01 No	01 No	01 No
Honing head 115mm to215mm with stone	01 No	01 No	
Double end spanner 22/24	01 No	01 No	01 No
Handle type allen key 4mm	01 No	01 No	01 No
Allen key set (9nos)	01 Set	01 Set	01 Set
T-bolt with nut & washer	04 Nos	04 Nos	04 Nos
Setting up parallel tightening bolt nut and washer	06 Nos	02 Nos	02 Nos
Block tightening clamp	04 Nos	04 Nos	04 Nos
Foundation bolt washer & nut	04 Nos	04 Nos	04 Nos
Extension holder (medium)	01 No	01 No	01 No
Carrier holder (medium and big)	01 No	01 No	01 No
Honing buff	2 Set	2 Set	2 Set
Operation manual	01 No	01 No	01 No

### OPTIONAL ACCESSORIES

- Quick clamping device.
- V type block clamping fixture
- Friction feed hone head
- Stroke counter

# TWO WHEELER SINGLE CYLINDER BORING MACHINE - VCB 700

## MODELS

VCB 700  
VCB 600



We introduced it for the first time in India for two wheeler segments specially developed for two wheeler cylinder block boring. These machines will perform accurate boring, accurate tool setting and quick clamping the cylinder blocks.

TECHNICAL SPECIFICATIONS	VCB - 700	VCB - 600
Boring capacity	48 - 110 mm (1.9" - 4.3")	38 - 78 mm (1.5" - 3")
Max. Boring head travels	300 mm (11.9")	300 mm (11.9")
Spindle speed (infinitely variable)	50 - 550 rpm	50 - 550 rpm
Spindle feed	0.05 mm/revolution	0.05 mm/revolution
Max distance from spindle center to column	250 mm (9.9")	250 mm (9.9")
Working table size (L X W)	700 x 300 mm (27.55" x 11.9")	600 x 300 mm (23.6" x 11.9")
Table traverse – longitudinal	350 mm (17.7")	250 mm (9.9")
Table traverse – cross wise	30 mm (1.2")	30 mm (1.2")
Motor spindle speed	0.75 kw/ 1hp	0.75 kw/1 hp
Motor rapid speed	0.19 kw /0.25hp	0.19kw / 0.25 hp
Length of machine	1300 mm	1150 mm
Width of machine	1000 mm	1000 mm
Height of machine	1905 mm	1750 mm
Packing size outer size (L X W X H)	1450 x 1200 x 2155 mm (57" x 47.3" x 85")	1350 x 1200 x 2000 mm (53.15" x 47.34" x 78.74")
Gross weight (approx)	1400 kgs	1000 kgs
Net weight (approx)	1000 kgs	750 kgs
Shipping volume	4 m3	3 m3
STD. ACCESSORIES	VCB - 700	VCB - 600
Setting up parallel 60mm height	01 Pair	01 Pair
Setting up parallel 100mm height	01 Pair	
Tool setting micrometer	01 No	01 No
Tsm frame with knob	01 No	01 No
M12 T bolt & nut with washer	04 No	04 Nos
M16 T bolt & washer with nut	08 Nos	08 Nos
Block tightening clamp	04 Nos	04 Nos
Single cylinder block tightening clamp	01 No	01 No
Handle type allen key 4mm	01 No	01 No
Handle type allen key 3mm	01 No	01 No
Allenkey set (9nos.)	01 Set	01 Set
Boring spindle dia 36mm with centring device		01 No
Boring spindle dia 46mm with centring device	01 No	
Boring spindle dia 60mm with centring device	01 No	
Boring tool dia 12 X 35 mm		01 No
Boring tool dia 12 X 45mm		01 No
Boring tool dia 18 X 37mm	01 No	
Boring tool dia 18 X 47mm	02 Nos	
Boring tool dia 18 X 67mm	01 No	
Chamfering tool dia 36mm spindle		01 No
Chamfering tool dia 46 spindle	01 No	
Chamfering tool dia 60 spindle	01 No	
Levelling plate with bolt	03 Nos	03 Nos
Foundation bolt with nut	03 Nos	03 Nos
Lifting hole cover	02 Nos	02 Nos
Double end spanner 22/24	01 No	01 No
Auto stop spindle rpm control	01 Set	
Oil gun	01 No	01 No
Operation manual	01 No	01 No

# TWO WHEELER SINGLE CYLINDER HONING MACHINE - VCH 200M



## MODELS

VCH 200M  
VCH 200

This is machine specially developed for two wheeler single cylinder honing. This version of machines are developed for the first time in India for making accurate honing and quick hydraulic clamping of the cylinder blocks.

TECHNICAL SPECIFICATIONS	VCH - 200M	VCH - 200
Minimum honing diameter	38 mm (1.5")	38 mm (1.5")
Maximum honing diameter	90 mm (3.6") Optional 100 mm (4")	90 mm (3.6") Optional 100 mm (4")
Minimum honing stroke	50 mm (2")	50 mm (2")
Maximum honing stroke	200 mm (8")	200 mm (8")
Stroke speed (Infinitely variable)	1 -10 m/min	1 -10 m/min
Spindle speed (Infinitely variable)	0 - 250 rpm	0 - 250 rpm
Motor for spindle drive	0.75 kw/1 hp	0.75 kw/1 hp
Motor for power pack	0.75 kw/1 hp	0.75 kw/1 hp
Coolant motor	0.08 kw/0.1 hp	0.08 kw/0.1 hp
Length of the machine	1100 mm	1100 mm
Width of the machine	865 mm	865 mm
Height of the machine	1775 mm	1775 mm
Net weight (Approx)	350 kg	350 kg
Gross weight (Approx)	350 kg	350 kg
Shipping volume	4 m <sup>3</sup>	350 kg

STD. ACCESSORIES	VCH - 200M	VCH - 200
Single cylinder clamping device (Hydraulic)	1 No	1 No
Honing head 34 mm to 60 mm (1.5" - 2.2")	1 No	1 No
Honing head 45 mm to 65 mm (1.8" - 2.4")	1 No	1 No
Honing head 65 mm to 90 mm (2.4" - 3.6")	1 No	1 No
Double end spanner	1 No	1 No
Allen key set (9 Nos.)	1 Set	1 Set
Honing stone 8x8x75 400C	4 Nos	4 Nos
Honing stone 10x10x75 400C	4 Nos	4 Nos
Honing stone 6x6x75 400C	4 Nos	4 Nos
Honing buff 8x8x75	4 Nos	4 Nos
Honing buff 10x10x75	4 Nos	4 Nos
Honing buff 6x6x75	4 Nos	4 Nos
Allen key handle type 4mm	1 No	1 No
Foundation Bolt with nut	4 Nos	4 Nos
Carrier Holder (Small, Medium & Big)	3 Nos	3 Nos
Operation Manual	1 No	1 No

# CRANK SHAFT STRAIGHTENING PRESS - CSP 3000

## MODELS

CSP 3000  
CSP 2000



TECHNICAL SPECIFICATIONS	CSP - 3000	CSP - 2000
Maximum distance between 'v' block	2900mm	1900mm
Minimum distance between 'v' block	250mm	250mm
Maximum journal diameter	130mm	100mm
Height of 'v' block from bed	250mm	250mm
Hydraulic pump capacity	25 ton	15 ton
Length of the machine	3300mm	2300mm
Width of the machine	500mm	500mm
Height of the machine	950mm	900mm
Net weight (approx)	330 kg	280 kg
Gross weight (approx)	500 kg	450 kg
Shipping volume	3 m3	2 m3
Packing case size (L X W X H)	3550 X 750 X 1150mm	2550 X 750 X 1100mm

Crankshaft straightening press is designed for the straightening of Crankshaft at the seat of distortion. The straightness of Crankshaft is the most important factor that decides its life in the course of use. The Crankshaft of engine is liable to get bent due to thermal and mechanical stresses. Any bend in the crankshaft must therefore be corrected by crankshaft straightening press.

## TOOL GRINDER TG 150



This grinder is developed for all our boring machine tools reshaping and for keeping clear cutting clearance.

## CONNECTING ROD ALIGNMENT CHECKING DEVICE RACD 450

For easy bend and twist checking of connecting rods with precision dial indicators.





MAXPRECI BANGALORE UNIT II



MAXPRECI UAE



MAXPRECI BANGALORE UNIT I

# MAXPRECI



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