



HYDRAULIC CYLINDRICAL GRINDER

CONVENTIONAL AND CNC CENTRELESS GRINDER

CNC UNIVERSAL GRINDER

SPM GRINDERS

CNC INTERNAL GRINDER

NON ROUND GRINDER

JOURNAL / PIN GRINDER

CNC EXTERNAL GRINDER

CBN GRINDERS

VALVE SEAT GRINDER

CYLINDRICAL GRINDERS

ABOUT US

Established in 1973, Micromatic Grinding Technologies Ltd (MGT) have been manufacturing a wide range of External, Internal, Universal and Special Purpose Cylindrical Grinders in CNC, PLC, and Hydraulic versions. These machines are built to the exacting requirements of our customers from its 4 plants in Ghaziabad near New Delhi and Bangalore in South India. Production CNC Centreless Grinders, Internal Grinders & Crankshaft Journal Grinders have also been added to expand the range of new machines being offered from the 4th new plant at Bangalore started in 2008. Since 2005, MGT has emerged as the market leader with nearly 50% market share in India.

Five decades of building an organisation Culture of ethical & transparent working, combined with the pursuit of excellence, drives Team MGT towards its vision of "Becoming the Best." We at MGT are constantly seeking new avenues to partner, acquire latest technology, skills, and quality-centric processes to cocreate value & your success. 4000 machines delivered worldwide with many repeat references from a Global customer list, stand as a testimony to customer's preference for Micromatic Grinding machines.



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HYDRAULIC CYLINDRICAL GRINDER

SPECIFICATIONS	U/M	ECO 200
Swing Diameter	mm	200
Admit Between Centre	mm	400 [600]
Grinding Length	mm	400
Grinding Wheel (Max dia x Max width)	mm	350 x 50
Spindle Power	kW	3.7
Wheel Speed	m/Sec	33

[] Option



Model ECO 200 Compact

Also available with the CE Mark



Model GC 350 Medium Duty

Also available with the CE Mark

SPECIFICATIONS	U/M	GC 350		
Swing Diameter	mm	350		
Admit Between Centre	mm	630	800	1200
Grinding Length	mm	500	750	1150
Grinding Wheel (Max dia x Max width)	mm	400[500#]x50[80]		
Spindle Power	kW	3.7 [5.5]		
Wheel Speed	m/Sec	33 [45]		

Only for External model
[] option

SPECIFICATIONS	U/M	GCH 440			
Swing Diameter	mm	400 [550]			
Admit Between Centre	mm	800	1600	2000	3000
Grinding Length	mm	750	1500	2000*	3000
Grinding Wheel (Max dia x Max width)	mm	500 [600#] x 80 [100]			
Spindle Power	kW	7.5 [11]			
Wheel Speed	m/Sec	33 [45]			

* Higher capacity machine upto 3000 ABC are available specifications on request
Only for External model



Model GCH 440 Heavy Duty

Also available with the CE Mark

CNC EXTERNAL CYLINDRICAL GRINDER ECONOMICAL

SPECIFICATIONS	PLUTO 18
Swing diameter	200 mm
Admit Between Centre	230 mm
Grinding Length	180 mm (Towards Tailstock)
Grinding Wheel (Max dia x Max width)	400 x 50 mm
Spindle Power	3.7 kW
Wheel Speed	30 m/Sec

[] Option



Model PLUTO 18

Also available with the CE Mark



Model Simple G grind

Specifications	U/M	SG 40 CNC	SG 63 CNC	SG 100 CNC
Swing Diameter	mm	350	350	350
Admit Between Centre	mm	500	800	1200
Grinding Length	mm	400	630	1000
Grinding Wheel (Max dia x Max width)	mm	Ø500 X 50 [80#]	Ø500 X 50 [80#]	Ø500 X 50 [80#]
Spindle Power	kW	3.7 [5.5]	3.7 [5.5]	3.7 [5.5]
Wheel Speed	m/Sec	33 [45]	33 [45]	33 [45]

with recess
[] option

CNC UNIVERSAL GRINDING MACHINE FLEXI

Specifications	Flexi 400	Flexi 630	Flexi 1000
Centre Height	175 mm	175 mm	175 mm
Admit between Centre	400 mm	630 mm	1000 mm
Swiveling range	-15 to +225 degree	-15 to +225 degree	-15 to +225 degree
B- Axis Resolution	0.0001 degree	0.0001 degree	0.0001 degree
Grinding Wheel Size (OD x Thick X Bore) Left Side	500 x 40 (50ROS) x 203.2 mm	500 x 63 (80ROS) x 203.2 mm	500 x 63 (80ROS) x 203.2 mm
Grinding Wheel Size (OD x Thick X Bore) Right Side	500 x 40 (50ROS) x 203.2 mm	500 x 63 (80ROS) x 203.2 mm	500 x 63 (80ROS) x 203.2 mm
Spindle motor power (built in type)	7.5 kw	7.5 (11) kw	7.5 (11) kw
Peripheral (surface) speed	50 m/sec.	50 m/sec.	50 m/sec.
Floor space Front x Depth (Basic machine)	3100 x 2800 mm	3500 x 2800 mm	4200 x 2800 mm
Machine weight (Approximate)	4500 kg	5500 kg	6500 kg



Model Flexi 400

Also available with the CE Mark

PRODUCTION CNC EXTERNAL GRINDER

SPECIFICATIONS	U/M	e GRIND 200 CNC
Swing Diameter	mm	200
Admit Between Centre	mm	250
Grinding Wheel (Max dia x Max width)	mm	Ø450 [500]X 50 [80 with spacer]
Spindle Power	kW	5.5
Wheel Speed	m/Sec	45

[] option



Model e Grind 200 CNC

Also available with the CE Mark



Model Stallion (SM Series)

Also available with the CE Mark

Specifications	U/M	SM 40	SM 63	SM 100	SM 120	SM 150	SM 200
Swing Diameter	mm	320	320	320	320	320	320
Admit between Centre	mm	400	630	1000	1200	1500	2000
Grinding wheel (Max dia x Max width)	mm	Ø550x80 [120#]	Ø550x80 [120#]	Ø550x80 [120#]	Ø550x80 [120#]	Ø550x80 [120#]	Ø550x80 [120#]
Spindle Power	kW	7.5 [11]	7.5 [11]	7.5 [11]	7.5 [11]	11	11
Wheel Speed	m/Sec	45	45	45	45	45	45

with recess [] option

Specifications	U/M	SH40	SH 63	SH 100	SH 120	SH 150	SH 200
Swing Diameter	mm	320	320	320	320	320	320
Admit between Centre	mm	400	630	1000	1200	1500	2000
Grinding wheel (Max Dia x Max Width)	mm	Ø660 x 145 [#] (45 m/s)	Ø660 x 145 [#] (45 m/s)	Ø660 x 145 [#] (45 m/s)	Ø660 x 145 [#] (45 m/s)	Ø660 x 145 [#] (45 m/s)	Ø660 x 145 [#] (45 m/s)
	mm	Ø660 x 120 [#] (60 m/s)	Ø660 x 120 [#] (60 m/s)	Ø660 x 120 [#] (60 m/s)	Ø660 x 120 [#] (60 m/s)	Ø660 x 120 [#] (60 m/s)	Ø660 x 120 [#] (60 m/s)
Spindle power	kW	11 [15]	11 [15]	11 [15]	11 [15]	11 [15]	11 [15]
Wheel speed	m/Sec.	45 / 60	45 / 60	45 / 60	45 / 60	45 / 60	45 / 60

with recess [] option

*Grinding Wheel with Ø760 x 180 mm width and 22 kW motor power is available as an option



Model Stallion (SH Series)

Also available with the CE Mark

Specifications	U/M	h GRIND 360 CNC
Swing Diameter	mm	360 / 500 / 600
Admit between Centre	mm	630 / 1200 / 2000 / 3000
Grinding wheel (Max Dia x Max Width)	mm	Ø760 x 180 [#]
Spindle power	kW	22 [30]
Wheel speed	m/Sec.	45

with recess [] option



Model h Grind 360 CNC

CNC CRANKSHAFT/CAMSHAFT GRINDER

Specifications	U/M	R80	R120
Swing Diameter	mm	500	500
Admit between Centre	mm	800	1200
Grinding wheel (Max Dia x Max Width)	mm	Ø900 x 50	Ø1066 x 50
Spindle power	kW	15	22
Wheel speed	m/Sec.	45	60

with recess [] option



Model Rhino R 80/120

Also available with the CE Mark

Specifications	U/M	CBN 32
		40 63 120
Swing over table		320
Grinding diameter	mm	100
Grinding length	mm	400 630 1200
Grinding wheel size (OD x Bore x Width)	mm	CBN 450 x 40 x 35
Spindle motor power (AC Servo Motor)	kW	22
Wheel Peripheral Speed		80

Specifications	U/M	CBN TWIN WHEEL HEAD
Swing over table	mm	500
Grinding diameter	mm	Ø135
Grinding length	mm	1300
Wheel Head 1 Grinding wheel size (OD x Bore x Width)	mm	650×160×50
Wheel Head 2 Grinding wheel size (OD x Bore x Width)	mm	650×160×50
Spindle motor power (BOTH WHEELS) (AC Servo Motor)	kW	37
Wheel Peripheral Speed	m / Sec	80

CNC CBN GRINDER



Model CBN 3263

Also available with the CE Mark

PRODUCTION CONVENTIONAL CENTERLESS GRINDER

SPECIFICATIONS	CLG-4015C	CLG-5020C	5025C	6030C
Component Size Min.~Max. Dia	Ø2 ~ Ø60 mm	Ø3 ~ Ø60 mm	Ø3 ~ Ø60	Ø3~Ø120
Grinding Wheel – Dia x width x bore	Ø405x150xØ203.2 mm	Ø510x200xØ254 mm	510x250x310	610x305x304.8
Max Wheel Surface Speed	33 m/Sec	33 [45] m/Sec	33 [45] m/sec	33 m/sec.
Grinding Wheel Spindle Power	7.5 kW	11 [15] kW	11 [15]kW	30kW
Regulating Wheel – Dia x Width x bore	Ø255x150xØ127 mm	Ø305x200xØ127 mm	305x250x127 (RBSØ230x50)	350x305x152.4
Regulating Wheel Spindle Power	1.1 kW	1.5 kW	1.5 kW	2.2 kW



Model CLG 4015 C

PRODUCTION CNC CENTRELESS GRINDER

Specification	U/M	CLG 4015	CLG 5020	CLG 6015	CLG 6025 S
Component Size Min, ~ Max. Dia	mm	2 ~ 50	2 ~ 60	2 ~ 60	2 ~ 60
Grinding Wheel – Dia x width x bore	mm	Ø405 x 150 x Ø 203.2	Ø510 x 200 x Ø 254	Ø610 x150 x Ø 304.8	Ø610 x 250 x Ø304.8 (RBS)
Max Wheel Surface Speed	m/Sec	45	45	45	45
Grinding Wheel Spindle Power	kW	7.5	11 [15]	11 [15]	15
Regulating Wheel – Dia x Width x bore	mm	Ø225 x 150 x Ø200	Ø305 x 200 x Ø127	Ø305 x 150 x Ø127	Ø350 x 250 x Ø127 (RBS)
Regulating Wheel Spindle Power	kW	0.75	1.5	1.5	1.5
Infeed Slide Servo Motor	Nm	12	11	11	11

[] option



Model CLG 5020

Also available with the CE Mark

Specifications	U/M	CLG 6050(TG) / CLG 6060(TG)	CLG 6025	CLG 6030(TG)
Component Size Min, ~ Max. Dia	mm	5 ~ 120	3 ~ 120	3 ~ 120
Grinding Wheel – Dia x width x bore	mm	Ø610x600xØ304.8 / Ø610x500xØ304.8	Ø610x250 x Ø304.8	Ø610x305 x Ø304.8
Max Wheel Surface Speed	m / Sec	45	45	45
Grinding Wheel Spindle Power	kW	37 / 45	22 [30]	30
Regulating Wheel – Dia x Width x bore	mm	Ø355 x 500 / Ø600 x 203.2	Ø350 x 250 x Ø152.4	Ø350 x 305 x Ø152.4
Regulating Wheel Spindle Power	kW	3.7	2.2	2.2
Infeed Slide Servo Motor	Nm	22	22	22

TG = Twin Grip
[] option

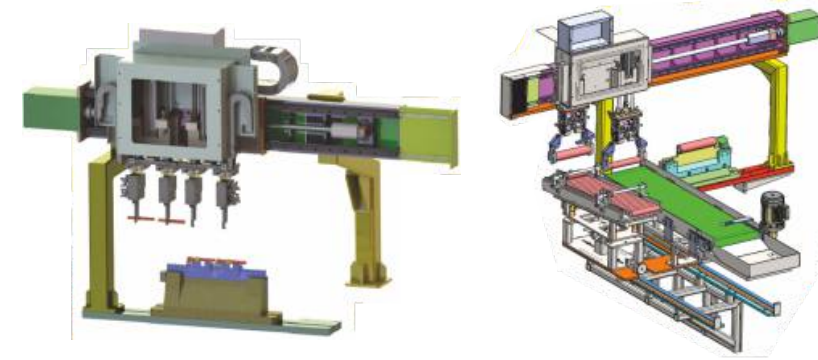


Model CLG 6020

Also available with the CE Mark

AUTOMATION FOR CNC CENTRELESS GRINDER

- Auto loading/unloading equipment for in-feed grinding (Optional)
- Engine valve Automation
- Gantry type loading/ unloading system
- Auto loading/unloading equipment for Thru feed grinding (Optional)
 - Vibratory bowl feeder for small work pieces
 - Roller/Belt conveyor for round tubes and bar



PRODUCTION CNC INTERNAL CYLINDRICAL GRINDER

SPECIFICATIONS	U/M	IG 50 CNC
Max. Swing dia of Chuck	mm	250
Max./ Min. Grinding diameter	mm	70 / 5
Maximum Grinding depth	mm	70
Workhead Spindle Nose		A2-5
Max. component weight (including Chuck)	kg	70
Work Spindle speed range	rpm	100-1200
Internal Grinding spindle	RPM	Belt Drive- upto 35,000 / HF Drive -upto1,05,000

[] Option



Model IG 50 Cnc

Also available with the CE Mark



Model IG 150 / IG 150 U

Also available with the CE Mark

Specifications	U/M	IG 150	IG 150 U
Max. Swing dia of Chuck	mm	450, 600	300 [450, 600]
Max./Min Grinding diameter	mm	150 [250] / 5	150 [200] /5
Maximum Grinding depth	mm	200	120
Workhead Spindle Nose		[A2-6, A2-8]	A2-6 [A2-8]
Max. component weight (including Chuck)	kg	110, 150	110 (150)
Internal Grinding spindle	RP M	Belt Drive-upto 35,000 / HF Drive - upto 1,05,000	Belt Drive-upto 35,000 / HF Drive upto 1,05,000
OD grinding Wheel size	mm	--	Ø 400 x 50

[] Option

SPM – SPECIAL PURPOSE MACHINES & AUTOMATION SOLUTIONS



BEARING RACE INTERNAL GRINDER

ORBIT 65 is a CNC Bearing Grinding machine suitable for grinding ID and outer race of bearings. Shoe centreless fixture is used to achieve highest precision in size and geometry. The machine is capable for high-speed grinding up to 80 m/sec wheel surface speed

The axes move on High precision Linear motion guideways for precise positioning & repeatability.



Model ORBIT 65

Also available with the CE Mark

HIGH SPEED VALVE SEAT GRINDER



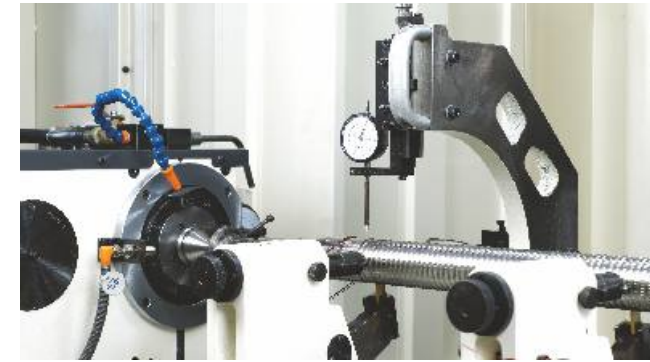
Specifications	U/M	GVS 60 CNC
Head Diameter	mm	20 ~ 50
Seat Angle	Degree	45 ~ 60
Grinding Wheel (Max Dia x Max Width)	mm	Ø610 x 20
Type of Wheel		Conventional [CBN]
Spindle Power	kW	5.5
Wheel Speed	m / sec	60

[] Option

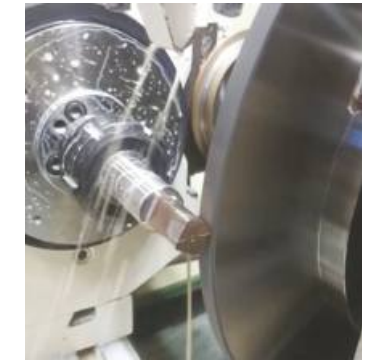
Model GVS CNC

Also available with the CE Mark

BROACH GRINDER (SPM)



NON ROUND GRINDER (SPM)



PLC ENGINE VALVE SEAT GRINDING MACHINE

SPECIFICATIONS	U/M	GVS 60 CR
Head Diameter	mm	Ø 20 ~ 60
Seat Angle	Degree	45° ~ 70°
Stem Diameter	mm	4.5 ~ 15
Overall Length	mm	55 ~ 170
Cutting Speed	m / sec	45



Model GVS 60CR

Also available with the CE Mark

CHUCK SLOT GRINDER (SPM)



NICKEL SHEET GRINDER (SPM)

