

OFFER

**UNIVERSAL / EXTERNAL CYLINDRICAL GRINDING MACHINE
MODEL GC U / E**



*Note:- Colour shown in picture may not match with actual colour due to printing limitations.
Features & specification mentioned may vary & may not be a part of standard machine.*

Submitted To:



From:-

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SPECIFICATION OF GC E / U		
DESCRIPTION	UNIT	GC E / U
CAPACITY		
Swing over table	mm	260 / 350
Grinding length / ABC	mm	500/ 630/ 800/ 1000/ 1200
Grinding Diameter (Max. OD)	mm	160
Grinding Diameter (Min. OD)	mm	6
Grinding Diameter (Max. ID)	mm	140
Grinding Diameter (Min. ID)	mm	6
Max. weight of job between centers	kg	80
Max. weight of job on chucking application (Including Chuck Job)	kg	50
WHEEL HEAD		
Grinding wheel size (ODxDxWidth)	mm	400[500]* x 127[203.2] x 50 [80]
Minimum usable size of Grinding Wheel (OD)	mm	300 [360 with 500 mm wheel]
spindle speed	rpm	1430-1870 (with 400mm wheel & 33mps) 1250-1650 (with 500mm wheel & 33mps) 1700-2200 (with 500mm wheel & 45mps)
Spindle motor power	kW	3.7 [5.5]
Peripheral (surface) speed	m/sec	33 [45]
Rapid approach	mm	50
Infeed with handwheel	mm	20
Max. Plunge feed on Dia. (auto)	mm	1.7 [3.4]
Minimum increment on diameter	mm	0.001
infeed rate on diameter(coarse/fine)	mm/min	0.015 - 6 / 0.015 - 3
spark off time	sec	0 - 60
TABLE		
Table speed	m/min	0.1 - 5
Table stroke	mm	550/ 680/ 850/ 1050/ 1250
Minimum automatic travel	mm	2
Maximum swivel of table	deg.	-3° to 12°/ -2° to 10°/ -3° to 9/ -2° to 8°/ -1° to 7°
WORKHEAD		
Taper bore	mm	MT - 5
Spindle speed	rpm	56 - 630 (8 - steps)
Spindle motor power (In 2 Steps)	kW	0.25 / 0.5

TAILSTOCK		
Centre taper	no.	MT - 4
Quill travel	mm	40
Taper Correction Range(Optional)	mm	[±0.04]
Quill diameter	mm	50
HYDRAULIC UNIT		
Tank capacity	Litre	40
Motor power	kW	0.75
Pump Capacity	lpm	10
INTERNAL GRINDING (Only for GCU)		
Spindle Size - DiaxLength(Max.rpm)	mm(rpm)	60 x 250(18000) STD
Optional spindle(DiaxLength(Max.rpm)	mm(rpm)	[45X250(30000)]
Optional spindle(DiaxLength(Max.rpm)	mm(rpm)	[80X250(12000)]
Spindle housing bore	mm	80
motor power	kw	1.5
GENERAL		
Operation voltage	volts	415+/-10% AC 3 Phase
Total power requirement	kW	6.5 [8.5]
Floor space Including Std. coolant tank (LxW)	mm	(2500 x 2000) / (2500 x 2000) / (3500 x 2000) / (4100 x 2000) / (4500 x 2000)
Machine weight	kg	2600 / 2800 / 3200 / 3800 / 4000

NOTE:

[] Optional

1) Max. & Min. grinding dia as specified above may vary based on specific job requirement. Please discuss before placing the order on us.

GCE model will be with Dead Center (Non Rotating) Work Head. In case Live center (Rotating) Work Head is required with E Model, the same needs to be ordered in lieu of STD.

* Option of 500mm wheel OD for GCE Model only, for GCU Model wheel max. OD will be 400mm.