

**FUNCTION GENERATOR  
MAKE : SI / MODEL : SI-FG-2**



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**TECHNICAL SPECIFICATION**

Multi waveforms: Sine, Triangle, Square, Ramp, Pulse etc.

Built-in 6 digits counter up to 30MHz.

DC offset, symmetry continuously adjustable.

VCF input.

**Main Output**

Output frequency	0.2Hz ~ 2MHz
Output waveforms	Sine, Square , Triangle, Ramp, Pulse, etc
Output impedance	50 ohm $\pm$ 10%
Output amplitude	>20Vp - p (1Mohm Load); >10Vp – p (50 ohm Load)
Output attenuation	0dB / 20dB / 40dB / 60dB
DC offset	0 ~ $\pm$ 10V (1 Mohm Load); 0 ~ $\pm$ 5V (50ohm Load)
Symmetry	10% ~ 90%

**Sine wave**

Distortion factor	20Hz ~ 20kHz < 1%
Frequency response	2Hz ~ 2MHz < $\pm$ 1dB

**Square wave**

Rise or fall time	<30 ns
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**VCF**

Input Voltage	-5 ~ 0V
Input Impedance	10 kohm $\pm$ 10%
50Hz Output	2Vp-p, mains synchrony

**TTL output**

Rise or fall time	50 ns
Low level	0.4 V
High level	3.5 V

**Counter**

Display	6 digits
Frequency range	0.5Hz ~ 30MHz
Input impedance	10 Komh $\pm$ 10%
Sensitivity	200mVrms
Accuracy	<0.1Hz / 1Hz
Error	0.1% $\pm$ 1 digit
Max. input voltage	50 Vp-p
Power source	220~240 VAC $\pm$ 10%, 50Hz $\pm$ 2Hz

**TOOL AND CUTTER GRINDER  
MAKE : SI / MODEL : SI-TCGG-2**



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TECHNICAL SPECIFICATION	
Swing over table	279 mm
Admit between centre	250 x 450 mm
Table longitudinal traverse	275 mm
Table cross traverse	125 mm
Table Dimension	125 mm x 600 mm
T slots	11mm
Center of wheel above table	250 mm
Table swivel	90 degree
Head swivel	360 degree
Spindle speed	2800 RPM
Electric motor	3.0 KW
Set of loose centre heads	2 PC.
Compound universal work head	1 PC.
Universal Tooth Rest	1 PC.
Tool Sharping	1 PC.
Grinder Wheels	2 PCS.
Machine Steel Cabin	500 x 700 mm
Machine Height	1500 mm
Length x Breath	1000 x 875 mm
Rising Block Dia.	72 mm

**PILLAR DRILLING MACHINE**  
**MAKE : SI / MODEL : SI-PDM-20**



**TECHNICAL SPECIFICATION**

Motorized Drilling capacity	20 mm ,8 Speed, Swivel table
Speed range	3300 RPM
Spindle Nose	MT-2
Spindle Center to column	205 mm
Spindle Travel	110 mm
Distance spindle to table	750 mm
Distance spindle to base	915 mm
Working surface of Base	265 x 220 mm
Working surface of table	260 x 270 mm
Column Diameter	74 mm
Machine base	470 x 290 mm
Motor Capacity	0.75 KW 3 Phase, 440V with DOL starter 1440 RPM
Cooling System with tray and outlet.	
R/F Switch, Drill Vice, Drill Chuck & Key, Arbor, Sleeve drill drift.	

**PEDESTAL GRINDER**  
**MAKE : SI / MODEL : SI-PG-1**



**TECHNICAL SPECIFICATION**

Pedestal Stand	C.I. casting of high grade quality.
Stamping and cast rotor	Best quality
Motor winding	Insulated and ensure smooth running.
Motor with DOL starter	HP : 1 Kw : 0.75 Ph : 3 Hz : 50 Volt : 415 RPM : 2800
Wheel center distance	400mm
Center height	940 mm with pedestal
Complete with grinding wheel size - 200 x 25 x 19.05 mm (Original bore 31.75 mm)	
Starter, Wheel guard and standard Tool rest plate & Drill grinding Attachment (19 mm)	
Pedestal body made up of heavy duty selected cast iron to ensure maximum strength	
Machine provided with rotary switch.	
Construction of the machines are made sturdy and robust to offer vibration free performance.	

**UNIVERSAL MILLING MACHINE  
MAKE : SI / MODEL : SI-SA-2H**





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MAKE : SI / MODEL : SI-SA-2H**

TECHNICAL SPECIFICATION	
Type of Milling	Universal Milling
Milling machine table size Length and width	1200 x 300 mm
Head Speed	9 Nos.
Speed Range	45 – 750 rpm
Automatic feed	X.Y.Z. Single Motor
Body Face	11”
Feed Cross	300 mm
Feed Vertical	425 mm
Feed Longitudinal	660 mm
Table Rotation side to side	45-45 degree
Standard Arbour	25 mm
Taper of spindle + Vertical	ISO 40
No. of feed longitude	3 speed
Body Front bearing spindle	32212
Body Back bearing spindle	32210
Head Gear	EN9
Total Shaft and Screw	EN24
Gears and Babble Gears	Teeths tempered
Electric motor	7.5 HP
Switch Starter and V-Belt	Yes
Automatic up-down motorised motor	2 HP
❖ <b>Accessories :</b> Coolant Pump, Vertical head, Slotting attachment, Rack cutting attachment, Rotary Table 8”, Machine Lamp, Dividing head 5-1/2” centre, Adoptor with 6 Nos. collets, Drill & cutter.	



**VERTICAL MILLING MACHINE  
MAKE : SI / MODEL : SI-VMM-9**



**VERTICAL MILLING MACHINE**  
**MAKE : SI / MODEL : SI-VMM-9**

**TECHNICAL SPECIFICATION**

Milling machine table size Length and width	1200 x 300 mm
Head Speed	9 Nos.
Speed Range	45 – 750 rpm
Automatic feed	X.Y.Z. Single Motor
Body Face	11”
Feed Cross	300 mm
Feed Vertical	425 mm
Feed Longitudinal	660 mm
Table Rotation side to side	45-45 degree
Standard Arbour	25 mm
Taper of spindle + Vertical	ISO 40
No. of feed longitude	3 speed
Body Front bearing spindle	32212
Body Back bearing spindle	32210
Head Gear	EN9
Total Shaft and Screw	EN24
Gears and Babble Gears	Teeths tempered
Electric motor	7.5 HP
Switch Starter and V-Belt	Yes
Automatic up-down motorised motor	2 HP
<b>❖ Accessories :</b> <ul style="list-style-type: none"> <li>• Universal Vice 150mm</li> <li>• Collant Pump</li> <li>• Machine Lamp</li> </ul>	

## SURFACE GRINDING MACHINE MAKE : SI / MODEL : SI-SGM-50



### TECHNICAL SPECIFICATION

Transverse moments of wheel head or table	Hydraulic
Range of table speed m/min	0.8 to 1.2
Weight that will be handled by machine	50 kg
Vertical feed graduation in mm	0.005
Cross feed graduation in mm	0.01
Material removal rate in gm/min	0.1
Length of guide way in mm	300
Width of guide way in mm	100
Type of grinding wheel	Silicon
Width of grinding wheel in mm	12

**SURFACE GRINDING MACHINE**  
**MAKE : SI / MODEL : SI-SGM-50**

**TECHNICAL SPECIFICATION**

Diameter of grinding wheel	175 to 250 mm
Grinding wheel speed	1400 to 2800 RPM
Capacity of grinding wheel head motor	0.75 Kw
Motor capacity for pump for hydraulically operation	0.75
Speed of motor of pump for hydraulically operation	1000 to 1500 RPM
Capacity of coolant motor	1.5 HP
Number of T slote in table	1
Width of T slots on table	8 mm
Spacing of T slots in table	8 mm
Width of wheel head guide way	50 mm
Noice level of machine at 1 meter distance	75 db
Size of main spindle bearing of machine	50 to 70
Working surface area of table	150 x 300
Max. Height from table to grinding wheel	100 mm
Material of bed	High tensile strength cast iron
Least count of hand wheel for in feed	0.01 mm

❖ **Accessories :**

- Switch for operating electromagnetic chuck
- Magnetic base table minimum 200mm x 125mm with magnetizing and demagnetizing.
- Magnetic chuck 250x112 mm.
- Coolant equipment with setting tank.
- Electrical equipment complete with wiring for 415 volts 3 phase 50hz AC supply.
- The machine will meet with all the accuracy of drschlesinger .
- Diamond tool holder for wheel dresingequire.
- Set of spanner used in machine, grease gun, oil can with machine.
- Machine fully motorized and fitted with ace guards and pumps, tank and pump fitting.
- 3 spare grinding wheel used for general purpose machine.
- Precision three jaw self centering chuck to hold up to 50 mm jobs.
- Dust exhaust equipment for grinding machine.

**CYLINDRICAL GRINDER**  
**MAKE : SI / MODEL : SI-CG-6**



**TECHNICAL SPECIFICATION**

Centre Height	150 mm
Distance Between Centre	600 mm
Maximum Swivel of Table	± 6°
Table Speed Infinitely Variable	0.1-0.5 m/min
Grinding Wheel (D x W x B)	400 x 40 x 127 mm
Wheel Head Rapid Approach	50 mm
Wheel Head Swivel	± 60°
Grinding Wheel Speed	1900-2100 RPM
Manual Feed Resolution	0.005 mm
No. of Work Head Speed	25-600 RPM
Work Head Swivel	± 90°
Work Head Center	MT-4
Internal Grinding Spindle	60 x 250 x 1800 RPM
Work Head Motor	1 HP
Wheel Head Motor	3 HP
Coolant Pump	0.1 HP
Internal Grinding Spindle Motor	1 HP
Hydraulic Motor	1 HP
Total HP	6.1 HP