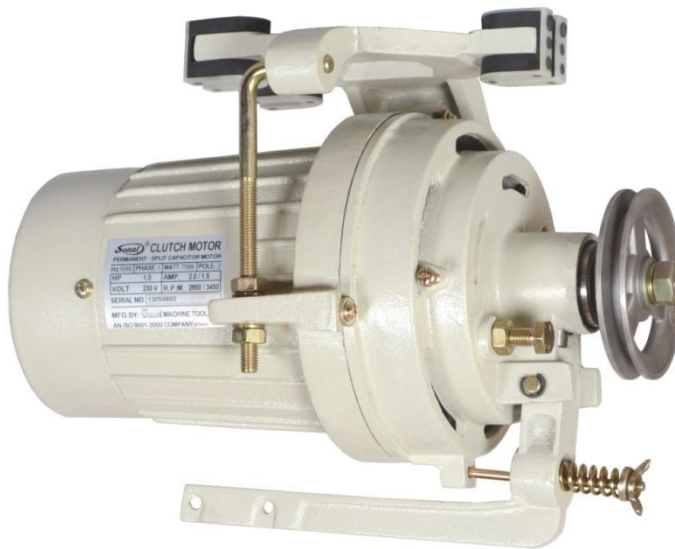




CLUTCH MOTORS

Industrial Sewing Machine Clutch Motor



High Performance Clutch Motor



Sewing Machine Inter Clutch Motor-Technical Specification

Sonal Clutch Motors Set the Standard for Quality in Clutch Motors and it's following High Quality Features:

- 0.25 HP to 2.0 HP motors are available in 1.ph & 3.ph and also available high speed and low speed.
- Internal fly wheel, bearing, clutch cork, frame and bracket are extra heavy duty and made out of the highest quality material. This means Sonal clutch motors last longer. "Sonal motors" extra torque allows for faster starts.
- Sonal motors feature built-in light taps, vibration free rotation, low temperature rise. Every motor is tested by penal board. Single phase, 220/ 110 volt & Three Phase, 120/ 220/380/440 volts, motors come with switch. All motors come with your choice size of pulley.
- Motors come in new simens grey stauncher color to match newest production of Sewing Machine Heads.

Application:-

Industrial sewing machine like a readymade garments, Hosiery knit wear , embroidery , tailoring , woven sacks industries, jut bag industries

PERFORMANCE

All motor is especially designed with powerful performance for all type of industrial sewing machines purpose.

SMOOTH ROTATION

Vibration and noise are minimized.

LOW TEMPERATURE RISING

The temperature rising of the motor is extremely low.

ACCURATE CLUTCH OPERATION

The size and weight of the flywheel eliminate speed reduction when it engaged with the clutch. Heavy-duty lining material prevents any slipping. Therefore the accurate clutch operation permits instant starting and stopping of the sewing machine.

ADJUSTABLE CLUTCH HEAD

The operating lever can always be kept in line with the pitman rod and foot treadle. Loosen the bracket holding screw so that the pulley side can end of bracket rotates freely. Now adjust the clutch lever to the most suitable operating position. Then, tighten the bracket holding screw and commence operation.

BELT TIGHTENER

the motor is provided with a belt tightened is easily adjusted by simply loosening the adjustment nut.

EURO-BASE

Dimensions for EURO-standard installation is available.

Induction Motor



1 Phase 220 Voltage/50 Hz

Model	SM-250/4	SM-400/4
Power	250 W	400 W
RPM	1440	1440
Poles	4	4

Application :-

- Industrial Bar Taking Sewing Machine
- Industrial Button Sewing Machine
- Industrial Lock Stitch Button Holing Sewing Machine

Clutch Motor



1 Phase 220 V / 3 Phase 440 V

Model	SM-301	SM-302
Power	200 W	200 W
RPM(50/60)Hz	2850/3450	1425/1725
Poles	2	4

Application :-

- Industrial Lock Stitch Sewing Machine
- Industrial Over Lock Sewing Machine
- Industrial Bag Closing Sewing Machine

Clutch Motor



1 Phase 220 V / 3 Phase 440 V

Model	SM-401/403	SM-402/404
Power	250/400 W	250/400 W
RPM	2850	1440
Poles	2	4

Application :-

- Industrial Lock Stitch & Over Lock Sewing Machine
- Industrial Inter Lock ,Flat Lock ,Feed-Of- Arm, All Flat Bad and All Purpose Garment Sewing Machine

Clutch Motor



1 Phase 220 V / 3 Phase 440 V

Model	SM-501/601/701	SM-502/602/702
Power	400/600/750 W	400/600/750 W
RPM	2850	1440
Poles	2	4

Application :-

- Industrial Chain Stitch Bag Sewing Machine
- Industrial Inter Lock ,Flat Lock ,Feed-Of- Arm, All Flat Bad and All Purpose Garment Sewing Machine

Clutch Motor



1 Phase 220 V / 3 Phase 440 V

Model	SM-801	SM-802
Power	1500 W	1500 W
RPM	2850	1440
Poles	2	4

Application :-

- Industrial Chain Stitch Bag Sewing Machine

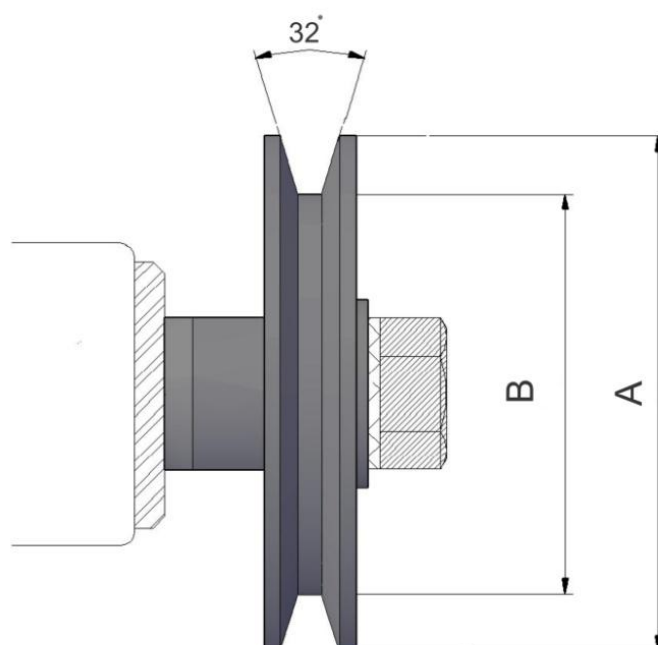
CLUTCH MOTOR TECHINCAL SPECIFICATION:-

MODEL	SM-301	SM-302	SM-401	SM-402	SM-501	SM-502	SM-601	SM-602	SM-701	SM-702	SM-801	SM-802
OUTPUT (watt)	0.25H.P.(200w)		0.33H.P.(250w)		0.5 H.P.(400w)		0.75H.P.(600w)		1.0 H.P.(750w)		2.0H.P.(1500w)	
POLES	2	4	2	4	2	4	2	4	2	4	2	4
RATING	CONTINUOUS											
VOLTAGE(v)	SINGAL PHASE 110-250 volts & THREE PHASE 220-440 volts											
FREQUENCY (50/60 HZ)	2850/3450	1425/1725	2850/3450	1425/1725	2850/3450	1425/1725	2850/3450	1425/1725	2850/3450	1425/1725	2850/3450	1425/1725
SPEED(rpm)												
PULLEY SIZE IN (mm)	85	85	85	85	100	100	100	100	85	85	85	85
NET WEIGHT(kg)	13.4		19		20.5		21.1		22.2		34.5	
GROSS WEIGHT(KG)	14.2		20		21.5		22.1		23.2		36	
MEASUREMENT (in)	15'X10'X10'		15'X12'X12'		17'X12'X12'		17'X12'X12'		17'X12'X12'		20'X16'X15'	
STANDARD ACCESSORY	(1) MOTOR SAT SCREW (2) VIBRATING ABSORBING RUBBER						(3) PUSH BUTTON SWITCH & CABLE (4) CORRUGATED BOX WITH THEMOCOL PACKING					

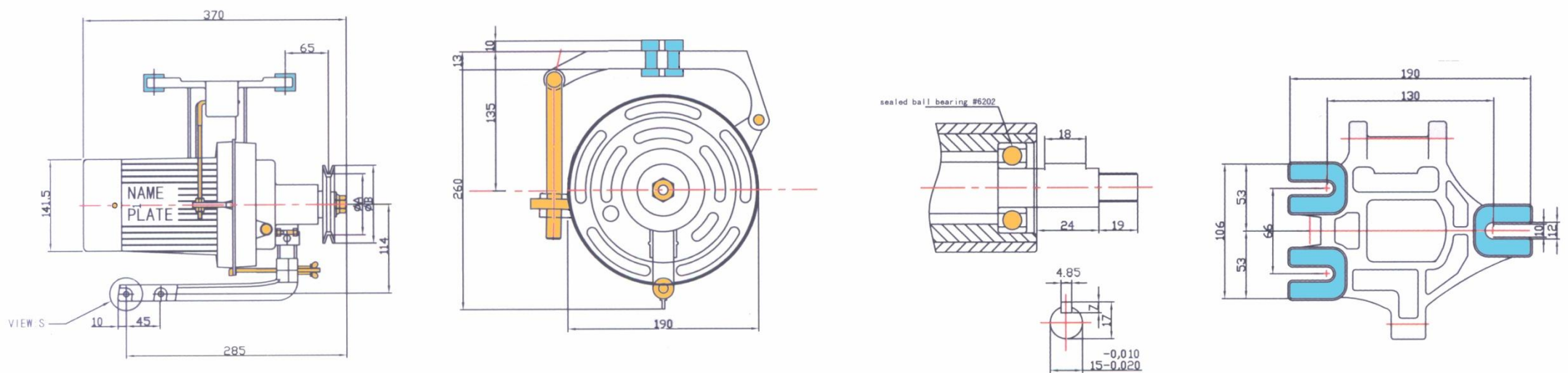
Technical Specification - Clutch Motor Pulley

PULLEY DIAMETER	35	50	60	70	75	85	90	100	105	110	115	120	125	130	135	140
A	35	50	60	70	75	85	90	100	105	110	115	120	125	130	135	140
B	20	30	40	50	55	60	65	70	80	85	90	100	105	110	115	120

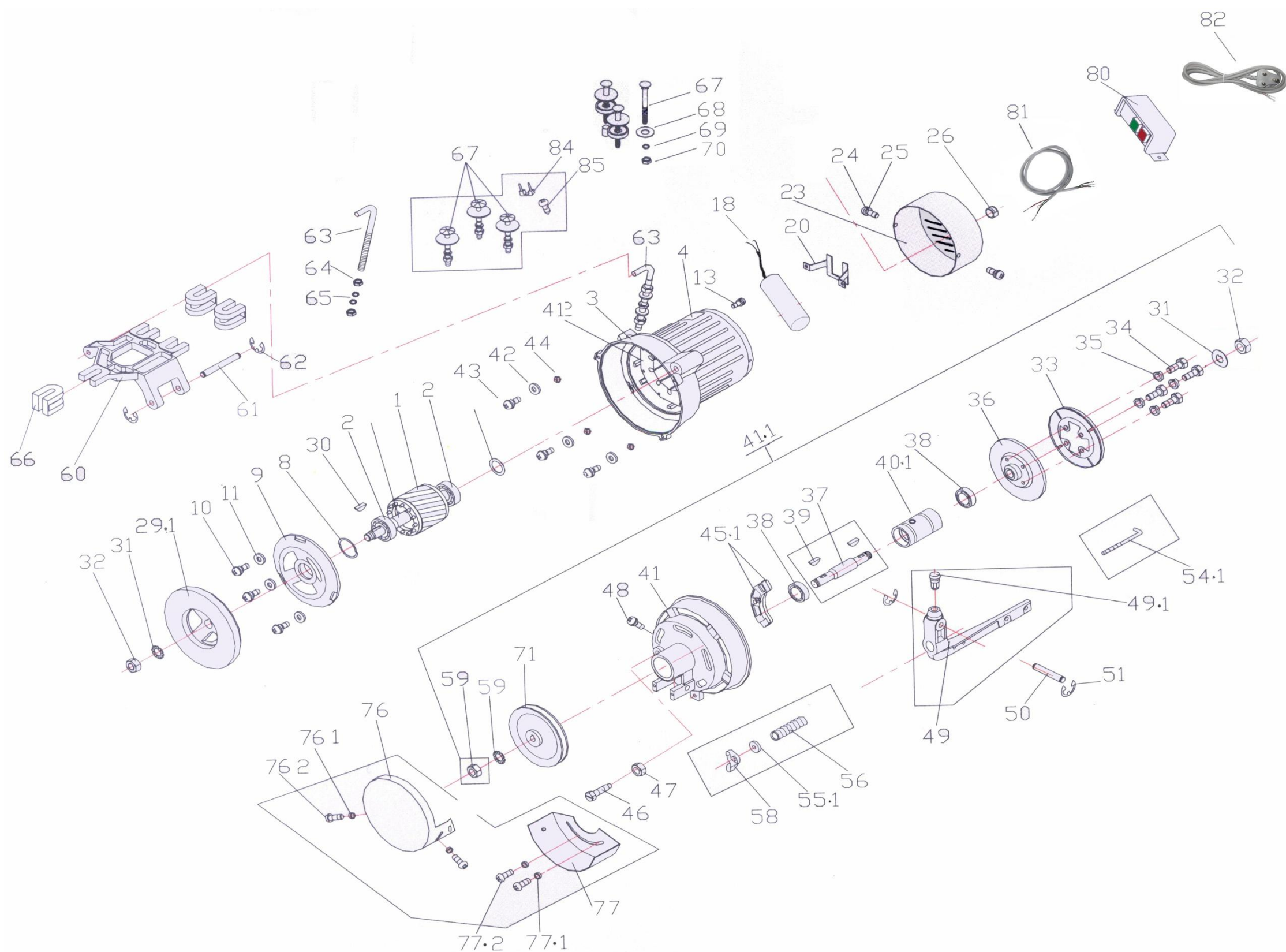
SUPPLY PULLEY IN HOLE SIZE 10mm & 15mm





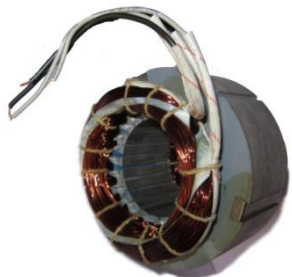
EXTERNAL DIMENSION:(400W/600W/750W)











STRUCTURE DIAGRAM:












INTER CLUTCH MOTOR PARTS LIST:

PART NO.	PARTS NAME	QTY.	Typical View
01	Rotor	01	
02	Ball Bearing (6203)	02	
03	Frame	01	
08	Wave Washer	01	
09	Centre Bracket	01	
10	Set Screw for No.9	03	
11	Washer for No.9	03	
12	Stator	01	

13	Set Screw for Earth	01	
18	Capacitor	01	
20	Capacitor Band	01	
21	Set Screw for No.20	01	
23	End Cover	01	
24	Set Screw for No.23	02	
25	Washer for No.23	02	
26	Rubber Grummet	01	








29.1	Fly Wheel	01	
30	Woodruff Key for No.29-1	01	
31	Washer for No.29.1 , 36-3	01	
32	Hexagonal Nut for No.29-1 , 36-3	01	
33	Clutch Lining	01	
34.1	Set Screw for No.33	04	
35	Spring Washer for No.33-1	04	
36	Clutch Plate	01	
37	Clutch Shaft	01	






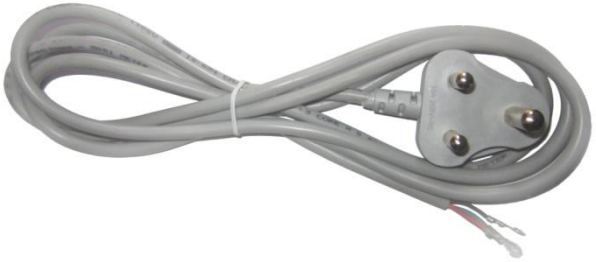

37.1	Clutch Shaft Sat	01	
38	Ball Bearing (6202)	02	
39	Woodruff Key for No.37	02	
40.1	Clutch Adjusting Sleeve	01	
41	Pulley Side End Bracket	01	
41.1	Pulley Side End Bracket Assemble Sat.	01	
42	Clutch End Cover Retaine	03	


43	Set Screw for No.41-1	03	
44	Spring Washer for No.41-1	03	
45.1	Brake Shoe	01	
46	Brake Adjusting Screw	01	
47	Nut for 45-1	01	
48	Set Screw for No.45-1	01	
49.1	Clutch Lever with clutch Point	01	
50.1	Lever Pin	01	
51	Stop Ring for 50-1	02	

54 S	Lever Adjusting Screw Sat	01	
54.1	Lever Adjusting Screw	01	
55.1	Washer for No.54-1	01	
56	Spring for No 54-1	01	
58	Wing Nut for No.54-1	01	
59	Pulley Lock Nut	01	
59.1	Spring Washer for No.59	01	
60	Slide Base	01	

61	Base Pin	01	
62	Stop Ring for No.61	02	
63S	Belt Adjusting Bolt Sat	01	
63	Belt Adjusting Bolt	01	
64	Nut for No.63	02	
65	Spring Washer for No.63	02	
66	Vibrating Absorbing Rubber	03	
67	Motor Set Screw	03	

67S	Motor set Screw sat (Washer , Nut)	03	
68	Plain Washer for No.67	03	
69	Spring Washer for No.67	03	
70	Nut for No.67	03	
71	Pulley Available size:- 35,55,65,75,85,100,110,120	01	
76	Pulley Cover(Outer)	01	
76.1	Set Screw for No.76	02	
76.2	Spring Washer for No.76	02	

77	Pulley Cover(Inner)	01	
77.1	Set Screw for No.77	02	
77.2	Spring Washer for No.77	02	
80	Push Button Switch Only	01	
81	Power Cord wire		
82	Power Cord wire With 16 Amp. Molding Plug	01	
84	PVC "C" Clamp	04	

85	Wooden Screw	02	
----	--------------	----	---

Sonal Machine Tools

Admin office / works:
30/30 Adeshwar Estate opp. Shankar Estate,
Revabhai Estate Road, C.T.M. , Amraiwadi
Ahmedabad - 380026
(Gujarat-India)
Tel: 079-25860485, 25860290
Fax: 079-25860485
Mobile: +919898278390
Email: sonalindia@rediffmail.com
Website: sonal-motors.com

Authorised Dealer :

