

PLANETARY DRIVES



SUMIKO



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SUMIKO offers a wide range of Planetary Gearboxes & Geared Motors to various applications in all type of industries. **SUMIKO** planetary Gearboxes & Geared Motors are manufactured at Satara, manchester of Planetary Gearboxes in India. We are introducing our new series of Planetary Gearboxes starting from 40Nm to 50000Nm in torque capacities with reduction ratios 3.5:1 to 10000:1 with single stage, double stage, triple stage, quadruple stage and five stages in normal conditions. we can also offer more ratios as per customers requirements.

SUMIKO offers 12 different models starting SU-01 to SU-12 . Out put mounting is Foot , Flange , Agitator with Solid Male Cylindrical shaft, Hollow Female cylindrical shaft with Keyway or Shrink Disc, Male Spline Shaft, Female Spline Shaft. Input mountings are Free (Solid Male Shaft) and Hollow shafts as per motor mounting frame size or motor mounting details for any type of prime movers.

SUMIKO Enterprises is a Proprietary firm launched in 2002. Since last two decades we expertise in Designing and Manufacturing any type of Planetary Gearboxes.

FEATURES

- RIGID IN CONSTRUCTION.
- HIGHER EFFICIENCIES.
- COMPACT IN SIZE.
- VERSATILE MOUNTING ARRANGEMENT.
- HIGHEST RELIABILITY
- SUITABLE FOR VARIOUS APPLICATIONS
- FLEXIBLE INPUT TYPES TO SUIT ALL TYPE OF STANDARD MOTORS.
- MAINTENANCE FREE OPERATIONS

CONSTRUCTION

GEARS- Manufactured from high tensile alloy steels. Heat treated for case carburizing, hardening and tempering. The Planets are carried on hard bushes or needle rollers mounted on high tensile case harden steel planet pins. The gears are lapped separately to improve the contact surfaces, durability, low noise level & high accuracy with special designed fixtures.

CARRIER- Manufactured from carbon steel or high strength graded cast steel. carrier is engaged to output shaft or intermediate sun gears with involutes splines. Hard spacers are mounted with pins and planets to avoid friction.

SHAFTS- Manufactured from high tensile steel to resist bending and torsion strength.

BEARINGS- All rotating shafts are guided with antifriction bearings of standard make.

HOUSINGS- Input housings are Manufactured from graded cast iron. Output housings are manufactured from graded cast iron below 1500 Nm torque and cast steel for above 1500Nm torque capacities.

OIL SEALS- Nitrile rubber oil seal are used for standard applications. Special high temperature viton oil seals are used on request or as per application.

SELECTION PROCEDURE Following parameters are considered for selecting the gear boxes to give the proper expected life and performance.

- Desired Output Speed
- Working Hours per day
- Start and Stops per Hour
- Orientation
- Input Horsepower and Speed
- Overhung Load,
- Axial Load and Radial Load
- Environmental Conditions
- Efficiency of Gearbox

RATIO

Ratio is the factor of division of input speed by output speed. We have to select closest available ratio from our selection table.

EXAMPLE- 20 HP by Electric Motor as input power at 1440 rpm. Required Output Speed 47rpm moderate shock load and 15 hours per day working duty cycle.

1. **Selection of Service Factor (SF)** Moderate shock & 15 hrs a day duty cycle. Consider service factor as per our table for selection of service factor is 1.5

2. **Calculation of Ratio**

$$\text{Ratio} = \frac{\text{Input speed}}{\text{Output speed}}$$

$$\text{Ratio} = \frac{1440}{47}$$

$$\text{Ratio} = 30.63$$

3 **Efficiency** It is observed that 30 ratio is achieved in two stages. Which has 90% efficiency.

4. **Calculation of Output Torque**

$$\text{Output Torque} = \frac{716.2 \times \text{HP} \times \text{SF} \times \text{Efficiency} \times 9.8}{\text{Output speed}}$$

$$\text{Output Torque} = \frac{716.2 \times 20 \times 1.5 \times 0.90 \times 9.8}{47}$$

$$\text{Output Torque} = 4032\text{Nm}$$

Please select gearbox as per our selection table. If it is not suitable for thermal rating please take higher torque rating gearbox to suit Thermal rating as per Thermal rating adjustment factor chart.

5 **Mounting** - Foot , Flange, Agitator as per your application

6. **Over hung load** - Kindly refer chart on page no. 3

7. **Orientation**- Kindly refer chart on page no. 3

8. **Axial & Radial Load** - Kindly refer chart on page no. 3

9. **Special Requirements** - Special Material construction as per customer's requirements can be offered

The Selected Model is SU-208 Ratio is 30.7

MAXIMUM TORQUE RATINGS			
MODEL	TORQUE Nm	MODEL	TORQUE Nm
SU-01	100 Nm	SU-07	5000 Nm
SU-02	230 Nm	SU-08	6500 Nm
SU-03	500 Nm	SU-09	11000 Nm
SU-04	1000 Nm	SU-10	20000 Nm
SU-05	1600 Nm	SU-11	25000 Nm
SU-06	2800 Nm	SU-12	40000 Nm

NOTE- We can achieve nearest reduction ratios other than mentioned in our selection table

TABLE FOR SELECTION OF SERVICE FACTOR

DUTY	TYPE OF LOAD	DAILY WORKING HOUR			
		<0.5	0.5 to 3	3 to 8	8 to 24
continuous or intermittent service with less than 10 strokes / hour	uniform	0.80	0.90	1.00	1.25
	moderate shock	0.90	1.00	1.25	1.50
	Heavy Shock	1.00	1.25	1.50	1.75
continuous or intermittent service with more than 10 strokes / hour	Uniform	0.80	0.90	1.00	1.25
	Moderate Shock	0.90	1.00	1.25	1.50
	Heavy Shock	1.00	1.25	1.50	1.75

LOAD CONNECTION FACTOR AS PER INPUT DRIVING SYSTEM

Sprocket	1	Gears	1.25
Timing Belt	1	V Belt	1.5
Inline Coupling	1	Flat Belt	2.5

THERMAL RATING ADJUSTMENT FACTOR

Working Time %	10°C	30°C	40°C	60°C
100%	1.15	1	0.8	0.6
80%	1.25	1.1	0.9	0.7
60%	1.4	1.25	1	0.9
40%	1.6	1.4	1.1	1
20%	2.6	1.6	1.3	1.1

EFFICIENCY CHART

NO OF STAGES	i	ii	iii	iv	v	Additional per stage Multiply by 95%
EFFICIENCY	95%	90%	86%	82%	77%	

Axial and Radial Load Ratings for Shafts

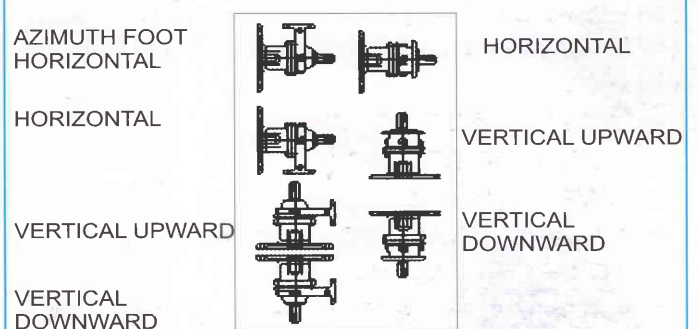
Type	Axial Load Capacity Kg		Radial Load Capacity Kg	
Model	Output Shaft	Input Shaft	Output Shaft	Input Shaft
SU-01	161	142	257	233
SU-02	168	182	257	265
SU-03	175	200	257	295
SU-04	250	210	310	350
SU-05	400	231	604	370
SU-06	628	411	913	648
SU-07	776	553	1104	599
SU-08	909	718	1292	1132
SU-09	2178	738	2206	1254
SU-10	2927	903	3219	1504
SU-11	3887	903	4175	1504
SU-12	4923	1124	5414	2429

LUBRICATION

Lubrication - The gearboxes supplied by us are not pre-filled with oil. You need to fill up the correct grade of oil, before commissioning. The following grades are recommended

Ambient Temp.	<35°C	35 to 65°C	40 to 75°C
Viscosity	150	220	320
ISO-VG	ISO VG-150	ISO VG-150	ISO VG-320
Indian Oil	Servo Gear SM-150	Servo Gear SM-220	Servo Gear SM-320
Hindustan Petroleum	Spartan EP - 150	Spartan EP - 220	Spartan EP - 320
Bharat Petroleum	omala 150	omala 220	omala 320
Castrol	Energol GR XP - 150	Energol GR XP - 220	Energol GR XP - 320

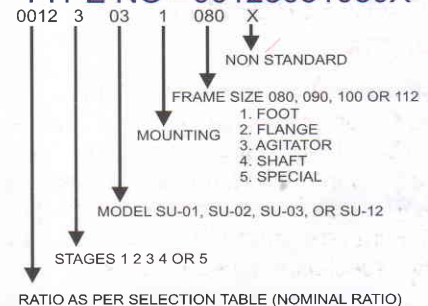
ORIENTATION CHART



MODEL CODIFICATION

GEAR BOX NAME PLATE CONSIST OF TYPE NO & SERIAL NO

TYPE NO - 00123031080X



OVERHUNG LOAD CAPACITY AT LOCATION LENGTH WISE CENTER OF SHAFT

Speed→	1	2	4	6	8	12	20	30	60	80	125	150	200	250	300	400	500
Model ↓	220	220	220	220	220	220	220	220	220	220	200	190	180	160	150	130	120
SU-01	310	310	310	310	310	310	310	310	310	310	300	285	260	240	225	195	180
SU-02	410	410	410	410	410	410	410	410	410	410	400	375	340	320	300	260	240
SU-03	780	780	780	780	780	780	780	780	780	780	730	670	590	540	490	400	340
SU-04	800	800	800	800	800	800	800	800	760	720	680	640	600	560	520	440	400
SU-05	1700	1700	1700	1700	1675	1650	1625	1520	1200	1100	950	900	810	750	710	640	610
SU-06	2000	2000	2000	2000	2000	2000	2000	1980	1580	1430	1230	1160	1050	980	920	860	830
SU-07	2200	2200	2200	2200	2200	2200	2100	2080	1680	1530	1330	1260	1150	1080	1020	960	930
SU-08	2800	2800	2800	2800	2800	2800	2700	2680	2080	1930	1730	1560	1450	1380	1320	1260	1230
SU-09	6100	6100	6100	6100	6100	6100	5500	5350	5280	5200	5140	5020	4800	4300	3900	3300	3150
SU-10	7750	7750	7750	7750	7750	7500	7100	6900	6500	6100	5900	5700	5500	5250	5100	4650	4500
SU-11	14100	14100	12780	13130	13130	13130	12800	12300	12050	11750	11500	11250	10500	10150	9500	8600	8300
SU-12	22300	22300	19100	16900	16900	16900	16100	15600	15250	14900	14700	14600	14250	14050	13750	13100	12500

SELECTION CHART

FOR RATIO, RATED TORQUE, MAXIMUM POWER AND THERMAL RATING. SF 1 INPUT SPEED 1440 rpm

NOMINAL RATIO	STAGES	MODEL	ACTUAL RATIO	ACTUAL SPEED rpm	RATED TORQUE Nm	MAX. INPUT POWER Kw	THERMAL RATING Kw
3	1	SU-01					
3.5			3.4	424	70	0.75	
4			4.0	360	80	0.75	
4.5							0.75
5			5.0	288	70	0.75	
6	2	SU-01					
7							
10							
11			11.6	125	80	0.75	
13			13.6	106	70	0.75	
15	2	SU-02					
17			16.0	90.0	80	0.75	
19							0.75
21			20.0	72.0	80	0.75	
25			25.0	57.6	70	0.75	
29	3	SU-01					
32							
35							
40			39.3	36.6	80	0.75	
45			46.2	31.1	80	0.75	
50	3	SU-02					
55			54.4	26.5	80	0.75	
60			64.0	22.5	90	0.75	
70			68.0	21.2	80	0.75	0.75
80			80.0	18.0	90	0.75	
90	4	SU-01					
100			85.0	16.9	80	0.75	
110			100.0	14.4	90	0.75	
125			125.0	11.5	80	0.75	
140			133.6	10.8	80	0.75	
160	4	SU-02					
180			157.2	9.16	80	0.75	
200			185.0	7.79	80	0.75	
225			196.5	7.33	80	0.75	
250			231.2	6.23	80	0.645	
275	5	SU-01					
300			256.0	5.63	90	0.655	
350			289.0	4.98	80	0.516	0.75
400			320.0	4.50	90	0.524	
450			340.0	4.24	80	0.439	
500	5	SU-02					
575			400.0	3.60	80	0.373	
650							
725			500.0	2.88	80	0.30	
800			625.0	2.30	80	0.239	
900	5	SU-01					
1000			668.2	2.16	80	0.30	
1100			739.8	1.95	80	0.268	
1200			786.1	1.83	80	0.252	
1300			924.8	1.56	80	0.215	
1500	5	SU-02					
1700			1024.0	1.41	90	0.218	
1900			1088.0	1.32	80	0.182	
2100			1156.0	1.25	80	0.172	
2500			1360.0	1.06	80	0.146	0.75
3000	5	SU-01					
3500			1600.0	0.90	80	0.124	
4000			1700.0	0.85	80	0.117	
4500			2000.0	0.72	90	0.112	
5000			2125.0	0.68	80	0.093	
6000	5	SU-02					
7000			2500.0	0.58	90	0.089	
8000			3125.0	0.46	80	0.064	
9000							
10000							



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SELECTION CHART

FOR RATIO, RATED TORQUE, MAXIMUM POWER AND THERMAL RATING. SF 1 INPUT SPEED 1440 rpm

NOMINAL RATIO	STAGES	MODEL	ACTUAL RATIO	ACTUAL SPEED rpm	RATED TORQUE Nm	MAX. INPUT POWER Kw	THERMAL RATING Kw	STAGES	MODEL	ACTUAL RATIO	ACTUAL SPEED rpm	RATED TORQUE Nm	MAX. INPUT POWER Kw	THERMAL RATING Kw	STAGES	MODEL	ACTUAL RATIO	ACTUAL SPEED rpm	RATED TORQUE Nm	MAX. INPUT POWER Kw	THERMAL RATING Kw
3	1	SU-04	3.5	413.8	552	5.50	3.7	1	SU-05	3.5	413.8	705	7.50	5.5	1	SU-06	3.5	413.8	1135	9.30	7.5
3.5			3.8	377.1	533	5.50				3.8	377.1	680	7.50				3.8	377.1	1096	9.30	
4			4.3	337.8	514	5.50				4.3	337.8	820	7.50				4.3	337.8	1057	9.30	
4.5			4.9	295.4	594	5.50				4.9	295.4	790	7.50				4.9	295.4	1272	9.30	
5			5.8	249.6	638	5.50				5.8	249.6	911	7.50				5.8	249.6	1223	9.30	
6			7.2	200.0	612	5.50				7.2	200.0	977	7.50				7.2	200.0	1409	9.30	
7	2	SU-04	12.1	118.9	828	5.50	3.7	2	SU-05	12.1	118.9	1181	5.50	5.5	2	SU-06	12.1	118.9	1902	9.30	7.5
10			13.3	108.4	799	5.50				13.3	108.4	1276	5.50				13.3	108.4	1836	9.30	
11			14.6	98.78	799	5.50				14.6	98.78	1276	5.50				14.6	98.78	2055	9.30	
13			17.0	84.88	742	5.50				17.0	84.88	1185	5.50				17.0	84.88	1908	9.30	
15			18.2	79.23	881	5.50				18.2	79.23	1230	5.50				18.2	79.23	1982	9.30	
17			20.8	69.29	848	5.50				20.8	69.29	1185	5.50				20.8	69.29	1908	9.30	
19			24.6	58.55	881	5.50				24.6	58.55	1406	5.50				24.6	58.55	1982	9.30	
21			28.1	51.20	848	5.22				28.1	51.20	1354	5.50				28.1	51.20	2181	9.30	
25			30.7	46.91	881	4.97				30.7	46.91	1406	5.50				30.7	46.91	2264	9.30	
29			35.1	41.03	848	4.19				35.1	41.03	1354	5.50				35.1	41.03	2181	9.30	
32	3	SU-04	41.5	34.67	815	3.40	1.5	3	SU-05	41.5	34.67	1302	5.43	2.2	3	SU-06	41.5	34.67	2097	8.75	3.7
35			51.8	27.78	783	2.62				51.8	27.78	1250	4.18				51.8	27.78	2013	6.73	
40			55.2	26.07	913	3.00				55.2	26.07	1458	4.75				55.2	26.07	2348	7.65	
45			62.0	23.24	881	2.58				62.0	23.24	1608	4.94				59.0	24.39	2181	6.70	
50			70.2	20.51	881	2.27				69.9	20.61	1510	3.92				69.9	20.61	2432	6.31	
55			81.0	17.77	848	1.90				79.4	18.15	1354	3.09				79.4	18.15	2181	4.98	
60			90.1	15.99	848	1.71				90.7	15.87	1354	2.71				90.7	15.87	2181	4.36	
66			102.5	14.05	848	1.50				101.3	14.21	1354	2.42				101.3	14.21	2181	3.90	
70			111.8	12.88	913	1.48				107.4	13.41	1354	2.29				107.4	13.41	2181	3.68	
75			120.7	11.93	848	1.27				122.1	11.79	1354	2.01				122.1	11.79	2181	3.24	
80	4	SU-04	142.8	10.08	848	1.08	1.5	4	SU-05	141.9	10.15	1406	1.80	2.2	4	SU-06	141.9	10.15	2264	2.89	3.7
85			157.4	9.15	815	0.939				158.6	9.08	1458	1.67				158.6	9.08	2348	2.68	
90			177.2	8.13	848	0.868				180.4	7.98	1250	1.26				180.4	7.98	2013	2.02	
95			193.4	7.45	881	0.826				202.5	7.11	1354	1.21				202.5	7.11	2181	1.95	
100			221.1	6.51	848	0.695				221.0	6.52	1250	1.03				221.0	6.52	2013	1.65	
105			261.7	5.50	815	0.565				252.7	5.70	1250	0.897				252.7	5.70	2013	1.44	
110			326.6	4.41	783	0.435				299.1	4.81	1302	0.789				299.1	4.81	2097	1.271	
115			302.7	4.76	881	0.553				373.2	3.86	1250	0.607				373.2	3.86	2013	0.978	
120			349.4	4.12	848	0.462				400.3	3.60	1406	0.668				400.3	3.60	2264	1.075	
125			401.9	3.58	881	0.417				447.5	3.22	1458	0.620				447.5	3.22	2328	0.989	
130	5	SU-04	446.4	3.23	848	0.361	1.5	5	SU-05	499.6	2.88	1458	0.555	1.5	5	SU-06	499.6	2.88	2348	0.894	1.5
135			496.2	2.90	848	0.325				571.3	2.52	1354	0.451				571.3	2.52	2181	0.726	
140			576.1	2.50	815	0.269				653.3	2.20	1354	0.394				653.3	2.20	2121	0.617	
145			645.7	2.23	848	0.250				729.5	1.97	1354	0.353				729.5	1.97	2181	0.568	
150			724.9	1.99	848	0.222				791.0	1.82	1354	0.325				791.0	1.82	2181	0.524	
155			799.2	1.80	815	0.194				915.0	1.57	1302	0.271				915.0	1.57	2097	0.436	
160			899.6	1.60	848	0.179				987.2	1.46	1354	0.261				987.2	1.46	2181	0.420	
165			991.7	1.45	815	0.156				1107.8	1.30	1302	0.223				1107.8	1.30	2097	0.360	
170			1113.4	1.29	783	0.134				1232.0	1.17	1250	0.193				1232.0	1.17	2013	0.311	
175			1218.3	1.18	881	0.137				1298.9	1.11	1250	0.183				1298.9	1.11	2013	0.295	
180	6	SU-04	1321.0	1.09	815	0.117	1.5	6	SU-05	1458.0	0.988	1250	0.163	1.5	6	SU-06	1458.0	0.988	2013	0.263	1.5
185			1408.4	1.02	783	0.106				1725.4	0.835	1302	0.144				1725.4	0.835	2097	0.231	
190			1648.7	0.873	815	0.094				2153.4	0.669	1302	0.115				2153.4	0.669	2097	0.185	
195			2057.5	0.700	783	0.072				2687.4	0.536	1250	0.088				2687.4	0.536	2013	0.142	
200			2498.2	0.576	881	0.071				2998.2	0.480	1250	0.084				2998.2	0.480	2013	0.136	
205			3011.2	0.478	815	0.055				3497.0	0.412	1458	0.084				3497.0	0.412	2348	0.136	
210			3502.7	0.411	848	0.049				4015.9	0.359	1354	0.068				4015.9	0.359	2181	0.110	
215			4112.5	0.350	848	0.042				4488.4	0.321	1302	0.059				4488.4	0.321	2097	0.095	
220			4503.6	0.320	815	0.037				5011.9	0.287	1354	0.055				5011.9	0.287	2181	0.088	
225			5006.1	0.288	815	0.033				6029.9	0.239	1250	0.042				6029.9	0.239	2013	0.068	
230	7	SU-04	6007.8	0.240	848	0.029	1.5	7	SU-05	7019.2	0.205	1302	0.038	1.5	7	SU-06	7019.2	0.205	2097	0.061	1.5
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SELECTION CHART

FOR RATIO, RATED TORQUE, MAXIMUM POWER AND THERMAL RATING. SF 1 INPUT SPEED 1440 rpm

FOR RATING, RATED TORQUE, MAXIMUM POWER AND THERMAL RATING. SF 1 INPUT SPEED 1440 rpm																					
NOMINAL RATIO	STAGES	MODEL	ACTUAL RATIO	ACTUAL SPEED rpm	RATED TORQUE Nm	MAX. INPUT POWER Kw	THERMAL RATING Kw	STAGES	MODEL	ACTUAL RATIO	ACTUAL SPEED rpm	RATED TORQUE Nm	MAX. INPUT POWER Kw	THERMAL RATING Kw	STAGES	MODEL	ACTUAL RATIO	ACTUAL SPEED rpm	RATED TORQUE Nm	MAX. INPUT POWER Kw	THERMAL RATING Kw
3	1	SU-07	3.5	413.8	1363	18.50	9.3	1	SU-08	3.5	413.8	2260	22.00	18.5	1	SU-09	3.5	413.8	3929	30.00	22
3.5			3.8	377.1	1595	18.50				3.8	377.1	2182	22.00				3.8	377.1	4376	30.00	
4			4.3	337.8	1538	18.50				4.3	337.8	2550	22.00				4.3	337.8	4220	30.00	
4.5			4.9	295.4	1851	18.50				4.9	295.4	2456	22.00				4.9	295.4	4925	30.00	
5			5.8	249.6	1780	18.50				5.8	249.6	2951	22.00				5.8	249.6	4736	30.00	
6			7.2	200.0	2050	18.50				7.2	200.0	2833	22.00				7.2	200.0	5683	30.00	
10	2	SU-07	12.1	118.9	2767.1	18.50	9.3	2	SU-08	12.1	118.9	4108.2	22.00	18.5	2	SU-09	12.1	118.9	8241	30.00	22
11			13.3	108.4	2672	18.50				13.3	108.4	4430	22.00				13.3	108.4	7956	30.00	
13			14.6	98.78	2672	18.50				14.6	98.78	4430	22.00				14.6	98.78	8886	30.00	
15			17.0	84.88	2777	18.50				17.0	84.88	4114	22.00				17.0	84.88	8252	30.00	
17			18.2	79.23	2884	18.50				18.2	79.23	4782	22.00				18.2	79.23	8569	30.00	
19			20.8	69.29	2777	18.50				20.8	69.29	4605	22.00				20.8	69.29	9236	30.00	
21			24.6	58.55	2884	18.50				24.6	58.55	4782	22.00				24.6	58.55	9591	30.00	
25			28.1	51.20	2777	17.11				28.1	51.20	4605	22.00				28.1	51.20	9236	30.00	
29			30.7	46.91	3295	18.60				30.7	46.91	4782	22.00				30.7	46.91	9591	30.00	
32			35.1	41.03	3173	15.66				35.1	41.03	5261	22.00				35.1	41.03	9236	30.00	
35	41.5	34.67	3051	12.73	41.5	34.67	5059	21.10	41.5	34.67	10147	30.00									
40	3	SU-07	51.8	27.78	2929	9.79	5.5	3	SU-08	51.8	27.78	4856	16.23	7.5	3	SU-09	51.8	27.78	9741	30.00	9.3
45			55.7	25.87	3416.9	11.13				55.7	25.87	5665.9	18.457				55.7	25.87	11365	30.00	
50			59.0	24.39	3173	9.75				59.0	24.39	5261	16.159				59.0	24.39	10553	30.00	
55			69.9	20.61	3295	8.55				69.9	20.61	5464	14.180				69.9	20.61	10959	28.44	
60			79.4	18.15	3173	7.25				79.4	18.15	5261	12.022				79.4	18.15	10553	24.12	
70			90.7	15.87	3173	6.34				90.7	15.87	5261	10.514				90.7	15.87	10553	21.09	
80			101.3	14.21	3173	5.68				101.3	14.21	5261	9.416				101.3	14.21	10553	18.89	
90			107.4	13.41	3173	5.36				107.4	13.41	5261	8.884				107.4	13.41	10553	17.82	
100			122.1	11.79	3173	4.71				122.1	11.79	5261	7.810				122.1	11.79	10553	15.67	
110			141.9	10.15	3295	4.21				141.9	10.15	5464	6.982				141.9	10.15	10959	14.00	
125	158.6	9.08	3417	3.91	158.6	9.08	5666	6.478	158.6	9.08	11365	12.99									
140	180.4	7.98	2929	2.94	180.4	7.98	4856	4.881	180.4	7.98	9741	9.79									
160	202.5	7.11	3173	2.84	202.5	7.11	5261	4.711	202.5	7.11	10553	9.45									
180	221.0	6.52	2929	2.40	221.0	6.52	4856	3.985	221.0	6.52	9741	7.99									
200	252.7	5.70	2929	2.10	252.7	5.70	4856	3.485	252.7	5.70	9741	6.99									
225	4	SU-07	299.1	4.81	3051	1.85	5.5	4	SU-08	299.1	4.81	5059	3.067	7.5	4	SU-09	299.1	4.81	10147	6.15	9.3
250			373.2	3.86	2929	1.42				373.2	3.86	4856	2.359				373.2	3.86	9741	4.73	
275			400.3	3.60	3295	1.57				400.3	3.60	5463.5	2.595				400.3	3.60	10959	5.206	
300			447.5	3.22	3417	1.45				447.5	3.22	5666	2.408				447.5	3.22	11365	4.830	
350			499.6	2.88	3417	1.30				499.6	2.88	5666	2.157				499.6	2.88	11365	4.326	
400			571.3	2.52	3173	1.06				571.3	2.52	5261	1.751				571.3	2.52	10553	3.513	
450			653.3	2.20	3173	0.924				653.3	2.20	5261	1.531				653.3	2.20	10553	3.072	
500			729.5	1.97	3173	0.827				729.5	1.97	5261	1.372				729.5	1.97	10553	2.751	
550			791.0	1.82	3173	0.763				791.0	1.82	5261	1.265				791.0	1.82	10553	2.537	
600			915.0	1.57	3051	0.634				915.0	1.57	5059	1.051				915.0	1.57	10147	2.109	
650	987.2	1.46	3173	0.611	987.2	1.46	5261	1.014	987.2	1.46	10553	2.033									
700	1107.8	1.30	3051	0.524	1107.8	1.30	5059	0.868	1107.8	1.30	10147	1.742									
750	1232.0	1.17	2929	0.452	1232.0	1.17	4856	0.750	1232.0	1.17	9741	1.504									
800	1298.9	1.11	2929	0.429	1298.9	1.11	4856	0.711	1298.9	1.11	9741	1.426									
850	1458.0	0.99	2929	0.382	1458.0	0.99	4856	0.633	1458.0	0.99	9741	1.271									
900	1725.4	0.83	3051	0.336	1725.4	0.83	5059	0.558	1725.4	0.83	10147	1.118									
950	5	SU-07	2153.4	0.67	3051	0.269	2.2	5	SU-08	2153.4	0.67	5059	0.447	3.7	5	SU-09	2153.4	0.67	10147	0.896	5.5
1000			2687.4	0.54	2929	0.207				2687.4	0.54	4856	0.366				2687.4	0.54	9741	0.734	
1050			3004.2	0.48	3295	0.222				3004.2	0.48	5464	0.368				3004.2	0.48	10959	0.739	
1100			3555.3	0.41	3295	0.188				3555.3	0.41	5463.5	0.311				3555.3	0.41	10959	0.624	
1150			4016.6	0.36	3295	0.166				4016.6	0.36	5464	0.275				4016.6	0.36	10959	0.553	
1200			4520.2	0.32	3539	0.159				4520.2	0.32	5868	0.263				4520.2	0.32	11771	0.527	
1250			5073.8	0.28	2929	0.117				5073.8	0.28	4856	0.194				5073.8	0.28	9741	0.389	
1300			6004.5	0.24	3051	0.103				6004.5	0.24	5059	0.171				6004.5	0.24	10147	0.342	
1350			6947.5	0.21	2929	0.085				6947.5	0.21	4856	0.142				6947.5	0.21	9741	0.284	
1400			7976.3	0.18	3051	0.077				7976.3	0.18	5059	0.128				7976.3	0.18	10147	0.258	
1450	9180.1	0.16	2929	0.065	9180.1	0.16	4856	0.107	9180.1	0.16	9741	0.215									
1500	10261	0.14	2929	0.058	10261	0.14	4856	0.096	10261	0.14	9741	0.192									

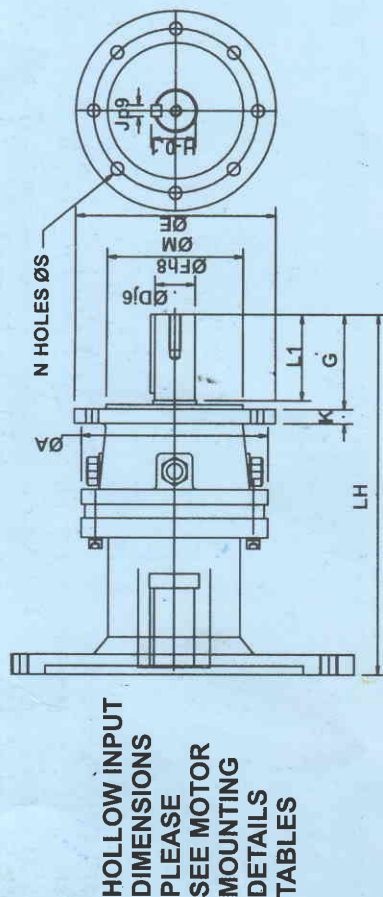
SELECTION CHART

FOR RATIO, RATED TORQUE, MAXIMUM POWER AND THERMAL RATING. SF 1 INPUT SPEED 1440 rpm

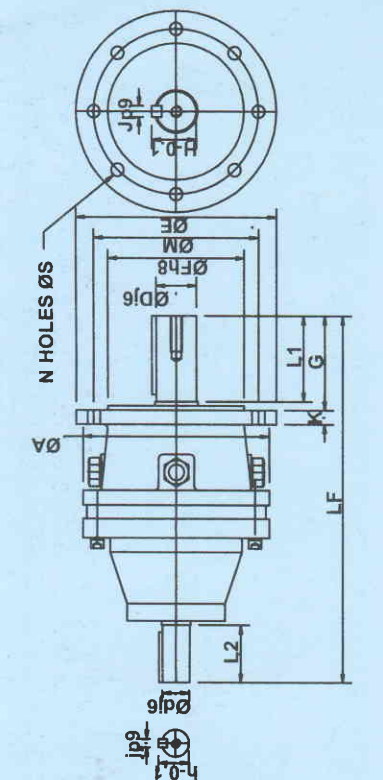
NOMINAL RATIO	STAGES	MODEL	ACTUAL RATIO	ACTUAL SPEED rpm	RATED TORQUE Nm	MAX. INPUT POWER Kw	THERMAL RATING Kw	STAGES	MODEL	ACTUAL RATIO	ACTUAL SPEED rpm	RATED TORQUE Nm	MAX. INPUT POWER Kw	THERMAL RATING Kw	STAGES	MODEL	ACTUAL RATIO	ACTUAL SPEED rpm	RATED TORQUE Nm	MAX. INPUT POWER Kw	THERMAL RATING Kw
3	1	SU-10	3.5	413.79	5865	45.00	37	1	SU-11	3.5	413.79	7029	75.00	55	1	SU-12	3.5	414	10848	90.00	75
3.5			3.8	377.14	5662	45.00				3.8	377	10474	90.00								
4			4.3	337.78	6299	45.00				4.3	338	11553	90.00								
4.5			4.9	295.38	6066	45.00				4.9	295	12835	90.00								
5			5.8	249.60	7069	45.00				5.8	250	12341	90.00								
6			7.2	200.00	8483	45.00				7.2	200	14360	90.00								
7	2	SU-10	12.1	118.91	10251	45.00	37	2	SU-11	12.1	118.91	14055	75.00	55	2	SU-12	12.1	119	21689	90.00	75
10			13.3	108.37	11877	45.00				13.3	108.37	13570	75.00				13.3	108	20941	90.00	
11			14.6	98.78	11877	45.00				14.6	98.78	16284	75.00				14.6	98.8	20941	90.00	
13			17.0	84.88	12317	45.00				17.0	84.88	15121	75.00				17.0	84.9	23334	90.00	
15			18.2	79.23	12791	45.00				18.2	79.23	17538	75.00				18.2	79.2	24232	90.00	
17			20.8	69.29	12317	45.00				20.8	69.29	16888	75.00				20.8	69.3	26062	90.00	
19			24.6	58.55	14317	45.00				24.6	58.55	17538	75.00				24.6	58.5	27064	90.00	
21			28.1	51.20	13787	45.00				28.1	51.20	18903	75.00				28.1	51.2	26062	90.00	
25			30.7	46.91	14317	45.00				30.7	46.91	19630	75.00				30.7	46.9	30293	90.00	
29			35.1	41.03	13787	45.00				35.1	41.03	18903	75.00				35.1	41.0	29171	90.00	
32	41.5	34.67	13256	45.00	41.5	34.67	18176	75.00	41.5	34.7	28049	90.00									
35	3	SU-10	51.8	27.78	14541	45.00	18.5	3	SU-11	51.8	27.78	19937	66.64	22	3	SU-12	51.8	27.8	26927	90.00	37
40			55.7	25.87	16964	45.00				55.7	25.87	23260	75.77				55.7	25.9	31415	90.0	
45			59.0	24.39	15753	45.00				59.0	24.39	21598	66.34				59.0	24.4	29171	89.60	
50			69.9	20.61	16359	42.46				69.9	20.61	22429	58.21				69.9	20.6	34613	89.83	
55			79.4	18.15	15753	36.00				79.4	18.15	21598	49.36				79.4	18.1	33331	76.17	
60			90.7	15.87	15753	31.48				90.7	15.87	21598	43.16				90.7	15.9	33331	66.61	
70			101.3	14.21	15753	28.19				101.3	14.21	21598	38.66				101.3	14.2	33331	59.65	
80			107.4	13.41	15753	26.60				107.4	13.41	21598	36.47				107.4	13.4	33331	56.28	
90			122.1	11.79	15753	23.39				122.1	11.79	21598	32.06				122.1	11.8	33331	49.48	
100			141.9	10.15	16359	20.91				141.9	10.15	22429	28.66				141.9	10.1	34613	44.23	
110	158.6	9.08	16964	19.40	158.6	9.08	23260	26.59	158.6	9.08	35895	41.04									
125	180.4	7.98	14541	14.62	180.4	7.98	19937	20.04	180.4	7.98	30767	30.93									
140	202.5	7.11	15753	14.11	202.5	7.11	21598	19.34	202.5	7.11	33331	29.85									
160	221.0	6.52	14541	11.93	221.0	6.52	19937	16.36	221.0	6.52	30767	25.24									
180	252.7	5.70	14541	10.43	252.7	5.70	19937	14.31	252.7	5.70	30767	22.08									
200	4	SU-10	299.1	4.81	15147	9.18	18.5	4	SU-11	299.1	4.81	20768	12.59	22	4	SU-12	299.1	4.81	32049	19.43	37
225			373.2	3.86	14541	7.06				373.2	3.86	19937	9.69				373.2	3.86	30767	14.95	
250			400.3	3.60	16359	7.77				400.3	3.60	22429	10.65				400.3	3.60	34613	16.44	
275			447.5	3.22	16964	7.21				447.5	3.22	23260	9.89				447.5	3.22	35895	15.26	
300			499.6	2.88	16964	6.46				499.6	2.88	23260	8.85				499.6	2.88	35895	13.66	
350			571.3	2.52	15753	5.24				571.3	2.52	21598	7.19				571.3	2.52	33331	11.09	
400			653.3	2.20	15753	4.59				653.3	2.20	21598	6.29				653.3	2.20	33331	9.70	
450			729.5	1.97	15753	4.11				729.5	1.97	21598	5.63				729.5	1.97	33331	8.69	
500			791.0	1.82	15753	3.79				791.0	1.82	21598	5.19				791.0	1.82	33331	8.01	
550			915.0	1.57	15147	3.15				915.0	1.57	20768	4.32				915.0	1.57	32049	6.66	
600	987.2	1.46	15753	3.03	987.2	1.46	21598	4.16	987.2	1.46	33331	6.42									
650	1107.8	1.30	15147	2.60	1107.8	1.30	20768	3.57	1107.8	1.30	32049	5.50									
700	1232.0	1.17	14541	2.24	1232.0	1.17	19937	3.08	1232.0	1.17	30767	4.75									
750	1298.9	1.11	14541	2.13	1298.9	1.11	19937	2.92	1298.9	1.11	30767	4.50									
800	1458.0	0.99	14541	1.90	1458.0	0.99	19937	2.60	1458.0	0.99	30767	4.01									
850	1725.4	0.83	15147	1.67	1725.4	0.83	20768	2.29	1725.4	0.83	32049	3.53									
900	5	SU-10	2153.4	0.67	15147	1.34	7.5	5	SU-11	2153.4	0.67	20768	1.83	9.3	5	SU-12	2153.4	0.67	32049	2.83	18.5
950			2687.4	0.54	14541	1.03				2687.4	0.54	19937	1.41				2687.4	0.54	30767	2.18	
1000			3004.2	0.48	16359	1.10				3004.2	0.48	22429	1.51				3004.2	0.48	34613	2.33	
1050			3555.3	0.41	16359	0.932				3555.3	0.41	22429	1.28				3555.3	0.41	34613	1.97	
1100			4016.6	0.36	16359	0.825				4016.6	0.36	22429	1.13				4016.6	0.36	34613	1.75	
1150			4520.2	0.32	17570	0.787				4520.2	0.32	24091	1.08				4520.2	0.32	37177	1.67	
1200			5073.8	0.28	14541	0.580				5073.8	0.28	19937	0.796				5073.8	0.28	30767	1.23	
1250			6004.5	0.24	15147	0.511				6004.5	0.24	20768	0.700				6004.5	0.24	32049	1.08	
1300			6947.5	0.21	14541	0.424				6947.5	0.21	19937	0.581				6947.5	0.21	30767	0.897	
1350			7976.3	0.18	15147	0.385				7976.3	0.18	20768	0.527				7976.3	0.18	32049	0.814	
1400	9180.1	0.16	14541	0.321	9180.1	0.16	19937	0.440	9180.1	0.16	30767	0.679									
1450	10261	0.14	14541	0.287	10261	0.14	19937	0.394	10261	0.14	30767	0.607									

FLANGE MOUNTING HOLLOW INPUT SHAFT

FLANGE MOUNTING FREE (SOLID) INPUT SHAFT

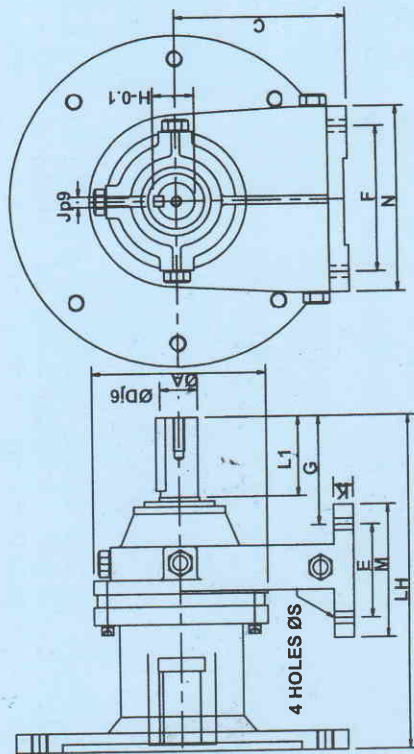
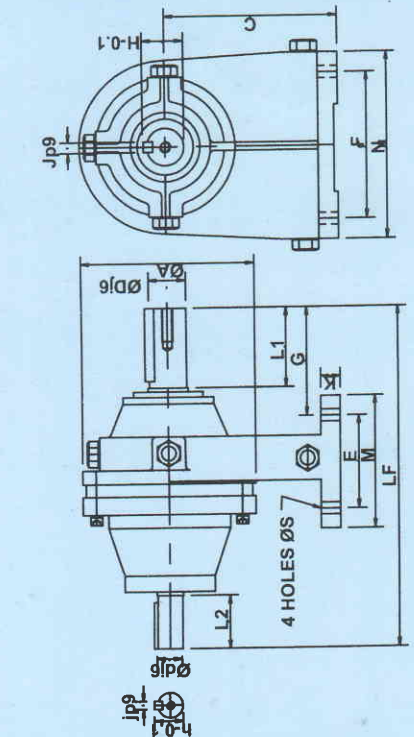


HOLLOW INPUT
DIMENSIONS
PLEASE
SEE MOTOR
MOUNTING
DETAILS
TABLES



MODEL	FLANGE MOUNTING SOLID INPUT SHAFT										FLANGE MOUNTING HOLLOW INPUT SHAFT										FLANGE MOUNTING FREE (SOLID) INPUT SHAFT																		
	OUTPUT SHAFT					MOUNTING					SINGLE STAGE					TWO STAGES					THREE STAGES					FOUR STAGES					FIVE STAGES								
	ØDj6	L1	J	H	E	M	ØFh8	S	N	G	K	A	Ødj6	L2	j	h	LF	Ødj6	L2	j	h	LF	Ødj6	L2	j	h	LF	Ødj6	L2	j	h	LF	Ødj6	L2	j	h	LF		
SU-01	19	30	6	21.5	85	68	55	10	4	35	10	80	14	30	5	16	178	14	30	5	16	194	14	30	5	16	210	14	30	5	16	226	14	30	5	16	242		
SU-02	24	50	8	27	120	102	80	10	4	56	10	100	19	40	6	21.5	245	19	40	6	21.5	268	19	40	6	21.5	291	19	40	6	21.5	313	19	40	6	21.5	336		
SU-03	28	60	8	31	140	115	95	10	8	66	10	130	24	50	8	27	267	24	50	8	27	294	19	40	6	21.5	312	19	40	6	21.5	335	19	40	6	21.5	358		
SU-04	32	60	10	35	150	125	100	10	8	66	12	150	28	60	8	31	307	28	60	8	31	343	19	40	6	21.5	340	19	40	6	21.5	362	19	40	6	21.5	385		
SU-05	38	80	10	41	180	150	120	12	8	87	12	180	32	60	10	35	359	32	60	10	35	407	24	50	8	27	413	24	50	8	27	440	19	40	6	21.5	458		
SU-06	50	90	14	53.5	200	165	130	14	8	97	15	215	38	80	10	41	431	38	80	10	41	498	28	60	8	31	507	28	60	8	31	543	19	40	6	21.5	540		
SU-07	60	95	18	64	230	200	170	14	8	103	15	235	42	90	12	45	472	42	90	12	45	544	32	60	10	35	547	32	60	10	35	595	24	50	8	27	601		
SU-08	70	110	20	74	250	215	180	18	8	118	15	265	48	90	14	51.5	497	48	90	14	51.5	577	38	80	10	41	626	38	80	10	41	712	28	60	8	31	702		
SU-09	80	120	22	85	300	265	240	18	8	128	20	305	55	120	16	59	589	55	120	16	59	675	42	90	12	45	686	42	90	12	45	757	32	60	10	35	761		
SU-10	95	140	25	102	350	305	270	18	12	150	20	335	60	120	18	64	654	60	120	18	64	755	48	90	14	51.5	759	48	90	14	51.5	839	38	80	10	41	889		
SU-11	110	165	28	116	400	350	300	22	12	175	25	390	75	130	20	79.5	708	75	130	20	79.5	816	55	120	16	59	885	55	120	16	59	971	42	90	12	45	981		
SU-12	120	180	32	127	440	390	340	22	18	190	30	435	95	140	25	102	789	95	140	25	102	912	60	120	18	64	980	60	120	18	64	1081	48	90	14	51.5	1085		
FLANGE MOUNTING HOLLOW INPUT SHAFT										FLANGE MOUNTING FREE (SOLID) INPUT SHAFT										FLANGE MOUNTING FREE (SOLID) INPUT SHAFT										FLANGE MOUNTING FREE (SOLID) INPUT SHAFT									
	ØDj6	L1	J	H	E	M	ØFh8	S	N	G	K	A	Ødj6	L2	j	h	LF	Ødj6	L2	j	h	LF	Ødj6	L2	j	h	LF	Ødj6	L2	j	h	LF	Ødj6	L2	j	h	LF		
SU-01	19	30	6	21.5	85	68	55	10	4	35	10	80	14	30	5	16	178	14	30	5	16	194	14	30	5	16	210	14	30	5	16	226	14	30	5	16	242		
SU-02	24	50	8	27	120	102	80	10	4	56	10	100	19	40	6	21.5	245	19	40	6	21.5	268	19	40	6	21.5	291	19	40	6	21.5	313	19	40	6	21.5	336		
SU-03	28	60	8	31	140	115	95	10	8	66	10	130	24	50	8	27	267	24	50	8	27	294	19	40	6	21.5	312	19	40	6	21.5	335	19	40	6	21.5	358		
SU-04	32	60	10	35	150	125	100	10	8	66	12	150	28	60	8	31	307	28	60	8	31	343	19	40	6	21.5	340	19	40	6	21.5	362	19	40	6	21.5	385		
SU-05	38	80	10	41	180	150	120	12	8	87	12	180	32	60	10	35	359	32	60	10	35	407	24	50	8	27	413	24	50	8	27	440	19	40	6	21.5	458		
SU-06	50	90	14	53.5	200	165	130	14	8	97	15	215	38	80	10	41	431	38	80	10	41	498	28	60	8	31	507	28	60	8	31	543	19	40	6	21.5	540		
SU-07	60	95	18	64	230	200	170	14	8	103	15	235	42	90	12	45	472																						

FOOT MOUNTING FREE (SOLID) INPUT SHAFT



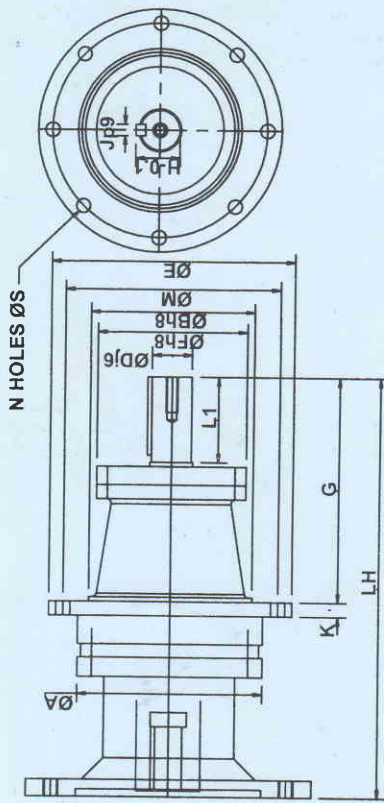
HOLLOW INPUT
DIMENSIONS
PLEASE
SEE MOTOR
MOUNTING
DETAILS
TABLES

FOOT MOUNTING HOLLOW INPUT SHAFT

MODEL	FOOT MOUNTING SOLID INPUT SHAFT												FOOT MOUNTING HOLLOW INPUT SHAFT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	OUTPUT SHAFT						MOUNTING						SINGLE STAGE						TWO STAGES						THREE STAGES						FOUR STAGES						FIVE STAGES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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AGITATOR MOUNTING HOLLOW INPUT SHAFT

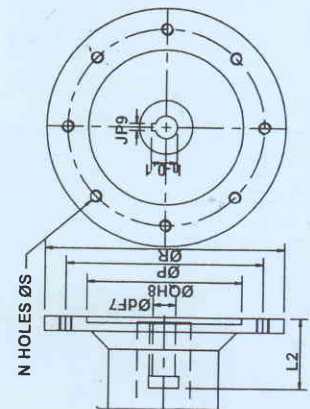
HOLLOW INPUT
DIMENSIONS
PLEASE
SEE MOTOR
MOUNTING
DETAILS
TABLES



MODEL	AGITATOR MOUNTING SOLID INPUT SHAFT													SINGLE STAGE		TWO STAGES		THREE STAGES		FOUR STAGES		FIVE STAGES			
	MOUNTING																								
	OUTPUT SHAFT																								
	ØDj6	L1	J	H	E	M	ØFh8	ØBh	8G	S	N	K	A	ADAPTABLE FRAME SIZE		Lh	ADAPTABLE FRAME SIZE		Lh	ADAPTABLE FRAME SIZE		Lh	ADAPTABLE FRAME SIZE		Lh
SU-02	24	50	8	27	140	120	95	83	137	10	4	10	100	63, 71, 80 & 90	275	63, 71, 80 & 90	298	63, 71, 80 & 90	320	63, 71, 80 & 90	342	63, 71, 80 & 90	365		
SU-03	28	60	8	31	170	150	115	105	158	10	8	10	130	71,80,90 & 100	295	71,80,90 & 100	322	63, 71, 80 & 90	347	63, 71, 80 & 90	370	63, 71, 80 & 90	392		
SU-04	32	60	10	35	200	175	120	115	189	10	8	12	150	71,80,90, 100 & 112	325	71,80,90, 100 & 112	362	63, 71, 80 & 90	369	63, 71, 80 & 90	392	63, 71, 80 & 90	415		
SU-05	38	80	10	41	240	210	130	120	242	14	8	14	180	80,90,100,112 & 132	441	80,90,100,112 & 132	489	71, 80,90 & 100	499	71, 80,90 & 100	526	63, 71, 80 & 90	540		
SU-06	50	90	14	53.5	285	255	170	165	280	14	8	15	215	100, 112, 132 & 160	534	100, 112, 132 & 160	603	71, 80,90,100 & 112	595	71, 80,90 & 112	631	63, 71, 80 & 90	638		
SU-07	55	95	16	59	315	275	190	165	325	14	8	15	235	112, 132 & 160	584	112, 132 & 160	655	80, 90,100,112 & 132	672	80, 90,112 & 132	720	71,80,90 & 100	730		
SU-08	65	110	18	70.5	345	305	215	170	346	18	8	18	265	132, 160 & 180	622	132, 160 & 180	702	100,112, 132 & 160	760	100, 112, 132 & 160	828	71, 80,90, 100 & 112	821		
SU-09	70	120	20	74.5	425	370	250	180	407	18	8	18	305	132, 160, 180 & 200	708	132, 160, 180 & 200	794	112,132 & 160	848	112, 132 & 160	919	80,90, 100, 112 & 132	936		
SU-10	80	140	22	85	430	380	280	210	453	18	12	20	335	160, 180, 200 & 225	797	160, 180, 200 & 225	898	132,160 & 180	946	132, 160 & 180	1026	100, 112, 132 & 160	1085		
SU-11	100	165	28	106	485	435	320	250	500	18	12	20	390	180, 200, 225 & 250	865	180, 200, 225 & 250	973	132,160, 180 & 200	1025	132, 160, 180 & 200	1111	112, 132 & 160	1165		
SU-12	115	180	32	122	580	520	460	265	543	26	18	22	435	200, 225, 250 & 280	940	200, 225, 250 & 280	1063	160,180, 200 & 225	1146	160, 180, 200 & 225	1247	132, 160 & 180	1295		

MOTOR MOUNTING DIMENSIONS AS PER STANDARD FRAME SIZE

FRAME SIZE		ØdF7	L2	J	h	R	P	ØQH8	N	S	Kw at 1440 RPM		Kw at 960 RPM		Kw at 750 RPM		Kw at 3000 RPM	
56 FS	9	22	3	10	140	115	115	95	4	M-8	0.09		-		-		0.09, 0.12	
63 FS	11	25	4	13	140	115	115	95	4	M-8	0.12, 0.18		-		-		0.18, 0.25	
71 FS	14	32	5	16	160	130	130	110	4	M-8	0.25, 0.37		0.09, 0.12, 0.18, 0.25		0.09, 0.12		0.37, 0.55	
80 FS	19	42	6	22	200	165	165	130	4	M-10	0.55, 0.75		0.37, 0.55		0.18, 0.25		0.75, 1.1	
90 FS	24	52	8	27	200	165	165	130	4	M-10	1.1, 1.5		0.75, 1.1		0.37, 0.55		1.5, 2.2	
100 FS	28	62	8	31	250	215	215	180	4	M-12	2.2		1.5		0.75, 1.1		3.7	
112 FS	28	62	8	31	250	215	215	180	4	M-12	3.7		2.2		1.5		5.5	
132 FS	38	82	10	41	300	265	265	230	4	M-12	5.5, 7.5		3.7, 5.5		2.2, 3.7		7.5, 9.3	
160 FS	42	112	12	45	350	300	300	250	4	M-16	9.3, 11, 15		7.5, 9.3, 11		5.5, 7.5		11, 15, 18.5	
180 FS	48	112	14	52	350	300	300	250	4	M-16	18.5, 22		15		9.3, 11		22	
200 FS	55	112	16	59	400	350	350	300	4	M-16	30		18.5, 22		15		30, 37	
225 FS	60	145	18	64	450	400	400	350	8	M-16	37, 45		30		18.5, 22		45	
250 FS	65	145	18	69	550	500	500	450	8	M-16	55		37		30		55	
280 FS	75	145	20	80	550	500	500	450	8	M-16	75, 90		45, 55		37, 45		75, 90	





SUMIKO



Planetary Foot
Mounting Hollow
Input Shaft



Planetary Foot
Mounting Solid Input
Input Shaft



Planetary Flange
Mounting Hollow
Input Shaft



Planetary Flange
Mounting Hollow
Input Shaft



Planetary Agitator
Mounting Hollow
Input Shaft



Bevel-Planetary Flange
Mounting Right Angle
Drive



Bevel-Planetary Flange
Mounting Right Angle
Drive



Planetary Light Duty
Gearbox



Planetary Creep Drive



Planetary Winch Drive
Drive



Torque Limitor



Planetary Helical
Parallel Axis Gear Box



Planetary Foot
Mounting Right Angle Geared Motor



Planetary Foot
Mounting Inline Geared Motor



Foot Mounting Electric Motor



Flange Mounting Electric Motor



Planetary Sugar
Crystalizer Drive



Helical Parallel Axis
Gearbox



SUMIKO

SUMIKO ENTERPRISE

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