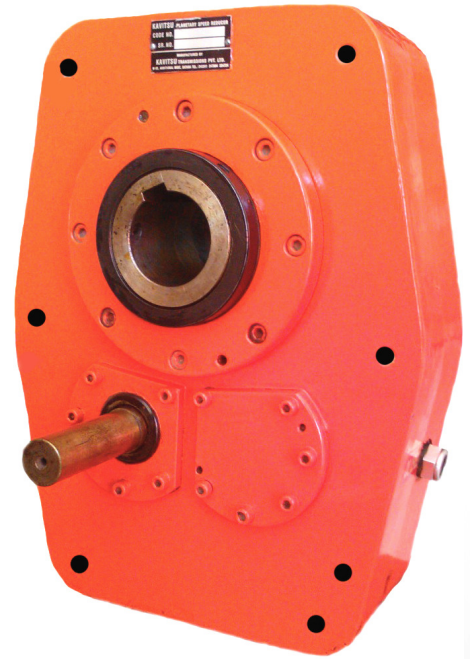


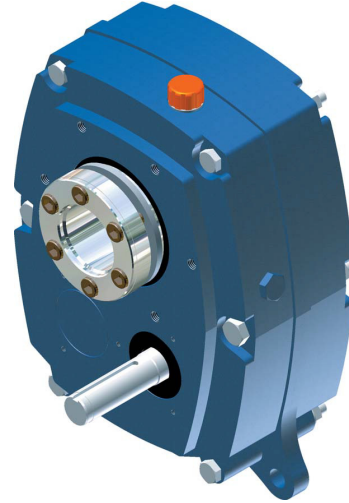
SHAFT MOUNTED GEAR BOX



SHAFT MOUNTED SPEED REDUCER

KAVITSU, SHAFT MOUNTED SPEED REDUCER represents a significant technical success in mechanical power transmission system.

KAVITSU is manufacturing and supplying planetary speed reducers and allied products for last 10 years. A wide range of products including Gearboxes, Electric motors, Torque limiters and so on are the evidences of good R & D capabilities and number of satisfied customers are eyewitnesses for a good quality and service.



Exploded View



SHAFT MOUNTED SPEED REDUCER

STRUCTURAL DETAILS

- Hardened & profile ground helical gears for maximum power transmission, smooth operation and longer life, with maximum efficiency. An impact resistant tough core with case hardened surface gives longer life.
- High capacity heavy duty roller bearing for trouble free operation and maximum load carrying capacity
- Enhanced seal options on input and for use in hostile environment applications.

HOUSING

Close grain Graded cast iron for light duty gearboxes & cast steel for heavy duty gearboxes are the material used for significant loading conditions.

SHAFTS

Heavy duty input shaft manufactured in High tensile alloy steel, suitable for all overhang load conditions; a proper thought is given for bending and tensional stresses.

TORQUE ARM MOUNTING :

Two positions are provided as per direction of rotation of output shaft for the mounting of torque-arm to have an advantage of universal mounting.

Model	KTS - 01		KTS - 02		KTS - 03		KTS - 04	
N	NA	T	NA	T	NA	T	NA	T
5	5.05	13	5.05	21	5.047	32	5.047	48
13	13.984	21	13.596	35	13.589	55	13.589	90
20	20.997	25	20.466	40	20.456	65	20.456	105

Model	KTS - 05		KTS - 06		KTS - 07		KTS - 08	
N	NA	T	NA	T	NA	T	NA	T
5	5.05	74	5.047	115	5.047	180	5.047	300
13	13.589	130	13.589	175	13.589	235	13.589	380
20	20.456	150	20.456	210	20.456	280	20.456	435



SHAFT MOUNTED SPEED REDUCER

SELECTION CHART

FOR RATIO 5:1

MODEL	KTS - 01	KTS- 02	KTS- 03	KTS- 04	KTS- 05	KTS- 06	KTS- 07	KTS- 08
RPM	MAXIMUM INPUT POWER (HP)							
100	1.82	2.93	4.47	6.70	10.33	16.05	25.10	41.90
110	2.00	3.23	4.90	7.35	11.35	17.65	27.65	45.10
120	2.18	3.52	5.35	8.05	12.40	19.25	30.15	50.25
130	2.36	3.81	5.80	8.70	13.40	20.85	32.65	54.45
140	2.54	4.11	6.25	9.40	14.50	22.50	35.20	58.65
150	2.72	4.40	6.70	10.05	15.50	24.10	37.70	62.80
160	2.90	4.70	7.15	10.70	16.50	25.70	40.20	67.00
170	3.09	5.00	7.60	11.40	17.55	27.30	42.73	71.20
180	3.27	5.28	8.05	12.05	18.60	28.90	45.25	75.40
190	3.45	5.57	8.50	12.73	19.63	30.50	47.75	79.60
200	3.63	5.66	8.95	13.40	20.65	32.10	50.25	83.75
210	3.81	6.15	9.36	14.07	21.70	33.70	52.75	87.95
220	3.99	6.45	9.83	14.75	22.70	35.30	55.30	92.15
230	4.17	6.75	10.25	15.40	23.75	36.90	57.80	96.35
240	4.35	7.00	10.70	16.10	24.80	38.55	60.30	100.50
250	4.54	7.33	11.15	16.75	25.83	40.15	62.80	104.70
260	4.72	7.62	11.62	17.43	26.85	41.75	65.35	108.90
270	4.90	7.92	12.05	18.10	27.90	43.35	67.85	113.10
280	5.08	8.20	12.50	18.75	28.90	44.95	70.35	117.30
290	5.26	8.50	12.95	19.45	29.95	46.55	72.90	121.45
300	5.45	8.80	13.40	20.10	31.00	46.15	75.40	125.65
310	5.63	9.10	13.85	20.75	32.00	49.75	77.90	129.85
320	6.81	9.38	14.30	21.45	33.05	51.40	80.40	134.05
330	5.99	9.70	14.75	22.10	34.10	53.00	82.95	138.20
340	6.17	10.00	15.20	22.80	35.10	54.60	85.44	142.40
350	6.35	10.25	15.66	23.45	36.15	56.20	87.95	146.60
360	6.53	10.55	16.08	24.15	37.20	57.80	90.50	150.80
370	6.72	10.85	16.53	24.80	38.20	59.40	93.00	156.00
380	6.90	11.15	17.00	25.50	39.25	61.00	95.50	159.15
390	7.08	11.45	17.45	26.15	40.30	62.80	98.00	163.38
400	7.26	11.73	17.87	26.80	41.30	64.25	100.50	167.55

SHAFT MOUNTED SPEED REDUCER

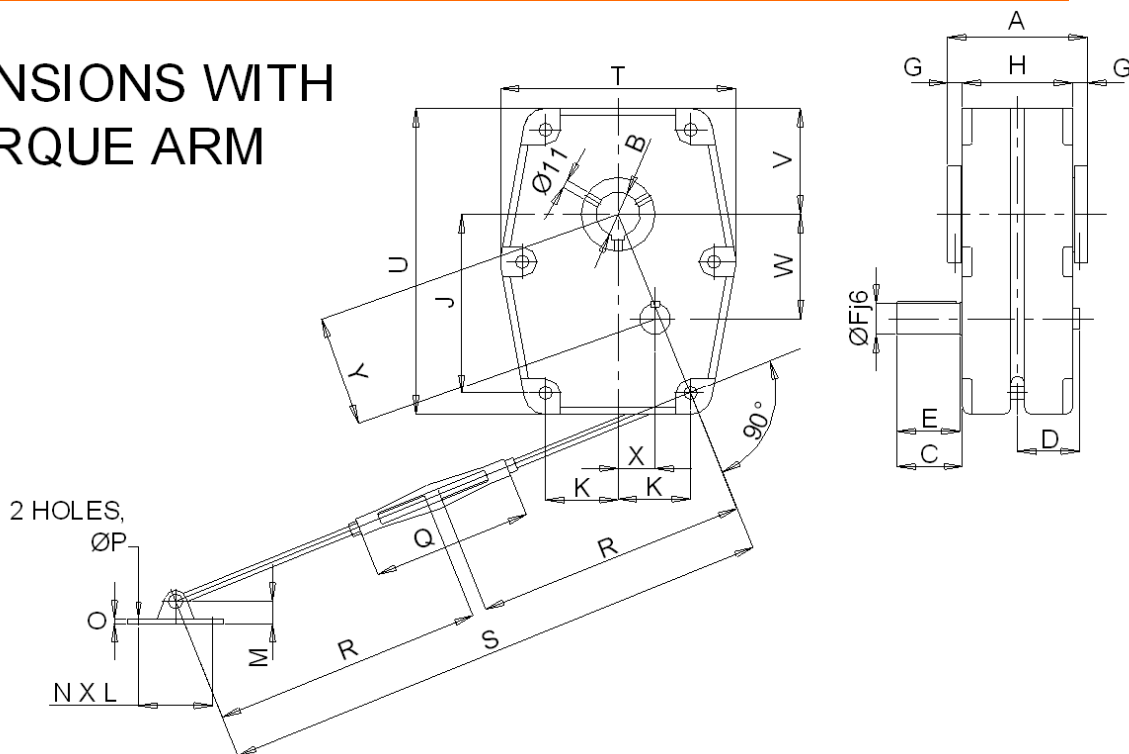
SELECTION CHART

FOR RATIO 5:1

MODEL	KTS - 01		KTS- 02		KTS- 03		KTS- 04		KTS- 05		KTS- 06		KTS- 07		KTS- 08	
RPM	MAXIMUM INPUT POWER (HP)															
	13 ; 1	20 ; 1	13 ; 1	20 ; 1	13 ; 1	20 ; 1	13 ; 1	20 ; 1	13 ; 1	20 ; 1	13 ; 1	20 ; 1	13 ; 1	20 ; 1	13 ; 1	20 ; 1
10	0.29	0.35	0.49	0.55	0.77	0.91	1.25	1.45	1.80	2.10	2.45	2.90	3.25	3.90	5.30	6.10
12	0.36	0.42	0.69	0.65	0.92	1.10	1.60	1.75	2.20	2.60	2.90	3.60	3.95	4.70	6.40	7.30
14	0.40	0.50	0.68	0.75	1.08	1.30	1.75	2.00	2.55	2.90	3.40	4.10	4.60	5.50	7.40	8.50
16	0.47	0.55	0.78	0.90	1.23	1.45	2.00	2.35	2.90	3.30	3.90	4.70	5.25	6.30	8.60	9.70
18	0.63	0.60	0.88	1.00	1.35	1.60	2.25	2.85	3.25	3.30	4.40	5.30	5.90	7.00	9.50	10.90
20	0.69	0.70	0.98	1.10	1.55	1.80	2.60	2.90	3.60	4.20	4.90	5.90	6.65	7.80	10.60	12.20
22	0.65	0.75	1.08	1.20	1.70	2.00	2.75	3.20	4.00	4.60	5.40	6.50	7.20	8.60	116.00	13.40
24	0.70	0.85	1.17	1.30	1.85	2.20	3.00	3.60	4.35	5.00	5.85	7.00	7.85	9.40	12.70	14.60
26	0.75	0.90	1.27	1.40	2.00	2.40	3.25	3.80	4.70	5.50	6.35	7.60	8.50	10.20	13.80	15.80
28	0.62	1.00	1.37	1.60	2.15	2.60	3.60	4.10	6.10	5.80	6.85	8.20	9.20	11.00	14.80	17.00
30	0.88	1.05	1.47	1.70	2.30	2.70	3.75	4.40	5.50	6.30	7.30	8.80	9.80	11.70	15.90	18.20
32	0.91	1.10	1.65	1.80	2.45	2.90	4.00	4.70	5.80	6.70	7.80	9.40	10.60	12.50	17.00	19.40
34	1.00	1.20	1.85	1.90	2.60	3.10	4.25	5.00	6.15	7.10	8.30	10.00	11.10	13.30	18.00	20.70
38	1.10	1.30	1.85	2.10	2.90	3.45	4.75	5.60	6.90	8.00	9.30	11.10	12.60	14.90	20.10	23.10
40	1.17	1.40	1.95	2.20	3.05	3.60	5.00	5.80	7.25	8.40	9.75	11.70	13.10	15.70	21.20	24.30
44	1.30	1.50	2.15	2.40	3.36	4.00	5.50	8.40	8.00	9.20	10.70	12.90	14.40	17.20	23.32	26.80
48	1.40	1.70	2.35	2.70	3.70	4.35	6.00	7.00	8.70	10.00	11.70	14.10	15.70	18.80	25.50	29.20
52	1.50	1.80	2.55	2.90	4.00	4.70	6.50	7.60	9.40	10.90	12.70	15.30	17.00	20.30	27.60	31.60
56	1.65	1.90	2.75	3.10	4.30	5.10	7.00	8.20	10.10	11.70	13.70	16.40	18.40	21.90	29.70	34.00
60	1.75	2.10	2.95	3.40	4.80	5.60	7.60	8.80	10.90	12.60	14.70	17.60	19.70	23.60	31.80	36.40
64	1.85	2.20	3.10	3.50	4.90	5.80	8.00	9.40	11.60	13.40	15.80	18.80	21.00	26.00	34.00	38.90
68	2.00	2.40	3.30	3.80	5.20	6.20	8.55	10.00	12.30	14.20	16.60	19.90	22.30	26.60	36.00	41.30
72	2.10	2.50	3.60	4.00	5.55	6.60	9.00	10.50	13.10	15.00	17.80	21.10	23.60	28.20	38.20	43.70
76	2.25	2.60	3.70	4.20	5.85	6.90	9.55	11.10	13.80	15.90	18.60	22.30	24.90	29.70	40.30	46.20
80	2.30	2.80	3.90	4.50	6.15	7.25	10.00	11.70	14.50	16.80	19.60	23.60	28.20	31.30	42.50	48.60
85	2.60	3.00	4.16	4.70	6.60	7.70	10.70	12.60	15.40	17.80	20.60	24.90	27.90	33.20	45.10	51.60
90	2.65	3.10	4.40	5.00	6.90	8.20	11.30	13.20	16.30	18.90	22.00	26.40	29.50	35.20	47.70	54.70
95	2.80	3.30	4.85	5.30	7.30	8.60	11.90	13.90	17.20	19.90	23.20	27.90	31.20	37.10	60.40	57.70
100	2.95	3.50	4.90	5.00	7.65	9.10	12.80	14.80	18.10	20.90	24.40	29.30	32.80	39.10	63.00	60.70
105	3.08	3.70	6.16	5.80	8.05	9.60	13.20	15.40	19.00	22.00	26.80	31.10	34.40	41.10	66.70	63.80
110	3.25	3.80	6.40	6.10	8.45	10.00	13.80	16.10	20.00	23.00	26.80	32.30	36.10	43.00	68.30	66.80

SHAFT MOUNTED SPEED REDUCER

DIMENSIONS WITH TORQUE ARM



DIMENSIONS WITH TORQUE ARM (TABLE 'A')

MODEL	APPROXIMATE WEIGHT KG		A	B	C	D	E	F	INPUT SHAFT KEYWAY	G	H	J	K	L	M	N	O
	RATIO 5	RATIOS 13 & 20															
KTS-01	15	16	134	SEE TABLE 'C'	63	59	80	19j6	6 X 3.5 X 50	15	104	131	55	24	20	5	5
KTS-02	21	22	142		72	65	90	22j6	6 X 3.5 X 56	17	108	156	59	24	20	5	5
KTS-03	30	32	152		77	68	110	25j6	8 X 4 X 63	17	118	188	76	28	24	5	5
KTS-04	41	46	170		85	76	115	28j6	8 X 4 X 70	20	130	222	90	28	24	5	5
KTS-05	53	56	189		90	87	130	32k6	10 X 5 X 90	20	149	242	98	34	30	5	6
KTS-06	82	92	212		105	110	145	42k6	12 X 5 X 90	20	172	277	110	34	30	6	6
KTS-07	133	144	242		116	115	170	48k6	14 X 5.5 X 100	26	190	330	88	70	50	17.5	17.5
KTS-08	194	208	257		135	119	200	55m6	16 X 6 X 110	30	197	424	102	70	50	17.5	17.5
MODEL	P	Q	R	S		T	U	V	W	X	Y						
				MIN	MAX												
KTS-01	10	200	300	600	750	185	225	81	75	25	79						
KTS-02	10	200	300	600	750	218	270	96	90	31	95						
KTS-03	12	216	350	700	850	258	328	117	110	37	116						
KTS-04	12	216	350	700	850	278	377	129	129	43	133						
KTS-05	16	216	375	750	900	317	414	143	143	50	150						
KTS-06	16	216	375	750	900	365	468	162	162	56	166						
KTS-07	16	222	375	750	900	434	550	195	195	62	200						
KTS-08	16	222	375	750	900	542	700	254	254	75	266						

SHAFT MOUNTED SPEED REDUCER

MOTOR MOUNTING DIMENSIONS (TABLE 'B')

MODEL	A		B	C	D	AVAILABLE F. S.
	MIN	MAX				
KTS-01	185	240	244	88	55	63 TO 90
KTS-02	214	267	262	102	66	63 TO 100
KTS-03	252	307	294	122	76	71 TO 112
KTS-04	292	345	304	144	83	80 TO 112
KTS-05	319	391	333	160	110	80 TO 112
KTS-06	357	427	376	173	200	90 TO 116
KTS-07	427	495	440	206	204	90 TO 180
KTS-08	563	646	480	269	215	100 TO 200

OUTPUT SHAFT BORE SIZES (TABLE 'C')

MODEL	DIMENSION 'B'					
	STANDARD HUB BORE	BUSH BORE FOR STANDARD HUB		ALTERNATIVE HUB BORE	BUSH BORES FOR ALTERNATIVE HUB	
KTS-01	30	25	1"	40	32 35	1.25"
KTS-02	40	30 32 35	1.25"	50	36 42 45	1.5" 1.75"
KTS-03	50	36 40 42 45	1.25" 1.5" 1.75"	55		2"
KTS-04	55	42 45 50	1.5" 1.75" 2"	65	60	2.25"
KTS-05	65	50 55 60	2" 2.25"	75	70	2.5" 2.75"
KTS-06	75	60 65 70	2.25" 2.5" 2.75"	85	80	3"
KTS-07	85	70 75 80	2.5" 2.75" 3"	100	90 95	3.5"
KTS-08	100	90 95	3.5"	120	110	4" 4.5"



SHAFT MOUNTED SPEED REDUCER

OUTPUT SHAFT BORE SIZES (TABLE 'C')

MODEL	DIMENSION 'B'					
	STANDARD HUB BORE	BUSH BORE FOR STANDARD HUB		ALTERNATIVE HUB BORE	BUSH BORES FOR ALTERNATIVE HUB	
KTS-01	30	25	1"	40	32 35	1.25"
KTS-02	40	30 32 35	1.25"	50	36 42 45	1.5" 1.75"
KTS-03	50	36 40 42 45	1.25" 1.5" 1.75"	55		2"
KTS-04	55	42 45 50	1.5" 1.75" 2"	65	60	2.25"
KTS-05	65	50 55 60	2" 2.25"	75	70	2.5" 2.75"
KTS-06	75	60 65 70	2.25" 2.5" 2.75"	85	80	3"
KTS-07	85	70 75 80	2.5" 2.75" 3"	100	90 95	3.5"
KTS-08	100	90 95	3.5"	120	110	4" 4.5"

- All dimensions are in millimeters. It is recommended that larger frame size motors than those listed for a particular size SMSR should be mounted independently.
- 'A max' :- This distance must include belt tensioning allowances.
- 'A min' :- This distance must include belt fitting allowances.

Reversing Duty

Shaft Mounted Speed Reducers suitable for reversing duty can be supplied to order.

Backstops

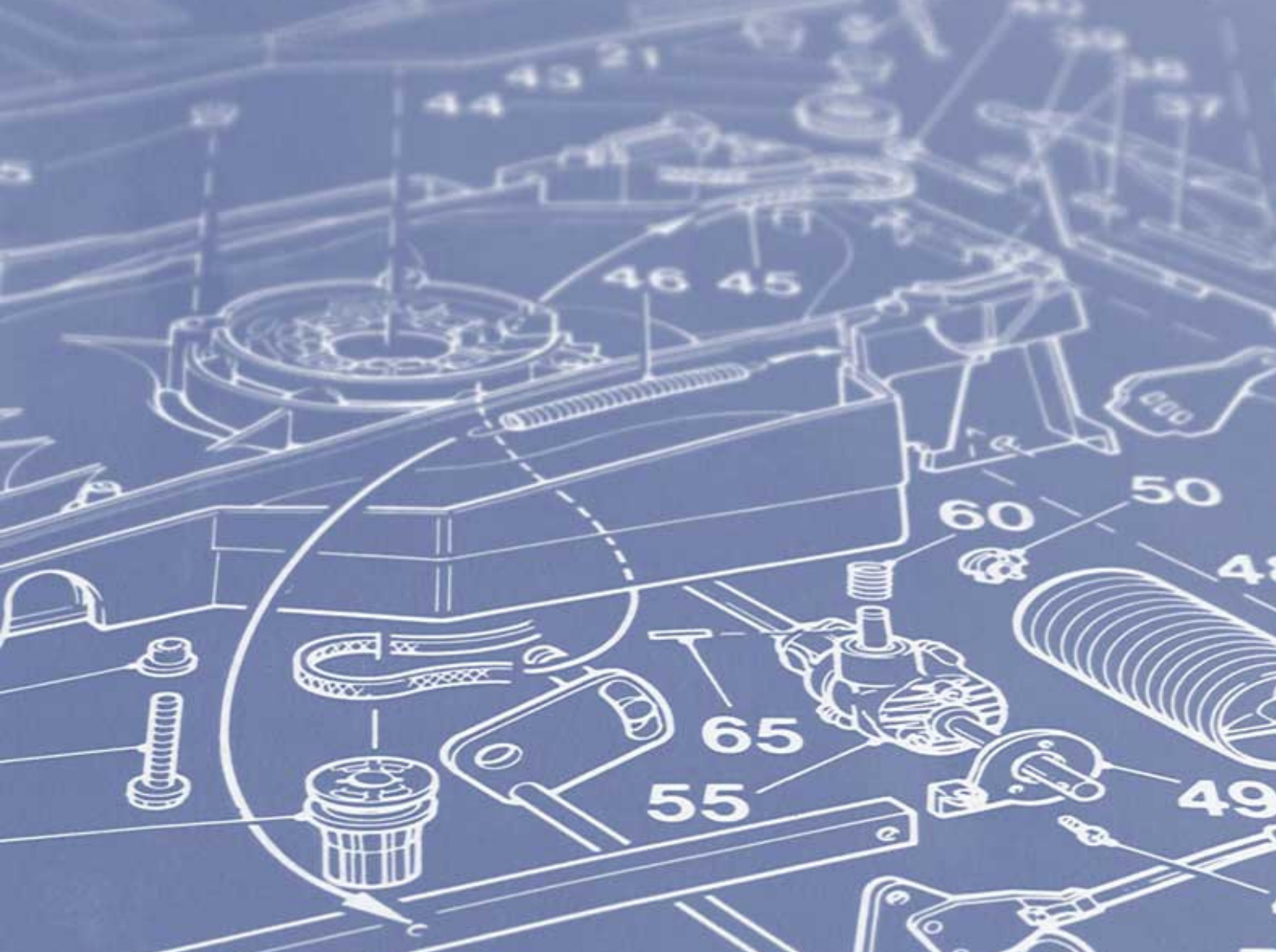
A backstop may be incorporated on applications where it is necessary to prevent reversal of rotation. It can be quickly installed within the reducer by simply removing a cover plate.

Vertical Shafts

Units suitable for mounting on vertical shafts can be supplied at extra charge. When ordering, please specify whether input shaft is above or below.

Foot Mounting

Whilst the reducer is designed for shaft mounting, foot mounts are available to convert the unit for use in a free standing manner.



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