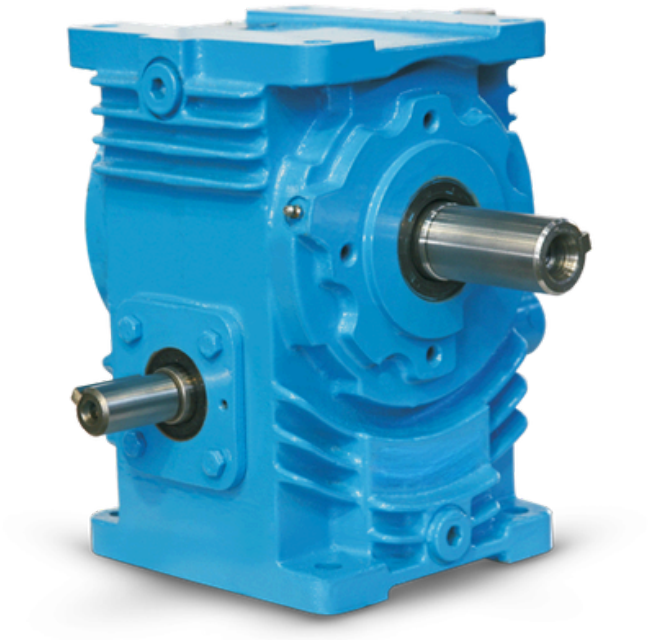
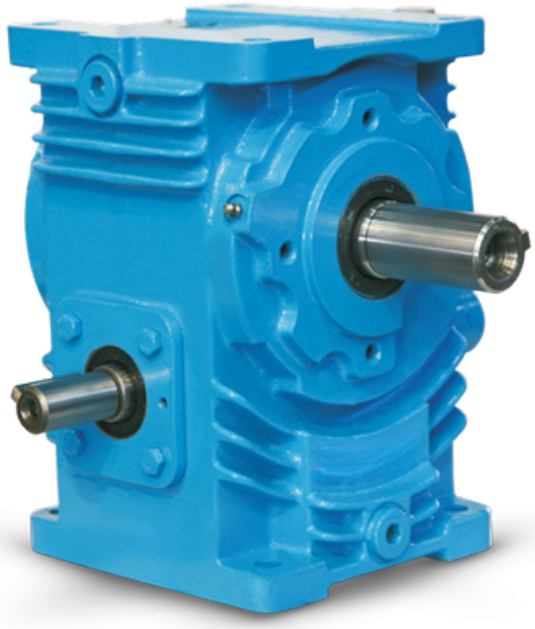
MOVICON

SMALL SERIES
WORM GEAR UNITS



Size 1 ⅝ to 3.54"

SMALL SERIES
WORM GEAR UNITS

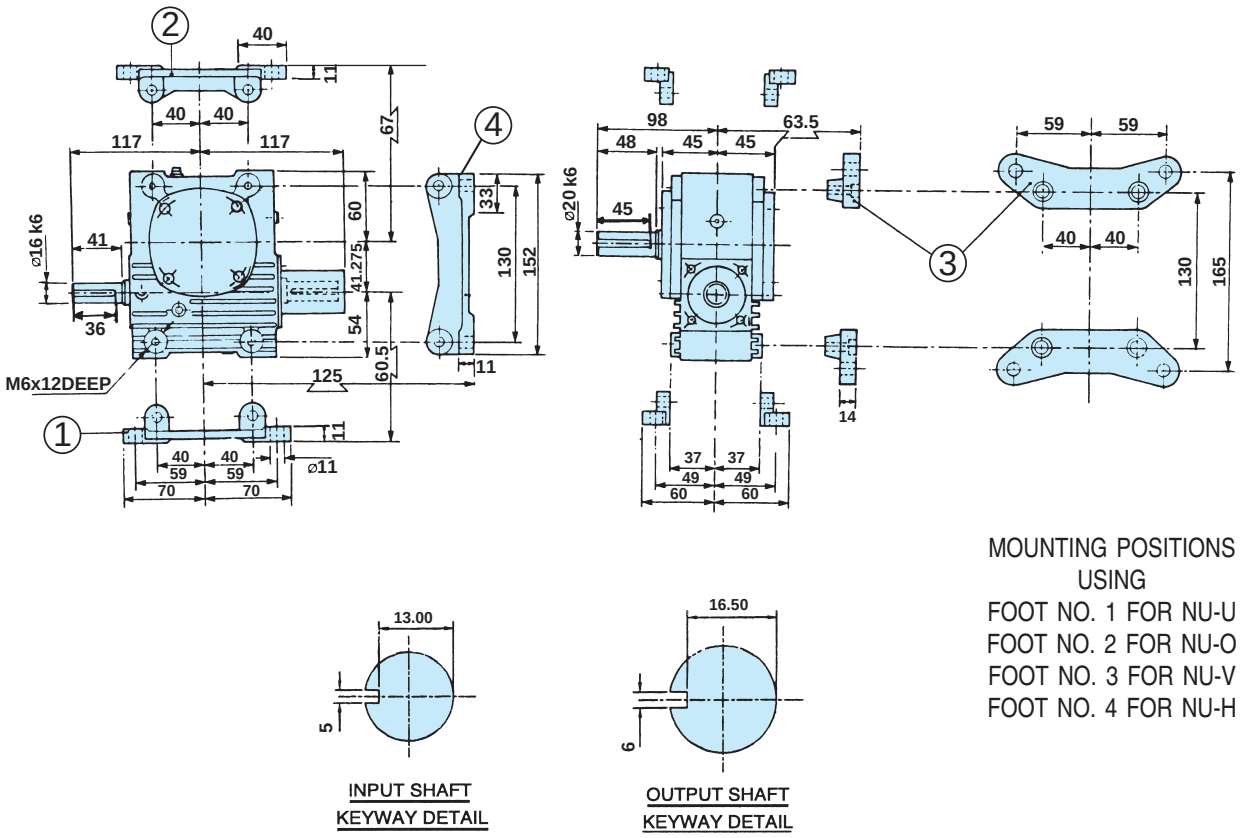


01. TECHNICAL DETAILS TYPE MSNU

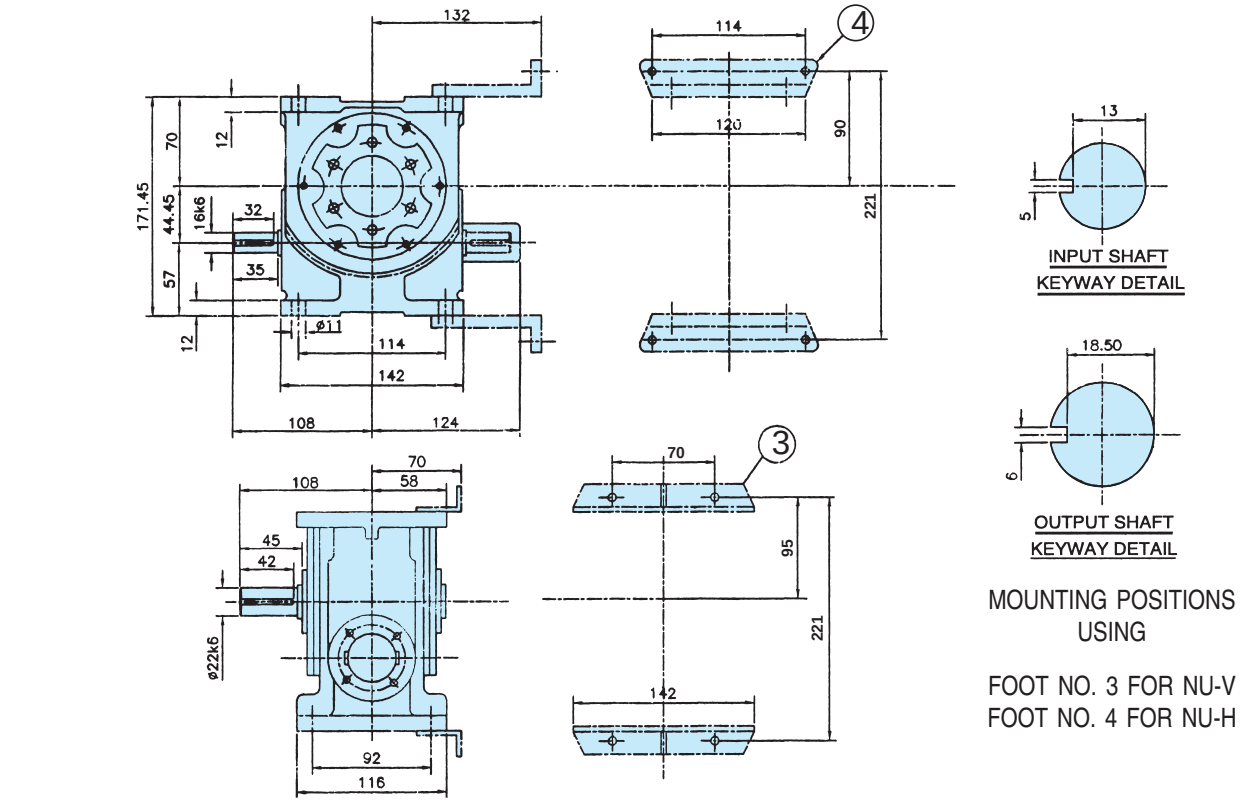
02. RATINGS

03. ACTUAL GEAR RATIO, LUBRICANTS, WEIGHT & GREASE

$1\frac{5}{8}$ MSNU

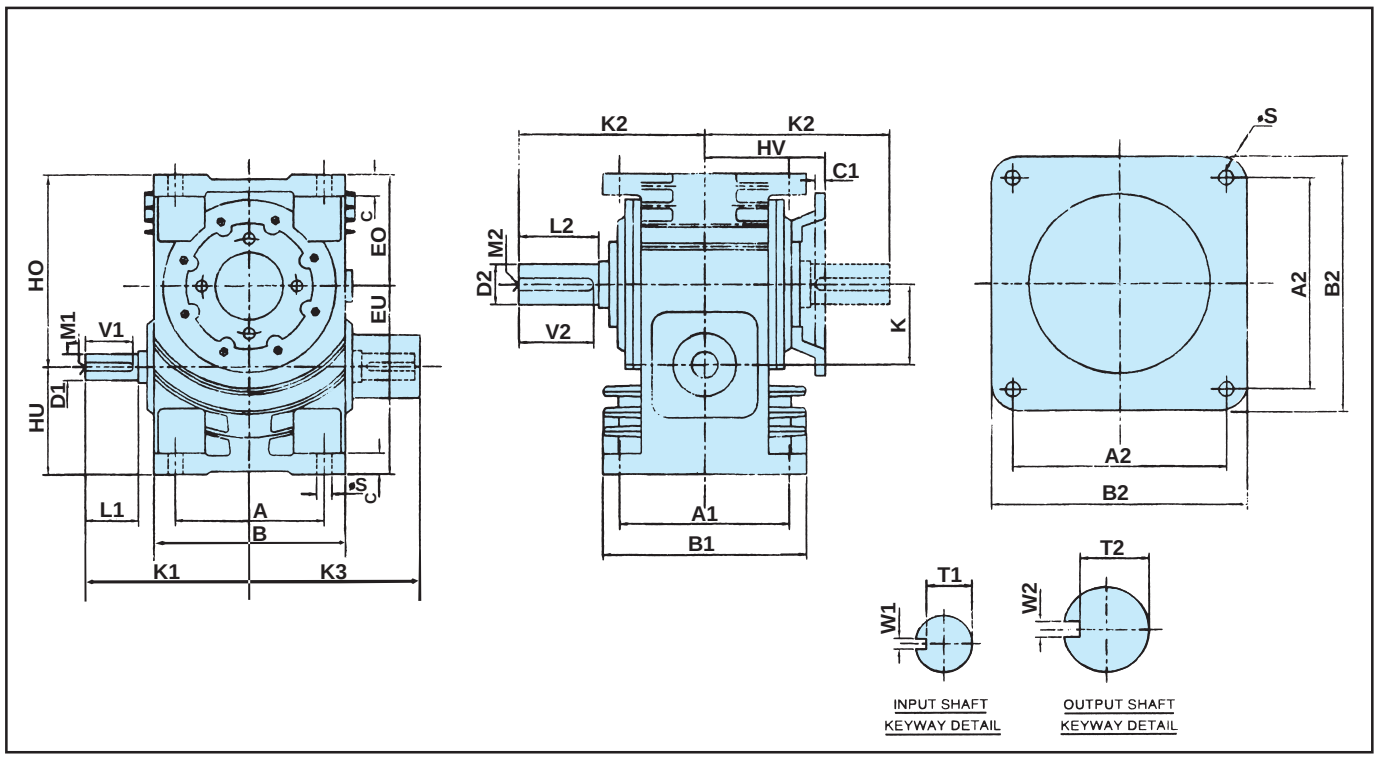


$1\frac{3}{4}$ MSNU



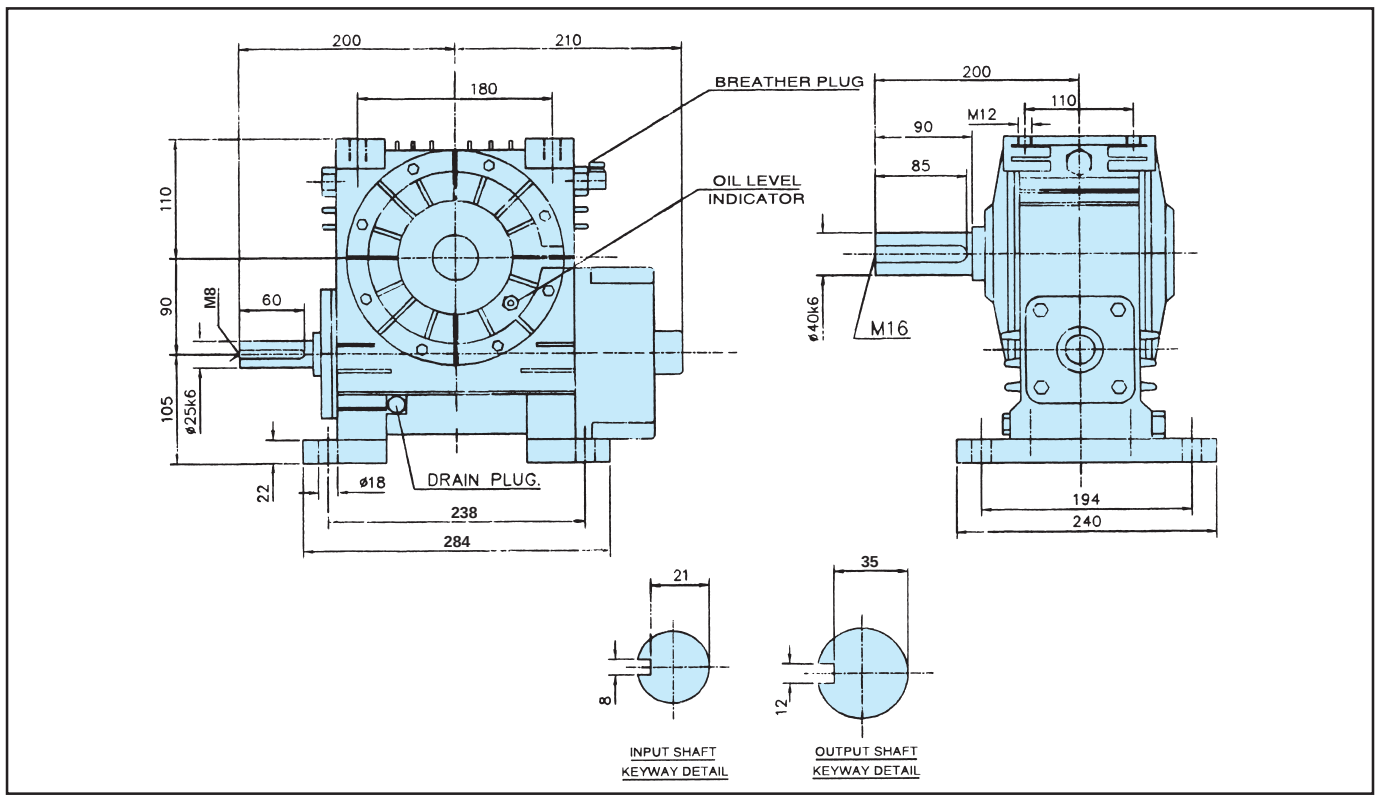
Key & Keyways as per IS 2048. Shaft limits up to 58dia.-k6 and above 58 dia.-m6

2 TO 3 MSNU-U, O, V



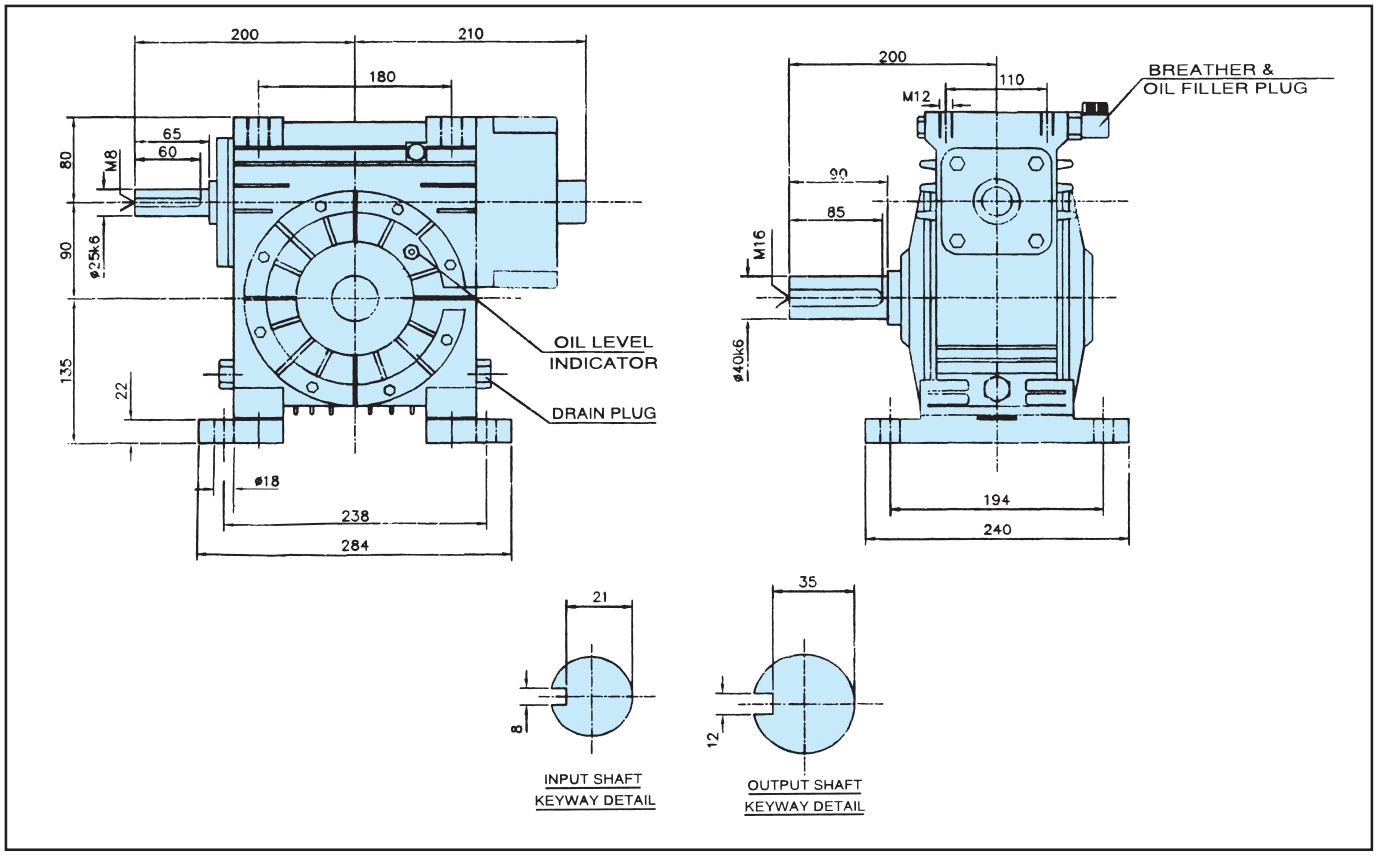
SIZE	A	B	A1	B1	C	A2	B2	C1	F S	HU	EU	HO	EO	HV	K	K1	K2	K3	D1	L1	M1	T1	W1	D2	L2	M2	T2	W2	V1	V2
2	95	142	100	125	14	120	150	14	11	70	120.8	133.8	83	94	50.8	133	128	140	16	47	-	13	5	25	57	-	21	8	45	55
2 1/4	105	152	105	132	14	120	150	14	11	70	127.15	142.15	85	100	57.15	142	136	150	22	50	-	18.5	6	25	60	-	21	8	45	55
3	140	180	160	192	20	200	240	16	14	102	178.20	181.20	105	125	76.20	155	175	165	25	50	MB	21	8	38	75	M16	33	10	45	70

3.54 MSNU-U

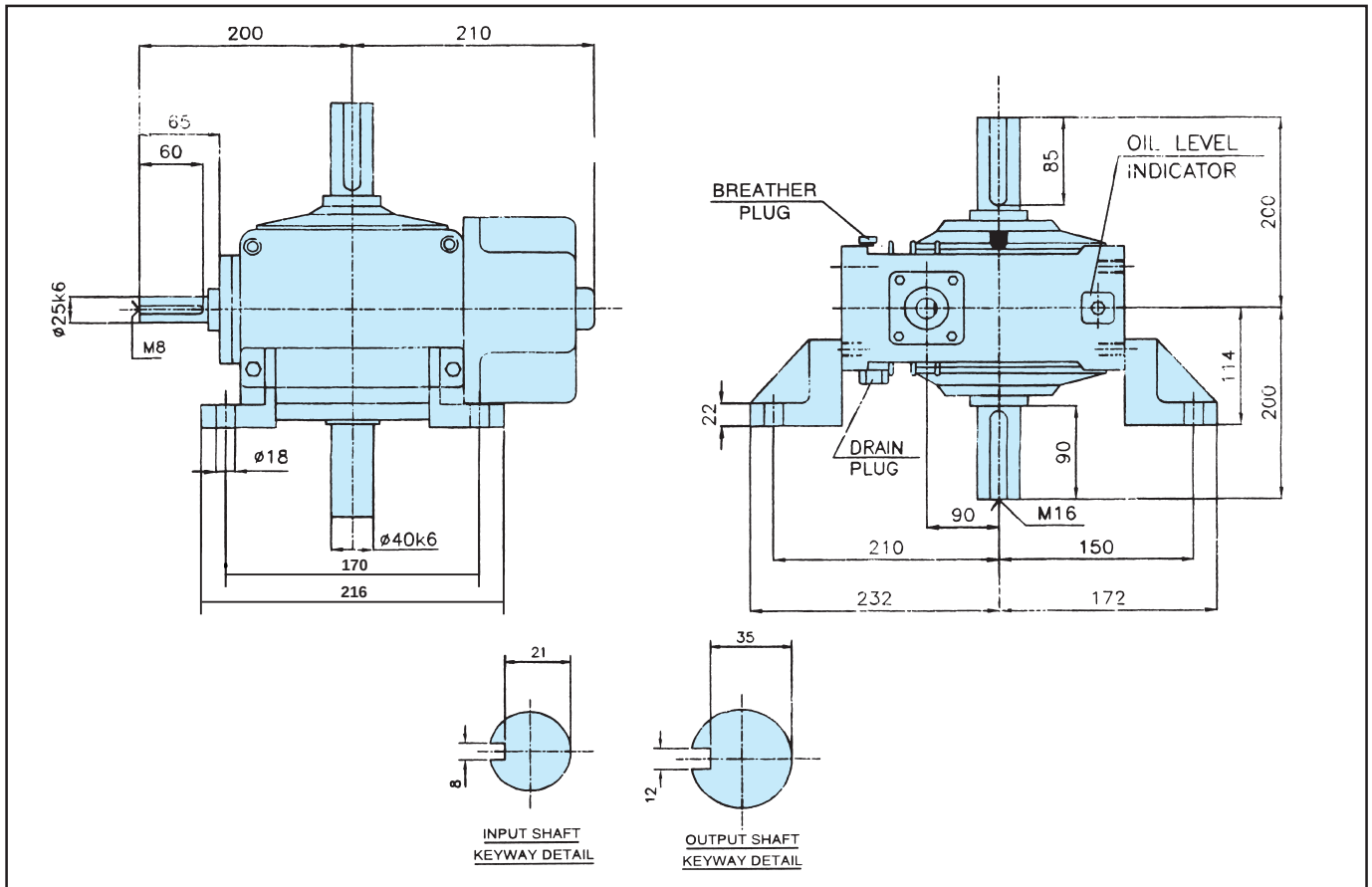


Key & Keyways as per IS 2048. Shaft limits up to 58dia.-k6 and above 58 dia.-m6

3.54 MSNU-O

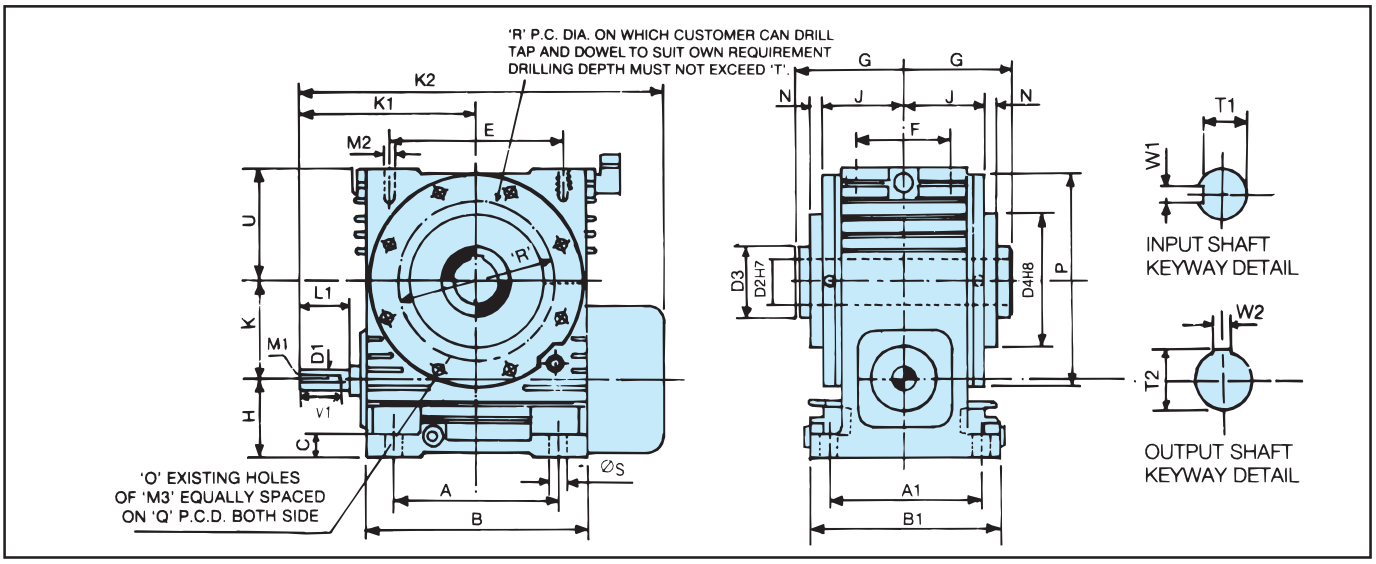


3.54 MSNU-V



Key & Keyways as per IS 2048. Shaft limits up to 58dia.-k6 and above 58 dia.-m6

MSNU-SM SHAFT MOUNTED WORM GEAR UNIT



SIZE	K	H	U	K1	K2	G	J	N	D1	L1	V1	M1	T1	W1	D2	T2	W2	D3	D4	P	A	A1	B	B1	C	S	E	F	M2	O	Q	M3	R	T
$2^{1}/_{4}$	57.15	70	85	142	295	75	58	4	22	50	45	-	18.5	8	30	33.3	8	50	105	135	105	105	152	132	14	11	105	105	⌖11	8	124	M8	-	-
3	76.2	102	105	155	330	100	80	5	25	50	45	M8	21	8	50	53.8	14	80	138	177	140	160	180	192	20	14	140	160	⌖14	8	158	M8	-	-
3.54	90	105	110	200	384	92	90	-	25	65	60	M8	21	8	45	49	14	80	—	200	238	194	284	240	22	18	180	110	M12	8	180	M8	-	

Key & Keyways as per IS 2048. Shaft limits up to 58dia.-k6 and above 58 dia.-m6

RATINGS AT INPUT SPEED 1500 R.P.M.

GEAR RATIO	OUTPUT SPEED R.P.M.	CAPACITY	SIZE OF UNIT					
			$1\frac{5}{8}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	3	3.54
5	300	INPUT POWER KW	1.46	2	2.9	3.8	8	12.5
		OUTPUT TORQUE Nm	44.2	56.6	83.1	112.52	31.8	362.1
7.5	200	INPUT POWER KW	1.3	1.45	2.2	3	6.86	8
		OUTPUT TORQUE Nm	54.6	61	92.4	127	294.8	343.8
10	150	INPUT POWER KW	1.2	1.3	1. 75	2.8	5.75	7
		OUTPUT TORQUE	69.5	74.5	97	146	325.8	392.2
15	100	INPUT POWER KW	1.14	1.2	1.6	1.9	4.13	6
		OUTPUT TORQUE Nm	90.36	96.3	122.2	154.2	347.1	492.8
20	75	INPUT POWER KW	0.8	0.83	1.5	1.62	3.78	4.6
		OUTPUT TORQUE Nm	86.6	88.8	149	161	404.3	503.7
25	60	INPUT POWER KW	0.7	0.72	1.3	1.44	3.15	4
		OUTPUT TORQUE Nm	79.1	90	155.1	176.5	411.1	547.5
30	50	INPUT POWER KW	0.6	0.63	1.15	1.3	2.75	3.6
		OUTPUT TORQUE Nm	85.6	91.5	160.3	186.2	430.7	550
40	37.5	INPUT POWER KW	0.45	0.5	0.8	0.97	2.27	2.8
		OUTPUT TORQUE Nm	88	94.3	146.7	177.9	439.4	549.1
50	30	INPUT POWER KW	0.34	0.36	0.65	0.72	1.82	2.1
		OUTPUT TORQUE Nm	70.4	78	145	160.4	423	508
60	25	INPUT POWER KW	0.3	0.31	0.45	0.55	1.6	1.8
		OUTPUT TORQUE Nm	58.5	75.8	110	140.7	434	515.7
70	21.4	INPUT POWER KW	0.26	0.27	0.4	0.43	1.3	1.13
		OUTPUT TORQUE Nm	58.1	74	107	124.7	406.1	462.3

The Ratings are based on service factor of 1, continuously transmitted for 12 hours/day with normal overload of 100% momentarily for 15 seconds, 40% for 30 minutes, 25% for 2 hours.
For Ratings at other Input speed please consult MOVICON.

ACTUAL GEAR RATIO

SIZE OF UNIT	NOMINAL RATIO										
	5	7.5	10	15	20	25	30	40	50	60	70
1 5/8	5.25	7.33	10.5	14.5	20	25	30	40	50	60	70
1 3/4	5.20	7.33	9.66	14.5	21	26	29	40	50	60	70
2	5	7.5	9.5	15	19	25	30	40	50	61	70
2 1/4	4.8	7	10.5	14.5	21	24	29	39	50	60	70
3	4.83	7.25	9.67	14.5	20	25	30	40	50	60	70
3.54	4.83	7.25	9.66	14.5	20	25	30	40	50	59	70

RECOMMENDED LUBRICANTS

Brands	Grade
Castrol	Alpha Zn 320 or Alpha Sp-320 or Tribol 1100/320 TGQA

AVERAGE WEIGHT IN KILOGRAMS

Gear Size	1 5/8		1 3/4		2		2 1/4		3		3.54	
GEAR TYPE	NET	GR.	NET	GR.	NET	GR.	NET	GR.	NET	GR.	NET	GR.
MSNU-U	7	8.5	8	10.5	12	23	14	25	32	60	40	65
MSNU-O	7	8.5	8	10.5	12	23	14	25	32	60	40	65
MSNU-V	7.3	9	8.5	11.5	14	24	15	25	37	67	43	68
MSNU-SM	-	-	-	-	15	28	16	28	35	65	41	66

RECOMMENDED GREASE : FOR LOW SPEED OF OPERATION

BRAND	GRADE
Castrol	EPL 2

PRODUCT SAFETY INFORMATION

General

MOVICON Gear Units will operate safety provided that they are selected, installed, used and maintained property. As with any equipment consists of rotating shafts and transmitting power, adequate guarding is necessary to eliminate the possibility of physical contact with rotating shafts or coupling.

Potential Hazards

The following points should be noted and brought to attention to the persons involved in the installation, use and maintenance of equipment.

1. For lifting of gear unit eye-bolts or lifting points (on larger units) should be used.
2. Check the grade and quantity of lubrication before commissioning. Read and carry out all instructions on lubricant plate and in the installation and maintenance manual literature.
3. Installation must be performed in accordance with the manufacturer's instruction and be undertaken by suitably qualified personnel.
4. Ensure the proper maintenance of gearboxes in operation. USE ONLY MOVICON SPARES FOR GEARBOXES.
5. The oil level should be examined periodically, if required the oil should be filled again.
6. The operating speeds, transmitting powers, generated torques or the external loads must not exceed the design values.
7. The driving and the driven equipment must be correctly selected to ensure that the complete installation of the machinery will perform satisfactorily e.g. avoiding system critical speeds, system torsional vibration etc.



For additional information or further details please get in touch with us:

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movicon-solutions.com

Details and dimensions are subject to change without prior notice.