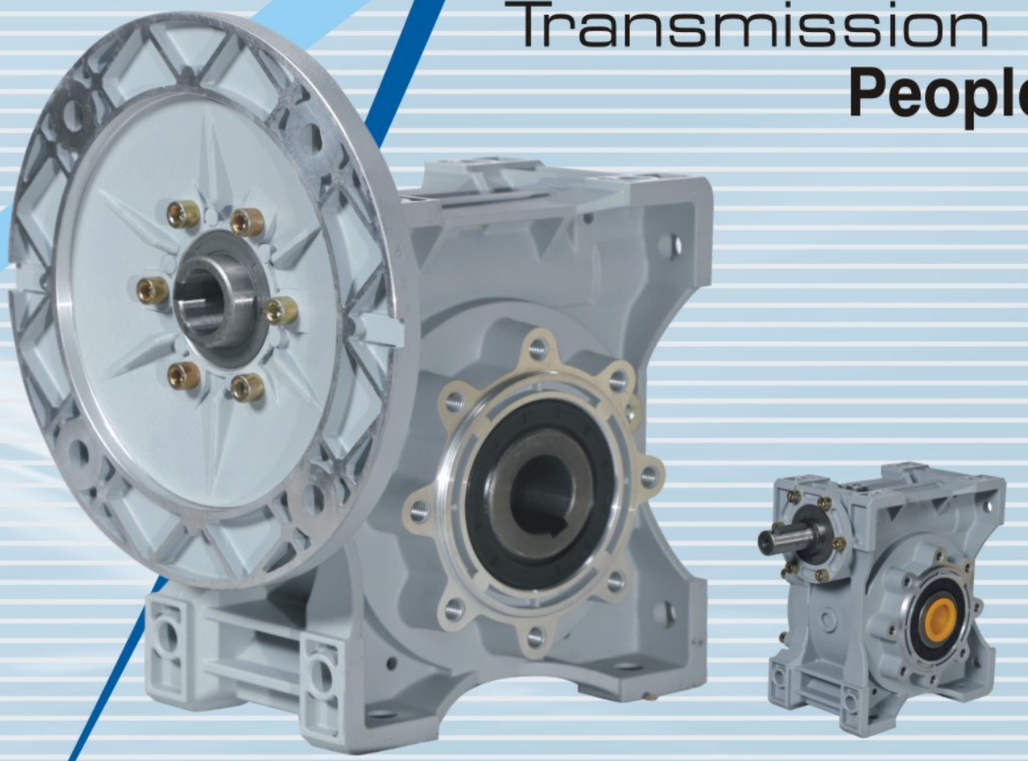
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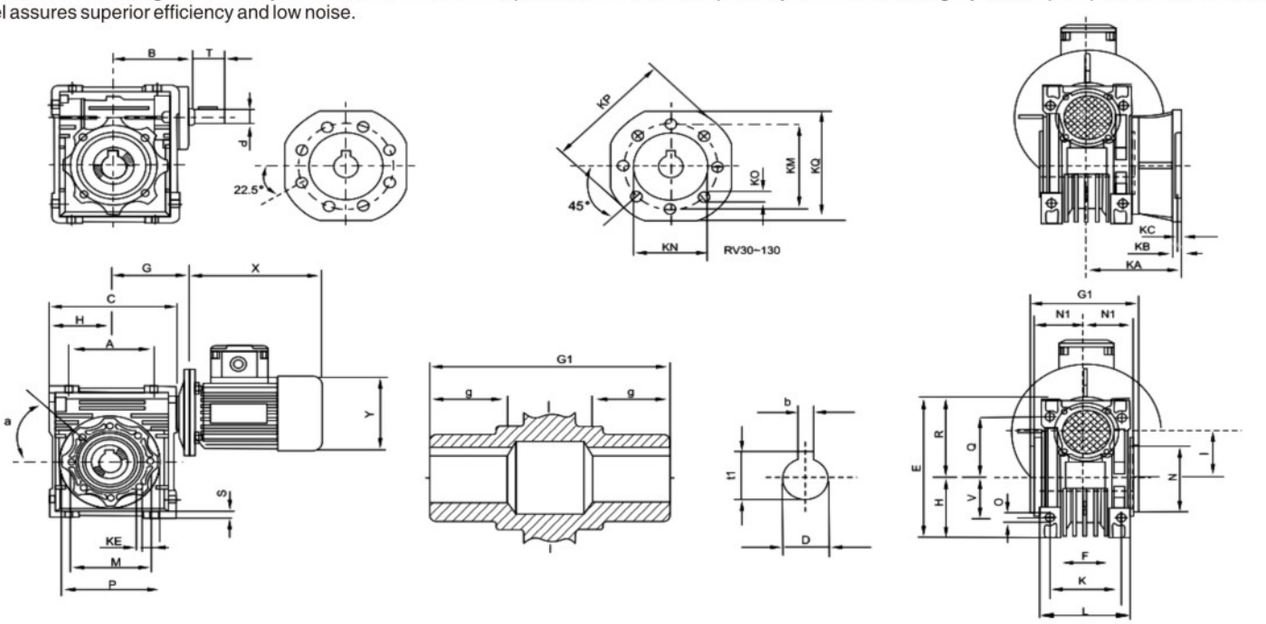
Roboox gear are specialized in production of various reduction gears with the edge of research and development in transmission technology. The on going process of research and development has made it possible to introduce advance technology and continous developments to meet market requirements.

Roboox gear aluminum alloy housing Gearbox are totally dust proof and oil tight with attractive esthetical look due to silver gray shed protects housing from oxidation. The greater, longer cooling fins in all 6 faces having maximum surface area exposes to atmosphere for improved efficiency and more capability of heat dissipation which is ideal for hot ambient temperature conditions.

Due to robust & compact construction, easy interchangeability of input flange with standard fasteners matching surface are perpendicular machined suitable to serve in all operating conditions of almost every industries by means of right selection

The permissible overhung and shock loads achieved by perfect alignment of accurately bored bearinghousing for ball and taper roller bearing for worm and worm shaft.

Case carburized, grounded alloy steel worm shaft ensure a positive oil film and the perfectly hoobbed centrifugally casted phosphorous bronze worm wheel assures superior efficiency and low noise.



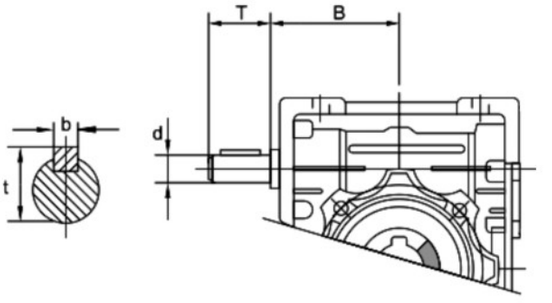
SIZE	A	C	D(H7)	E	F	G	H	I	L	M	N(h8)	O	P	Q	R	S	T	V	K
30	54	80	14	97	32	<54	40	30	56	65	54	6.5	75	44	57	5.5	20	27	44
40	70	101	18	121.5	43	62	50	40	71	75	60	6.5	87	55	71.5	6.5	23	35	60
50	80	121.5	25	144	49	90	60	50	85	85	70	8.5	100	64	85	7	30	40	70
63	100	147.5	25	174	67	106	72	63	103	95	80	8.5	110	80	102	8	40	50	85
75	120	174	28	205	72	121	86	75	113	115	95	11	140	93	119	10	50	60	90
90	140	208	35	238	72	138	103	90	130	130	110	13	160	102	135	11	50	70	100
110	170	252.5	42	295	--	159	127.5	110	142	165	130	14	200	125	166.5	15	60	85	115
130	200	292.5	45	335	--	179	147.5	130	155	215	180	16	250	140	187.5	15	80	100	120
150	240	340	50	400	--	212	170	150	185	215	180	18	250	180	230	18	80	120	145
185	310	412	60	472	--	247	207	185	220	265	230	22	300	213	265	25	80	155	175

				KA														
Size	G1	9	N1	F	FL	KB	KC	KE	a	KM	KN(H8)	KO	KP	KQ	d(j6)	b	t1	X	Y
30	63	20	29	54.5	--	6	4	M6X11(n4)	0°	63	50	6.5(4/90°)	80	70	9	5	16.3		
40	78	23	36.5	67	97	7	4	M6X8(n4)	45°	87	60	9(4/90°)	110	95	11	6	20.8		
50	92	30	43.5	90	120	9	5	M8X10(n4)	45°	90	70	11(4/90°)	125	110	14	8	28.3		
63	112	40	53	82	112	10	6	M8x14(n8)	45°	150	115	11(4/90°)	180	142	19	8	28.3		
75	120	40	57	111	--	13	6	M8x14(n8)	45°	165	130	14(4/90°)	200	170	24	8	31.3		
90	140	45	67	111	--	13	6	M10x18(n8)	45°	175	152	14(4/90°)	210	200	24	10	38.3		
110	155	50	74	139	--	15	6	M10x18(n8)	45°	220	170	14(8/90°)	270	250	28	12	45.3		
130	170	60	81	151.5	--	15	6	M12x20(n8)	45°	255	180	16(8/45°)	320	290	30	14	48.8		
150	200	70	96	155	--	15	7	M12x21(n8)	45°	255	180	16(8/45°)	320	290	35	14	53.8		
185	240	70	116	190	--	22	7	M16x25(n8)	45°	350	280	22(8/45°)	400	390	40	18	64.4		

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Dimensions of extension warm shafts (Speed is as same as electric motor)

Size	B	d(h6)	T	b	t
30	45	9	20	3	10.2
40	53	11	23	4	12.5
50	64	14	30	5	16
63	75	19	40	6	21.5
75	90	24	50	8	27
90	108	24	50	8	27
110	135	28	60	8	31
130	155	30	80	8	33
150	210	35	80	10	38
185	240	40	80	12	43

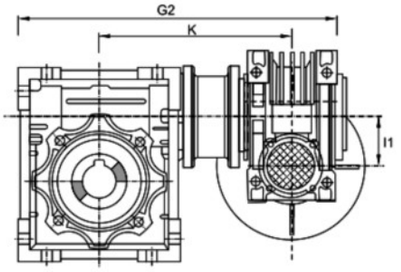




Data Table (sf=1) at 1400 input RPM

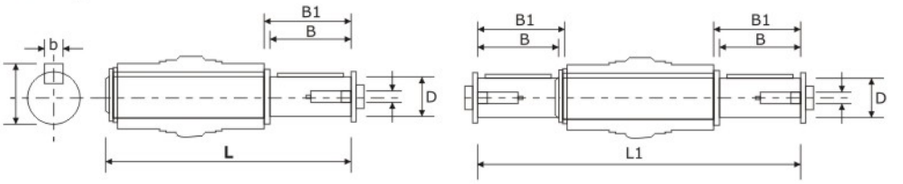
Ratio	O/P RPM	Rating	Size									
			30	40	50	53	75	90	110	130	150	185
7.5	187	KW1	0.41	0.90	1.58	2.84	4.06	6.3	10.4	16.1	25.8	39.1
		M2 (Nm)	18	40	71	128	185	290	480	750	1200	1740
10	140	KW1	0.32	0.69	1.23	2.19	3.25	5.11	8.57	13.5	20.2	30
		M2 (Nm)	18	40	72	130	195	310	520	820	1240	1800
15	93	KW1	0.23	0.48	0.88	1.65	2.30	4.09	6.48	10.3	13.9	21
		M2 (Nm)	18	40	74	140	200	360	570	920	1250	1760
20	70	KW1	0.18	0.37	0.68	1.22	1.88	3.10	4.83	7.76	11	19.6
		M2 (Nm)	18	39	73	135	210	355	560	910	1300	2270
25	56	KW1	0.18	0.30	0.54	0.98	1.47	2.43	4.12	6.49	8.4	13.8
		M2 (Nm)	21	38	70	130	200	340	590	930	1200	1950
30	47	KW1	0.15	0.31	0.57	1.06	1.48	2.57	3.90	6.35	7	14
		M2 (Nm)	20	45	84	160	230	410	630	1040	1200	2200
40	35	KW1	0.11	0.23	0.42	0.76	1.12	1.76	2.87	4.93	7.3	12.1
		M2 (Nm)	18	41	76	145	220	360	610	1050	1550	2570
50	28	KW1	0.09	0.18	0.34	0.60	0.89	1.38	2.35	3.83	5.4	9.3
		M2 (Nm)	17	39	73	135	210	340	600	980	1400	2370
60	23	KW1	0.08	0.15	0.28	0.51	0.75	1.13	1.9	3.05	4.2	7.6
		M2 (Nm)	16	36	68	130	200	320	560	900	1260	2270
80	18	KW1	0.05	0.12	0.22	0.39	0.58	0.83	1.34	2.26	3.1	5.6
		M2 (Nm)	13	33	65	122	190	285	490	840	1150	2100
100	14	KW1	--	0.09	0.16	0.34	0.48	0.67	1.07	1.70	2.29	4.1
		M2 (Nm)	--	29	55	118	180	270	460	740	1000	1810
NET WEIGHT (Kg.)			1.4	2.2	3.8	7.0	10	15	43	55	10	170
Mounting Position			**Oil Qty. (Ltrs)**				**ISO VG 320, SHELL SC 320 or Equipment**					
B3 / V5 / V6									**3.00**	**4.50**	**5.50**	**8.00**
B6 / B7			**0.04**	**0.06**	**0.15**	**0.30**	**0.55**	**1.00**	**2.20**	**3.50**	**5.00**	**7.00**
B8									**2.20**	**3.30**	**4.50**	**6.50**

Kw1 = Input Power Capacity M2 = Output Torque Rating



Dimensions of Double Worm

BOX + BOX	K	I1	G2
BOX 030 + 040	122	30	201
BOX 030 + 050	132	30	221
BOX 030 + 063	145	30	246
BOX 040 + 075	167.5	40	290
BOX 040 + 090	184.5	40	324
BOX 050 + 110	226	50	397



Dimensions of single/double output shaft

Size	D(h6)	B	B1	L	L1	f	b	t
30	14	30	32.5	102	128	M6	5	16
40	18	40	43	128	164	M6	6	20.5
50	25	50	53.5	153	199	M10	8	28
63	25	50	53.5	173	219	M10	8	28
75	28	60	63.5	192	247	M10	8	28
90	35	80	84	234	308	M12	10	38
110	42	80	84.5	249	324	M16	12	45
130	45	80	85	265	340	M16	14	48.5
150	50	102	110	324	420	M20	14	53.5
185	60	110	120	374	480	M20	19	64











Design 9879459005

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