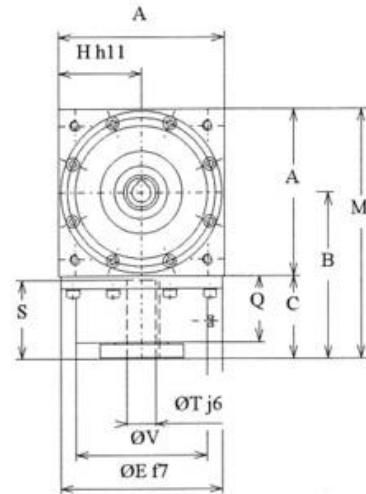
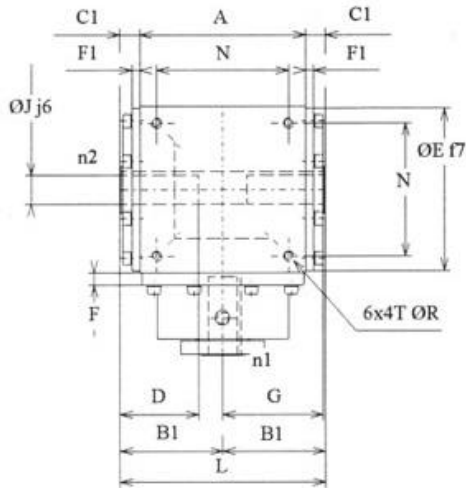
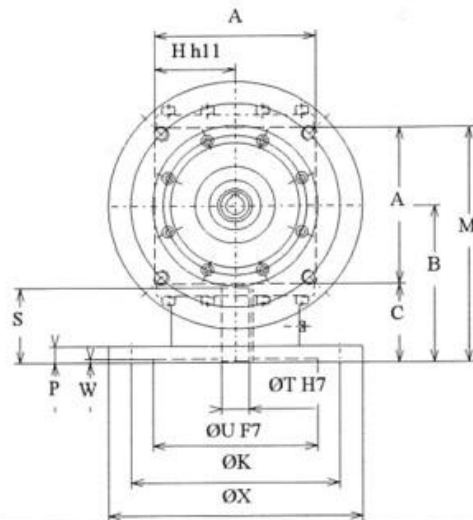
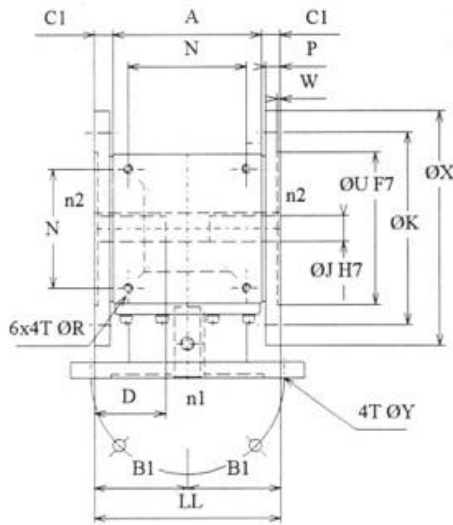


## HOLLOW KEYWAYED SHAFTS



## HOLLOW KEYWAYED SHAFTS + FLANGES

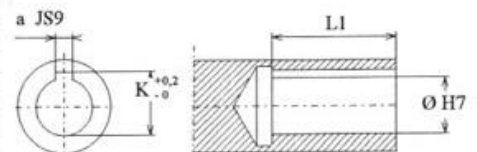


ALL RATIOS

Size	A	B1	C1	E	F1	G	H	N	R*	B	C	F	Q	V	D	J	L	X	K	U	W	Y	Y1	P
08	80	50	10	78	4	49	40	65	M5	80	40	8	36	62	35	14	100	140	115	95	3	7	M6	9
10	100	62	12	98	5	61	50	80	M6	100	50	10	38	79	45	19	124	160	130	110	3.5	9	M8	9
12	125	77.5	15	122	6	75.5	62.5	100	M8	125	62.5	10	50	98	58	24	155	200	165	130	3.5	11	M10	12
16	160	100	20	155	9	98	80	125	M10	160	80	12	64	123	70	32	200	250	215	180	4	14	M12	16
20	200	120	20	195	10	118	100	160	M12	200	100	15	81	149	90	42	240	350	300	250	6	18	M16	20
25	250	148	23	245	13	146	125	200	M16	250	125	13	102	190	110	55	296	400	350	300	6	18	M16	23
31	315	181	23.5	310	15	178.5	157.5	250	M16	315	157.5	15	132.5	220	140	75	362	450	400	350	6	18	M16	25

U:1-1.25-1.5-2				U:3-4-5-6		
Size	S	T	M	S	T	M
08	38	14	120	30	14	120
10	48	19	150	39	14	150
12	50	24	187.5	48	19	187.5
16	80	32	240	64	28	240
20	111	42	300	82	38	300
25	120	55	375	111	42	375
31	140	75	472.5	140	60	472.5

Ø	Shaft key as per NFE 22 175			
	a	K	L1	L1
14	5	16.3	30	25
19	6	21.8	40	30
24	8	27.3	50	40
28	8	31.3	60	40
32	10	35.3	70	40
38	10	41.3	72	40
42	12	45.3	100	100
55	16	59.3	110	100
60	18	64.4	140	140
75	20	79.9	140	140





# BEVEL UNITS

Nominal powers

Ratio  $U=n1/n2=1-1,25-1,5-2-3-4-5-6$

GREASE

OIL SPLASH

FORCE FEED

U	Speed rpm		SIZE																												
			08				10				12				16				20				25				31				
	n1	n2	Pn1 Kw	Cn1 Nm	Cn2 Nm	CCn2 Nm	Pn1 Kw	Cn1 Nm	Cn2 Nm	CCn2 Nm	Pn1 Kw	Cn1 Nm	Cn2 Nm	CCn2 Nm	Pn1 Kw	Cn1 Nm	Cn2 Nm	CCn2 Nm	Pn1 Kw	Cn1 Nm	Cn2 Nm	CCn2 Nm	Pn1 Kw	Cn1 Nm	Cn2 Nm	CCn2 Nm	Pn1 Kw	Cn1 Nm	Cn2 Nm	CCn2 Nm	
1	50	50	0.18	34	34	28	0.72	80	80	66	0.84	160	160	130	1.57	300	300	270	3.4	650	650	550	8.38	1600	1600	950	15.7	3000	3000	1500	
	125	125	0.42	32	32	28	0.98	75	75	66	1.96	150	150	130	3.73	285	285	270	7.98	610	610	550	18	1400	1400	950	36.6	2800	2800	1500	
	500	500	1.41	27	27	27	3.93	75	75	66	6.8	130	130	130	15	285	285	270	28.8	550	550	550	54	1030	1030	950	107	2060	2060	1500	
	1000	1000	2.3	22	22	22	6.81	65	65	65	11.2	107	107	107	24.8	237	237	237	47	450	450	450	93	890	890	890	186	1780	1780	1500	
	1500	1500	3.14	20	20	20	8.95	57	57	57	15	95	95	95	32.6	208	208	208	63	400	400	400	125	800	800	800	251	1600	1600	1500	
	2000	2000	3.56	17	17	17	10.7	51	51	51	17.8	85	85	85	40	190	190	190	76	365	365	365	151	720	720	720	301	1440	1440	1440	
3000	3000	4.71	15	15	15	14.1	45	45	45	23.9	76	76	76	53.4	170	170	170	102	325	325	325	201	640	640	640	/	/	/	/		
1.25	50	40	0.10	19	23.7	23.7	0.22	42	52.5	52.5	0.49	94	117	117	1.20	230	287	250	2.51	480	600	500	4.97	950	1187	1000	11.5	2200	2750	1600	
	125	100	0.25	19	23.7	23.7	0.52	40	50	50	1.11	85	106	106	2.88	220	275	250	6.02	460	575	500	11.8	900	1125	1000	26.1	2000	2500	1600	
	500	400	0.84	16	20	20	2.04	39	48.7	48.7	4.45	85	106	106	10.5	200	250	250	18.3	350	437	437	40.8	780	975	975	86	1650	2062	1600	
	1000	800	1.47	14	17.5	17.5	3.98	38	47.5	47.5	8.38	80	100	100	18.9	180	225	225	33	315	394	394	71.2	680	850	850	157	1500	1875	1600	
	1500	1200	2.04	13	16.2	16.2	5.50	35	43.7	43.7	11.3	72	90	90	25.1	160	200	200	46	293	366	366	94	600	750	750	204	1300	1625	1600	
	2000	1600	2.51	12	15	15	6.28	30	37.5	37.5	12.6	60	75	75	31.4	150	187	187	52.3	250	312	312	111	530	662	662	251	1200	1500	1500	
3000	2400	3.46	11	13.7	13.7	7.85	25	31	31	15.7	50	62	62	40.8	130	162	162	66	210	262	262	209	490	612	612	/	/	/	/		
1.5	50	33.3	0.15	28	42	42	0.37	70	105	105	0.73	140	210	210	1.57	300	450	450	2.88	550	825	810	6.28	1200	1800	1500	12.5	2400	3600	2500	
	125	83.3	0.31	24	36	36	0.85	65	97	97	1.70	130	195	195	3.66	280	420	420	6.74	515	772	772	14.4	1100	1650	1500	28.8	2200	3300	2500	
	500	333.3	1	19	28.5	28.5	3.40	65	97	97	5.76	110	165	165	12.3	235	352	352	25.7	490	735	735	47	900	1350	1350	94	1800	2700	2500	
	1000	666.6	1.78	17	25.5	25.5	5.76	55	82	82	10.1	97	145	145	20.4	195	292	292	42	400	600	600	79.6	760	1140	1140	167	1600	2400	2400	
	1500	1000	2.36	15	22.5	22.5	7.70	49	73	73	13.5	86	129	129	27.5	175	262	262	56.5	360	540	540	107	680	1020	1020	213	1360	2060	2060	
	2000	1333.3	2.72	13	19.5	19.5	9.21	44	66	66	16.5	79	118	118	33.5	160	240	240	68	325	487	487	130	620	930	930	261	1250	1875	1875	
3000	2000	3.77	12	18	18	12.2	39	58	58	22	70	105	105	44	140	210	210	92	295	442	442	173	550	825	825	/	/	/	/		
2	50	25	0.1	19	38	38	0.24	45	90	90	0.5	95	190	190	0.99	190	380	380	2.15	410	820	700	4.35	830	1660	1500	8.37	1600	3200	2500	
	125	62.5	0.24	18	36	36	0.55	42	84	84	1.11	85	170	170	2.42	185	370	370	5.1	390	780	700	10.2	780	1560	1500	19.6	1500	3000	2500	
	500	250	0.89	17	34	34	2.2	42	84	84	4.19	80	160	160	8.9	170	340	340	18.3	350	700	700	34	650	1300	1300	68	1300	2600	2500	
	1000	500	1.47	14	28	28	4.4	42	84	84	7.85	73	146	146	15.7	150	300	300	31	295	590	590	58	560	1120	1120	125	1200	2400	2400	
	1500	750	1.88	12	24	24	6.28	40	80	80	11	65	130	130	21	135	270	270	40.8	260	520	520	78	500	1000	1000	157	1000	2000	2000	
	2000	1000	2.3	11	22	22	7.96	38	76	76	13.6	60	120	120	26.2	125	250	250	50	240	480	480	92	440	880	880	188	900	1800	1800	
3000	1500	3.14	10	20	20	11.3	36	72	72	18.2	52	104	104	36	115	230	230	66	210	420	420	119	380	760	760	/	/	/	/		
3	50	16.6	0.06	11	33	33	0.13	24	72	72	0.30	57	171	171	0.50	95	285	285	1.13	215	645	645	2.09	400	1200	1200	3.9	750	2250	2250	
	125	41.6	0.14	11	33	33	0.30	23	69	69	0.69	53	159	159	1.20	92	276	276	2.62	200	600	600	5	382	1146	1146	9.5	730	2190	2190	
	500	166.6	0.52	10	30	30	0.99	19	57	57	2.20	42	126	126	3.82	73	219	219	8.90	170	510	510	15.7	300	900	900	31.4	600	1800	1800	
	1000	333.3	0.94	9	27	27	1.68	16	48	48	4.19	40	120	120	7.33	70	210	210	16.8	160	480	480	27.2	260	780	780	55.5	530	1590	1590	
	1500	500	1.26	8	24	24	2.51	16	48	48	5.18	33	99	99	10.2	65	195	195	23.6	150	450	450	37.7	240	720	720	75	480	1440	1440	
	2000	666.6	1.47	7	21	21	2.93	14	42	42	6.49	31	93	93	12.1	58	174	174	28.3	135	405	405	47.8	228	684	684	94	450	1350	1350	
3000	1000	1.88	6	18	18	4.08	13	39	39	9.42	30	90	90	15.7	50	150	150	39.3	125	375	375	67.3	214	642	642	/	/	/	/		
4	50	12.5	0.03	5.3	21.2	21.2	0.07	13.5	54	54	0.16	31	124	124	0.30	57	228	228	0.70	133	532	532	1.20	230	920	920	2.4	460	1840	1840	
	125	31.25	0.07	5.2	20.8	20.8	0.16	12.5	50	50	0.39	30	120	120	0.71	54	216	216	1.51	115	460	460	3.01	230	920	920	5.75	440	1760	1760	
	500	125	0.23	4.3	17.2	17.2	0.60	11.5	46	46	1.31	25	100	100	2.51	48	192	192	5.24	100	400	400	9.95	190	760	760	19.9	380	1520	1520	
	1000	250	0.40	3.8	15.2	15.2	1.15	11	44	44	2.20	21	84	84	4.61	44	176	176	9.84	94	376	376	16.7	160	640	640	35.6	340	1360	1360	
	1500	375	0.60	3.8	15.2	15.2	1.57	10	40	40	3.14	20	80	80	6.28	40	160	160	16.0	141	90	360	360	22.8	145	580	580	47	300	1200	1200
	2000	500	0.97	3.4	13.6	13.6	1.88	9	36	36	3.98	19	76	76	7.12	34	136	136	16.7	80	320	320	28.9	138	552	552	57.6	275	1100	1100	
3000	750	1.04	3.3	13.2	13.2	2.51	8	32	32	5.65	18	72	72	10	32	128	128	23.5	75	300	300	40.8	130	520	520	/	/	/	/		
5	50	10	0.0168	3.2	16	16	0.05	9	45	45	0.104	20	100	100	0.183	35	175	175	0.42	80	400	400	0.80	153	765	765	1.41	270	1350	1350	
	125	25	0.042	3.2	16	16	0.11	8.7	43.5	43.5	0.248	19	95	95	0.458	35	175	175	1.02	78	390	390	2.00	153	765	765	3.53	270	1350	1350	
	500	100	0.136	2.6	13	13	0.36	7	35	35	0.837	16	80	80	1.52	29	145	145	3.45	66	330	330	6.02	115	575	575	12	230	1150	1150	
	1000	200	0.230	2.2	11	11	0.68	6.5	32.5	32.5	1.57	15	75	75	2.51	24	120	120	6.70	64	320	320	11	105	525	525	21	200	1000	1000	
	1500	300	0.330	2.1	10.5	10.5	0.94	6	30	30	2.2	14	70	70	3.61	23	115	115	9.42	60	300	300	15.7	100	500	500	28.3	180			