SAMT®

Specialised Air Motors and Transmission

New South Wales

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- MODULAR
- QUALITY
- COMPACT DESIGN
- QUIET OPERATION

WormGear Reducers

Service Factor

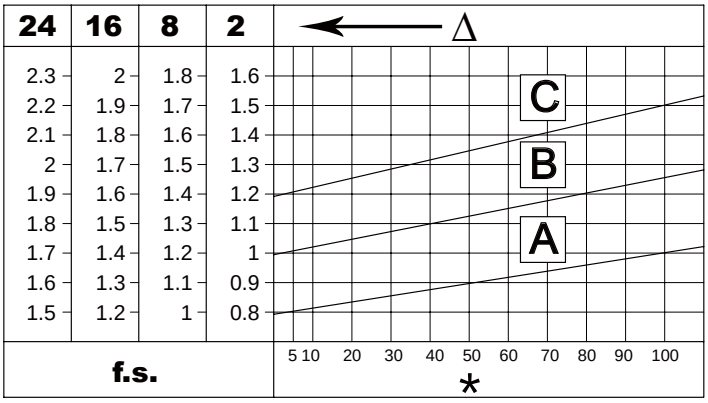
The service factors (f.s.) of the gearbox mainly depends on its operating conditions.
While the determining conditions are as following:

- Loading type of the gearbox: A - B - C
- Operating hours per day: hours/day(Δ)
- Switching on frequency: times/hour (Δ)

Three loading type:

A-fair load, fa≤0.3
B-moderate load, fa≤3
C-heavy load,fa≤10
fa=Jex/Jm

Jex(kgm^2) moment of the external inertia reduced at the drive shaft
Jm(kgm^2) moment of inertia of motor
Note: please contact Rototech when fa>10



Installation

1. The reducer should be securely mounted to avoid any vibration.
2. Before mounting, make sure the output shaft of the reducer will turn to the correct direction required.
3. In cases of prolonged storage (greater than 4 months), check the seal first, as it may stick to the shaft - caused by lack of lubricant (loss of flexability). If necessary, change the seal.
4. For reduction units with hollow output shafts, please use the torque arms. If it is not possible ensure the shaft is without axial load.
5. Whenever possible, protect the reducer form direct sunlight and any other bad weather.
6. Ensure ventilating conditions are adequate.
7. In the case of ambient temperatures <-5°C or >+40°C, contact Rototech.
8. Paint must not encroach onto rubber components or holes on breather plugs.
9. Check the oil level.
10. For supply of gear units only - Ensure the motor to be fitted has correct shaft and flange
11. Ensure the tolerance between shafts and motor flanges comply to the appropriate standard.
12. Clean any dirt and paint on the surface of the shafts, centre bores and flanges.
13. Lubricate the surface to avoid corrosion. Lubricate mating surfaces
14. Starting must take place gradually, without immediately applying the maximum load.

Mesh Data

Worm thread,worm wheel tooth and efficiency

NRV	i	5	7.5	10	15	20	25	30	40	50	60	80	100
025	Z1	4	4	3	2	2		1	1	1	1		
	ɣ	30° 57′	25° 18′	19° 31′	13° 18′	10° 53′		6° 44′	5° 29′	4° 34′	3° 56′		
	mx	1.8	1.3	1.3	1.3	1		1.3	1	0.8	0.67		
	ηd	0.86	0.84	0.82	0.78	0.74		0.66	0.61	0.57	0.54		
	ηs	0.71	0.70	0.67	0.60	0.55		0.46	0.41	0.36	0.34		
030	Z1	4	4	3	2	2	1	1	1	1	1	1	
	ɣ	21° 48′	18° 50′	14° 21′	9° 40′	7° 44′	5° 34′	4° 52′	3° 53′	3° 11′	2° 46′	2° 07′	
	mx	2	1.44	1.44	1.44	1.1	1.7	1.44	1.1	0.88	0.75	0.56	
	ηd	0.86	0.84	0.81	0.76	0.72	0.67	0.64	0.58	0.54	0.50	0.44	
	ηs	0.71	0.66	0.62	0.54	0.50	0.43	0.39	0.35	0.31	0.27	0.23	
040	Z1	4	4	4	2	2	2	1	1	1	1	1	1
	ɣ	27° 24′	21° 48′	17° 31′	11° 18′	8° 58′	7° 41′	5° 42′	4° 30′	3° 51′	3° 17′	2° 32′	2° 05′
	mx	2.8	2	1.5	2	1.5	1.25	2	1.5	1.25	1.04	0.78	0.63
	ηd	0.88	0.86	0.85	0.81	0.77	0.74	0.69	0.64	0.61	0.57	0.51	0.47
	ηs	0.72	0.69	0.65	0.58	0.53	0.5	0.44	0.4	0.36	0.32	0.28	0.24
050	Z1	4	4	4	2	2	2	1	1	1	1	1	1
	ɣ	23° 49′	21° 48′	17° 42′	11° 18′	9° 04′	7° 36′	5° 42′	4° 33′	3° 49′	3° 17′	2° 33′	2° 04′
	mx	3.4	2.5	1.9	2.5	1.9	1.54	2.5	1.9	1.54	1.3	0.98	0.78
	ηd	0.87	0.86	0.84	0.8	0.77	0.74	0.7	0.65	0.61	0.57	51	0.49
	ηs	0.73	0.69	0.65	0.58	0.54	0.5	0.44	0.39	0.35	0.32	0.27	0.23
063	Z1		4	4	2	2	2	1	1	1	1	1	1
	ɣ		24° 31′	20° 19′	12° 50′	10° 29′	8° 44′	6° 30′	5° 17′	4° 23′	3° 47′	2° 59′	2° 25′
	mx		3.25	2.5	3.25	2.5	2	3.25	2.5	2	1.68	1.28	1.02
	ηd		0.87	0.86	0.82	0.8	0.77	0.73	0.69	0.65	0.61	56	0.5
	ηs		0.7	0.65	0.59	0.54	0.5	0.45	0.4	0.36	0.33	0.28	0.24
075	Z1		4	4	2	2	2	1	1	1	1	1	1
	ɣ		26° 33′	21° 48′	14° 02′	11° 18′	9° 37′	7° 07′	5° 42′	4° 50′	4° 05′	3° 15′	2° 40′
	mx		4	3	4	3	2.45	4	3	2.45	2	1.54	1.24
	ηd		0.88	0.87	0.84	0.81	0.79	0.75	0.71	0.68	0.64	0.59	0.54
	ηs		0.7	0.67	0.6	0.57	0.52	0.46	0.42	0.38	0.35	0.29	0.26
090	Z1		4	4	2	2	2	1	1	1	1	1	1
	ɣ		28° 20′	23° 26′	15° 05′	12° 14′	10° 37′	7° 40′	6° 11′	5° 21′	4° 36′	3° 36′	2° 57′
	mx		4.8	3.6	4.8	3.6	3	4.8	3.6	3	2.5	1.88	1.5
	ηd		0.89	0.88	0.85	0.83	0.81	0.77	0.74	0.71	0.68	0.62	0.58
	ηs		0.72	0.69	0.63	0.59	0.55	0.49	0.45	0.41	0.38	0.32	0.28
110	Z1		4	4	2	2	2	1	1	1	1	1	1
	ɣ		28° 17′	27° 35′	15° 03′	14° 38′	12° 37′	7° 39′	7° 26′	6° 23′	5° 31′	4° 23′	3° 38′
	mx		5.89	4.6	5.89	4.6	3.75	5.89	4.6	3.75	3.12	2.36	1.9
	ηd		0.89	0.88	0.85	0.84	0.83	0.78	0.77	0.74	0.71	0.66	0.62
	ηs		0.71	0.68	0.62	0.61	0.58	0.48	0.48	0.44	0.41	0.36	0.32
130	Z1		4	4	2	2	2	1	1	1	1	1	1
	ɣ		28° 46′	26° 15′	15° 21′	13° 51′	11° 49′	7° 48′	7° 01′	5° 58′	5° 12′	4° 05′	3° 25′
	mx		7	5.4	7	5.4	4.37	7	5.4	4.37	3.68	2.75	2.24
	ηd		0.9	0.88	0.86	0.85	0.83	0.79	0.77	0.74	0.71	0.67	0.63
	ηs		0.71	0.68	0.62	0.6	0.57	0.49	0.46	0.43	0.39	0.34	0.3

The helix is right-handed. ηd(1400)…..dynamic efficiency at n1=1400 ηs…..static efficiency
i…..ratio Z1:Worm teeth number ɣ:Helical angle mx:Mold number

Performance

P1 (kW)	n2 (1/min)	M2 (Nm)	f.s.	i	Type	Fr2 (N)	Page
0.06	280	1.8	6.2	5		439	
	186.7	2.6	4.2	7.5		503	
	140	3.4	3.5	10		553	
	93.3	4.9	2.5	15		633	
	70	6.1	2	20	NMRV025	697	24
	46.7	8.2	1.6	30		798	
	35	10	1.3	40		878	
	28	12	0.9	50		946	
	23.3	14	0.7	60		1006	
	280	1.8	10.1	5		597	
	186.7	2.6	6.9	7.5		683	
	140	3.4	5.4	10		752	
	93.3	4.7	3.8	15		861	
	70	6	3	20		948	
	56	7	3	25	NMRV030	1021	25
	46.7	8	2.5	30		1085	
	35	9.7	1.9	40		1194	
	28	11	1.5	50		1286	
	23.3	13	1.3	60		1367	
	17.5	14	0.9	80		1504	
	14	25.1	1.3	100		1620	
	9.3	32	0.9	150	NMRV025/030	1830	48
	7	41	0.7	200		1830	
	5.6	44	0.8	250		1830	
	4.7	59.1	1.2	300		3490	
	3.5	71	0.9	400		3490	
	2.8	82	0.7	500		3490	
	2.3	101	0.6	600		3490	
	1.9	116	0.5	750		3490	
	1.6	143	0.5	900		3490	
	1.2	171	0.4	1200	NMRV025/040	3490	48
	0.9	197	0.3	1500		3490	
	0.8	217	0.3	1800		3490	
	0.6	268	0.2	2400		3490	
	0.5	324	0.2	3000		3490	
	0.4	294	0.1	4000		3490	
	0.3	356	0.1	5000		3490	
	4.7	57.4	1.3	300		3490	
	3.5	70	0.9	400		3490	
	2.8	96	0.6	500		3490	
	2.3	104	0.7	600		3490	
	1.9	121	0.6	750		3490	
	1.6	139	0.5	900		3490	
	1.2	166	0.4	1200	NMRV030/040	3490	48
	0.9	196	0.4	1500		3490	
	0.8	218	0.3	1800		3490	
	0.58	261	0.2	2400		3490	
	0.4	300	0.2	3200		3490	
	0.4	279	0.1	4000		3490	
	0.28	338	0.1	5000		3490	
	1.6	141.3	1	900		4840	
	1.2	169	0.7	1200		4840	
	0.93	199	0.7	1500		4840	
	0.78	222	0.7	1800	NMRV030/050	4840	49
	0.6	266	0.5	2400		4840	
	0.5	307	0.4	3000		4840	
	0.35	288	0.3	4000		4840	
	0.29	311	0.3	4800		4840	

Performance

P1 (kW)	n2 (1/min)	M2 (Nm)	f.s.	i	Type	Fr2 (N)	Page
0.06	0.9	203.5	1.1	1500		6270	
	0.78	225	0.9	1800		6270	
	0.58	276	0.8	2400	NMRV030/063	6270	49
	0.47	319	0.7	3000		6270	
	0.35	306	0.6	4000		6270	
	0.28	360	0.4	5000		6270	
	0.6	330.4	1.1	2400		7380	
	0.47	377	0.8	3000	NMRV040/075	7380	49
	0.35	355	0.7	4000		7380	
	0.28	419	0.5	5000		7380	
	0.5	405.9	1.4	3000		8180	
					NMRV040/090		50
	0.28	431	1	5000		8180	
0.09	280	2.7	4.1	5		439	
	186.7	3.9	2.8	7.5		503	
	140	5.1	2.4	10		553	
	93.3	7.3	1.6	15	NMRV025	633	24
	70	9.2	1.3	20		697	
	46.7	12	1.1	30		798	
	35	15	0.9	40		878	
	280	2.7	6.7	5		597	
	186.7	3.9	4.6	7.5		683	
	140	5	3.6	10		752	
	93.3	7.1	2.5	15		861	
	70	9	2	20	NMRV030	948	25
	56	10	2	25		1021	
	46.7	12	1.7	30		1085	
	35	14	1.2	40		1194	
	28	17	1	50		1286	
	23.3	19	0.9	60		1367	
	14	37.7	0.8	100		1620	
	9.3	49	0.6	150		1830	
	7	62	0.5	200		1830	
	5.6	66	0.5	250		1830	
	4.7	75	0.4	300		1830	
	3.5	107	0.3	400		1830	
	2.8	115	0.3	500		1830	
	2.3	135	0.2	600	NMRV025/030	1830	48
	1.9	151	0.2	750		1830	
	1.6	178	0.2	900		1830	
	1.2	212	0.1	1200		1830	
	0.9	247	0.1	1500		1830	
	0.78	304	0.1	1800		1830	
	0.58	340	0.1	2400		1830	
	0.47	405	0.1	3000		1830	
	28	19	2	50		2475	
	23.3	21	1.7	60	NMRV040	2630	26
	17.5	26	1.3	80		2895	
	14	29	1	100		3118	
	4.7	87.6	0.8	300	NMRV030/040	3490	48
	3.5	106.7	1.2	400		4840	
	2.8	123	1	500		4840	
	2.3	159	0.9	600	NMRV030/050	4840	49
	1.9	185	0.8	750		4840	
	1.6	212	0.7	900		4840	
	1.6	200	1	900		6270	
					NMRV030/063		49
	0.93	305	0.7	1500		6270	

Performance

P1 (kW)	n2 (1/min)	M2 (Nm)	f.s.	i	Type	Fr2 (N)	Page
0.09	0.9	359.7	1.1	1500		7380	
	0.78	404	1	1800	NMRV040/075	7380	49
	0.58	496	0.7	2400		7380	
	0.5	608.9	0.9	3000	NMRV040/090	8180	50
	0.35	548	0.8	4000		8180	
0.12	280	3.6	5.1	5		597	
	186.7	5.2	3.4	7.5		683	
	140	6.7	2.7	10		752	
	93.3	9.5	1.9	15		861	
	70	12	1.5	20	NMRV030	948	25
	56	14	1.5	25		1021	
	46.7	16	1.3	30		1085	
	35	19	0.9	40		1194	
	28	23	0.8	50		1286	
	46.7	17.2	2.6	30		2087	
	35	21	1.9	40		2298	
	28	25	1.5	50	NMRV040	2475	26
	2.3	28	1.3	60		2630	
	17.5	34	1	80		2895	
	14	38	0.8	100		3118	
	19.1	41.5	1.2	73.3		2833	
	15.9	45	1.2	88		3011	
	11.9	56	0.9	117.3	PC063+NMRV040	3314	42
	9.5	64.6	0.7	146.7		3490	
	7.9	73	0.6	176		3490	
	23.3	29	2.3	60		3610	
					NMRV050		27
	14	40	1.4	100		4280	
	9.5	66	1.3	146.7		4840	
	7.9	74	1.1	176	PC063+NMRV050	4840	42
	6.0	85	0.8	234.6		4840	
	4.8	96	0.7	293.3		4840	
	4.7	118.8	1.2	300		4840	
					NMRV030/050		49
	2.8	164	0.7	500		4840	
	6.0	89	1.5	234.6	PC063+NMRV063	6270	42
	4.8	101	1.2	293.3		6270	
	2.8	171.2	1.3	500		6270	
					NMRV030/063		49
	1.9	241	0.9	750		6270	
	1.6	324.9	1.2	900	NMRV040/075	7370	49
	1.2	399	0.9	1200		7380	
	0.8	546.6	0.9	1800	NMRV040/090	8180	50
	0.58	695	0.9	2400		8180	
	0.5	883.8	1.2	3000		10320	
					NMRV050/110		50
	0.28	928	0.8	5000		10320	
0.18	280	5.3	3.4	5		597	
	186.7	7.8	2.3	7.5		683	
	140	10	1.8	10		752	
	93.3	14	1.3	15	NMRV030	861	25
	70	18	1	20		948	
	56	21	1	25		1021	
	46.7	24	0.8	30		1085	
	70	19.2	2	20		1824	
	56	23	1.7	25	NMRV040	1964	26
	46.7	26	1.7	30		2087	
	35	32	1.3	40		2298	

Performance

P1 (kW)	n2 (1/min)	M2 (Nm)	f. s.	i	Type	Fr2 (N)	Page
0.18	28	38	1	50	NMRV040	2475	26
	23. 3	43	0. 8	60		2630	
	19. 1	62	0. 8	73. 3	PC063+NMRV040	2833	42
	11. 9	84	0. 6	117. 3		3314	
	35	32. 9	2. 3	40	NMRV050	3153	27
	28	39	1. 9	50		3397	
	23. 3	43	1. 6	60		3610	
	17. 5	52	1. 2	80		3973	
	14	60	0. 9	100		4280	
	19. 1	62	1. 4	73. 3	PC063+NMRV050	3889	42
	15. 9	70	1. 5	88		4132	
	11. 9	86	1. 1	117. 3		4548	
	9. 5	99	0. 9	146. 7		4840	
	7. 9	112	0. 7	176		4840	
	6. 0	129	0. 6	234. 6		4840	
	9. 5	101	1. 7	146. 7	PC063+NMRV063	6270	42
	7. 9	116	1. 4	176		6270	
	6. 0	135	1	234. 6		6270	
	4. 8	152	0. 8	293. 3		6270	
	3. 5	221. 5	1	400	NMRV030/063	6270	49
	2. 8	257	0. 8	500		6270	
	2. 3	362	1. 1	600	NMRV040/075	7380	49
	1. 6	487	0. 8	900		7380	
	1. 2	629. 2	1	1200	NMRV040/090	8180	50
	0. 93	735	0. 8	1500		8180	
	0. 8	860. 6	1. 5	1800	NMRV050/110	10320	50
	0. 58	1113	1. 1	2400		10320	
0.22	280	6. 5	2. 8	5	NMRV030	597	25
	186. 7	10	1. 9	7. 5		683	
	140	12	1. 5	10		752	
	93. 3	17	1	15		861	
	70	22	0. 8	20		948	
	93. 3	18. 5	2. 2	15	NMRV040	1657	26
	70	23	1. 7	20		1824	
	56	28	1. 4	25		1964	
	46. 7	32	1. 4	30		2087	
	35	39	1. 1	40		2298	
	28	47	0. 8	50		2475	
	28	47. 3	1. 5	50	NMRV050	3397	27
	17. 5	64	1	80		3973	
	19. 1	76	1. 2	73. 3	PC063+NMRV050	3889	42
	15. 9	84	1. 2	88		4132	
	11. 9	104	0. 9	117. 3		4548	
	9. 5	123	1. 4	146. 7		6270	
	7. 9	141	1. 1	176		6270	
	4. 7	210. 5	1. 1	300	NMRV030/063	6270	49
	3. 5	271	0. 8	400		6270	
0.25	280	7. 6	4. 5	5	NMRV040	1149	26
	186. 7	11	3. 6	7. 5		1315	
	140	14	2. 8	10		1447	
	93. 3	21	1. 9	15		1657	
	70	27	1. 5	20		1824	
	56	32	1. 2	25		1964	
	46. 7	36	1. 3	30		2087	
	35	44	0. 9	40		2298	

Performance

P1 (kW)	n2 (1/min)	M2 (Nm)	f.s.	i	Type	Fr2 (N)	Page
0.25	70	26.9	2.7	20		2503	
	56	32	2.2	25		2696	
	46.7	37	2.3	30		2865	
	35	46	1.7	40	NMRV050	3153	27
	28	54	1.4	50		3397	
	23.3	60	1.1	60		3610	
	17.5	72	0.9	80		3973	
	19.1	86	1	73.4		3889	
					PC071+NMRV050		43
	11.9	119	0.8	117.5		4548	
	28	56.3	2.4	50		4440	
	23.3	63	2	60	NMRV063	4719	28
	17.5	78	1.6	80		5193	
	14	87	1.4	100		5595	
	19.1	89	1.8	73.4		5083	
	15.9	98	2	88.1		5401	
	11.9	123	1.5	117.5		5945	
	9.5	140	1.2	146.9	PC071+NMRV063	6270	43
	7.9	161	1	176.3		6270	
	6.0	185.6	0.7	235		6270	
	4.8	211	0.6	293.8		6270	
	7	159.5	1.4	400	NMRV030/063	6270	49
	5.6	185	1.2	500		6270	
	17.5	81.9	2.3	80	NMRV075	6130	29
	14	94	1.9	100		6603	
	9.5	148	1.7	146.9		7380	
	7.9	170	1.4	176.3	PC071+NMRV075	7380	43
	6.0	195	1.1	235		7380	
	4.8	225	0.9	293.8		7380	
	3.5	336.3	1.1	400	NMRV040/075	7380	49
	2.8	384	0.8	500		7380	
	2.3	511.8	1.2	600		8180	
					NMRV040/090		50
	1.6	667	0.8	900		8180	
	1.2	943	1.3	1200		10320	
					NMRV050/110		50
	0.78	1195	1.1	1800		10320	
	0.6	1624	1	2400		13500	
	0.47	1935	0.8	3000	NMRV063/130	13500	50
	0.35	2046	0.6	4000		13500	
	0.28	2430	0.5	5000		13500	
0.37	280	11.2	3	5		1149	
	186.7	16	2.4	7.5		1315	
	140	21	1.9	10		1447	
	93.3	31	1.3	15	NMRV040	1657	26
	70	39	1	20		1824	
	56	47	0.8	25		1964	
	46.7	53	0.8	30		2087	
	140	21.7	3.3	10		1987	
	93.3	31	2.4	15		2274	
	70	40	1.8	20		2503	
	56	48	1.5	25	NMRV050	2696	27
	46.7	55	1.5	30		2865	
	35	68	1.1	40		3153	
	28	80	0.9	50		3397	
	23.3	89	0.8	60		3610	
	35	70.7	2.1	40	NMRV063	4122	28
	28	83	1.6	50		4440	

Performance

P1 (kW)	n2 (1/min)	M2 (Nm)	f. s.	i	Type	Fr2 (N)	Page
0.37	23. 3	94	1. 4	60		4719	
	17. 5	115	1. 1	80	NMRV063	5193	28
	14	129	0. 9	100		5595	
	19. 1	131	1. 2	73. 4		5083	
	15. 9	145	1. 4	88. 1	PC071+NMRV063	5401	43
	11. 9	182	1	117. 5		5945	
	9. 5	208	0. 8	146. 9		6270	
	23. 3	98. 4	2	60		5569	
					NMRV075		29
	14	139	1. 3	100		6603	
	19. 1	135	1. 8	73. 4		6000	
	15. 9	151	1. 9	88. 1		6375	
	11. 9	188	1. 5	117. 5	PC071+NMRV075	7017	43
	9. 5	218	1. 1	146. 9		7380	
	7. 9	251	0. 9	176. 3		7380	
	4. 7	405. 5	1	300	NMRV040/075	7380	49
	3. 5	498	0. 7	400		7380	
	7. 9	265	1. 5	176. 3		8180	
					PC071+NMRV090		43
	4. 8	363	0. 9	293. 8		8180	
	4. 7	401. 8	1. 5	300		8180	
	3. 5	523	1. 2	400	NMRV040/090	8180	50
	2. 8	611	0. 9	500		8180	
	2. 3	757	0. 8	600		8180	
	1. 9	949. 5	1. 3	750		10320	
					NMRV050/110		50
	1. 2	1396	0. 8	1200		10320	
	0. 9	1674. 1	1. 1	1500	NMRV063/130	13500	50
	0. 78	1887	0. 9	1800		13500	
0.55	280	16. 7	2	5		1149	
	186. 7	24	1. 6	7. 5	NMRV040	1315	26
	140	32	1. 3	10		1447	
	93. 3	46	0. 9	15		1657	
	280	16. 7	3. 7	5		1577	
	186. 7	25	2. 9	7. 5		1805	
	140	32	2. 2	10		1987	
	93. 3	46	1. 6	15	NMRV050	2274	27
	70	59	1. 2	20		2503	
	56	71	1	25		2696	
	46. 7	81	1	30		2865	
	70	60. 8	2. 2	20		3272	
	56	73	1. 8	25		3524	
	46. 7	83	1. 9	30	NMRV063	3745	29
	35	105	1. 4	40		4122	
	28	124	1. 1	50		4440	
	23. 3	140	0. 9	60		4719	
	19. 1	196	0. 8	73. 4	PC071+NMRV063	5083	43
	15. 9	215	0. 9	88. 1		5401	
	35	108. 1	2	40		4865	
	28	129	1. 6	50		5241	
	23. 3	146	1. 4	60	NMRV075	5569	29
	17. 5	180	1. 1	80		6130	
	14	206	0. 9	100		6603	
	19. 1	201	1. 2	73. 4		6000	
					PC071+NMRV075		43
	11. 9	279	1	176. 3		7017	
	18. 7	205. 4	1. 2	75	PC080+NMRV075	6000	44
	15. 6	230	1. 3	90		6375	

Performance

P1 (kW)	n2 (1/min)	M2 (Nm)	f.s.	i	Type	Fr2 (N)	Page
0.55	11.7	284	1	120	PC080+NMRV075	7017	44
	9.3	332	0.8	150		7380	
	17.5	189.1	1.5	80	NMRV090	6783	30
	14	221	1.2	100		7306	
	15.6	239.7	2.3	90	PC080+NMRV090	7054	44
	11.7	297	1.6	120		7764	
	9.3	355	1.3	150		8180	
	7.8	398	1	180		8180	
	5.8	477	0.8	240		8180	
	17.5	201.1	2.6	80	NMRV110	8571	31
	14	236	2	100		9232	
	7.8	425.5	1.8	180	PC080+NMRV110	10320	44
	4.7	597	1	300		10320	
	4.7	638.9	2	300	NMRV050/110	10320	50
	3.5	826	1.4	400		10320	
	2.8	984	1.1	500		10320	
	2.3	1181	1	600		10320	
	1.9	1411	0.9	750		10320	
	2.8	995.5	1.6	500	NMRV063/130	13500	50
	1.2	2132	0.8	1200		13500	
0.75	280	22.8	2.7	5	NMRV050	1577	27
	186.7	34	2.1	7.5		1805	
	140	44	1.6	10		1987	
	93.3	63	1.2	15		2274	
	70	81	0.9	20		2503	
	93.3	63.7	2.2	15	NMRV063	2973	28
	70	83	1.6	20		3272	
	56	100	1.3	25		3524	
	46.7	114	1.4	30		3745	
	35	143	1	40		4122	
	56	102.3	2	25	NMRV075	4160	29
	46.7	117	2	30		4421	
	35	147	1.5	40		4865	
	28	177	1.2	50		5241	
	23.3	200	1	60		5569	
	18.7	280.1	0.9	75	PC080+NMRV075	6000	44
	15.6	313	1	90		6375	
	28	184.2	1.8	50	NMRV090	5799	30
	23.3	212	1.5	60		6163	
	17.5	258	1.1	80		6783	
	14	302	0.9	100		7306	
	15.6	326.9	1.7	90	PC080+NMRV090	7054	44
	11.7	405	1.2	120		7764	
	9.3	483	0.9	150		8180	
	7.8	543	0.7	180		8180	
	17.5	274.2	1.9	80	NMRV110	8571	31
	14	322	1.5	100		9232	
	11.7	429.8	2.2	120	PC080+NMRV110	9811	44
	9.3	506	1.7	150		10320	
	7.8	580	1.3	180		10320	
	5.8	700	0.9	240		10320	
	4.7	871.2	1.5	300	NMRV050/110	10320	50
	3.5	1126	1.1	400		10320	
	5.8	712.2	1.4	240	PC080+NMRV130	13500	44
	4.7	813	1.1	300		13500	
	2.8	1357.5	1.1	500	NMRV063/130	13500	50

Performance

P1 (kW)	n2 (1/min)	M2 (Nm)	f.s.	i	Type	Fr2 (N)	Page
0.75	2.3	1631	1	600		13500	
	1.9	2005	0.9	750	NMRV063/130	13500	50
	1.6	2283	0.8	900		13500	
1.1	186.7	49.5	2.6	7.5		2359	
	140	65	2	10		2597	
	93.3	93	1.5	15	NMRV063	2973	28
	70	122	1.1	20		3272	
	56	146	0.9	25		3524	
	46.7	167	1	30		3745	
	93.3	95.7	2.1	15		3509	
	70	123	1.7	20		3862	
	56	150	1.3	25	NMRV075	4160	29
	46.7	171	1.3	30		4421	
	35	216	1	40		4865	
	35	225.1	1.6	40		5383	
					NMRV090		30
	23.3	311	1	60		6163	
	28	281.4	2.3	50		7328	
	23.3	324	1.9	60	NMRV110	7787	31
	17.5	402	1.3	80		8571	
	14	473	1	100		9232	
	19	398	2.5	73.6		8298	
	14.3	515	1.8	98.2		9133	
	11.4	609	1.5	122.7	PC090+NMRV110	9838	44
	9.5	693	1.1	147.3		10320	
	7.1	840	0.8	196.4		10320	
	17.5	408.2	2.1	80	NMRV130	11210	32
	14	480	1.5	100		12076	
	19	404	3.5	73.6		10853	
	14.3	515	2.6	98.2		11945	
	11.4	619	2	122.7	PC090+NMRV130	12868	44
	9.5	693	1.6	147.3		13500	
	7.1	855	1.2	196.4		13500	
	5.7	978	0.9	245.5		13500	
	4.7	1312.1	1.3	300		13500	
					NMRV063/130		50
	2.8	1991	0.8	500		13500	
1.5	186.7	67.5	1.9	7.5		2359	
	140	89	1.5	10	NMRV063	2597	28
	93.3	127	1.1	15		2973	
	70	166	0.8	20		3272	
	140	90	2.2	10		3065	
	93.3	130	1.5	15		3509	
	70	168	1.3	20	NMRV075	3862	29
	56	205	1	25		4160	
	46.7	233	1	30		4421	
	70	171.9	2.1	20		4273	
	56	210	1.6	25		4603	
	46.7	239	1.7	30	NMRV090	4891	30
	35	307	1.2	40		5383	
	28	368	0.9	50		5799	
	23.3	424	0.8	60		6163	
	35	319.2	2.2	40		6803	
	28	384	1.7	50	NMRV110	7328	31
	23.3	442	1.4	60		7787	
	17.5	548	0.9	80		8571	
	19	543	1.9	73.6	PC090+NMRV110	8298	44
	14.3	703	1.3	98.2		9133	

Performance

P1 (kW)	n2 (1/min)	M2 (Nm)	f.s.	i	Type	Fr2 (N)	Page
1.5	11.4	831	1.1	122.7	PC090+NMRV110	9838	44
	9.5	946	0.8	147.3		10320	
	17.5	556.6	1.5	80	NMRV130	11210	32
	14	655	1.1	100		12076	
	19	550	2.6	73.6	PC090+NMRV130	10853	44
	14.3	703	1.9	98.2		11945	
	11.4	845	1.5	122.7		12868	
	9.5	998	1.1	147.3		13500	
	7.1	1165	0.8	196.4		13500	
	4.7	1789.3	1	300	NMRV063/130	13500	50
	3.5	2279	0.7	400		13500	
2.2	186.7	100.2	1.8	7.5	NMRV075	2785	29
	93.3	191	1	15		3509	
	186.7	101.3	2.9	7.5	NMRV090	3081	30
	140	134	2.3	10		3391	
	93.3	194	1.9	15		3882	
	70	252	1.4	20		4273	
	56	308	1.1	25		4603	
	46.7	351	1.2	30		4891	
	70	255.1	2.5	20	NMRV110	5399	31
	56	315	2.2	25		5816	
	46.7	356	2	30		6181	
	35	468	1.5	40		6803	
	28	563	1.2	50		7328	
	23.3	648	1	60		7787	
	35	468.2	2.2	40	NMRV130	8897	32
	28	563	1.7	50		9584	
	23.3	648	1.4	60		10185	
	17.5	816	1	80		11210	
3	186.7	136.6	1.4	7.5	NMRV075	2785	29
	93.3	261	0.8	15		3509	
	186.7	138.1	2.1	7.5	NMRV090	3081	30
	140	182	1.7	10		3391	
	93.3	264	1.4	15		3882	
	70	344	1	20		4273	
	56	420	0.8	25		4603	
	46.7	479	0.9	30		4891	
	93.3	264	2.5	15	NMRV110	4905	31
	70	348	1.9	20		5399	
	56	430	1.6	25		5816	
	46.7	485	1.5	30		6181	
	35	638	1.1	40		6803	
	28	767	0.9	50		7328	
	56	429.8	2.2	25	NMRV130	7607	32
	46.7	491	2.1	30		8084	
	35	638	1.6	40		8897	
	28	767	1.3	50		9584	
	23.3	884	1	60		10185	
	17.5	1113	0.8	80		11210	
4	186.7	184.2	1.6	7.5	NMRV090	3081	30
	140	243	1.3	10		3391	
	93.3	352	1	15		3882	
	70	458	0.8	20		4273	
	140	242.8	2.5	10	NMRV110	4285	31
	70	464	1.4	20		5399	

Performance

P1 (kW)	n2 (1/min)	M2 (Nm)	f.s.	i	Type	Fr2 (N)	Page
4	56	573	1.2	25	NMRV110	5816	31
	46.7	647	1.1	30		6181	
	56	573	1.6	25		7607	
	46.7	655	1.6	30		8084	
	35	851	1.2	40	NMRV130	8897	32
	28	1023	1	50		9584	
	23.3	1179	0.8	60		10185	
4.8	186.7	221	1.3	7.5	NMRV090	3081	30
	93.3	422	0.9	15		3882	
	186.7	221	2.5	7.5		3893	
	140	291	2.1	10		4285	
	93.3	422	1.6	15	NMRV110	4905	31
	70	557	1.2	20		5399	
	56	688	1	25		5816	
	56	687.6	1.4	25		7607	
	46.7	786	1.3	30	NMRV130	8084	32
	35	1022	1	40		8897	
	28	1228	0.8	50		9584	
5.5	186.7	253.2	2.2	7.5		3893	
	140	334	1.8	10	NMRV110	4285	31
	93.3	484	1.4	15		4905	
	70	638	1	20		5399	
	140	333.9	2.5	10		5605	
	93.3	490	1.9	15		6416	
	70	645	1.4	20	NMRV130	7062	32
	56	788	1.2	25		7607	
	46.7	900	1.2	30		8084	
	35	1171	0.9	40		8897	
7.5	186.7	345.3	1.6	7.5	NMRV110	3893	31
	93.3	660	1	15		4905	
	186.7	349.2	2.1	7.5		5092	
	140	455	1.8	10		5605	
	93.3	668	1.4	15		6416	
	70	880	1	20	NMRV130	7062	32
	56	1074	0.9	25		7607	
	46.7	1228	0.8	30		8084	
	35	1596	0.7	40		8897	
9.2	186.7	423.6	1.3	7.5	NMRV110	3893	31
	186.7	428.3	1.8	7.5		5092	
	140	559	1.5	10		5605	
	93.3	819	1.1	15	NMRV130	6416	32
	70	1079	0.8	20		7062	
	56	1318	0.7	25		7607	

NRV Performance

（n1=1400)

M2 (Nm)	i	P1 (kW)	n2 (1/min)	Type	Fr2 (N)	Fr1 (N)	Page
18	5	0.6	280		597	150	
18	7.5	0.4	186.7		683	150	
18	10	0.3	140		752	169	
18	15	0.2	93.3		861	169	
18	20	0.2	70		948	190	
21	25	0.2	56	NRV030	1021	210	25
20	30	0.2	46.7		1085	210	
18	40	0.1	35		1194	210	
17	50	0.1	28		1286	210	
16	60	0.1	23.3		1367	210	
13	80	0.1	17.5		1504	210	
34	5	1.1	280		1149	250	
40	7.5	0.9	186.7		1315	294	
40	10	0.7	140		1447	331	
40	15	0.5	93.3		1657	331	
39	20	0.4	70		1824	350	
38	25	0.3	56	NRV040	1964	350	26
45	30	0.3	46.7		2087	350	
41	40	0.2	35		2298	350	
39	50	0.2	28		2475	350	
36	60	0.2	23.3		2630	350	
33	80	0.1	17.5		2895	350	
29	100	0.1	14		3118	350	
62	5	2	280		1577	350	
71	7.5	1.6	186.7		1805	401	
72	10	1.2	140		1987	490	
74	15	0.9	93.3		2274	490	
73	20	0.7	70		2503	490	
70	25	0.5	56	NRV050	2696	490	27
84	30	0.6	46.7		2865	490	
76	40	0.4	35		3153	490	
73	50	0.3	28		3397	490	
68	60	0.3	23.3		3610	490	
65	80	0.2	17.5		3973	490	
55	100	0.2	14		4280	490	
128	7.5	2.8	186.7		2359	500	
130	10	2.2	140		2597	571	
140	15	1.6	93.3		2973	615	
135	20	1.2	70		3272	667	
130	25	1	56		3524	700	
160	30	1.1	46.7	NRV063	3745	700	28
145	40	0.8	35		4122	700	
135	50	0.6	28		4440	700	
130	60	0.5	23.3		4719	700	
122	80	0.4	17.5		5193	700	
118	100	0.3	14		5595	700	
185	7.5	4.1	186.7		2785	700	
195	10	3.2	140		3065	830	
200	15	2.3	93.3		3509	851	
210	20	1.9	70		3862	980	
200	25	1.5	56		4160	980	
230	30	1.5	46.7	NRV075	4421	980	29
220	40	1.1	35		4865	980	
210	50	0.9	28		5241	980	
200	60	0.8	23.3		5569	980	
190	80	0.6	17.5		6130	980	
180	100	0.5	14		6603	980	

NRV Performance

（n1=1400)

M2 (Nm)	i	P1 (kW)	n2 (1/min)	Type	Fr2 (N)	Fr1 (N)	Page
290	7.5	6.3	186.7		3081	900	
310	10	5.1	140		3391	1082	
360	15	4.1	93.3		3882	1257	
355	20	3.1	70		4273	1270	
340	25	2.4	56		4603	1270	
410	30	2.6	46.7	NRV090	4891	1270	30
360	40	1.8	35		5383	1270	
340	50	1.4	28		5799	1270	
320	60	1.1	23.3		6163	1270	
285	80	0.8	17.5		6783	1270	
270	100	0.7	14		7306	1270	
552	7.5	12	186.7		3893	1200	
598	10	9.8	140		4285	1463	
656	15	7.5	93.3		4905	1604	
644	20	5.6	70		5399	1700	
679	25	4.7	56		5816	1700	
725	30	4.5	46.7	NRV110	6181	1700	31
702	40	3.3	35		6803	1700	
660	50	2.6	28		7328	1700	
616	60	2.1	23.3		7787	1700	
515	80	1.4	17.5		8571	1700	
483	100	1.1	14		9232	1700	
750	7.5	16.1	186.7		5092	1500	
820	10	13.5	140		5605	1845	
920	15	10.3	93.3		6416	2070	
910	20	7.8	70		7062	2100	
930	25	6.5	56		7607	2100	
1040	30	6.4	46.7	NRV130	8084	2100	32
1050	40	4.9	35		8897	2100	
980	50	3.8	28		9584	2100	
900	60	3.1	23.3		10185	2100	
840	80	2.3	17.5		11210	2100	
740	100	1.7	14		12076	2100	

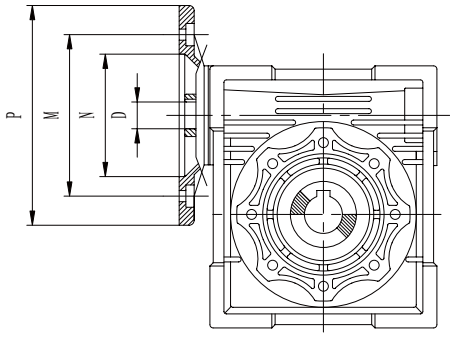
NMRV-NMRV Parameter Table

*n1=1400rpm

	i	n2	kW1	M2 (Nm)	i1	i2
NRV 030/040	300	4.7	0.08	73	10	30
	400	3.5	0.06	65	10	40
	500	2.8	0.04	61	20	25
	600	2.3	0.04	73	20	30
	750	1.9	0.04	73	25	30
	900	1.6	0.03	73	30	30
	1200	1.2	0.02	65	30	40
	1500	0.9	0.02	73	50	30
	1800	0.8	0.02	73	60	30
	2400	0.58	0.01	65	60	40
	3200	0.4	0.01	65	80	40
	4000	0.4	0.01	33	50	80
	5000	0.28	0.01	29	50	100
NRV 030/050	300	4.7	0.15	145	10	30
	400	3.5	0.1	124	10	40
	500	2.8	0.09	120	10	50
	600	2.3	0.08	145	20	30
	750	1.9	0.07	145	25	30
	900	1.6	0.06	145	30	30
	1200	1.2	0.04	124	30	40
	1500	0.93	0.04	145	50	30
	1800	0.78	0.04	145	60	30
	2400	0.6	0.03	124	60	40
	3000	0.5	0.02	120	60	50
	4000	0.35	0.02	82	50	80
	4800	0.29	0.02	82	60	80
NRV 030/063	300	4.7	0.24	230	7.5	40
	400	3.5	0.19	230	10	40
	500	2.8	0.15	216	10	50
	600	2.3	0.13	230	15	40
	750	1.9	0.11	216	15	50
	900	1.6	0.09	198	15	60
	1200	1.2	0.08	230	30	40
	1500	0.93	0.06	216	30	50
	1800	0.78	0.05	198	30	60
	2400	0.58	0.05	230	60	40
	3000	0.47	0.04	216	60	50
	4000	0.35	0.03	172	50	80
	5000	0.28	0.02	150	50	100
NRV 040/075	300	4.7	0.36	390	10	30
	400	3.5	0.27	360	10	40
	500	2.8	0.21	320	10	50
	600	2.3	0.19	390	20	30
	750	1.9	0.16	390	25	30
	900	1.6	0.14	390	30	30
	1200	1.2	0.11	360	30	40
	1500	0.93	0.1	390	50	30
	1800	0.78	0.09	390	60	30
	2400	0.58	0.07	360	60	40
	3000	0.47	0.05	320	60	50
	4000	0.35	0.04	250	50	80
	5000	0.28	0.03	230	50	100

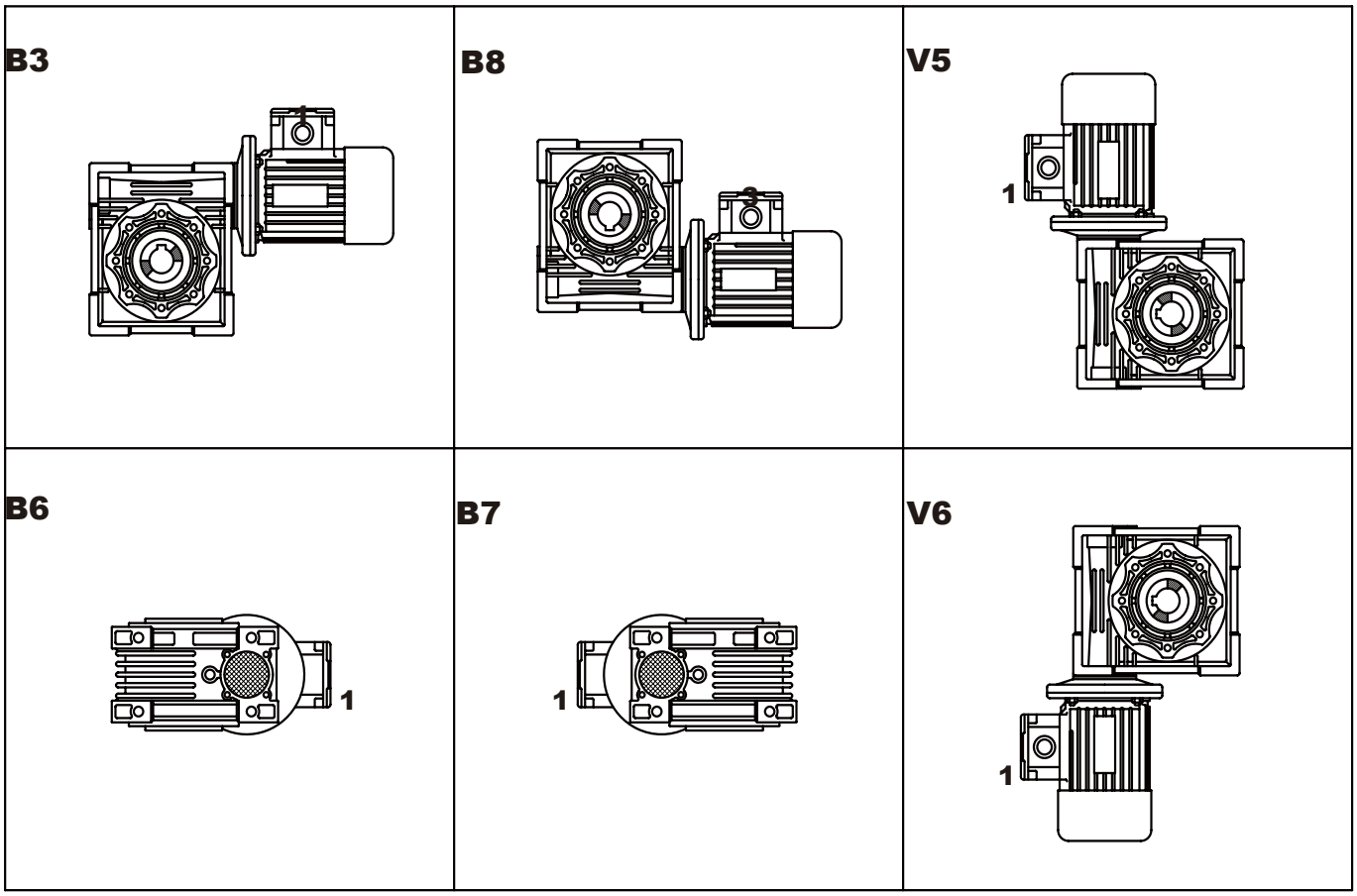
	i	n2	kW1	M2 (Nm)	i1	i2
NRV 040/090	300	4.7	0.56	610	7.5	40
	400	3.5	0.43	610	10	40
	500	2.8	0.34	560	10	50
	600	2.3	0.3	610	15	40
	750	1.9	0.23	560	15	50
	900	1.6	0.19	505	15	60
	1200	1.2	0.17	610	30	40
	1500	0.93	0.14	560	30	50
	1800	0.78	0.11	505	30	60
	2400	0.58	0.11	610	60	40
	3000	0.47	0.08	560	60	50
	4000	0.35	0.08	460	50	80
	5000	0.28	0.06	410	50	100
NRV 050/110	300	4.7	0.95	1100	10	30
	400	3.5	0.69	1030	10	40
	500	2.8	0.56	1000	10	50
	600	2.3	0.48	1030	15	40
	750	1.9	0.43	1100	25	30
	900	1.6	0.38	1100	30	30
	1200	1.2	0.27	1030	30	40
	1500	0.93	0.28	1100	50	30
	1800	0.78	0.23	1100	60	30
	2400	0.58	0.17	1030	60	40
	3000	0.47	0.14	1000	60	50
	4000	0.35	0.12	780	50	80
	5000	0.28	0.09	710	50	100
NRV 063/130	300	4.7	1.48	1760	10	30
	400	3.5	1.09	1650	10	40
	500	2.8	0.86	1550	10	50
	600	2.3	0.76	1650	15	40
	750	1.9	0.66	1760	25	30
	900	1.6	0.58	1760	30	30
	1200	1.2	0.43	1650	30	40
	1500	0.93	0.39	1760	50	30
	1800	0.78	0.35	1760	60	30
	2400	0.58	0.25	1650	60	40
	3000	0.47	0.2	1550	60	50
	4000	0.35	0.15	1220	50	80
	5000	0.28	0.11	1100	50	100

Motor Mounting Dimensions

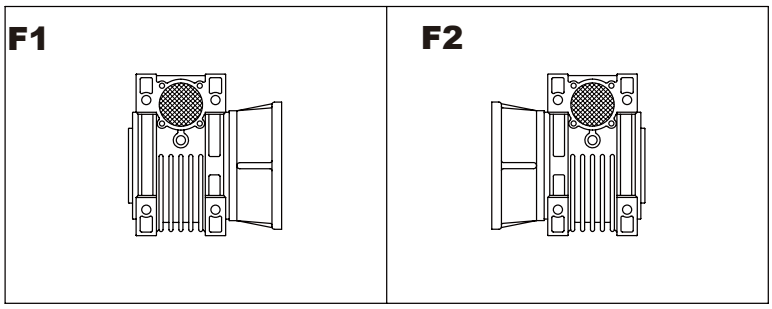


NMRV	PAM / IEC	N	M	P	D											
					5	7.5	10	15	20	25	30	40	50	60	80	100
025	56B14	50	65	80	9	9	9	9	9	–	9	9	9	9	–	–
030	63B5	95	115	140	11	11	11	11	11	11	11	11	11	–	–	–
	63B14	60	75	90												
	56B5	80	100	120	9	9	9	9	9	9	9	9	9	9	9	–
	56B14	50	65	80												
040	71B5	110	130	160	14	14	14	14	14	14	14	14	–	–	–	–
	71B14	70	85	105												
	63B5	95	115	140	11	11	11	11	11	11	11	11	11	11	11	11
	63B14	60	75	90												
	56B5	80	100	120	–	–	–	–	–	–	–	–	9	9	9	9
050	80B5	130	165	200	19	19	19	19	19	19	19	–	–	–	–	–
	80B14	80	100	120												
	71B5	110	130	160	14	14	14	14	14	14	14	14	14	14	14	–
	71B14	70	85	105												
	63B5	95	115	140	–	–	–	–	–	–	–	11	11	11	11	11
063	90B5	130	165	200	–	24	24	24	24	24	24	–	–	–	–	–
	90B14	95	115	140												
	80B5	130	165	200	–	19	19	19	19	19	19	19	19	19	–	–
	80B14	80	100	120												
	71B5	110	130	160	–	–	–	–	–	–	–	14	14	14	14	14
	71B14	70	85	105												
075	100/112B5	180	215	250	–	28	28	28	–	–	–	–	–	–	–	–
	100/112B14	110	130	160												
	90B5	130	165	200	–	24	24	24	24	24	24	24	–	–	–	–
	90B14	95	115	140												
	80B5	130	165	200	–	–	–	–	19	19	19	19	19	19	19	19
	80B14	80	100	120												
	71B5	110	130	160	–	–	–	–	–	–	–	–	14	14	14	14
090	100/112B5	180	215	250	–	28	28	28	28	28	28	–	–	–	–	–
	100/112B14	110	130	160												
	90B5	130	165	200	–	24	24	24	24	24	24	24	24	24	–	–
	90B14	95	115	140												
	80B5	130	165	200	–	–	–	–	–	–	–	19	19	19	19	19
	80B14	80	100	120												
110	132B5	230	265	300	–	38	38	38	38	–	–	–	–	–	–	–
	100/112B5	180	215	250	–	28	28	28	28	28	28	28	28	28	–	–
	90B5	130	165	200	–	–	–	–	–	24	24	24	24	24	24	24
	80B5	130	165	200	–	–	–	–	–	–	–	–	–	–	19	19
130	132B5	230	265	300	–	38	38	38	38	38	38	38	–	–	–	–
	100/112B5	180	215	250	–	–	–	–	–	28	28	28	28	28	28	28
	90B5	130	165	200	–	–	–	–	–	–	–	–	–	–	24	24

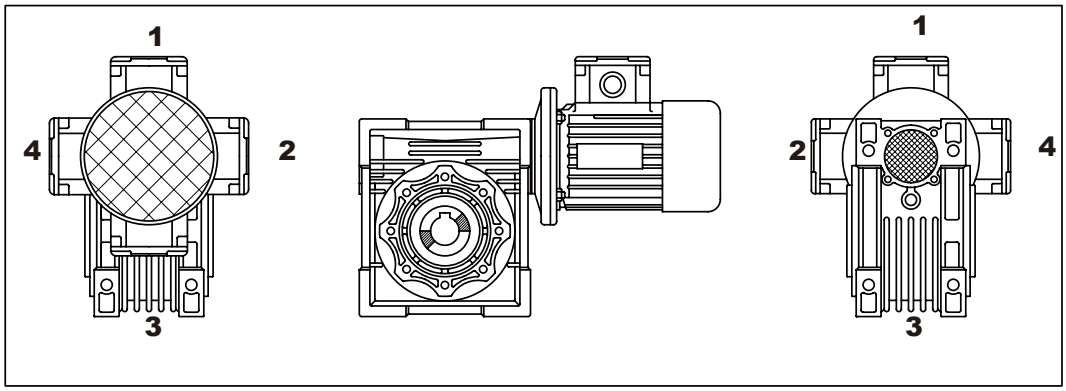
Mounting Positions



Flange F-FL

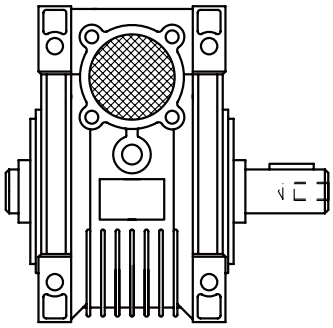


Position of terminal box

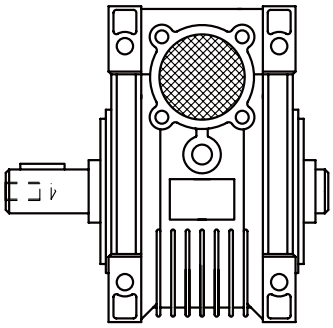


Position of Output Shaft

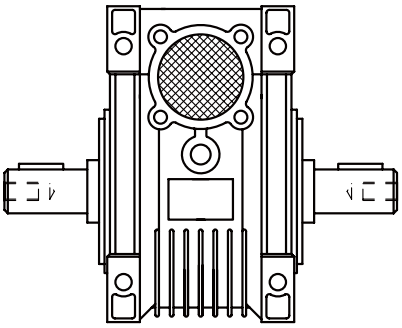
AS1



AS2

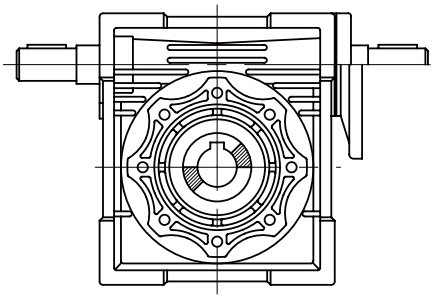


AB



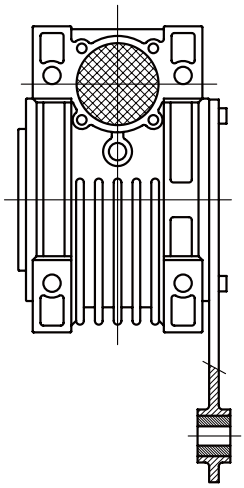
Double extension worm shaft

VS

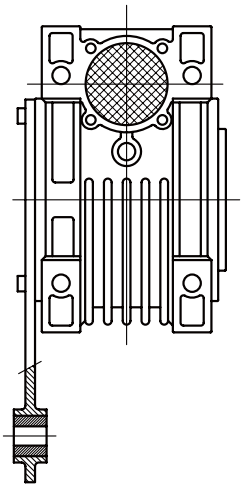


Positon of torque arm

A1



A2

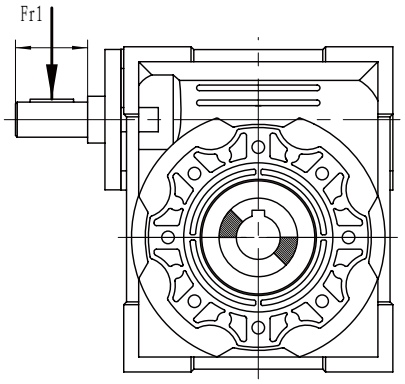


Choice of Lubrication

Q.ty of oil in litres									
NMRV	**025**	**030**	**040**	**050**	**063**	**075**	**090**	**110**	**130**
B3	0.02	0.04	0.08	0.15	0.3	0.55	1	3	4.5
B8								2.2	3.3
B6-B7								2.5	3.5
V5								3	4.5

Oil Type Used			
	IP	TELIUM VSF	MELLANA OIL 220
	SHELL	TIVELA OIL SC320	OMALA OIL 220
	AGIP	BLASIA S320	BLASIA 220
	MOBIL	GLYGOYLE 30	MOBILGEAR 220
	CASTROL	ALPHASYN PG 320	ALPHA MAX 220

Applied radial load of the input shaft



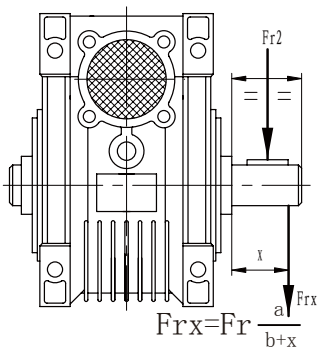
(N)

n1	**NRV030**	**NRV040**	**NRV050**	**NRV063**	**NRV075**	**NRV090**	**NRV110**	**NRV130**
1400	150	250	350	500	700	900	1200	1500
900	175	290	400	580	810	1040	1390	1740
500	210	350	490	700	980	1270	1700	2100

Applied radial load of the output shaft

(N)

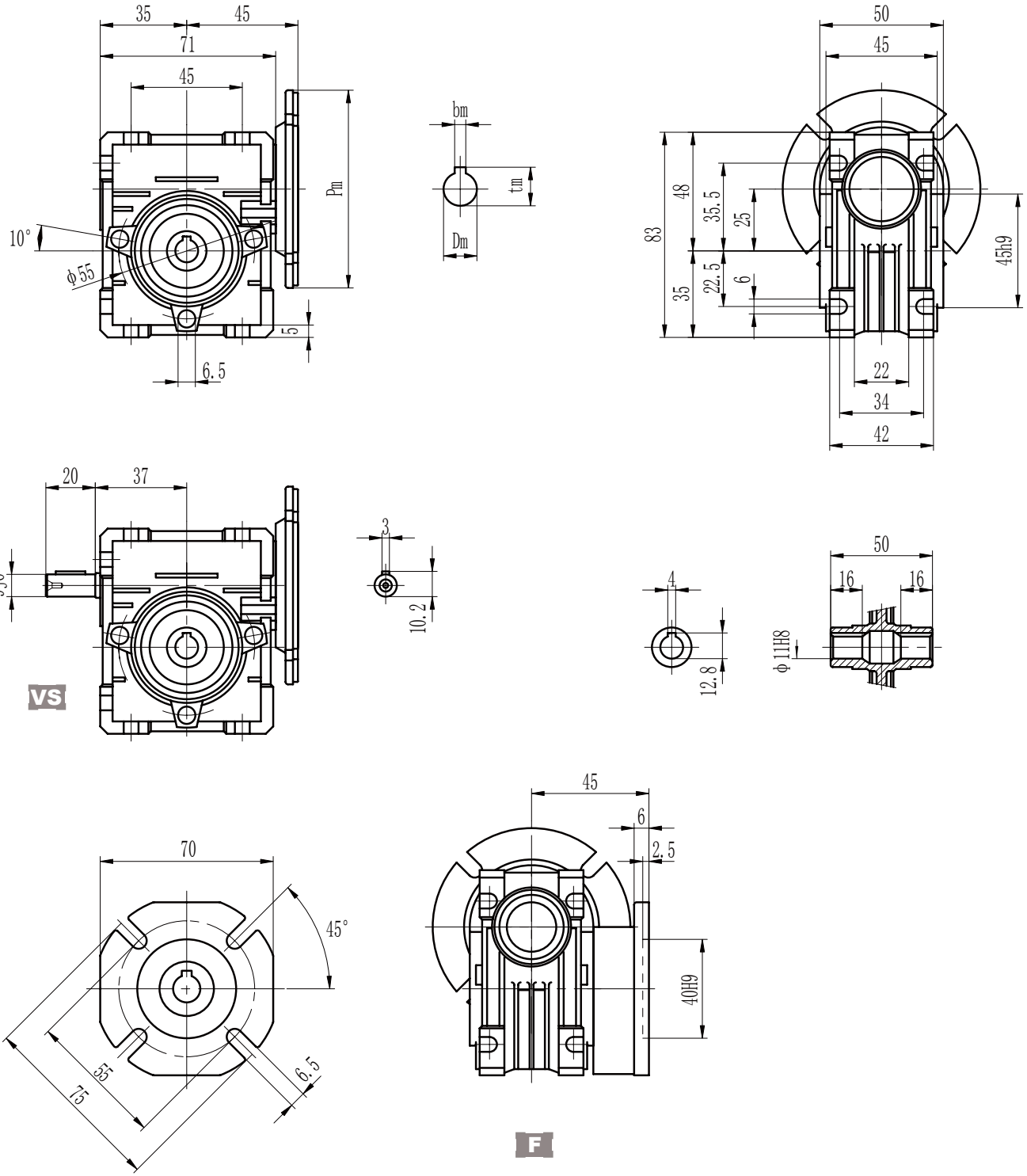
n2	**NRV025**	**NRV030**	**NRV040**	**NRV050**	**NRV063**	**NRV075**	**NRV090**	**NRV110**	**NRV130**
400	390	530	1020	1400	1830	2160	2390	3020	3950
250	460	620	1200	1650	2150	2520	2800	3530	4610
150	550	740	1420	1960	2540	2990	3310	4180	5470
100	630	850	1620	2250	2910	3430	3800	4790	6260
60	740	1000	1920	2660	3450	4060	4500	5680	7420
40	850	1150	2200	3050	3950	4650	5150	6500	8500
25	990	1350	2570	3570	4620	5440	6020	7600	9940
10	1350	1830	3490	4840	6270	7380	8180	10320	13500
a	50	65	84	101	120	131	162	191	203
b	38	50	64	76	95	101	122	151	163



- The data in above table are of the permitted force on the midpoint of the output shaft.
- When the reducer is with double output shafts, the resultant radial power at the edge of shaft should not exceed the values specified as in the above table.
- The maximum allowed axial force is 1/5 of radial force, when the radial force and axial force are applied together.

Dimensions

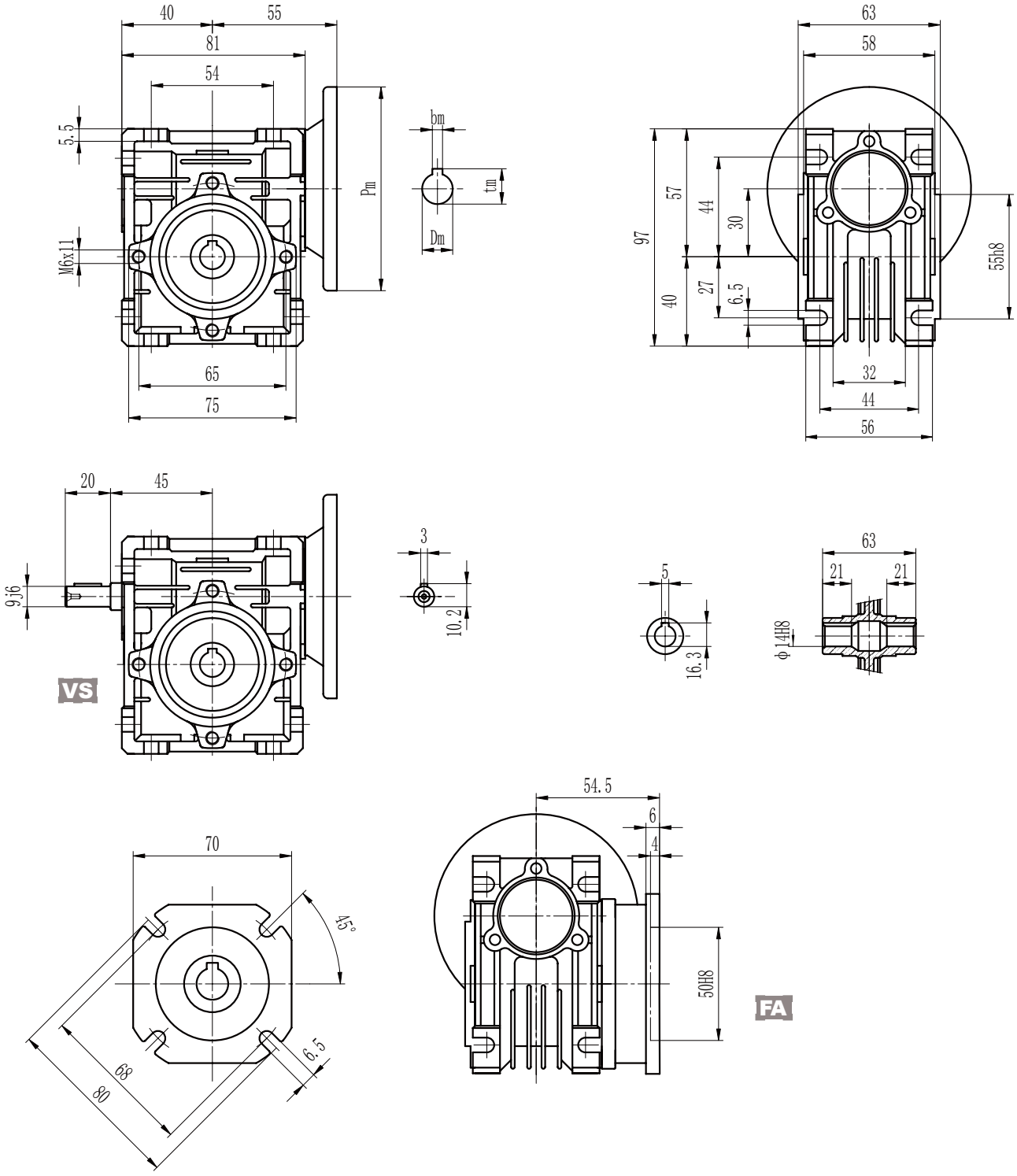
NMRV025



Weight without motor: 0.7kg

For the dimensions concerning the motor mounting data (Pm, Dm, bm, tm) please refer to the table shown at page 53

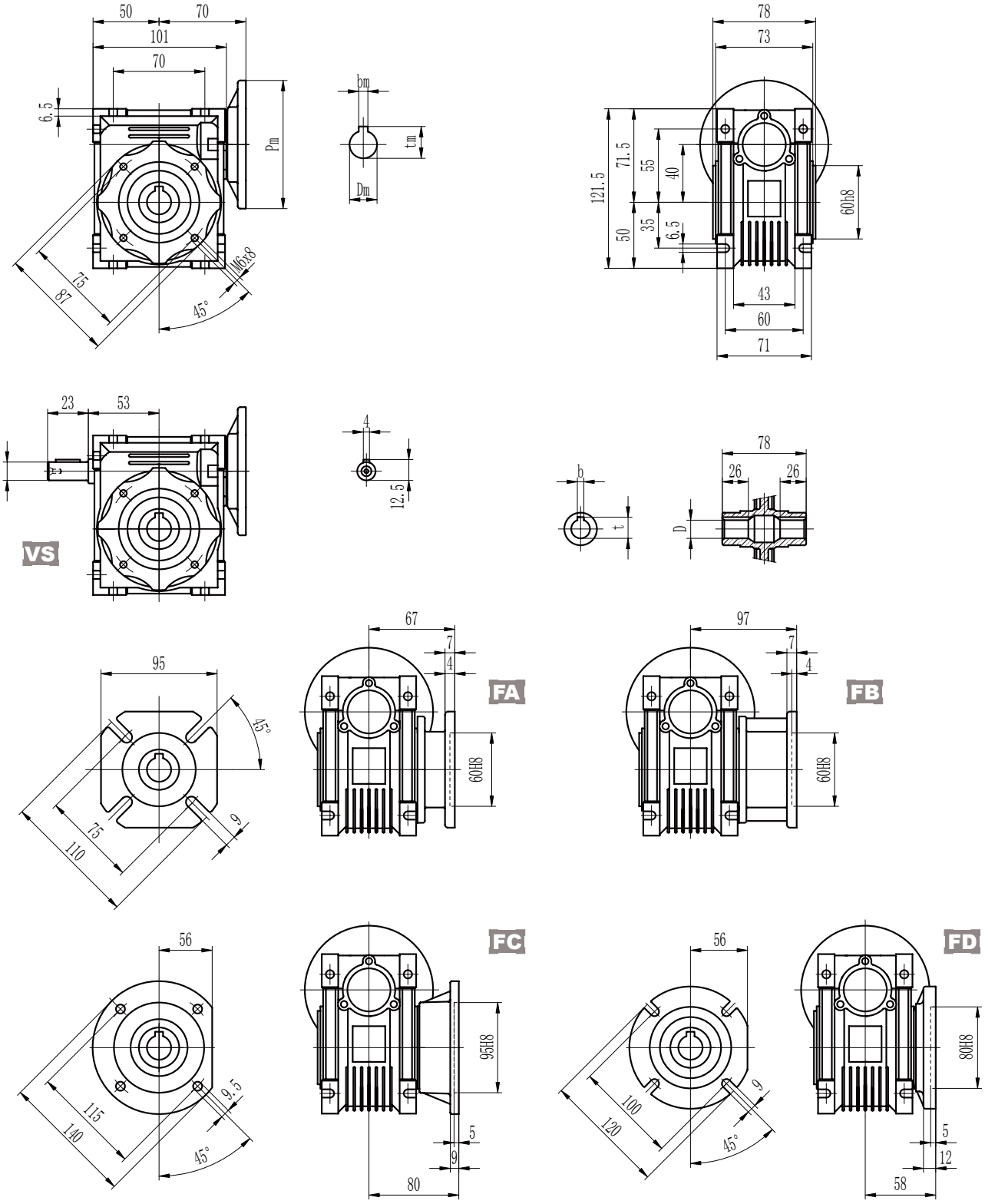
Dimensions
NMRV030



Weight without motor:1.2kg

For the dimensions concerning the motor mounting data (Pm, Dm, bm, tm)please refer to the table shown at page 53

Dimensions
NMRV040



Output		
D H8	b	t
18 (19)	6 (6)	20.8 (21.8)

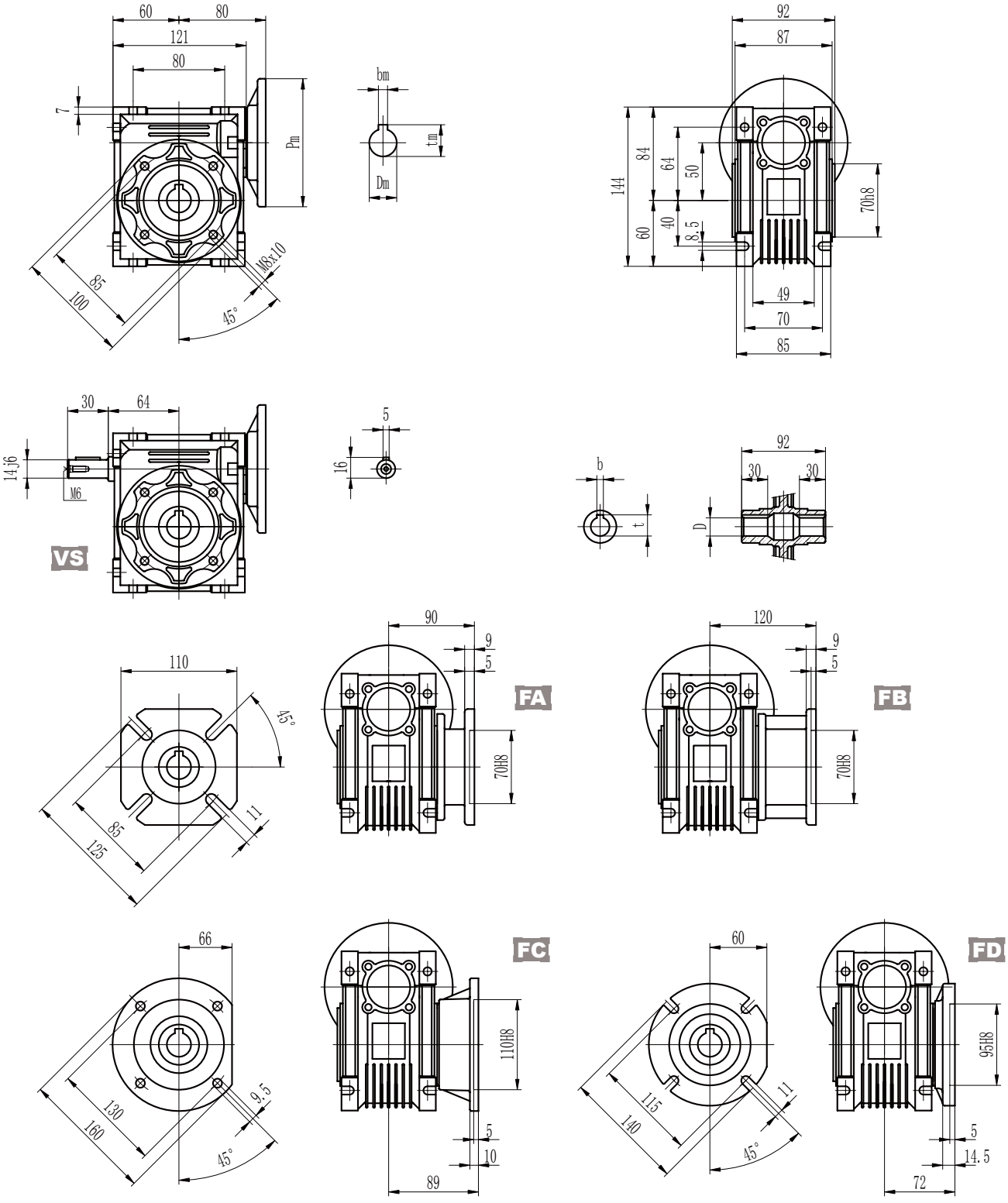
(D19) Only on request

Weight without motor: 2.3kg

For the dimensions concerning the motor mounting data (Pm,Dm,bm,tm) please refer to the table shown at page 53

Dimensions

NMRV050



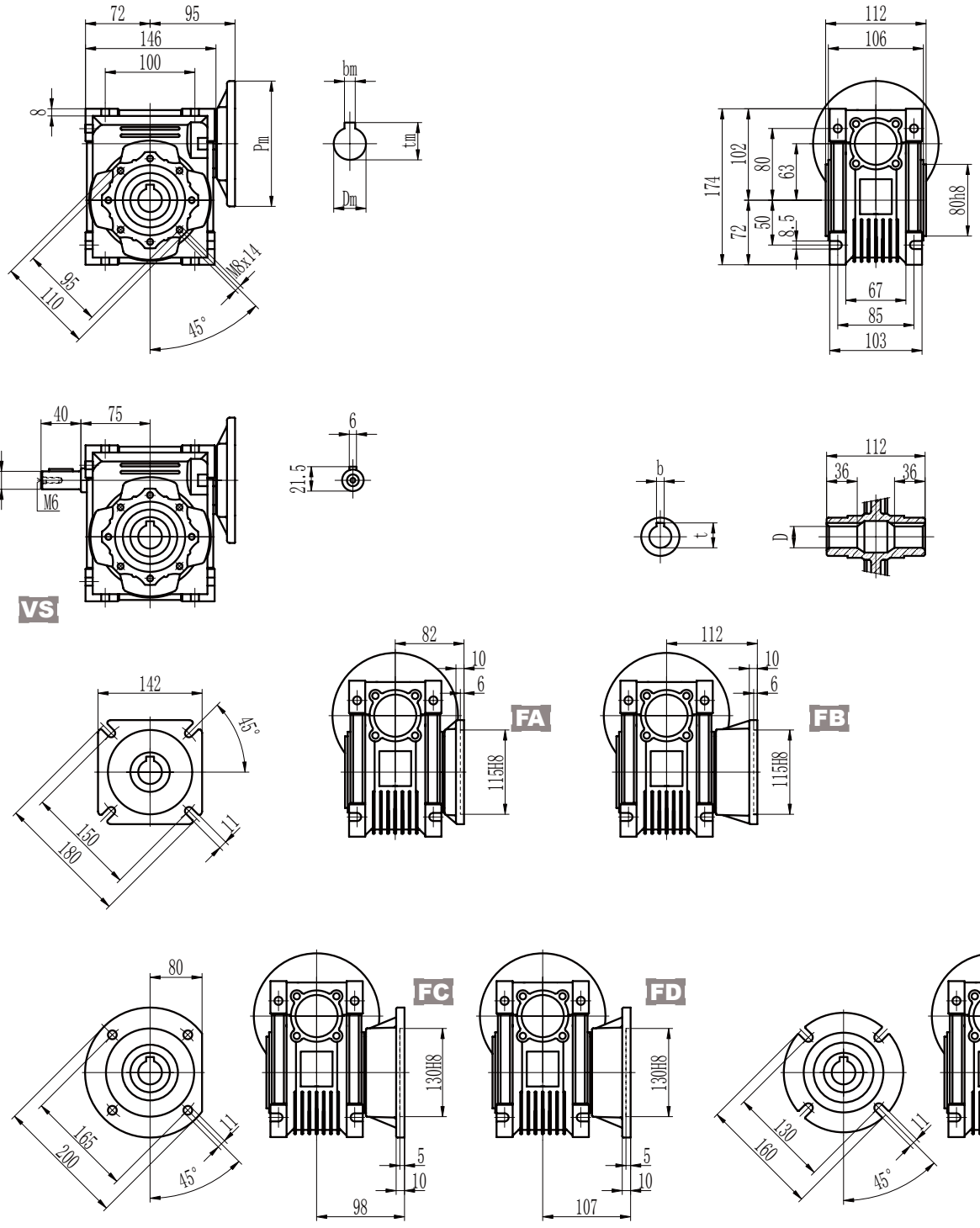
Output		
D H8	b	t
25 (24)	8 (8)	28.3 (27.3)

(D 24) Only on request

Weight without motor: 3.5kg

For the dimensions concerning the motor mounting data (Pm, Dm, bm, tm) please refer to the table shown at page 53

Dimensions
NMRV063



Output		
D H8	b	t
25 (28)	8 (8)	28.3 (31.3)

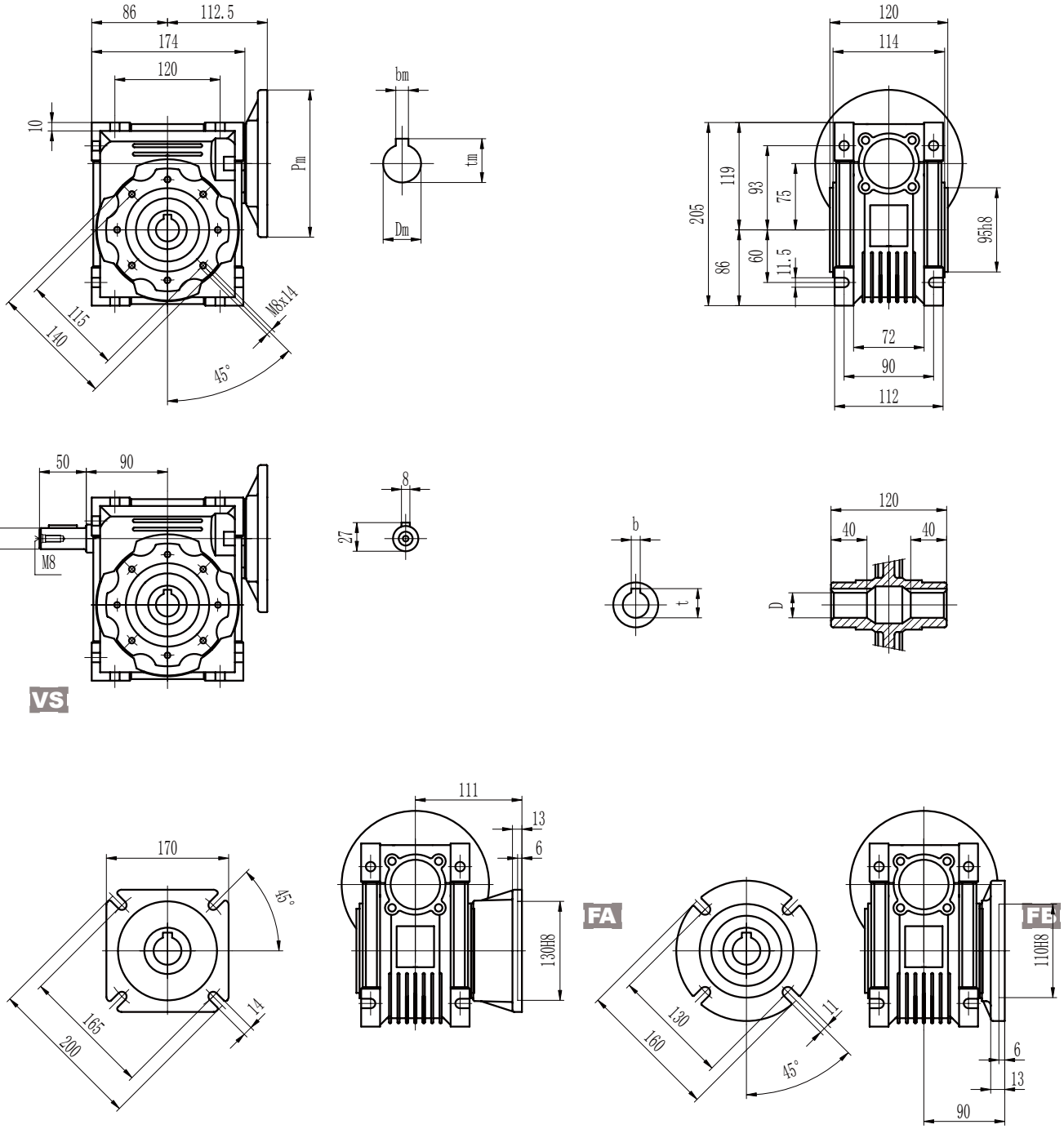
(D 28) Only on request

Weight without motor: 6.2kg

For the dimensions concerning the motor connection data (Pm, Dm, bm, tm) please refer to the table shown at page 53

Dimensions

NMRV075



Output		
D H8	b	t
28 (35)	8 (10)	31.3 (38.3)

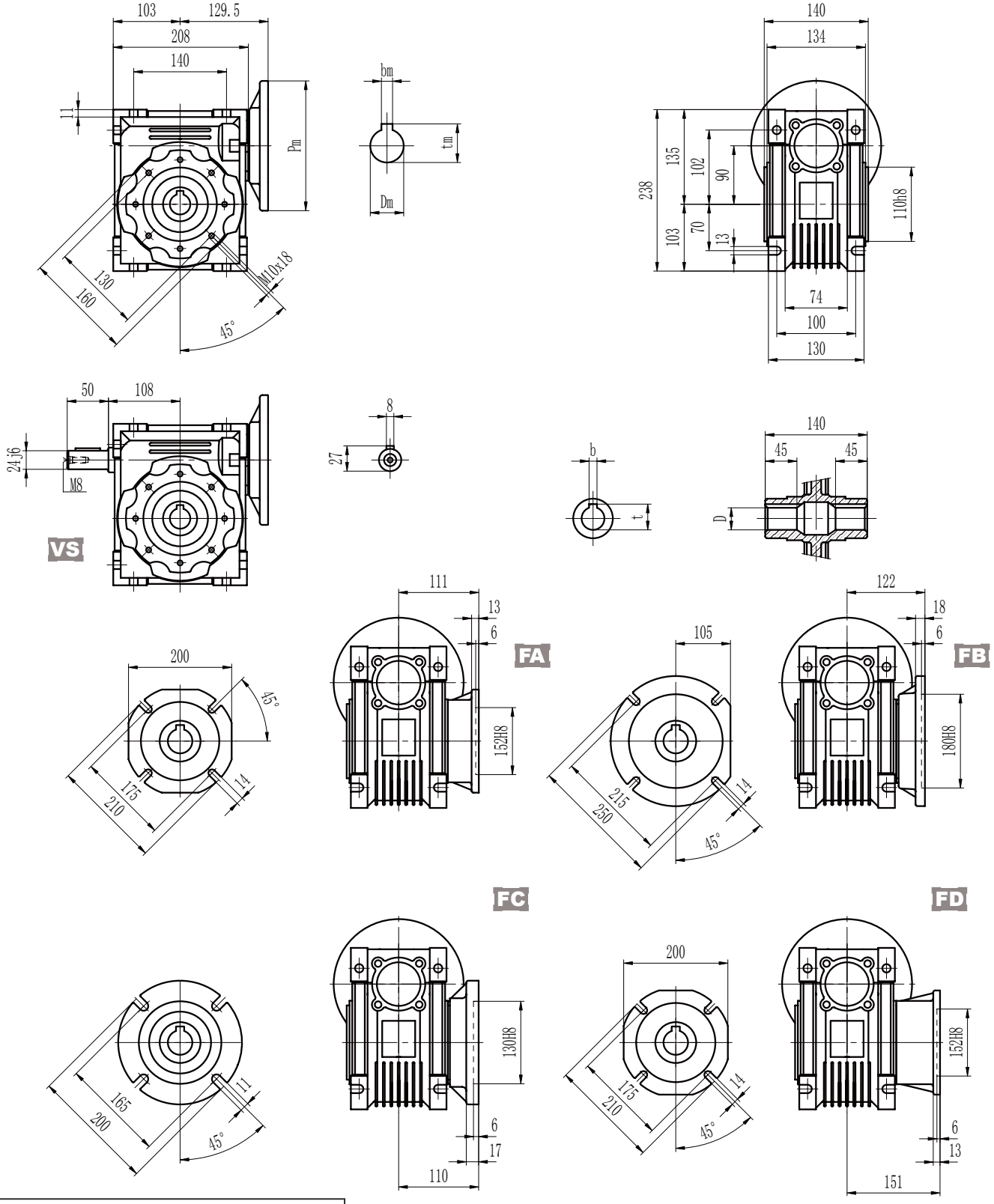
(D 35) Only on request

Weight without motor: 9kg

For the dimensions concerning the motor connection data (Pm, Dm, bm, tm) please refer to the table shown at page 53

Dimensions

NMRV090



Output		
D H8	b	t
35 (38)	10 (10)	38.3 (41.3)

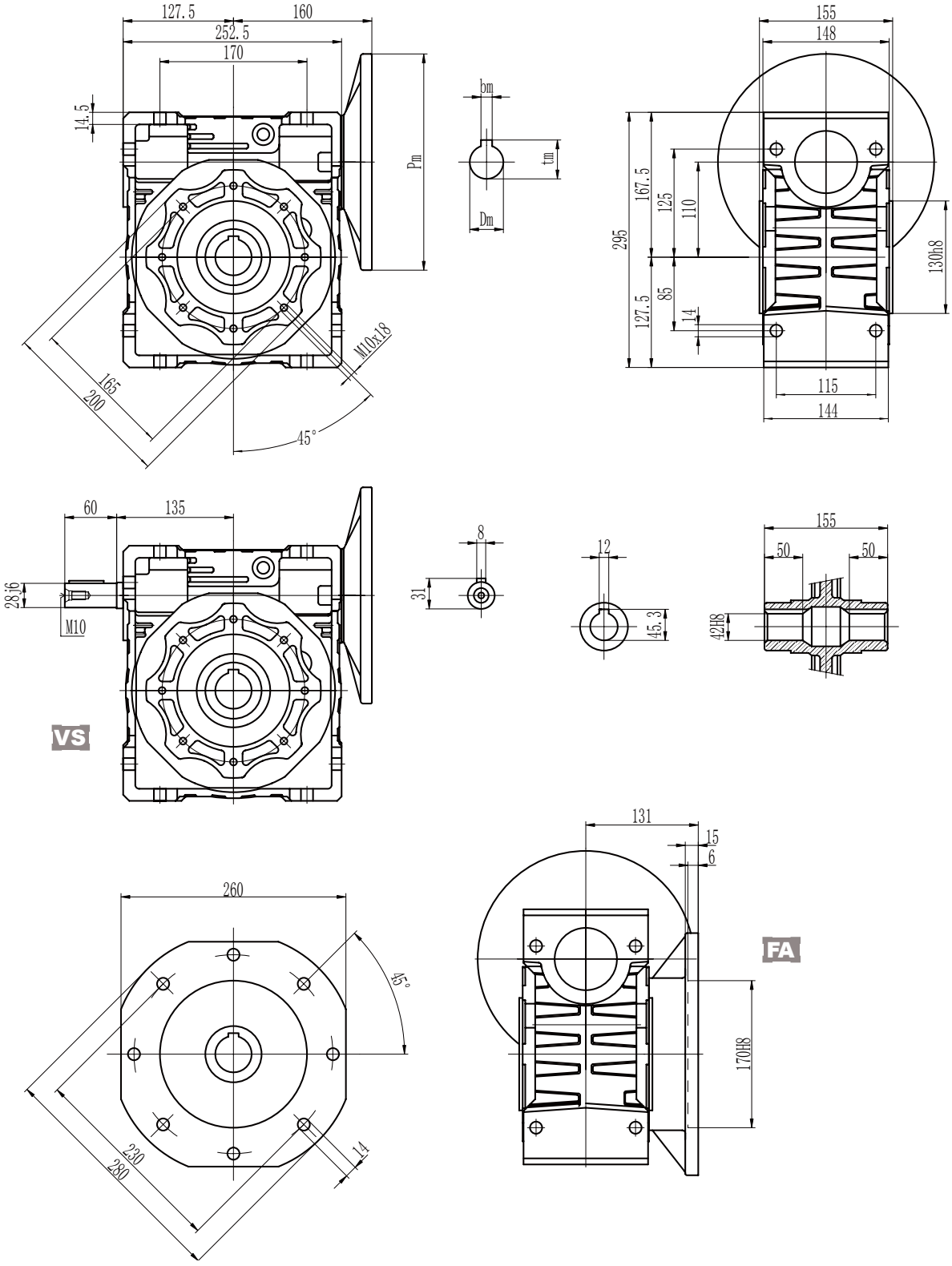
(D 38) Only on request

Weight without motor: 13kg

For the dimensions concerning the motor connection data (Pm, Dm, bm, tm) please refer to the table shown at page 53

Dimensions

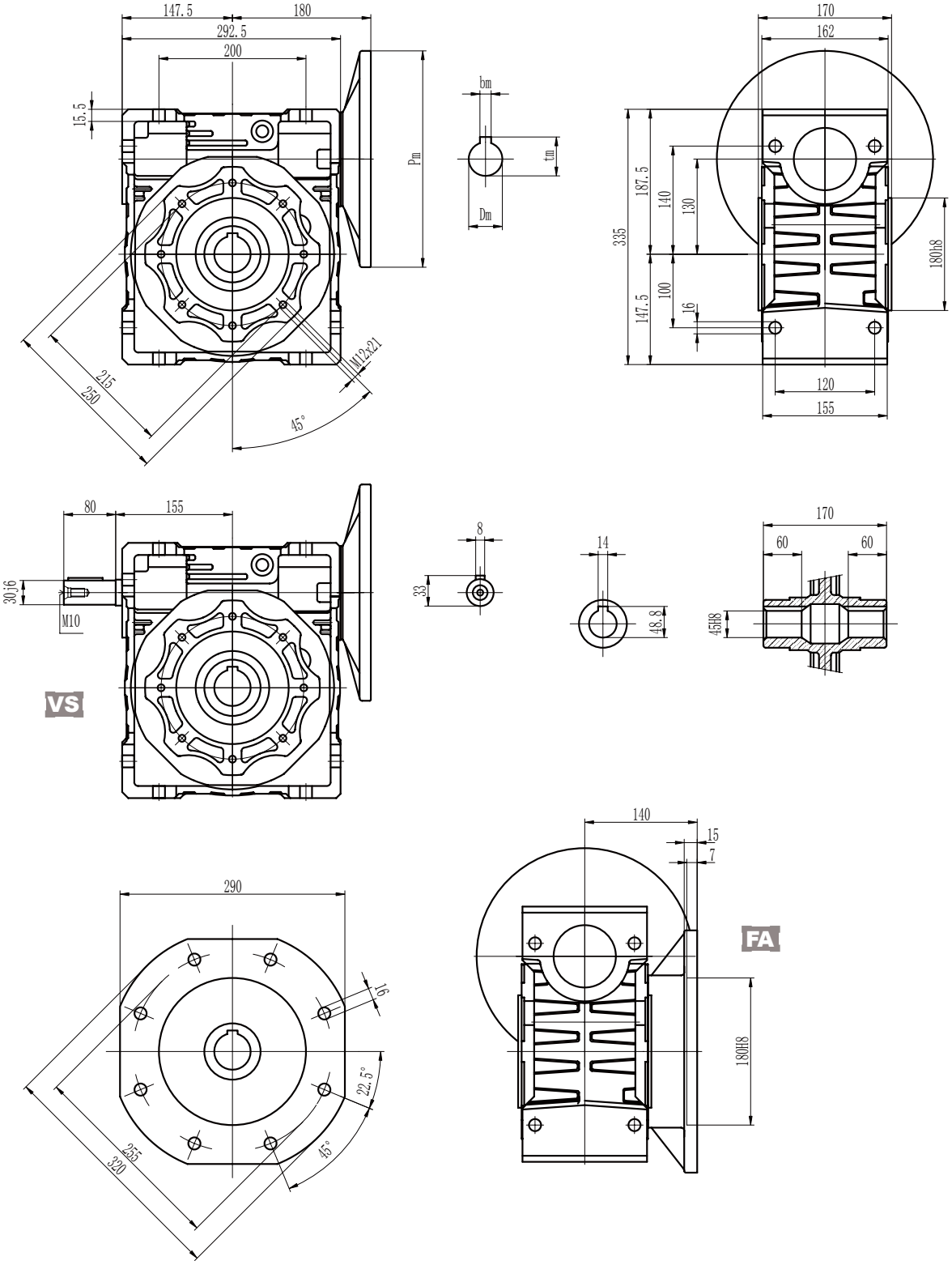
NMRV110



Weight without motor: 35kg

For the dimensions concerning the motor connection data (Pm, Dm, bm, tm) please refer to the table shown at page 53

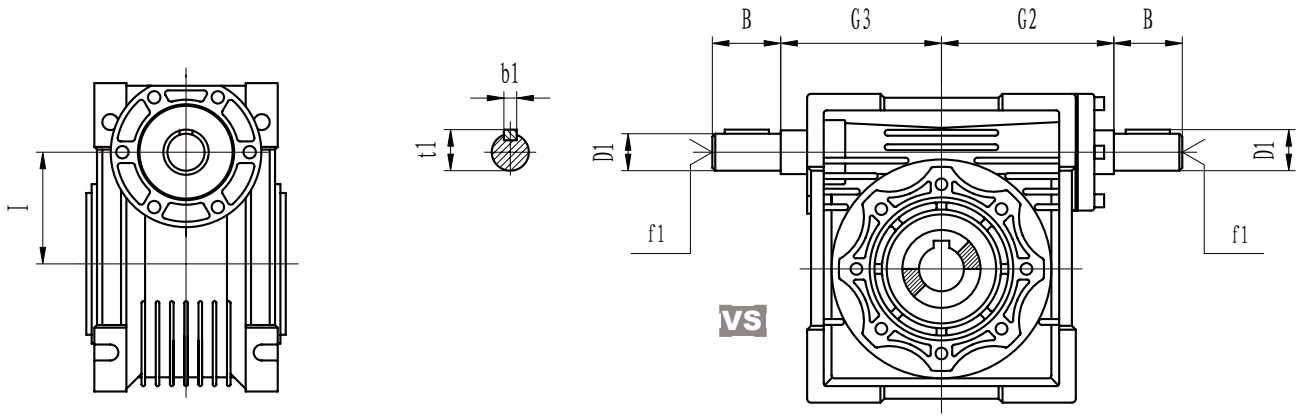
Dimensions
NMRV130



Weight without motor: 48kg

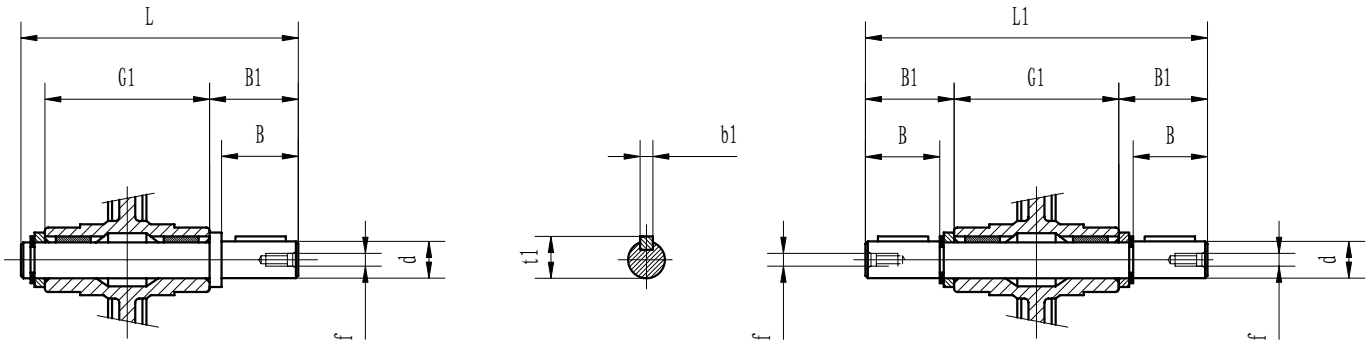
For the dimensions concerning the motor connection data (Pm, Dm, bm, tm) please refer to the table shown at page 53

Dimensions
NRV



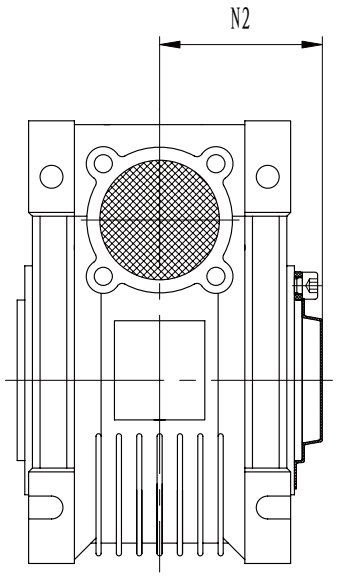
NRV	025	030	040	050	063	075	090	110	130
B	20	20	23	30	40	50	50	60	80
D1	9 j6	9 j6	11 j6	14 j6	19 j6	24 j6	24 j6	28 j6	30 j6
G2	38	51	60	74	90	105	125	142	162
G3	37	45	53	64	75	90	108	135	155
I	25	30	40	50	63	75	90	110	130
b1	3	3	4	5	6	8	8	8	8
f1	–	–	–	M6	M6	M8	M8	M10	M10
t1	10.2	10.2	12.5	16	21.5	27	27	31	33

Low speed shafts



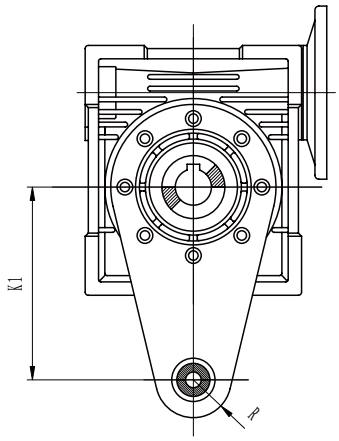
	d	B	B1	G1	L	L1	f	b1	t1
025	11g6 (9)	23 (25)	25.5 (30)	50	81 (85.5)	101	–	4 (3)	12.5 (10.2)
030	14g6	30	32.5	63	102	128	M6	5	16
040	18h6	40	43	78	128	164	M6	6	20.5
050	25h6	50	53.5	92	153	199	M10	8	28
063	25h6	50	53.5	112	173	219	M10	8	28
075	28h6	60	63.5	120	192	247	M10	8	31
090	35h6	80	84.5	140	234	309	M12	10	38
110	42h6	80	84.5	155	249	324	M16	12	45
130	45h6	80	85	170	265	340	M16	14	48.5

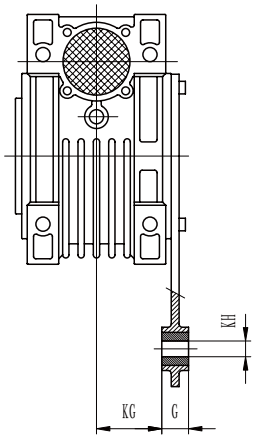
Cover



	N2
030	42
040	50
050	58
063	69
075	74
090	86
110	94
130	102

Torque arm





	K1	G	KG	KH	R
025	70	14	17.5	8	15
030	85	14	24	8	15
040	100	14	31.5	10	18
050	100	14	38.5	10	18
063	150	14	49	10	18
075	200	25	47.5	20	30
090	200	25	57.5	20	30
110	250	30	62	25	35
130	250	30	69	25	35

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