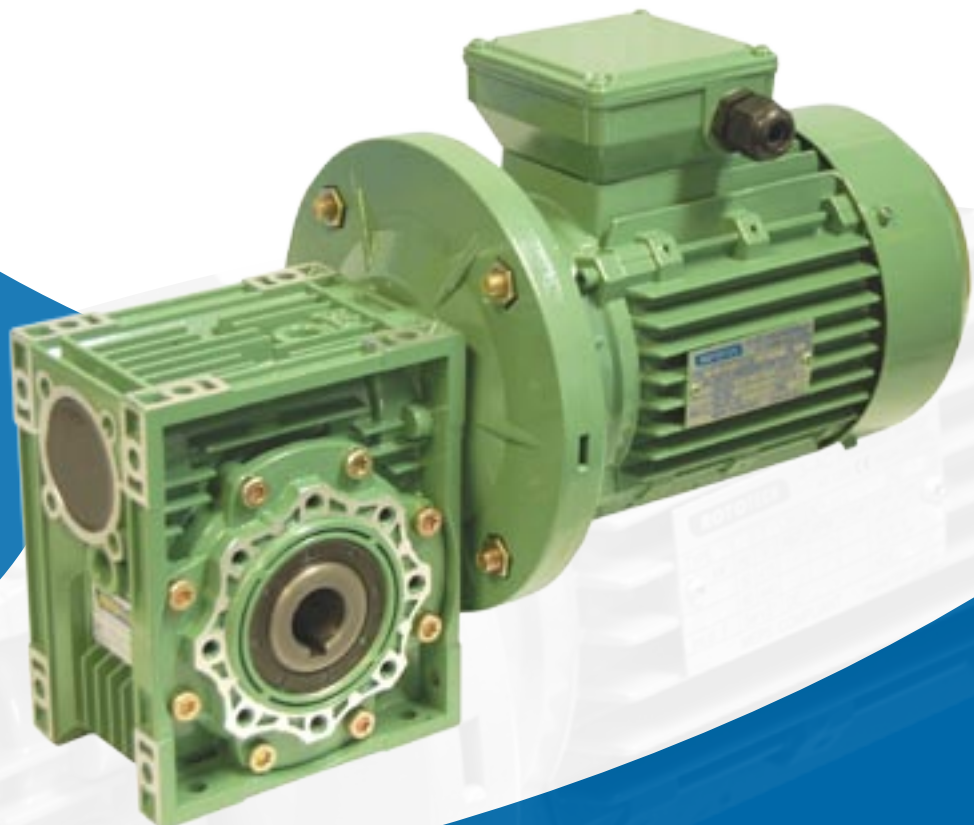


- MODULAR
- QUALITY
- COMPACT DESIGN
- QUIET OPERATION



WORMGEAR REDUCERS

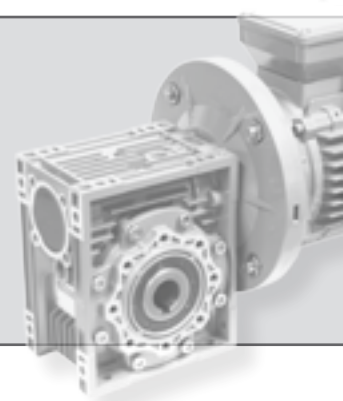
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Legend

P = Power (kW)
 M = Torque (Nm)
 n = Speed (rpm)
 i = Ratio
 F = Load (N)
 m = Weight (kg)
 η = Efficiency
 γ = Helix angle
 f.s. = Service factor

1 = Input shaft
 2 = Output shaft
 r = Radial
 a = Axial
 s = Statical
 d = Dynamic
 max =Maxima
 min =Minimum



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, $f_a \leq 0.3$

B-moderate load, $f_a \leq 3$

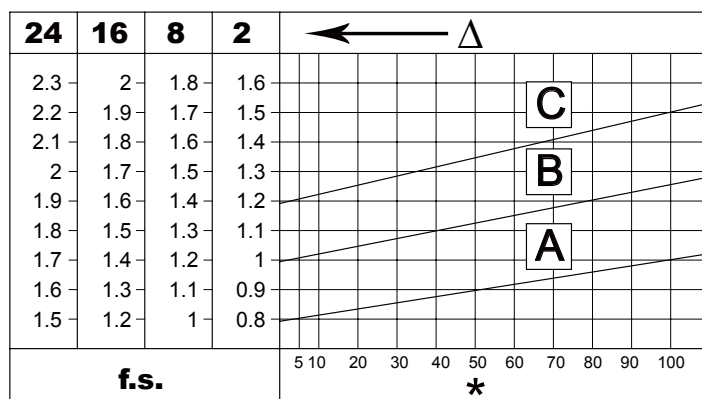
C-heavy load, $f_a \leq 10$

$f_a = J_{ex}/J_m$

$J_{ex}(\text{kgm}^2)$ moment of the external inertia reduced at the drive shaft

$J_m(\text{kgm}^2)$ moment of inertia of motor

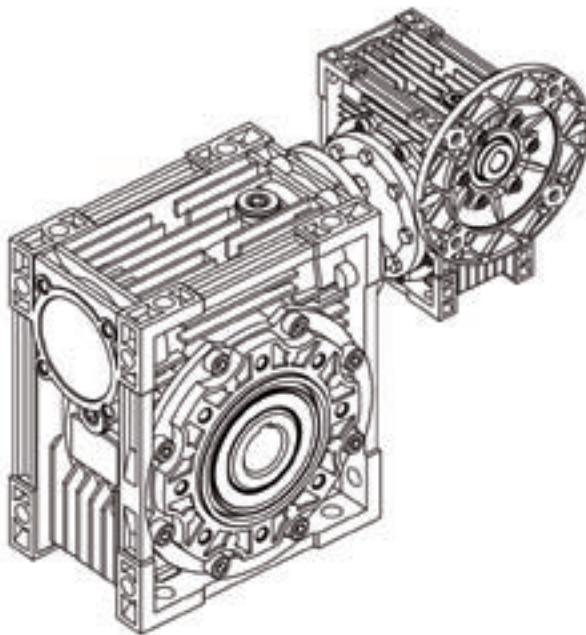
Note: please contact Rototech when $f_a > 10$



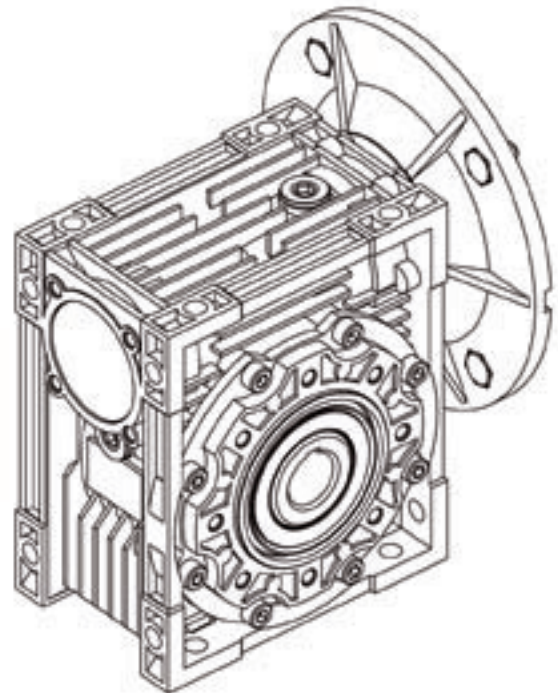
Installation

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 flexibility). 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 from direct sunlight and any other bad weather.
6. Ensure ventilating conditions are adequate.
7. In the case of ambient temperatures $< -5^{\circ}\text{C}$ or $> +40^{\circ}\text{C}$, 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.

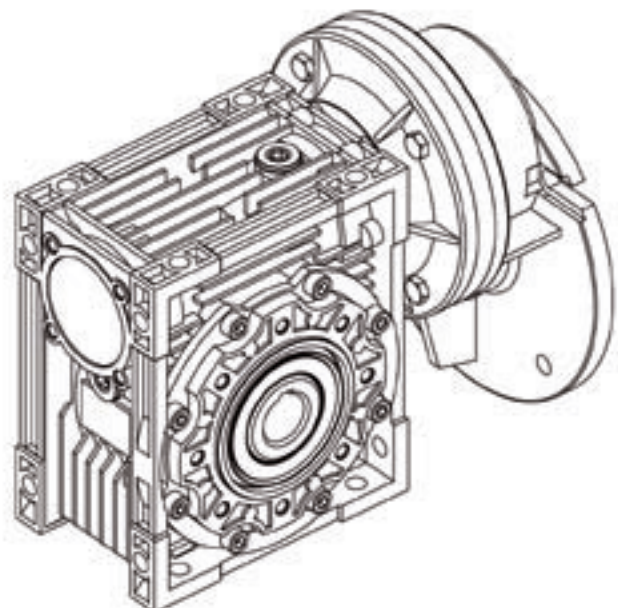
Worm Gear Motors & Reducers



NMRV+NMRV

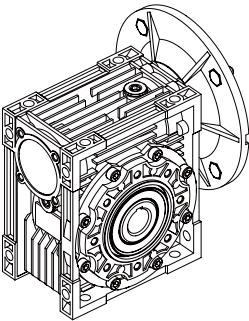
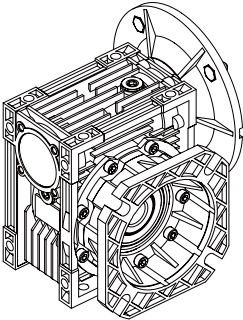
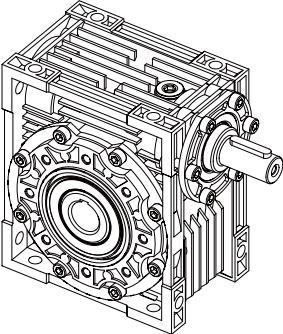
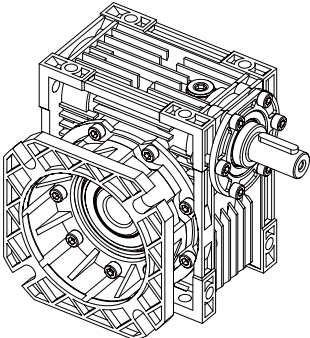
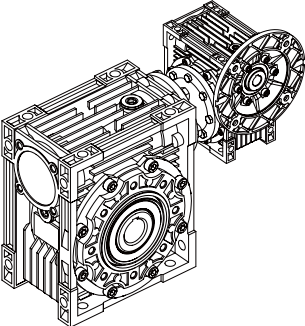
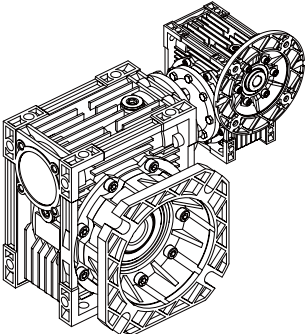
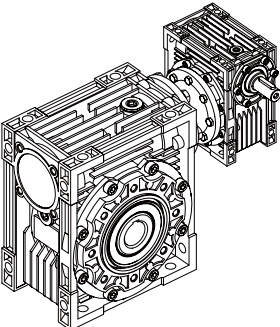
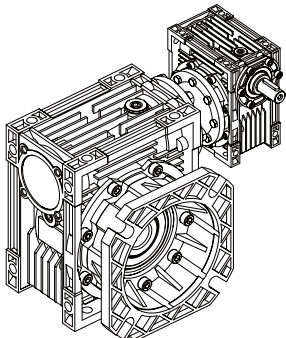
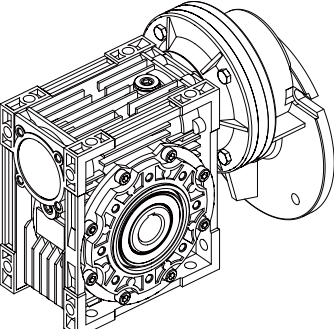
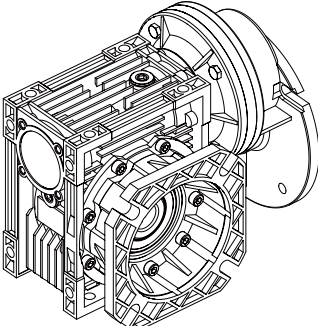


NMRV

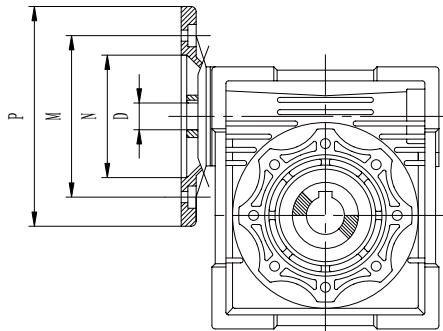


PC+NMRV

Versions

	NMRV 025-130	NMRV 025-130 F	
	NRV 025-130	NRV 025-130 F	
	NMRV-NMRV 025-130	NMRV-NMRV 025-130 F	
	NRV-NMRV 025-130	NRV-NMRV 025-130 F	
	PC-NMRV 063/040-090/130	PC-NMRV 063/040-090/130 F	

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

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		
	γ	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		
	η d	0.86	0.84	0.82	0.78	0.74		0.66	0.61	0.57	0.54		
	η s	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	
	γ	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	
	η d	0.86	0.84	0.81	0.76	0.72	0.67	0.64	0.58	0.54	0.50	0.44	
	η s	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
	γ	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
	η d	0.88	0.86	0.85	0.81	0.77	0.74	0.69	0.64	0.61	0.57	0.51	0.47
	η s	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
	γ	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
	η d	0.87	0.86	0.84	0.8	0.77	0.74	0.7	0.65	0.61	0.57	0.51	0.49
	η s	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
	γ		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
	η d		0.87	0.86	0.82	0.8	0.77	0.73	0.69	0.65	0.61	0.56	0.5
	η s		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
	γ		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
	η d		0.88	0.87	0.84	0.81	0.79	0.75	0.71	0.68	0.64	0.59	0.54
	η s		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
	γ		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
	η d		0.89	0.88	0.85	0.83	0.81	0.77	0.74	0.71	0.68	0.62	0.58
	η s		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
	γ		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
	η d		0.89	0.88	0.85	0.84	0.83	0.78	0.77	0.74	0.71	0.66	0.62
	η s		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
	γ		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
	η d		0.9	0.88	0.86	0.85	0.83	0.79	0.77	0.74	0.71	0.67	0.63
	η s		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. η d(1400)....dynamic efficiency at n1=1400 η s....static efficiency
i....ratio Z1:Worm teeth number γ: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	NMRV025	439	24
	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		697	
	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	NMRV030	597	25
	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		1021	
	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	NMRV025/030	1620	48
	9.3	32	0.9	150		1830	
	7	41	0.7	200		1830	
	5.6	44	0.8	250		1830	
	4.7	59.1	1.2	300	NMRV025/040	3490	48
	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		3490	
	0.9	197	0.3	1500		3490	
	0.8	217	0.3	1800	NMRV030/040	3490	48
	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		3490	
	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	NMRV030/050	3490	49
	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		4840	
	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	NMRV030/063	6270	49
	0.78	225	0.9	1800		6270	
	0.58	276	0.8	2400		6270	
	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	NMRV040/075	7380	49
	0.47	377	0.8	3000		7380	
	0.35	355	0.7	4000		7380	
	0.28	419	0.5	5000		7380	
	0.5	405.9	1.4	3000	NMRV040/090	8180	50
	0.35	365	1.3	4000		8180	
	0.28	431	1	5000		8180	
0.09	280	2.7	4.1	5	NMRV025	439	24
	186.7	3.9	2.8	7.5		503	
	140	5.1	2.4	10		553	
	93.3	7.3	1.6	15		633	
	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	NMRV030	597	25
	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		948	
	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	NMRV025/030	1620	48
	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		1830	
	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	NMRV040	2475	26
	23.3	21	1.7	60		2630	
	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	NMRV030/050	4840	49
	2.8	123	1	500		4840	
	2.3	159	0.9	600		4840	
	1.9	185	0.8	750		4840	
	1.6	212	0.7	900		4840	
	1.6	200	1	900	NMRV030/063	6270	49
	1.2	263	0.9	1200		6270	
	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	NMRV040/075	7380	49
	0.78	404	1	1800		7380	
	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	NMRV030	597	25
	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		948	
	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	NMRV040	2087	26
	35	21	1.9	40		2298	
	28	25	1.5	50		2475	
	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	PC063+NMRV040	2833	42
	15.9	45	1.2	88		3011	
	11.9	56	0.9	117.3		3314	
	9.5	64.6	0.7	146.7		3490	
	7.9	73	0.6	176		3490	
	23.3	29	2.3	60	NMRV050	3610	27
	17.5	35	1.9	80		3973	
	14	40	1.4	100		4280	
	9.5	66	1.3	146.7	PC063+NMRV050	4840	42
	7.9	74	1.1	176		4840	
	6.0	85	0.8	234.6		4840	
	4.8	96	0.7	293.3		4840	
	4.7	118.8	1.2	300	NMRV030/050	4840	49
	3.5	142	0.9	400		4840	
	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	NMRV030/063	6270	49
	2.3	208	1.1	600		6270	
	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	NMRV050/110	10320	50
	0.35	784	1	4000		10320	
	0.28	928	0.8	5000		10320	
0.18	280	5.3	3.4	5	NMRV030	597	25
	186.7	7.8	2.3	7.5		683	
	140	10	1.8	10		752	
	93.3	14	1.3	15		861	
	70	18	1	20		948	
	56	21	1	25		1021	
	46.7	24	0.8	30		1085	
	70	19.2	2	20	NMRV040	1824	26
	56	23	1.7	25		1964	
	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
	15.9	69	0.8	88		3011	
	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
	1.9	435	0.9	750		7380	
	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
	23.3	53	1.3	60		3610	
	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	
	15.9	96	1.1	88.1	PC071+NMRV050	4132	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		6130	
	14	94	1.9	100	NMRV075	6603	29
	9.5	148	1.7	146.9		7380	
	7.9	170	1.4	176.3		7380	
	6.0	195	1.1	235	PC071+NMRV075	7380	43
	4.8	225	0.9	293.8		7380	
	3.5	336.3	1.1	400		7380	
	2.8	384	0.8	500	NMRV040/075	7380	49
	2.3	511.8	1.2	600		8180	
	1.9	598	0.9	750	NMRV040/090	8180	50
	1.6	667	0.8	900		8180	
	1.2	943	1.3	1200		10320	
	0.93	1064	1.2	1500	NMRV050/110	10320	50
	0.78	1195	1.1	1800		10320	
	0.6	1624	1	2400		13500	
	0.47	1935	0.8	3000		13500	
	0.35	2046	0.6	4000	NMRV063/130	13500	50
	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		2696	
	46.7	55	1.5	30	NMRV050	2865	27
	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		4122	
	28	83	1.6	50	NMRV063	4440	28

Performance

P1 (kW)	n2 (1/min)	M2 (Nm)	f. s.	i	Type	Fr2 (N)	Page
0.37	23.3	94	1.4	60	NMRV063	4719	28
	17.5	115	1.1	80		5193	
	14	129	0.9	100		5595	
	19.1	131	1.2	73.4	PC071+NMRV063	5083	43
	15.9	145	1.4	88.1		5401	
	11.9	182	1	117.5		5945	
	9.5	208	0.8	146.9		6270	
	23.3	98.4	2	60	NMRV075	5569	29
	17.5	121	1.6	80		6130	
	14	139	1.3	100		6603	
	19.1	135	1.8	73.4	PC071+NMRV075	6000	43
	15.9	151	1.9	88.1		6375	
	11.9	188	1.5	117.5		7017	
	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	PC071+NMRV090	8180	43
	6.0	312	1.1	235		8180	
	4.8	363	0.9	293.8		8180	
	4.7	401.8	1.5	300	NMRV040/090	8180	50
	3.5	523	1.2	400		8180	
	2.8	611	0.9	500		8180	
	2.3	757	0.8	600		8180	
	1.9	949.5	1.3	750	NMRV050/110	10320	50
	1.6	1079	1.2	900		10320	
	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	NMRV040	1149	26
	186.7	24	1.6	7.5		1315	
	140	32	1.3	10		1447	
	93.3	46	0.9	15		1657	
	280	16.7	3.7	5	NMRV050	1577	27
	186.7	25	2.9	7.5		1805	
	140	32	2.2	10		1987	
	93.3	46	1.6	15		2274	
	70	59	1.2	20		2503	
	56	71	1	25		2696	
	46.7	81	1	30		2865	
	70	60.8	2.2	20	NMRV063	3272	29
	56	73	1.8	25		3524	
	46.7	83	1.9	30		3745	
	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	NMRV075	4865	29
	28	129	1.6	50		5241	
	23.3	146	1.4	60		5569	
	17.5	180	1.1	80		6130	
	14	206	0.9	100		6603	
	19.1	201	1.2	73.4	PC071+NMRV075	6000	43
	15.9	229	1.3	88.1		6375	
	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
	5.8	513	1.3	240		10320	
	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
	1.9	1471	1.2	750		13500	
	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	NMRV075	4122	29
	56	102.3	2	25		4160	
	46.7	117	2	30		4421	
	35	147	1.5	40		4865	
	28	177	1.2	50		5241	
	23.3	200	1	60	PC080+NMRV075	5569	44
	18.7	280.1	0.9	75		6000	
	15.6	313	1	90	NMRV090	6375	30
	28	184.2	1.8	50		5799	
	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	NMRV063/130	13500	50
	1.9	2005	0.9	750		13500	
	1.6	2283	0.8	900		13500	
1.1	186.7	49.5	2.6	7.5	NMRV063	2359	28
	140	65	2	10		2597	
	93.3	93	1.5	15		2973	
	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	NMRV075	3509	29
	70	123	1.7	20		3862	
	56	150	1.3	25		4160	
	46.7	171	1.3	30		4421	
	35	216	1	40		4865	
	35	225.1	1.6	40	NMRV090	5383	30
	28	270	1.3	50		5799	
	23.3	311	1	60		6163	
	28	281.4	2.3	50	NMRV110	7328	31
	23.3	324	1.9	60		7787	
	17.5	402	1.3	80		8571	
	14	473	1	100		9232	
	19	398	2.5	73.6	PC090+NMRV110	8298	44
	14.3	515	1.8	98.2		9133	
	11.4	609	1.5	122.7		9838	
	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	PC090+NMRV130	10853	44
	14.3	515	2.6	98.2		11945	
	11.4	619	2	122.7		12868	
	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	NMRV063/130	13500	50
	3.5	1671	1	400		13500	
	2.8	1991	0.8	500		13500	
1.5	186.7	67.5	1.9	7.5	NMRV063	2359	28
	140	89	1.5	10		2597	
	93.3	127	1.1	15		2973	
	70	166	0.8	20		3272	
	140	90	2.2	10	NMRV075	3065	29
	93.3	130	1.5	15		3509	
	70	168	1.3	20		3862	
	56	205	1	25		4160	
	46.7	233	1	30		4421	
	70	171.9	2.1	20	NMRV090	4273	30
	56	210	1.6	25		4603	
	46.7	239	1.7	30		4891	
	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	NMRV110	6803	31
	28	384	1.7	50		7328	
	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
	140	132	1.5	10		3065	
	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	NMRV130	7787	32
	35	468.2	2.2	40		8897	
	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
	140	180	1.1	10		3065	
	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	NMRV130	7328	32
	56	429.8	2.2	25		7607	
	46.7	491	2.1	30		8084	
	35	638	1.6	40		8897	
	28	767	1.3	50		9584	
4	23.3	884	1	60		10185	
	17.5	1113	0.8	80		11210	
	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
	93.3	352	1.9	15		4905	
	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	NMRV130	7607	32
	46.7	655	1.6	30		8084	
	35	851	1.2	40		8897	
	28	1023	1	50		9584	
	23.3	1179	0.8	60		10185	
4.8	186.7	221	1.3	7.5	NMRV090	3081	30
	140	291	1.1	10		3391	
	93.3	422	0.9	15		3882	
	186.7	221	2.5	7.5	NMRV110	3893	31
	140	291	2.1	10		4285	
	93.3	422	1.6	15		4905	
	70	557	1.2	20		5399	
	56	688	1	25		5816	
	56	687.6	1.4	25	NMRV130	7607	32
	46.7	786	1.3	30		8084	
	35	1022	1	40		8897	
	28	1228	0.8	50		9584	
5.5	186.7	253.2	2.2	7.5	NMRV110	3893	31
	140	334	1.8	10		4285	
	93.3	484	1.4	15		4905	
	70	638	1	20		5399	
	140	333.9	2.5	10	NMRV130	5605	32
	93.3	490	1.9	15		6416	
	70	645	1.4	20		7062	
	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
	140	455	1.3	10		4285	
	93.3	660	1	15		4905	
	186.7	349.2	2.1	7.5	NMRV130	5092	32
	140	455	1.8	10		5605	
	93.3	668	1.4	15		6416	
	70	880	1	20		7062	
	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	NMRV130	5092	32
	140	559	1.5	10		5605	
	93.3	819	1.1	15		6416	
	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	NRV030	597	150	25
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		1021	210	
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	NRV040	1149	250	26
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		1964	350	
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	NRV050	1577	350	27
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		2696	490	
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	NRV063	2359	500	28
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		3745	700	
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	NRV075	2785	700	29
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		4421	980	
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

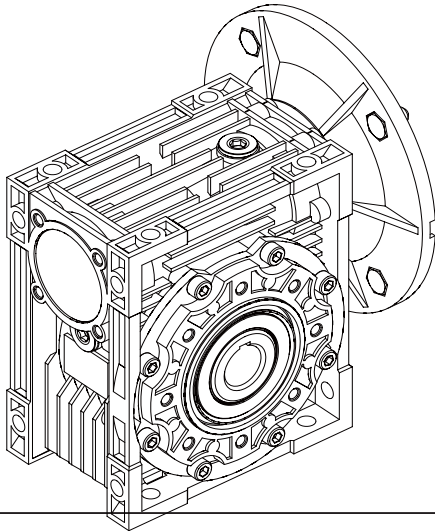
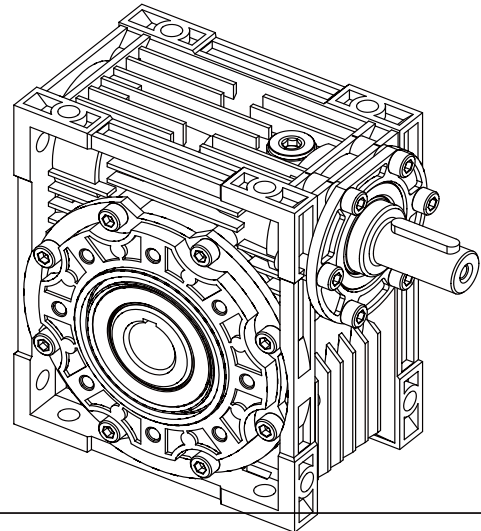
(n1=1400)

M2 (Nm)	i	P1 (kW)	n2 (1/min)	Type	Fr2 (N)	Fr1 (N)	Page
290	7.5	6.3	186.7	NRV090	3081	900	30
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		4891	1270	
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	NRV110	3893	1200	31
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		6181	1700	
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	NRV130	5092	1500	32
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		8084	2100	
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	

Notes

[illegible]

NMRV / NRV

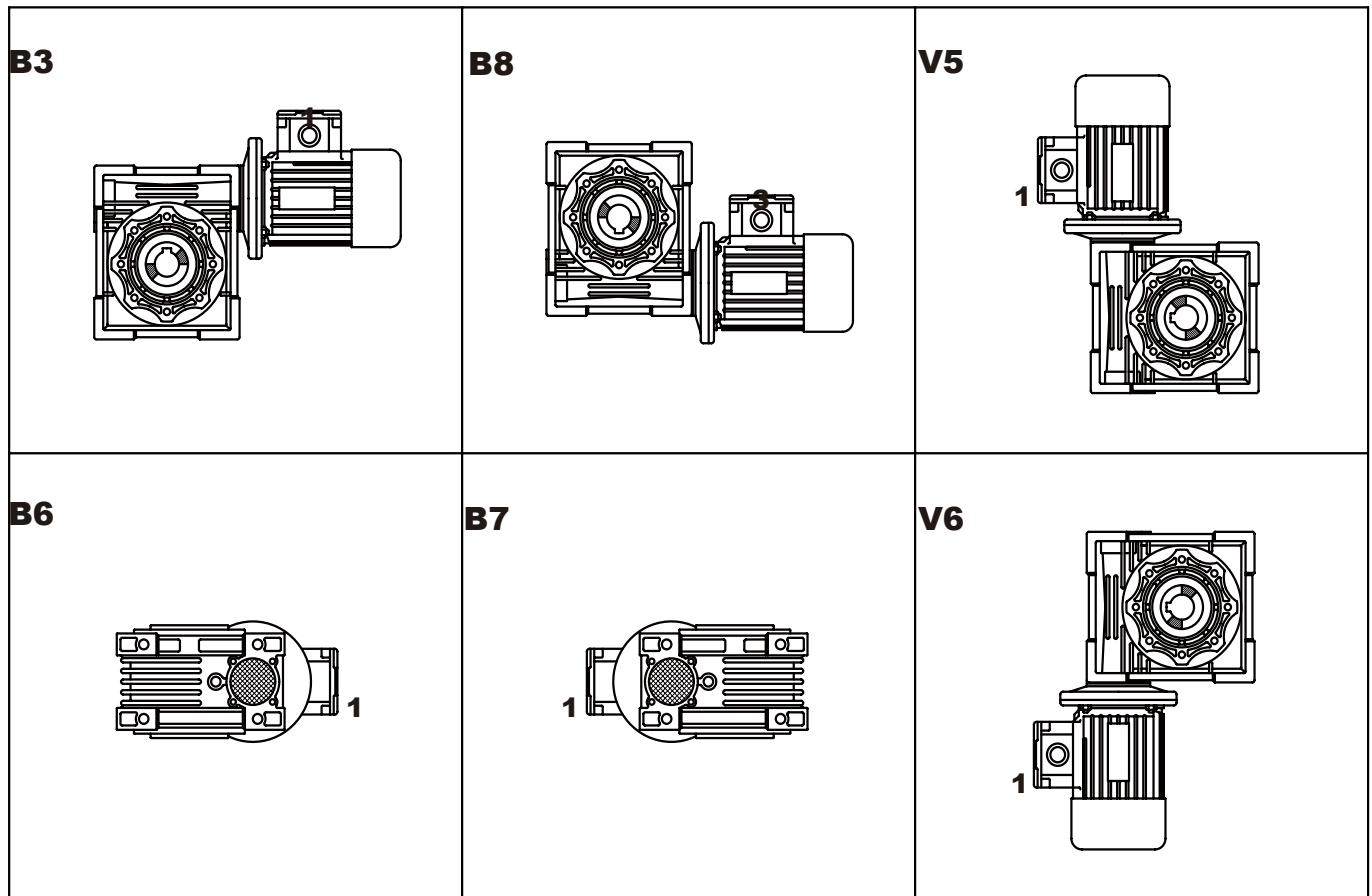
NMRV

NRV


NMRV model & marker

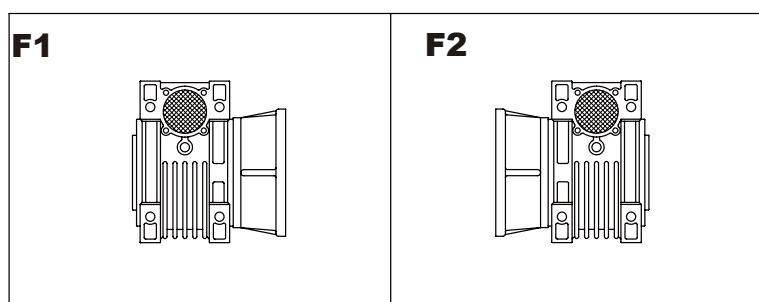
NMRV-063-30-VS-F1(FA)-AS-80B5-0.75kW-B3

NMRV	Worm geared motor		
NRV	Worm reduction unit		
063	Center distance		
30	Reduction ratio		
VS	Double input shaft	F1(FA)	Output flange
AS	Single output shaft	AB	Double output shaft
PAM	Fitted for motor coupling	80B5	Motor size & mounting position
0.75kW	Power of electric motor	B3	Mounting position

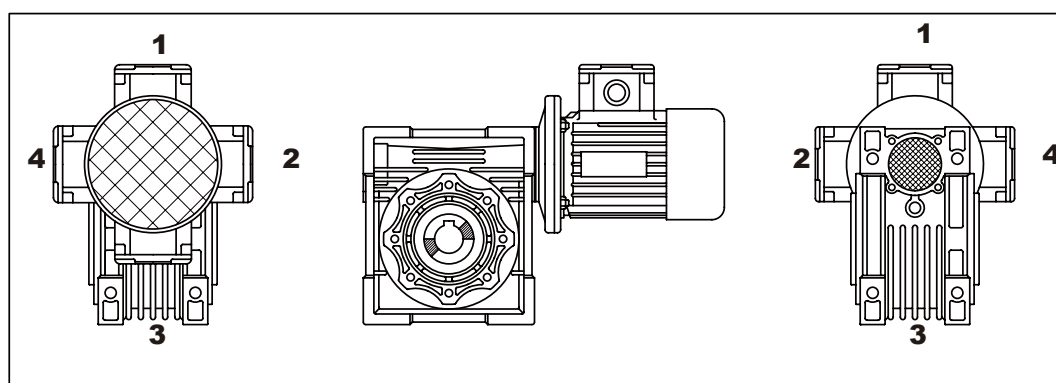
Mounting Positions



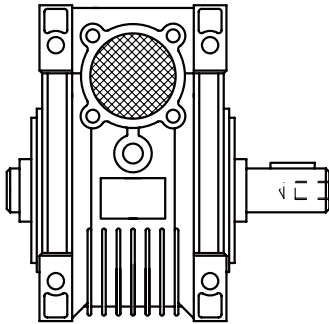
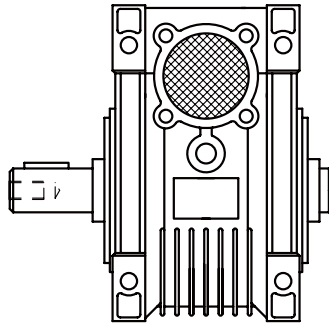
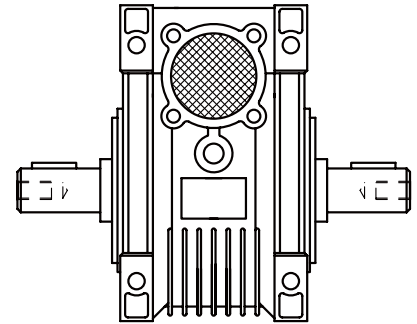
Flange F-FL



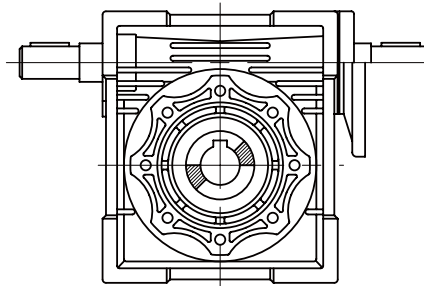
Position of terminal box



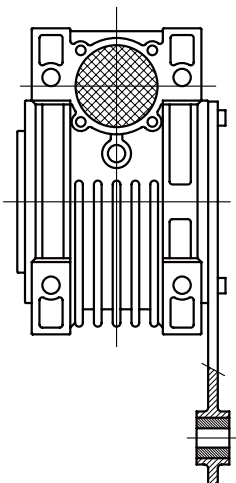
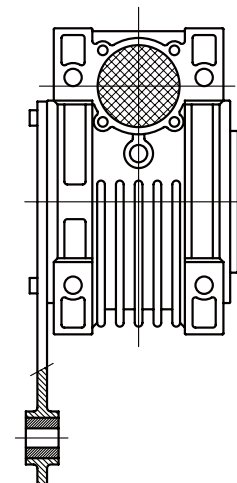
Position of Output Shaft

AS1

AS2

AB


Double extension worm shaft

VS


Positon of torque arm

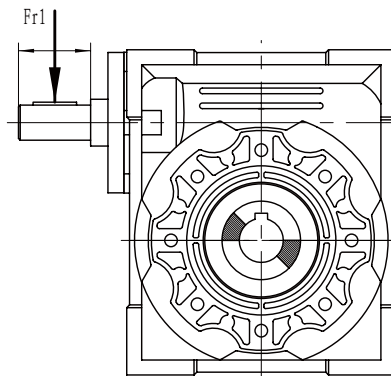
A1

A2


Choice of Lubrication

Q. ty of oil in litres									
NMRV	025	030	040	050	063	075	090	110	130
B3								3	4.5
B8								2.2	3.3
B6-B7								2.5	3.5
V5								3	4.5

Oil Type Used	IP	TELUM 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



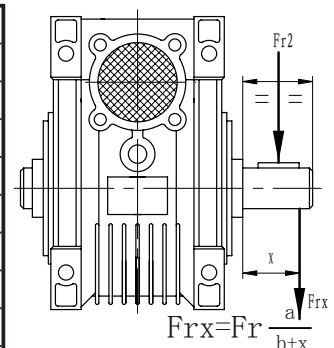
(N)

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

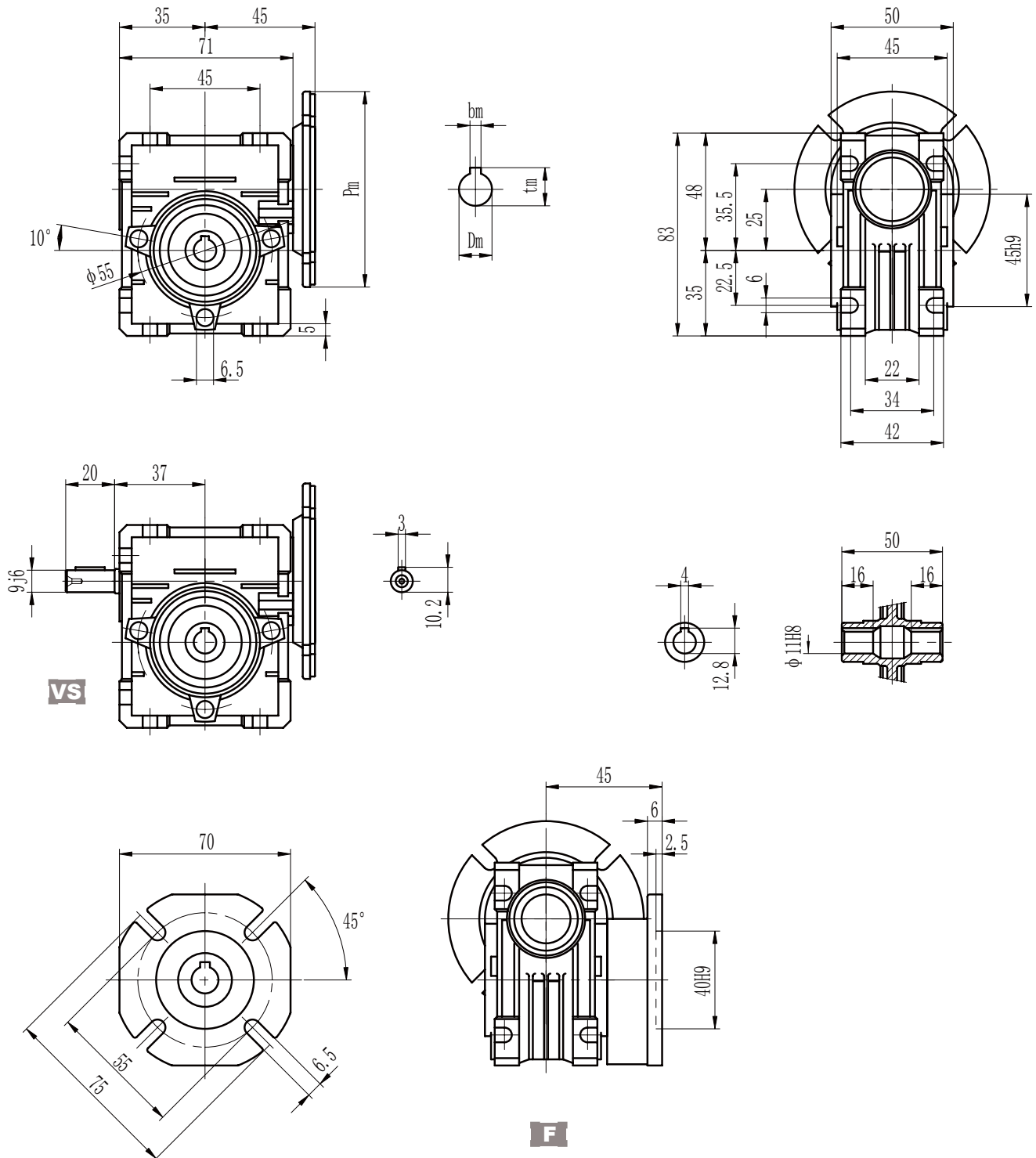
(N)

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.

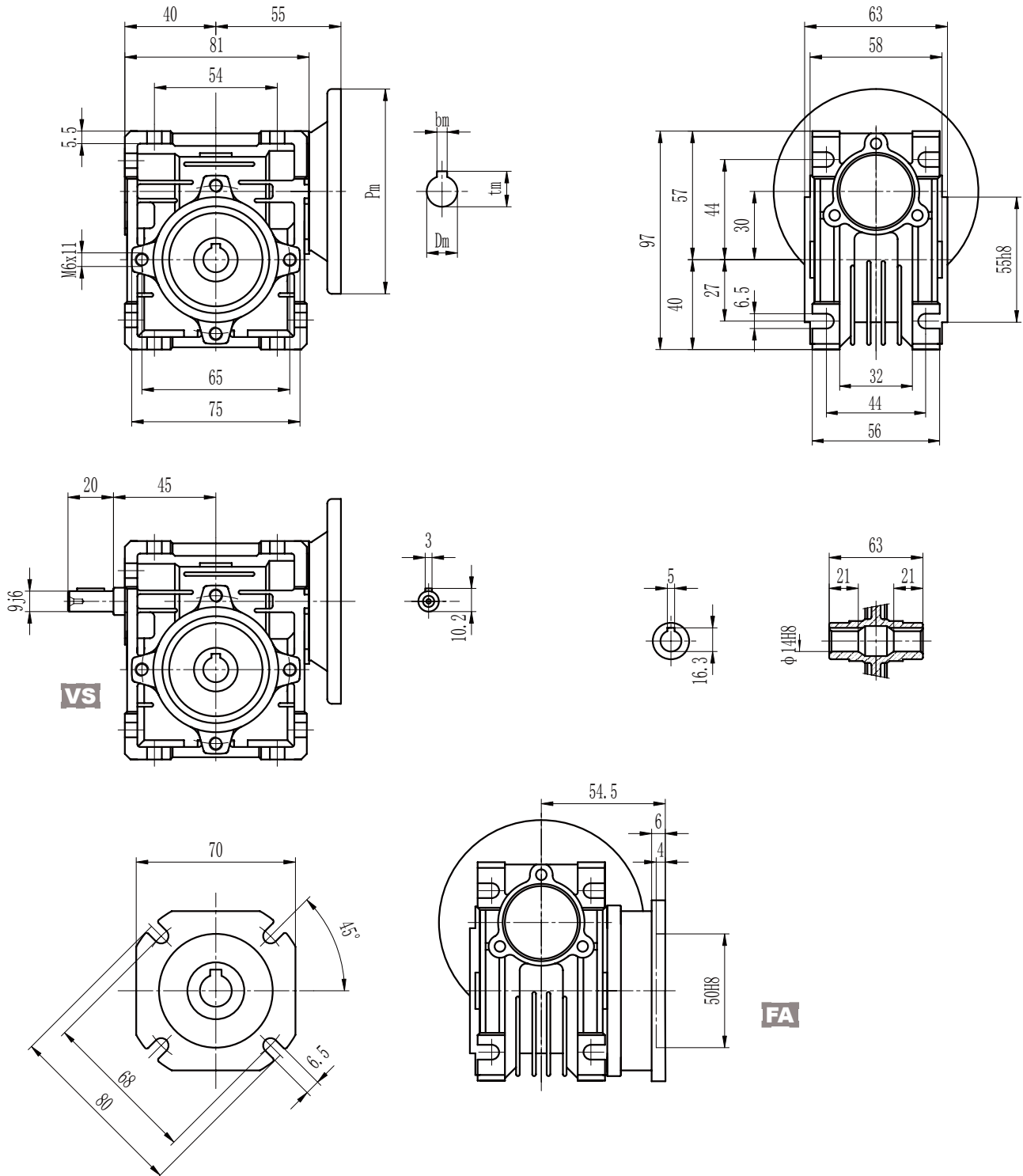
Dimensions NMRV025



Weight without motor: 0.7kg

For the dimensions concerning the motor mounting data (P_m , D_m , b_m , t_m) please refer to the table shown at page 53

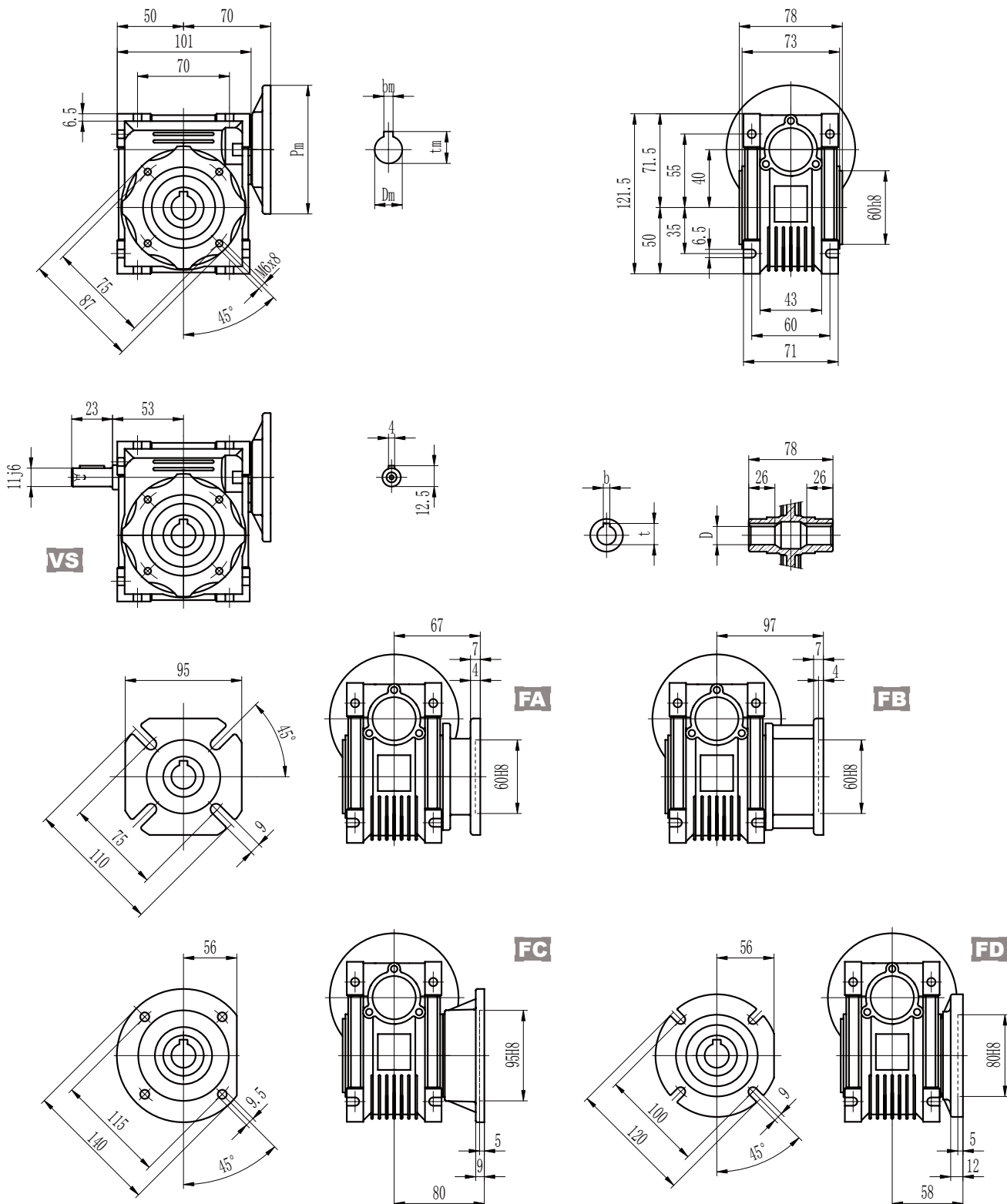
Dimensions NMRV030



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



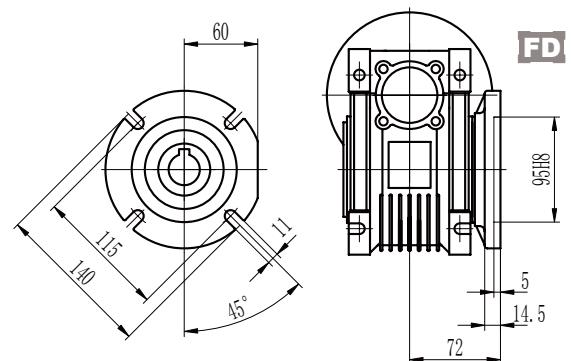
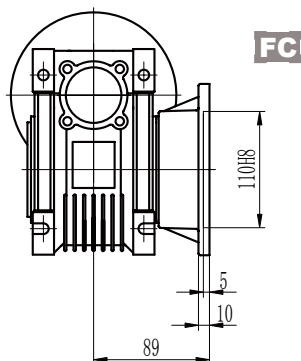
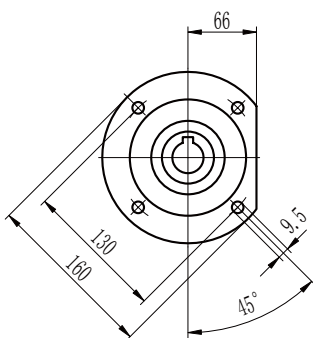
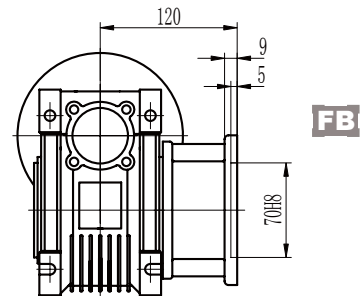
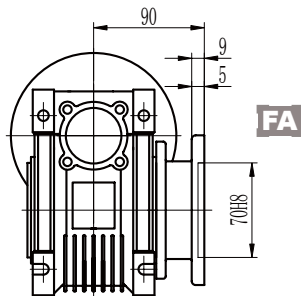
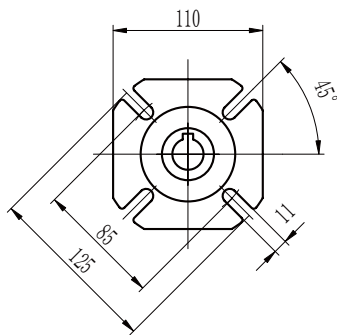
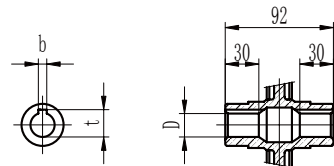
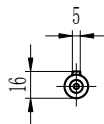
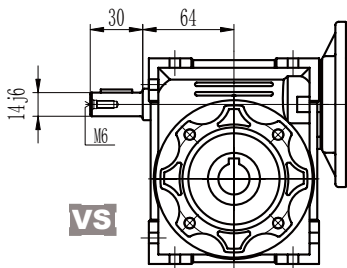
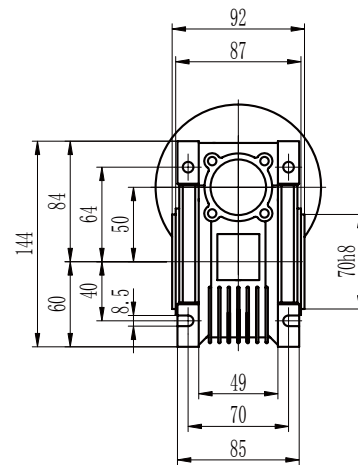
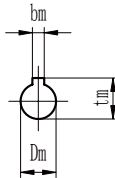
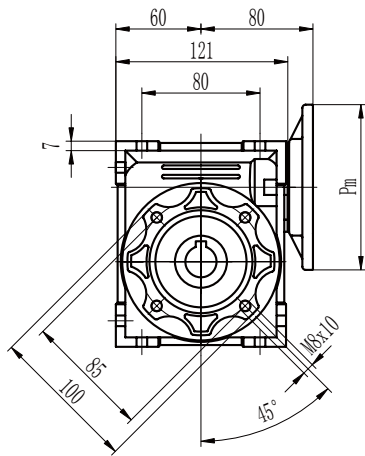
Output		
D H8	b	t
18 (19)	6 (6)	20.8 (21.8)

(D19) Only on request

Weight without motor: 2.3kg

For the dimensions concerning the motor mounting data (P_m , D_m , b_m , t_m) please refer to the table shown at page 53

Dimensions NMRV050



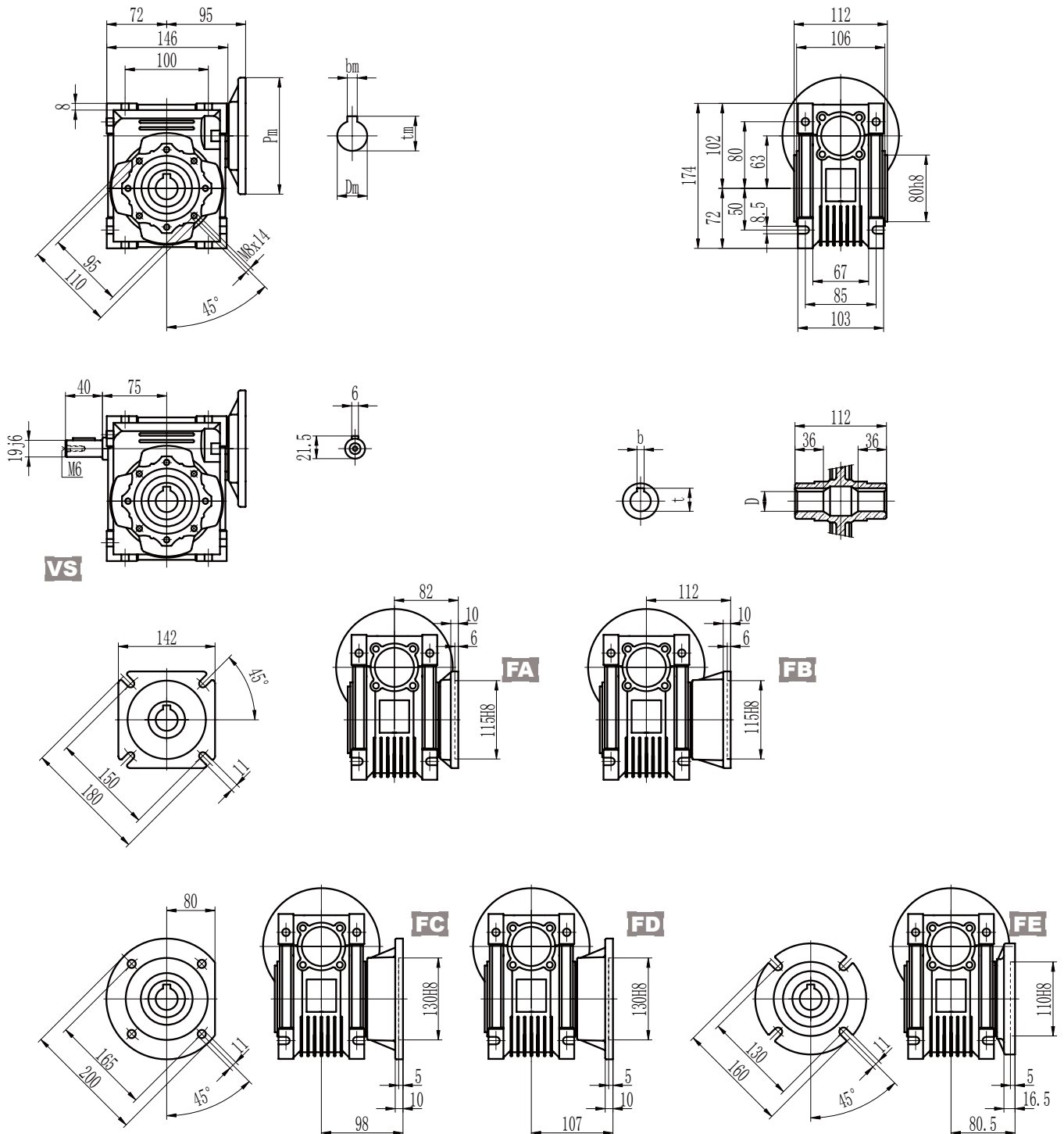
Output		
D H8	b	t
25 (24)	8 (8)	28.3 (27.3)

(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



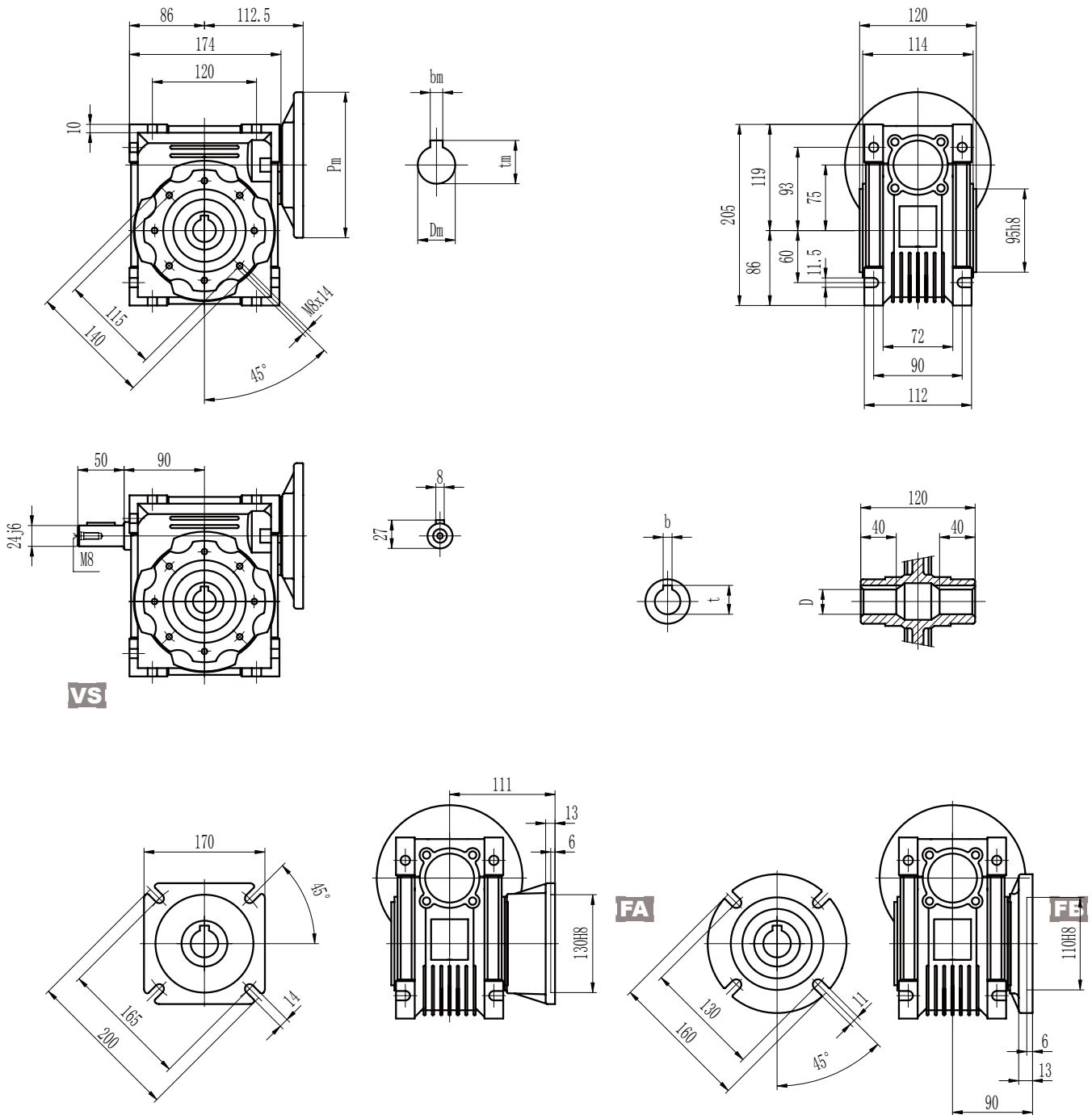
Output		
D H8	b	t
25	8	28.3
(28)	(8)	(31.3)

(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



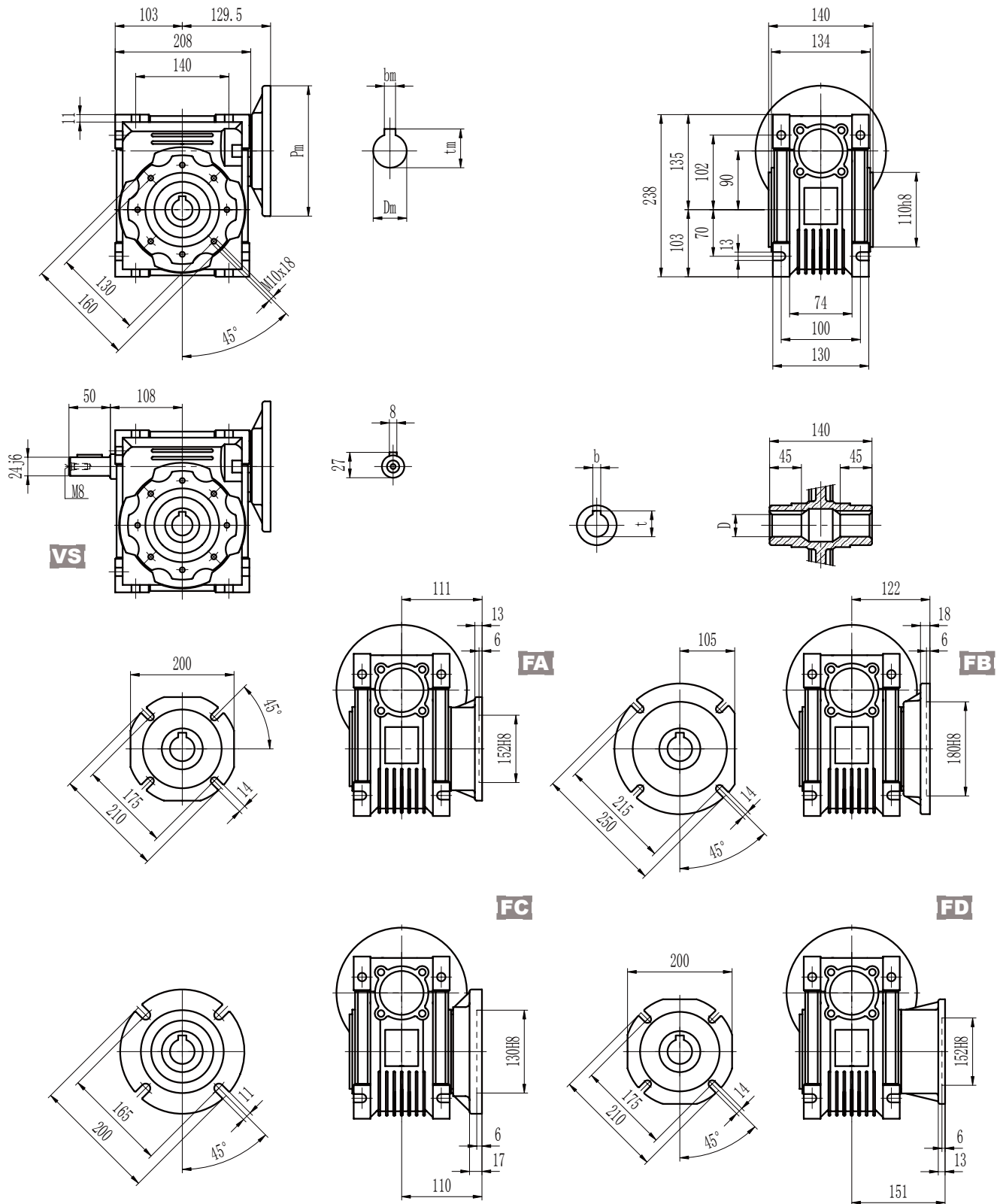
Output		
D H8	b	t
28 (35)	8 (10)	31.3 (38.3)

(D 35) Only on request

Weight without motor: 9kg

For the dimensions concerning the motor connection data (P_m, D_m, b_m, t_m) please refer to the table shown at page 53

Dimensions NMRV090



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

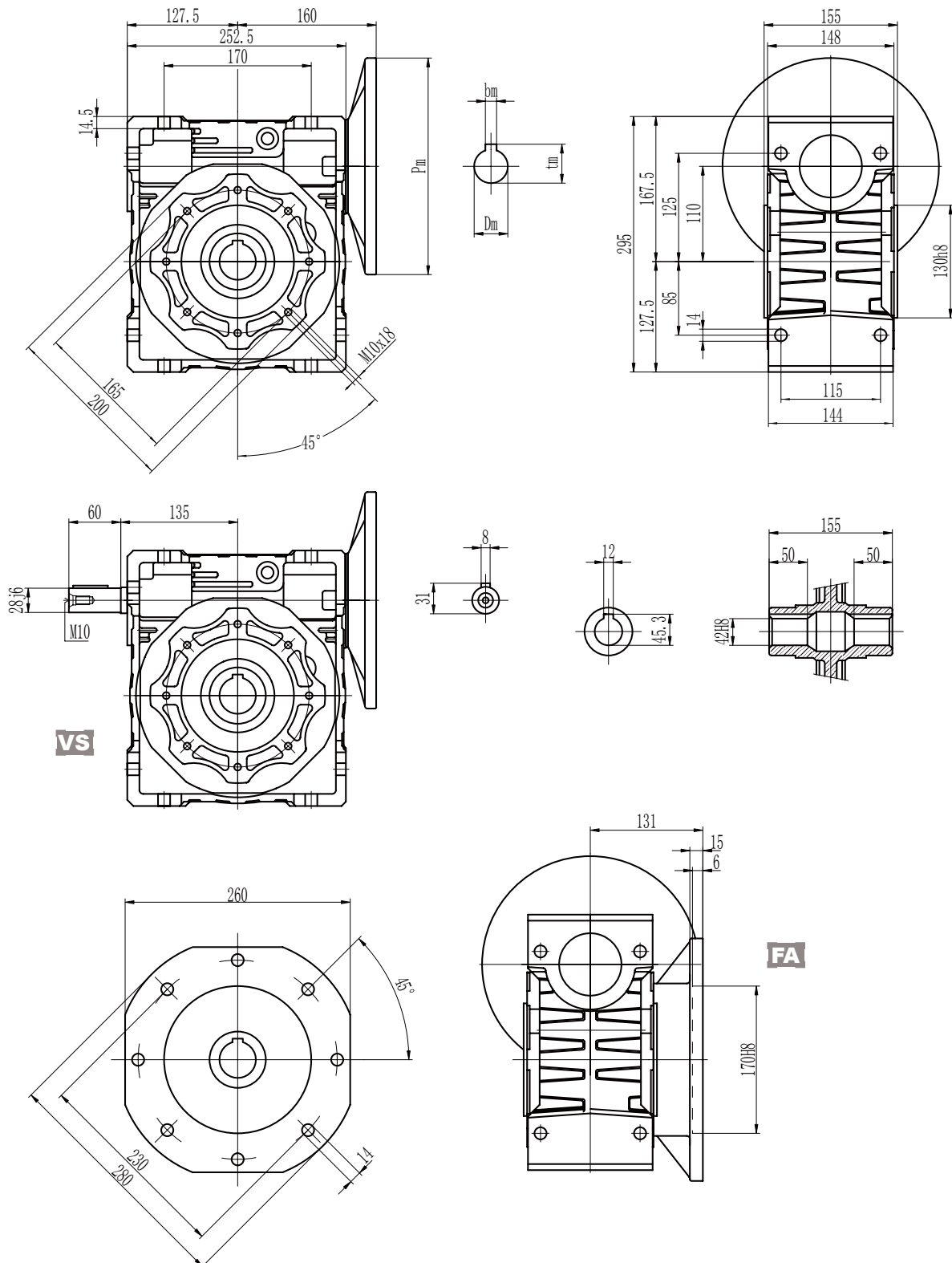
(D 38) Only on request

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

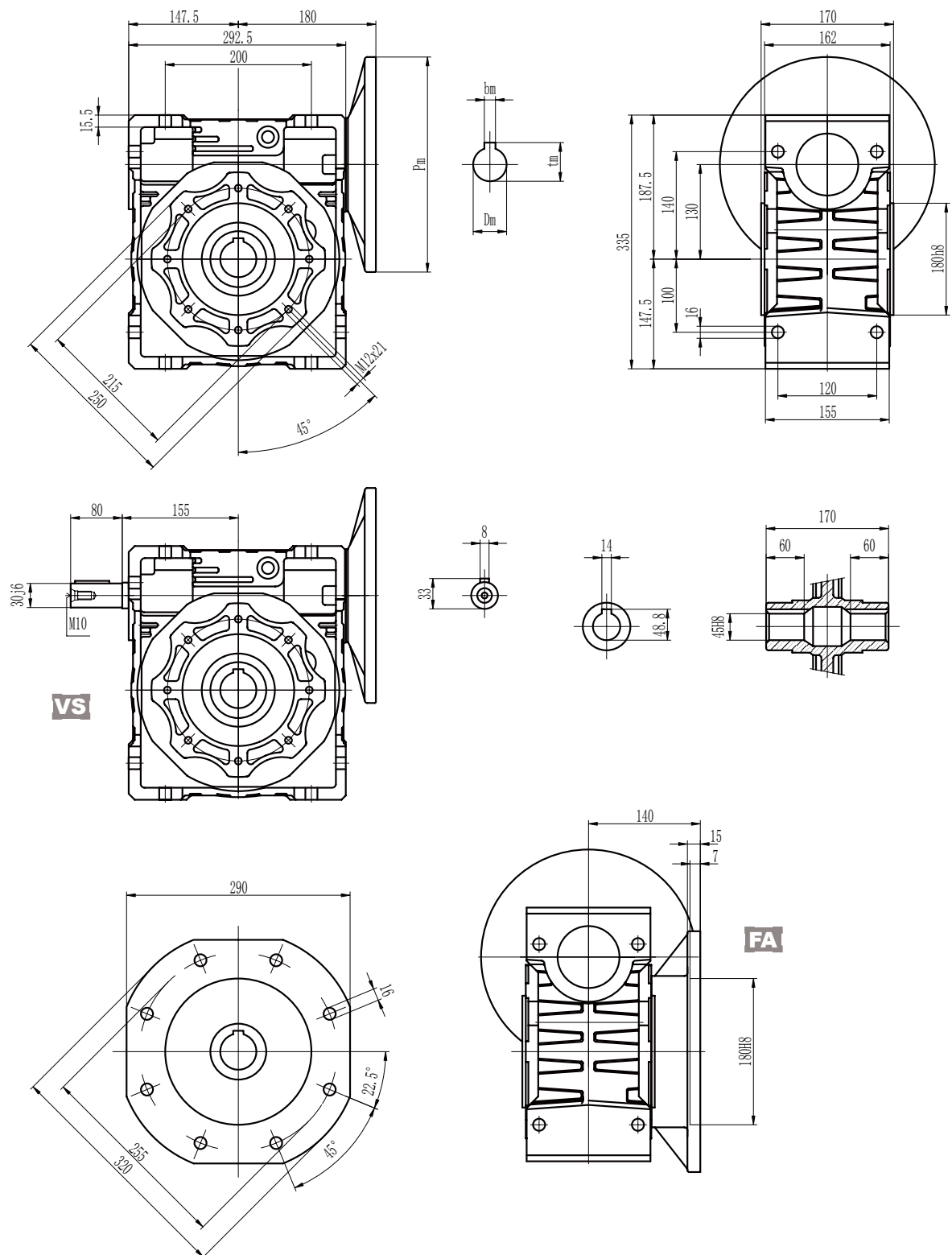
NMRV110



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

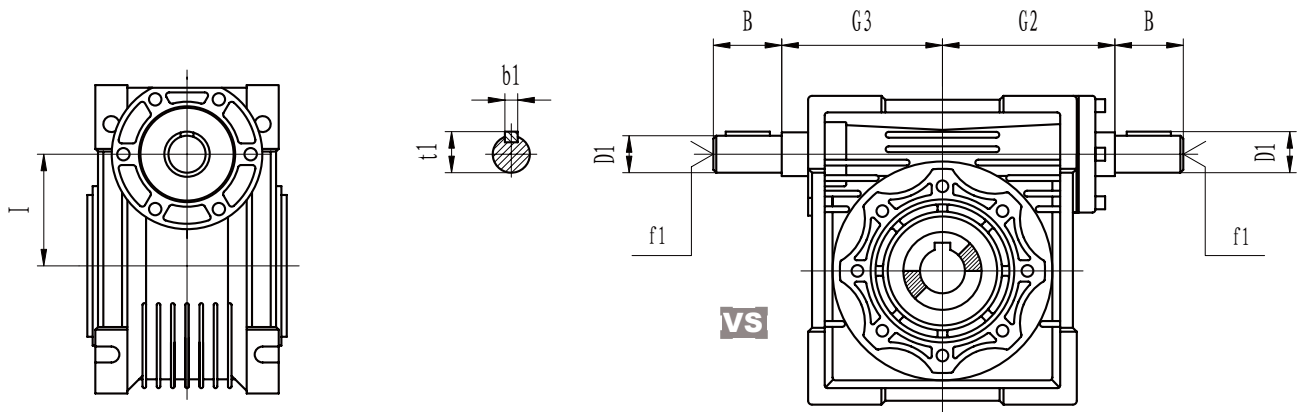


Weight without motor: 48kg

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

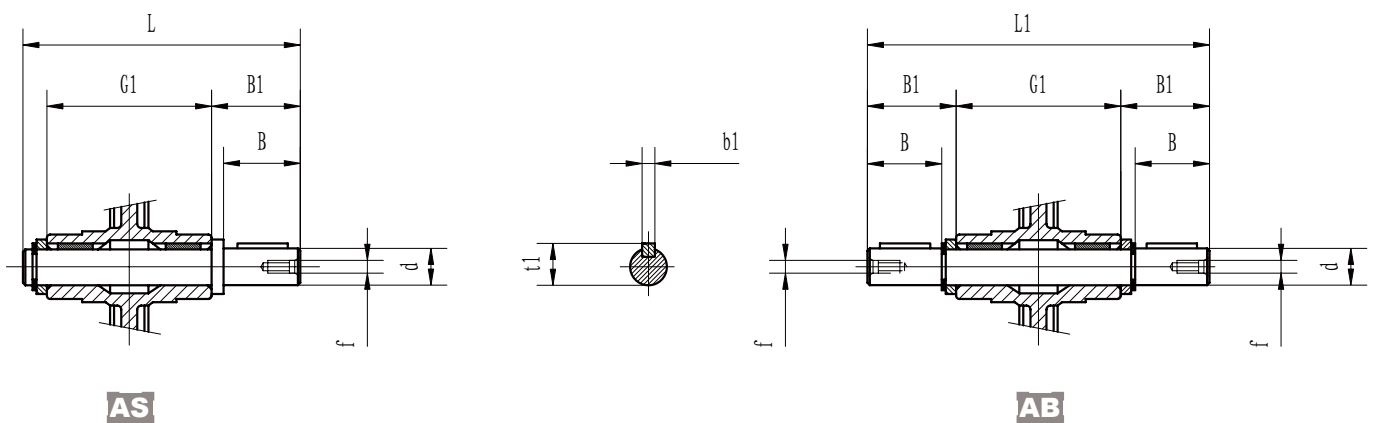
Dimensions

NRV



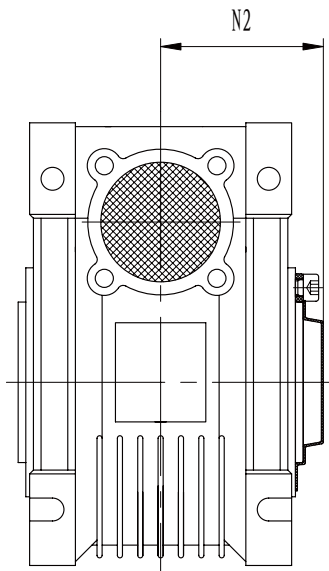
NRV	025	030	040	050	063	075	090	110	130
B	20	20	23	30	40	50	50	60	80
D1	9 j6	9 j6	11 j6	14 j6	19 j6	24 j6	24 j6	28 j6	30 j6
G2	38	51	60	74	90	105	125	142	162
G3	37	45	53	64	75	90	108	135	155
I	25	30	40	50	63	75	90	110	130
b1	3	3	4	5	6	8	8	8	8
f1	–	–	–	M6	M6	M8	M8	M10	M10
t1	10.2	10.2	12.5	16	21.5	27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

Low speed shafts



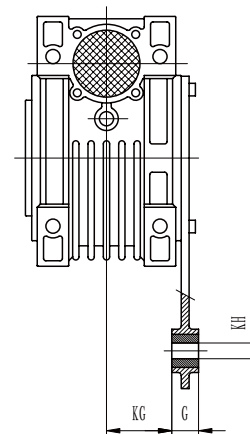
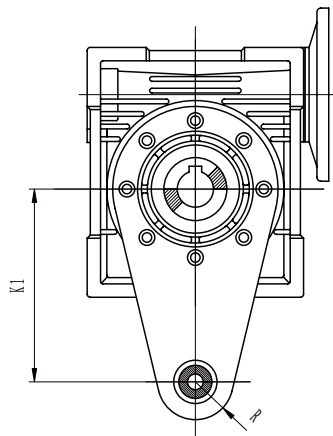
	d	B	B1	G1	L	L1	f	b1	t1
025	11g6 (9)	23 (25)	25.5 (30)	50	81 (85.5)	101	–	4 (3)	12.5 (10.2)
030	14g6	30	32.5	63	102	128	M6	5	16
040	18h6	40	43	78	128	164	M6	6	20.5
050	25h6	50	53.5	92	153	199	M10	8	28
063	25h6	50	53.5	112	173	219	M10	8	28
075	28h6	60	63.5	120	192	247	M10	8	31
090	35h6	80	84.5	140	234	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



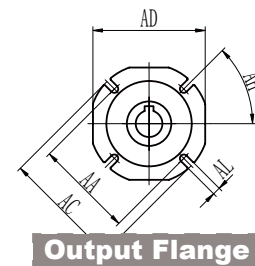
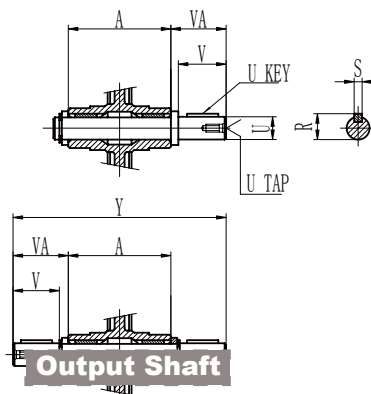
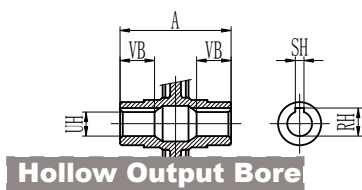
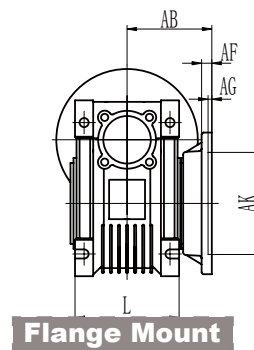
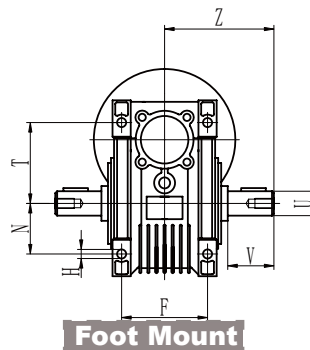
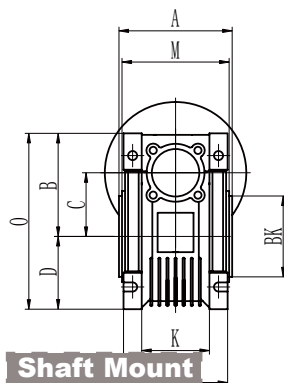
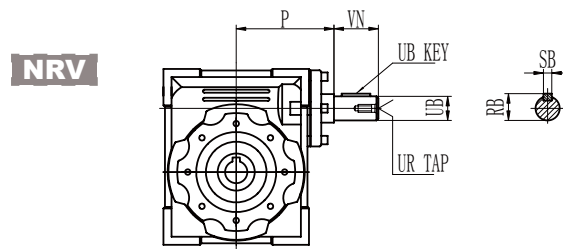
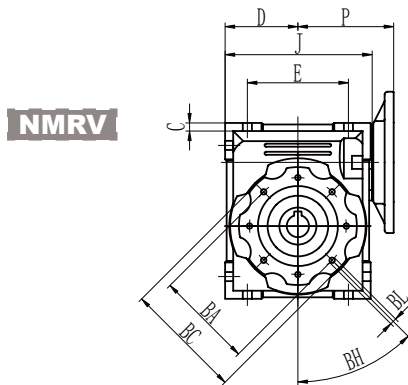
	N2
030	42
040	50
050	58
063	69
075	74
090	86
110	94
130	102

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

NMRV Inch Series



Hollow Output Bore	030	040	050	063	075	090	110	130
RH	0.71	0.84	1.12	1.24	1.37	1.52	1.8	1.93
SH	0.188	0.188	0.25	0.25	0.25	0.313	0.375	0.375
UH	$0.625^{+0.001}_0$	$0.75^{+0.001}_0$	$1^{+0.001}_0$	$1.125^{+0.001}_0$	$1.25^{+0.001}_0$	$1.375^{+0.001}_0$	$1.625^{+0.001}_0$	1.75_0
VB	0.83	1.14	1.28	1.42	1.56	1.77	1.97	2.24

Output Shaft	030	040	050	063	075	090	110	130
R	0.7	0.83	1.11	1.23	1.36	1.51	1.79	1.92
S	0.188	0.188	0.25	0.25	0.25	0.313	0.375	0.375
U	$0.625^{+0.0005}_0$	$0.75^{+0.0005}_0$	$1^{+0.0005}_0$	$1.125^{+0.0005}_0$	$1.25^{+0.0005}_0$	$1.375^{+0.0005}_0$	$1.625^{+0.0005}_0$	$1.75^{+0.0005}_0$
U KEY	0.1875x1.125	0.1875x1.5	0.25x1.5	0.25x1.875	0.25x2.25	0.3125x2.5	0.375x2.75	0.375x2.75
UT	1/4-20	1/4-20	3/8-16	3/8-16	1/2-13	1/2-13	5/8-11	5/8-11
V	1.57	1.97	1.97	2.36	2.76	3.15	3.54	3.54
VA	1.67	2.09	2.11	2.5	2.89	3.33	3.72	3.74
Y	5.82	7.25	7.84	9.41	10.5	12.17	13.54	14.17

NMRV Inch Series

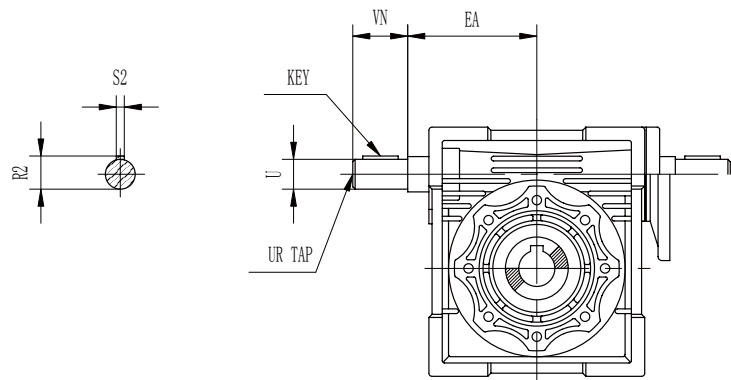
	030	040	050	063	075	090	110	130
A	2.48	3.07	3.62	4.41	4.72	5.51	6.1	6.69
B	2.24	2.81	3.31	4.02	4.69	5.31	6.59	7.38
BA	2.56	2.95	3.35	3.74	4.53	5.12	6.5	8.46
BC	2.95	3.43	3.94	4.33	5.51	6.3	7.87	9.84
BH	90 °	45 °	45 °	45 °	45 °	45 °	45 °	45 °
BK	2.165 ⁰ _{-0.0018}	2.362 ⁰ _{-0.0018}	2.756 ⁰ _{-0.0018}	3.15 ⁰ _{-0.0021}	3.74 ⁰ _{-0.0021}	4.331 ⁰ _{-0.0021}	5.118 ⁰ _{-0.0025}	7.087 ⁰ _{-0.0025}
BL	M6x11	M6x10	M8x10	M8x14	M8x14	M10x18	M10x18	M12x21
C	1.18	1.57	1.97	2.48	2.95	3.54	4.33	5.12
D	1.57	1.97	2.36	2.83	3.39	4.06	5.02	5.81
E	2.13	2.76	3.15	3.94	4.72	5.51	6.69	7.87
F	1.73	2.36	2.76	3.35	3.54	3.94	4.53	4.72
G	0.22	0.26	0.28	0.31	0.39	0.43	0.57	0.61
H	0.26	0.26	0.33	0.33	0.45	0.51	0.55	0.63
J	3.15	3.98	4.76	5.75	6.85	8.19	9.94	11.52
K	1.26	1.69	1.93	2.64	2.83	2.91	—	—
L	2.2	2.8	3.35	4.06	4.41	5.12	5.67	6.1
M	2.28	2.87	3.43	4.17	4.49	5.28	5.83	6.38
N	1.06	1.38	1.57	1.97	2.36	2.76	3.35	3.94
O	3.82	4.78	5.67	6.85	8.07	9.37	11.61	13.19
P	2.64	3.15	3.54	4.13	4.96	5.63	6.81	7.6
Q	0.83	2.36	2.91	3.54	4.13	4.92	5.59	6.38
T	1.73	2.17	2.52	3.15	3.66	4.02	4.92	5.51
Z	2.91	3.63	3.92	4.71	5.25	6.09	6.77	7.09

Output Flange		AA	AB	AC	AD	AF	AG	AH	AK	AL
030	FA	2.68	2.15	3.15	2.76	0.24	0.16	45°	1.969 ^{+0.0015 0}	0.26
040	FA	2.95	2.64	4.33	3.74	0.28	0.16	45°	2.362 ^{+0.0018 0}	0.35
	FB	2.95	3.82	4.33	3.74	0.28	0.16	45°	2.362 ^{+0.0018 0}	0.35
	FC	4.53	3.15	5.51	—	0.35	0.2	45°	3.74 ^{+0.0021 0}	0.37
	FD	3.94	2.28	4.72	—	0.47	0.2	45°	3.15 ^{+0.0018 0}	0.35
050	FA	3.35	3.54	4.92	4.33	0.35	0.2	45°	2.756 ^{+0.0018 0}	0.43
	FB	3.35	4.72	4.92	4.33	0.35	0.2	45°	2.756 ^{+0.0018 0}	0.43
	FC	5.12	3.5	6.3	—	0.39	0.2	45°	4.331 ^{+0.0021 0}	0.37
	FD	4.53	2.83	5.51	—	0.57	0.2	45°	3.543 ^{+0.0021 0}	0.43
063	FA	4.13	3.23	7.09	5.59	0.39	0.24	45°	4.528 ^{+0.0021 0}	0.43
	FB	5.91	4.41	7.09	5.59	0.39	0.24	45°	4.528 ^{+0.0021 0}	0.43
	FC	6.5	3.86	7.87	—	0.39	0.2	45°	5.118 ^{+0.0025 0}	0.43
	FD	6.5	4.21	7.87	—	0.39	0.2	45°	5.118 ^{+0.0025 0}	0.43
	FE	5.12	3.17	6.3	—	0.65	0.2	45°	4.331 ^{+0.0021 0}	0.43
075	FA	6.5	4.37	7.87	6.69	0.51	0.24	45°	5.118 ^{+0.0025 0}	0.55
	FB	5.12	3.54	6.3	—	0.51	0.24	45°	4.331 ^{+0.0021 0}	0.55
090	FA	6.89	4.37	8.27	8.27	0.51	0.24	45°	5.984 ^{+0.0025 0}	0.55
	FB	8.46	4.8	9.84	—	0.71	0.24	45°	7.087 ^{+0.0025 0}	0.55
	FC	6.5	4.33	7.87	—	0.67	0.24	45°	5.118 ^{+0.0025 0}	0.43
	FD	6.89	5.94	8.27	—	0.51	0.24	45°	5.984 ^{+0.0025 0}	0.55
110	FA	9.06	5.16	11.02	10.24	0.59	0.24	45°	6.693 ^{+0.0025 0}	0.55
	FB	9.06	7.09	11.02	10.24	0.59	0.24	45°	6.693 ^{+0.0025 0}	0.55
130	FA	10.04	5.51	12.6	11.42	0.59	0.24	22.5°	7.087 ^{+0.0025 0}	0.63

Input Shaft	030	040	050	063	075	090	110	130
SB	0.094	0.125	0.188	0.188	0.188	0.188	0.25	0.25
RB	0.42	0.55	0.7	0.83	0.96	0.96	1.24	1.36
UB	0.375 ⁰ _{-0.0005}	0.5 ⁰ _{-0.0005}	0.625 ⁰ _{-0.0005}	0.75 ⁰ _{-0.0005}	0.875 ⁰ _{-0.0005}	0.875 ⁰ _{-0.0005}	1.125 ⁰ _{-0.0005}	1.25 ⁰ _{-0.0005}
UB KEY	0.094x0.875	0.125x0.875	0.1875x1.125	0.1875x1.5	0.1875x1.875	0.1875x1.875	0.25x2.25	0.25x2.5
UR	—	1/4-20	1/4-20	1/4-20	1/4-20	1/4-20	3/8-16	1/2-13
VN	1.18	1.18	1.58	1.97	2.36	2.36	2.76	3.15

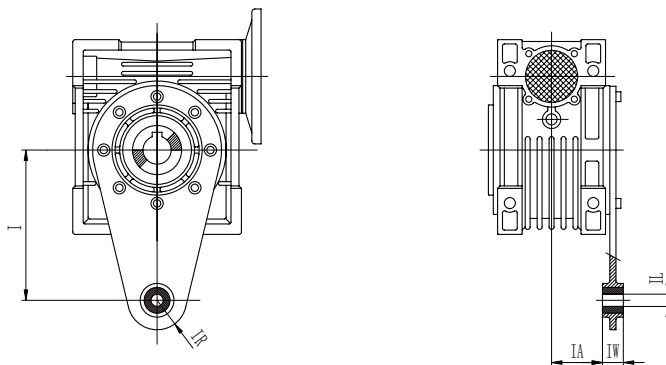
NMRV Inch Series

High Speed Extension Shaft



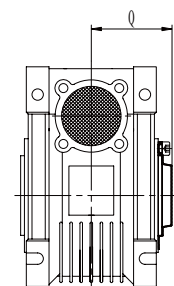
	EA	U	VN	UR	S2	R2	KEY	
							Length	Square
030	1.772	0.375 ⁰ _{-0.0005}	1.18	-	0.093	0.42	0.875	0.094
040	2.087	0.5 ⁰ _{-0.0005}	1.18	1/4-20	0.13	0.55	0.875	0.125
050	2.52	0.625 ⁰ _{-0.0005}	1.58	1/4-20	0.19	0.7	1.125	0.188
063	2.953	0.75 ⁰ _{-0.0005}	1.97	1/4-20	0.19	0.83	1.5	0.188
075	3.543	0.875 ⁰ _{-0.0005}	2.36	1/4-20	0.19	0.96	1.875	0.188
090	4.252	0.875 ⁰ _{-0.0005}	2.36	1/4-20	0.19	0.96	1.875	0.188
110	5.315	1.125 ⁰ _{-0.0005}	2.76	3/8-16	0.25	1.24	2.25	0.25
130	6.102	1.25 ⁰ _{-0.0005}	3.15	1/2-13	0.25	1.36	2.5	0.25

Torque Arm



	I	IA	IL	IR	IW
025	2.76	0.69	0.31	0.59	0.55
030	3.35	0.94	0.31	0.59	0.55
040	3.94	1.24	0.39	0.71	0.55
050	3.94	1.52	0.39	0.71	0.55
063	5.91	1.93	0.39	0.71	0.55
075	7.87	1.87	0.79	1.18	0.98
090	7.87	2.26	0.79	1.18	0.98
110	9.84	2.44	0.98	1.38	1.18
130	9.84	2.72	0.98	1.38	1.18

Protective Cover

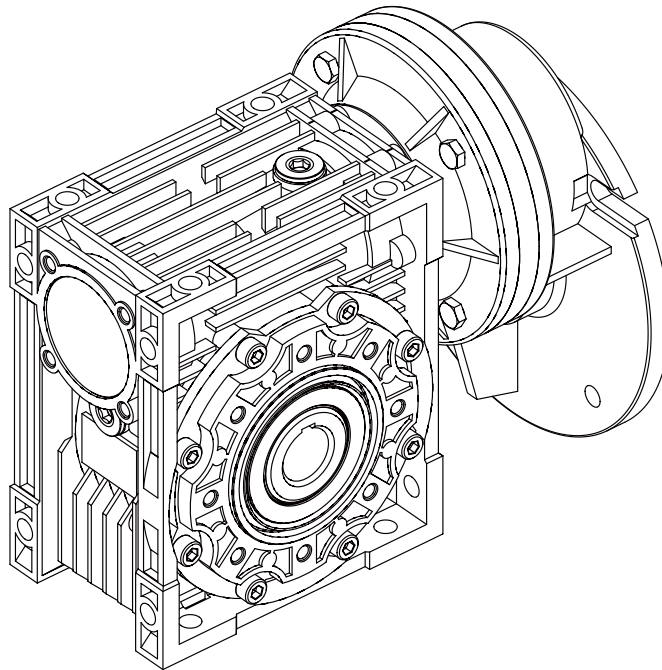


	Q
030	1.65
040	1.97
050	2.28
063	2.72
075	2.91
090	3.39
110	3.7
130	4.02

NEMA Flange Availability

	NEMA Flange	Input Bore Diameter	Available Ratios											
			5	7.5	10	15	20	25	30	40	50	60	80	100
030	48C	0.5	●	●	●	●	●	●	●	●	●	●	●	
040	56C	0.625	●	●	●	●	●	●	●	●	●	●	●	●
050	56C	0.625	●	●	●	●	●	●	●	●	●	●	●	●
063	56C	0.625					●	●	●	●	●	●	●	●
	140TC	0.875		●	●	●	●	●	●	●				
075	56C	0.625									●	●	●	●
	140TC	0.875				●	●	●	●	●	●			
	180TC	1.125		●	●	●								
090	56C	0.625											●	●
	140TC	0.875						●	●	●	●	●		
	180TC	1.125		●	●	●	●	●	●	●				
110	140TC	0.875									●	●	●	●
	180TC	1.125					●	●	●	●	●	●		
	210TC	1.375		●	●	●	●							
130	140TC	0.875											●	●
	180TC	1.125							●	●	●	●	●	
	210TC	1.375		●	●	●	●	●	●	●				

PC-NMRV

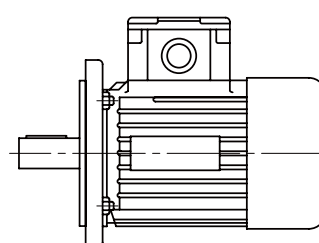
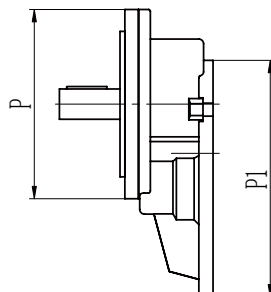
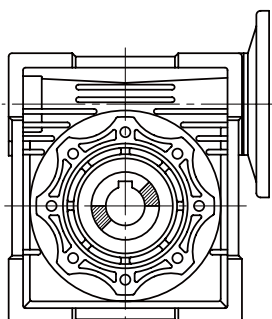


PC-NMRV model & marker

PC-071-NMRV-063-30-VS-F1(FA)-AS-71B5-0.37kW-B3			
PC	Pre-stage helical module		
071	Size		
NMRV	Worm geared motor		
063	Center distance		
30	Reduction ratio		
VS	Double input shaft	F1(FA)	Output flange
AS	Single output shaft	AB	Double output shaft
PAM	Fitted for motor coupling	71B5	Motor size & mounting position
0.37kW	Power of Electric motor	B3	Mounting position

PC + NMRV Combinations

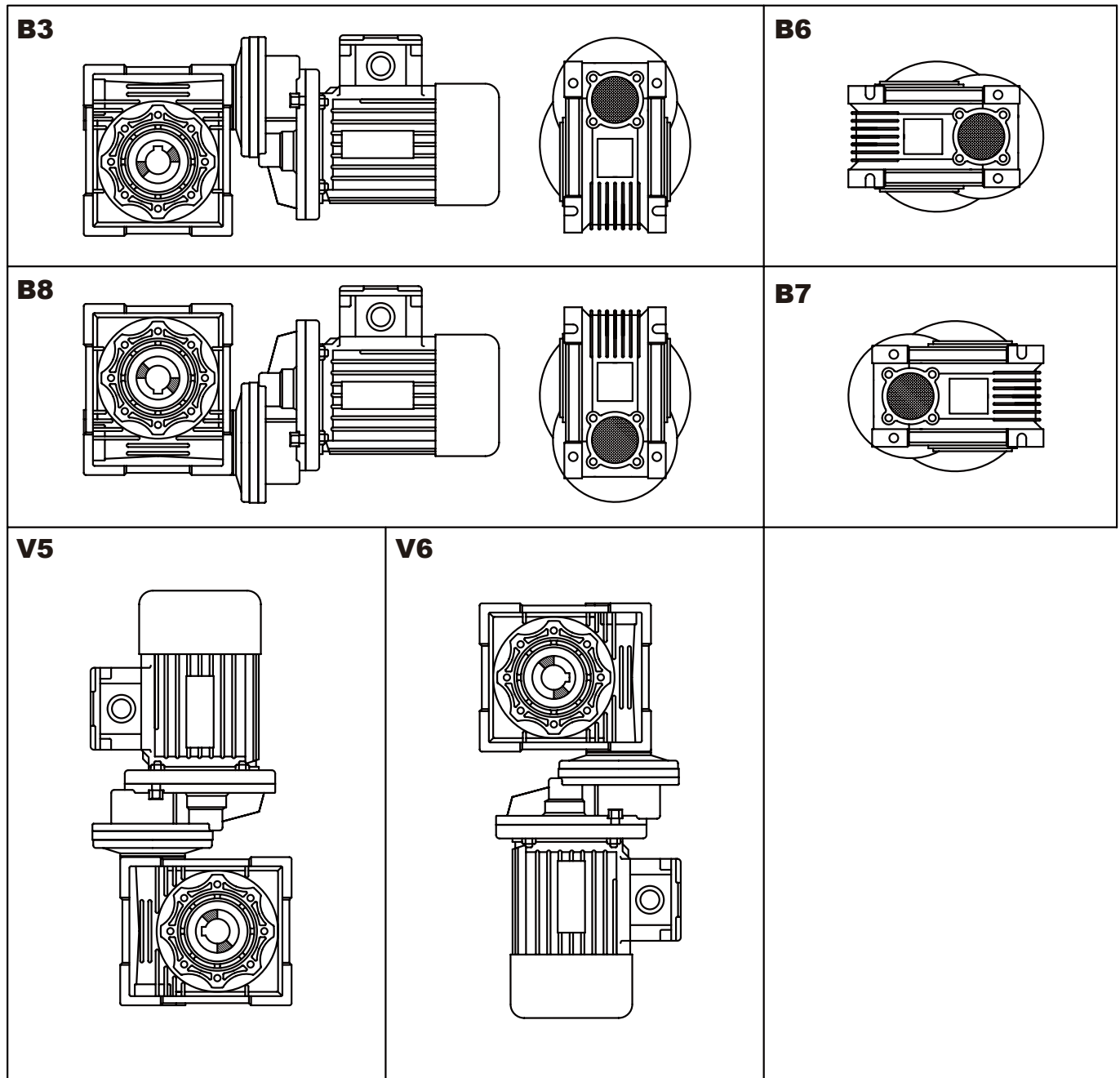
NMRV	i	PC063		PC071		PC080			PC090		
		105/11	105/14	120/14	120/19	160/19	160/24	160/28	160/19	160/24	160/28
		2.93	i=2.93	i=2.94	i=2.94	i=3	i=3	i=3	i=2.45	i=2.45	i=2.45
040	25										
	30										
	40										
	50										
	60										
	80										
	100										
050	25										
	30										
	40										
	50										
	60										
	80										
	100										
063	25										
	30										
	40										
	50										
	60										
	80										
	100										
075	25										
	30										
	40										
	50										
	60										
	80										
	100										
090	25										
	30										
	40										
	50										
	60										
	80										
	100										
110	25										
	30										
	40										
	50										
	60										
	80										
	100										
130	25										
	30										
	40										
	50										
	60										
	80										
	100										



	P1	P	(P)
PC 063	63B5-140/11	105/11	(105/14)
PC 071	71B5-160/14	120/14	(120/19)
PC 080	80B5-200/19	160/19	(160/24)
			(160/28)
PC 090	90B5-200/24	160/24	(160/19)
			(160/28)

(..)Only on request

PC - NMRV Mounting Positions



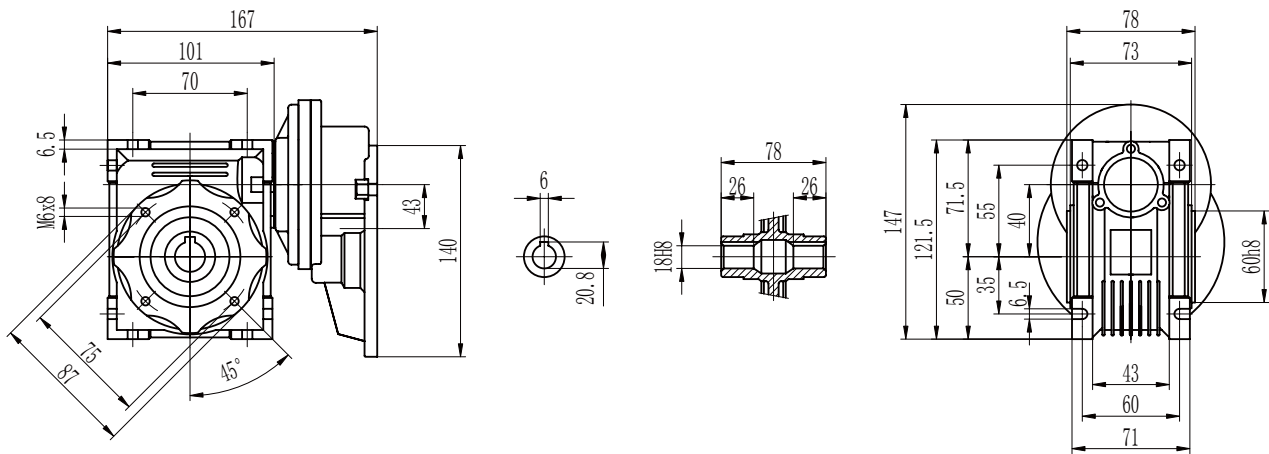
Choice of Lubrication

Q.ty of oil in litres			
063	071	080	090
0.16	0.25	0.28	0.28

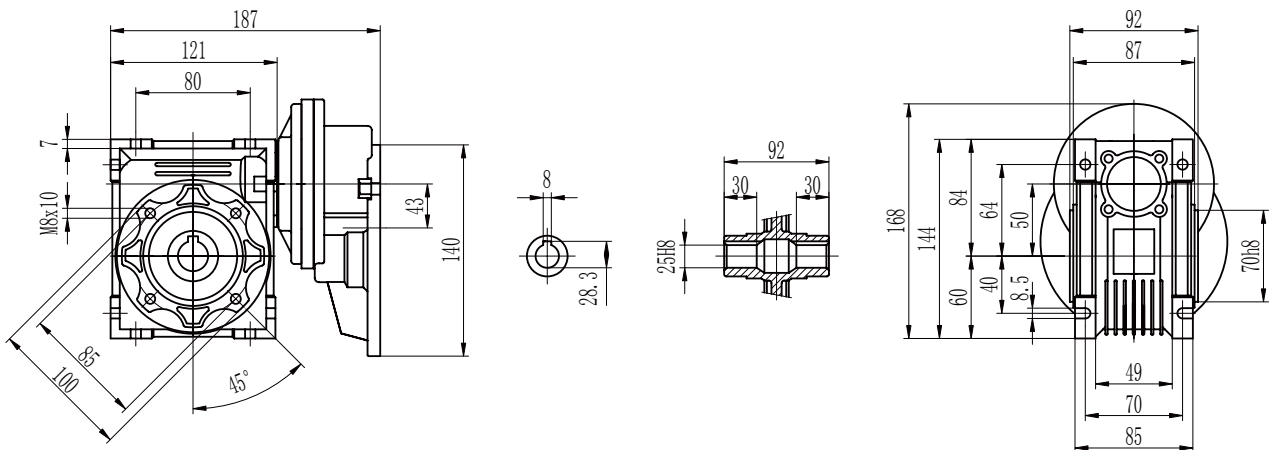
Oil Type Used	IP	TELUM VSF
	SHELL	TIVELA OIL SC320
	AGIP	BLASIA S320
	MOBIL	GLYGOYLE 30
	CASTROL	ALPHASYN PG 320

PC + NMRV Dimensions

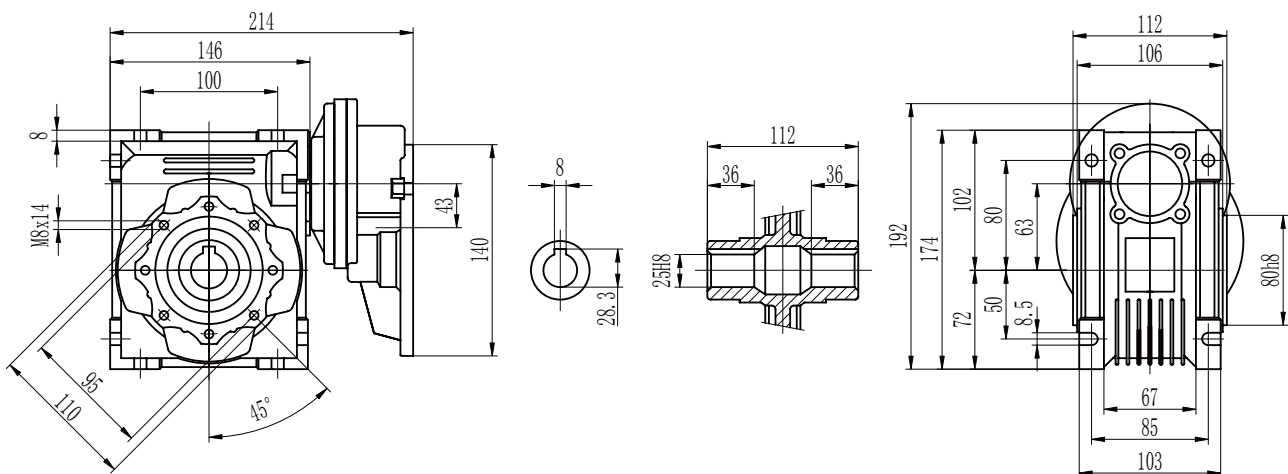
PC 063 - NMRV 040



PC 063 - NMRV 050

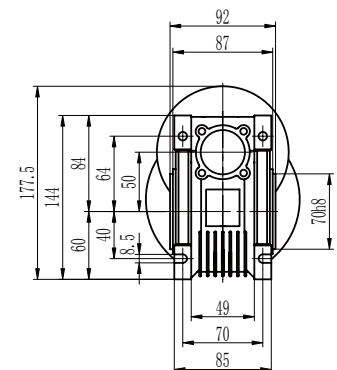
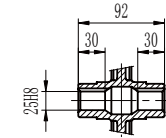
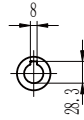
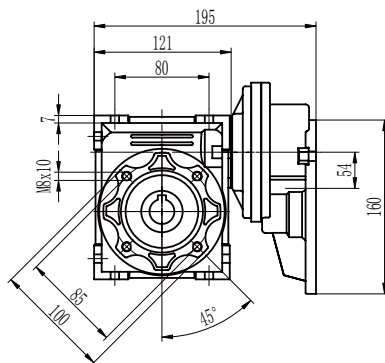


PC 063 - NMRV 063

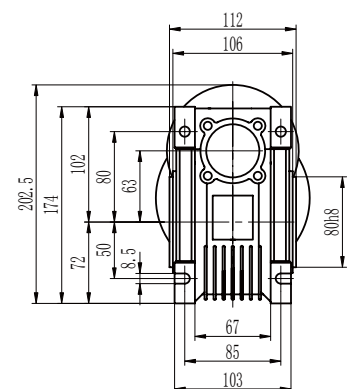
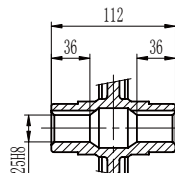
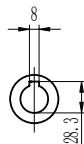
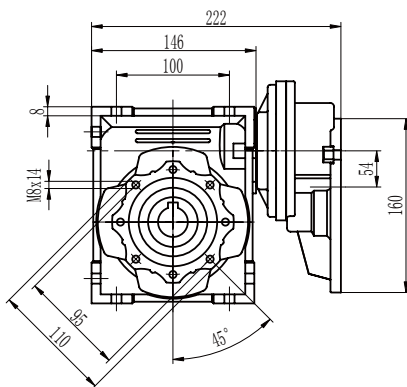


PC + NMRV Dimensions

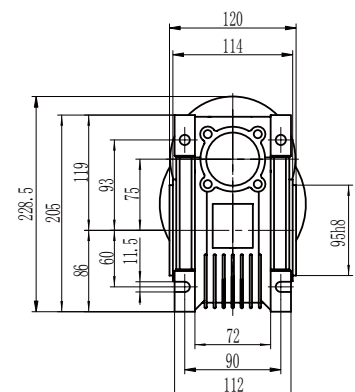
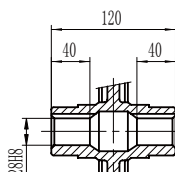
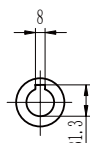
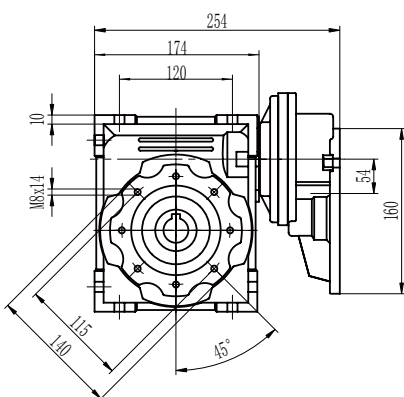
PC 071 - NMRV 050



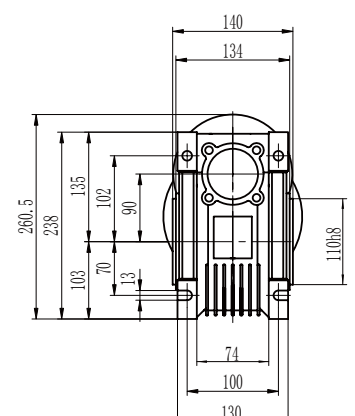
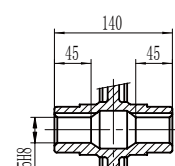
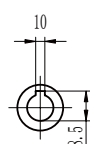
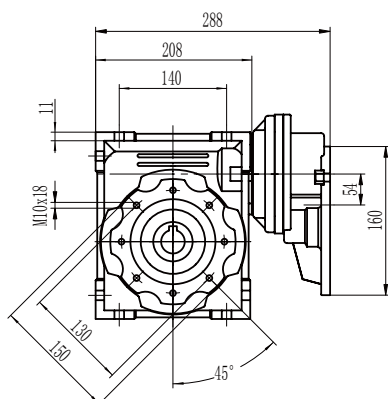
PC 071 - NMRV 063



PC 071 - NMRV 075

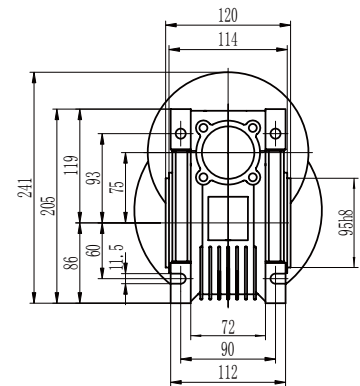
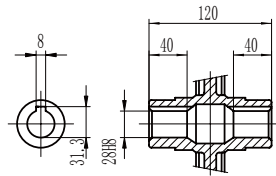
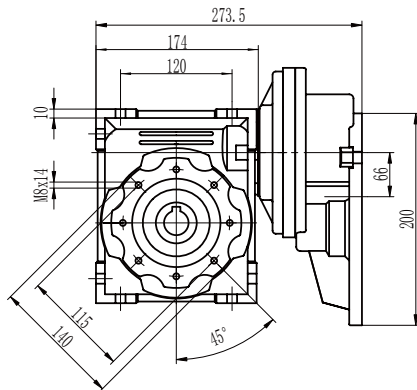


PC 071 - NMRV 090

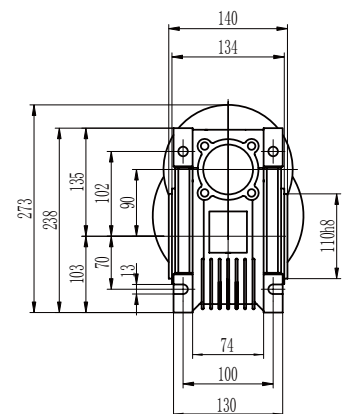
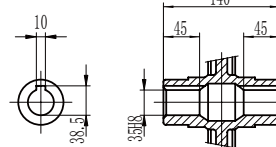
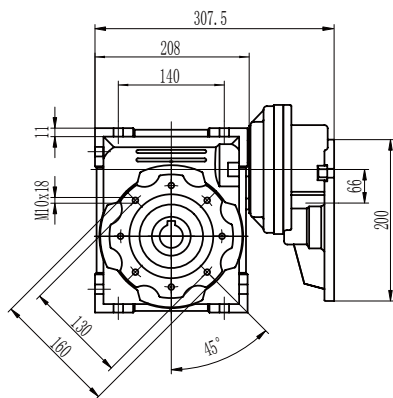


PC + NMRV Dimensions

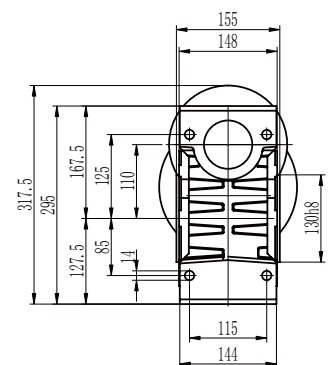
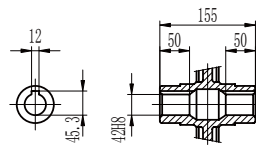
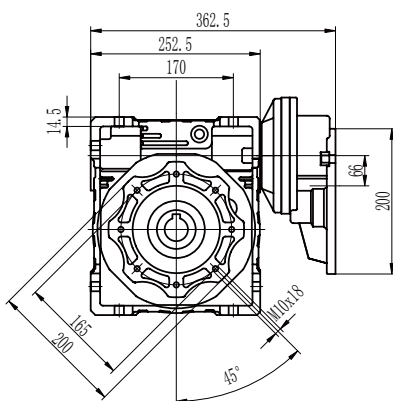
PC 080 - NMRV 075



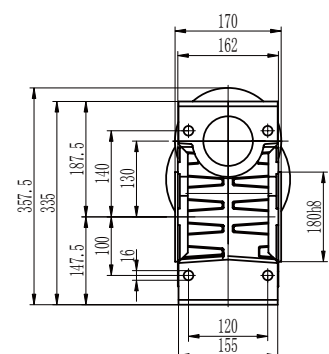
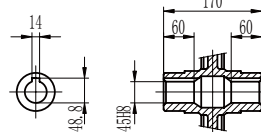
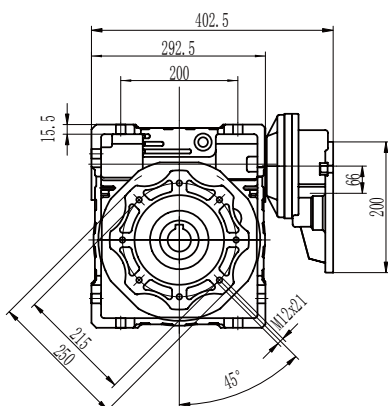
PC 080 - NMRV 090



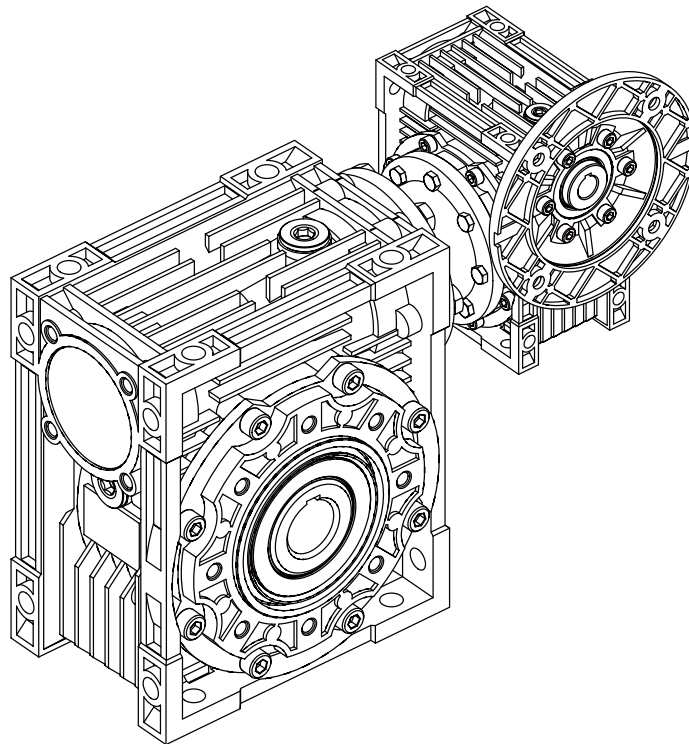
PC 080(090) - NMRV 110



PC 080(090) - NMRV 130



NMRV-NMRV

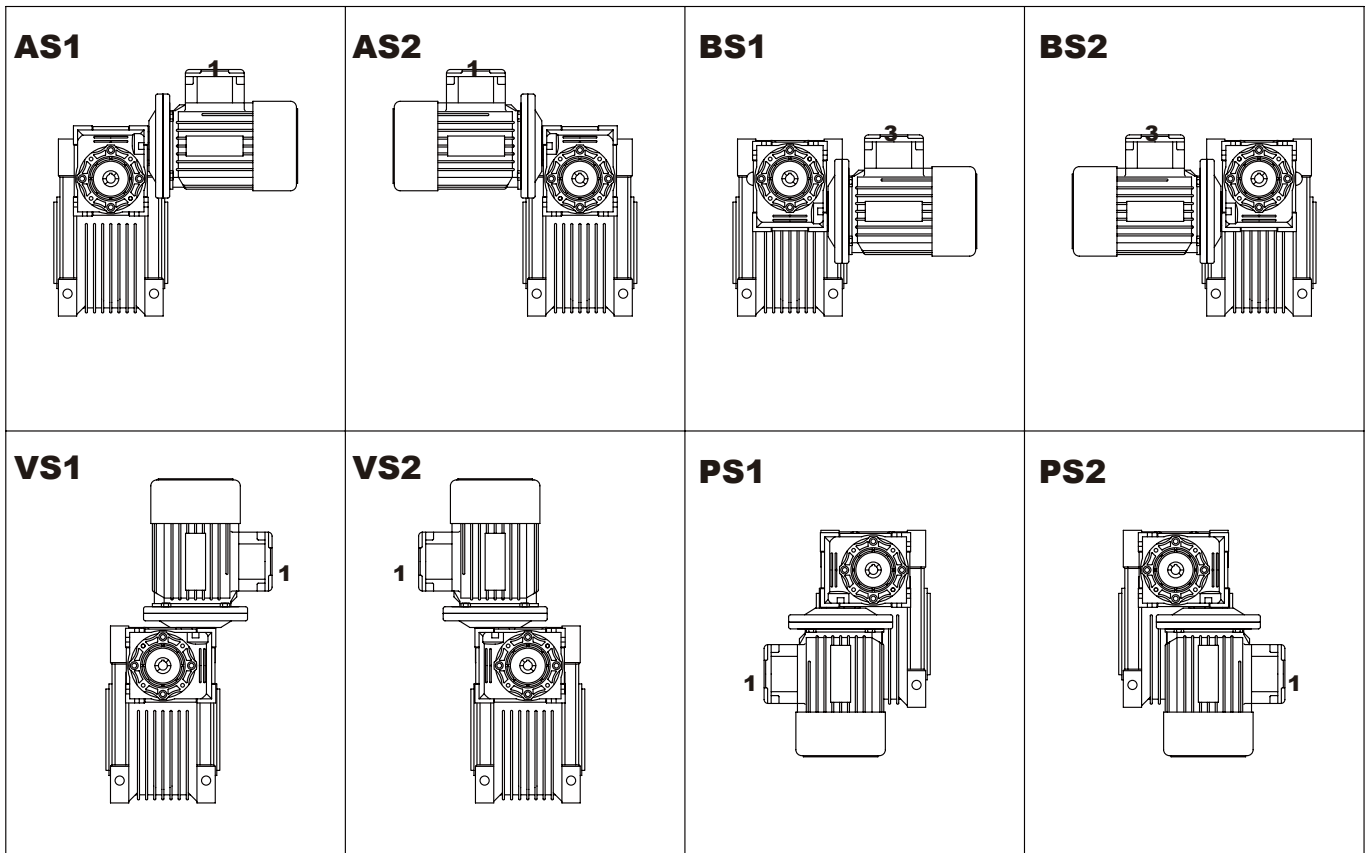


Model & marker

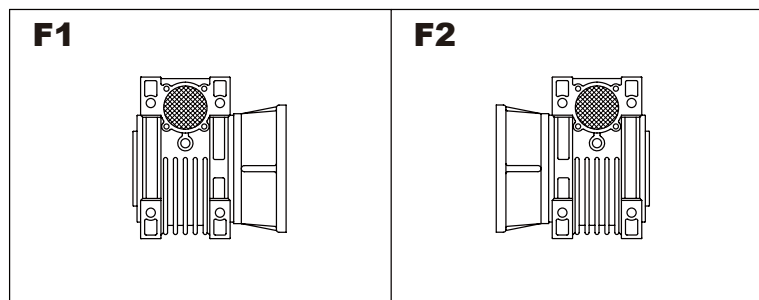
NMRV-040/090-500-VS-F1(FA)-AS-71B5-0.37kW-AS1

NMRV+NMRV	Combined worm geared motor		
NRV+NMRV	Combined worm reduction unit		
040/090	Center distance		
500	Reduction ratio		
VS	Double input shaft	F1(FA)	Output flange
AS	Single output shaft	AB	Double output shaft
PAM	Fitted for motor coupling	71B5	Motor size & position
0.37kW	Power of electric motor	AS1	Mounting position

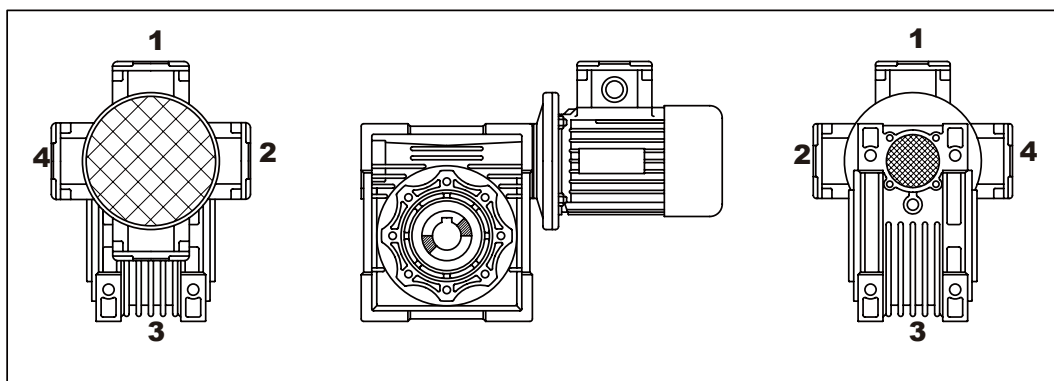
NMRV-NMRV Mounting Positions



Flange F-FL



Position of terminal box



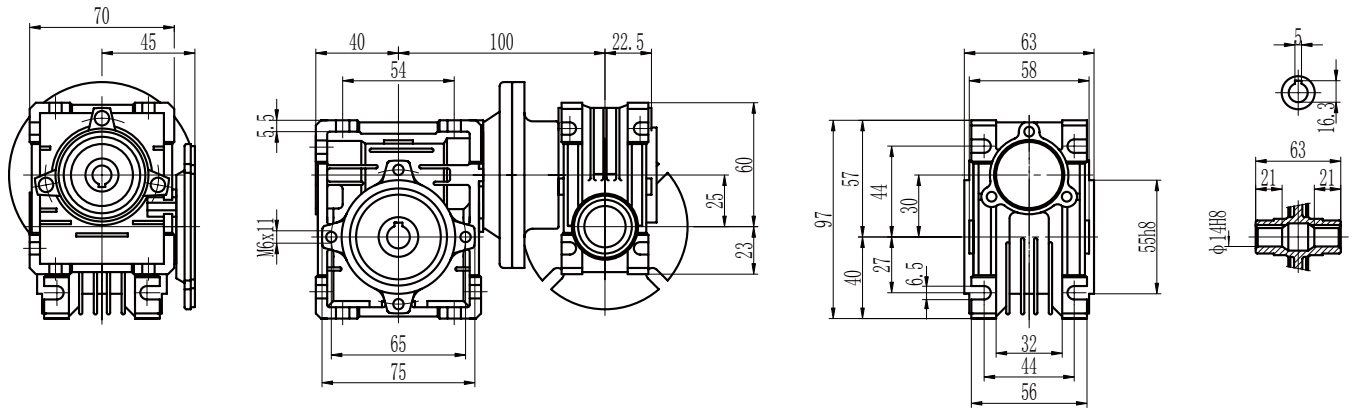
NMRV-NMRV Parameter Table

*n1=1400rpm

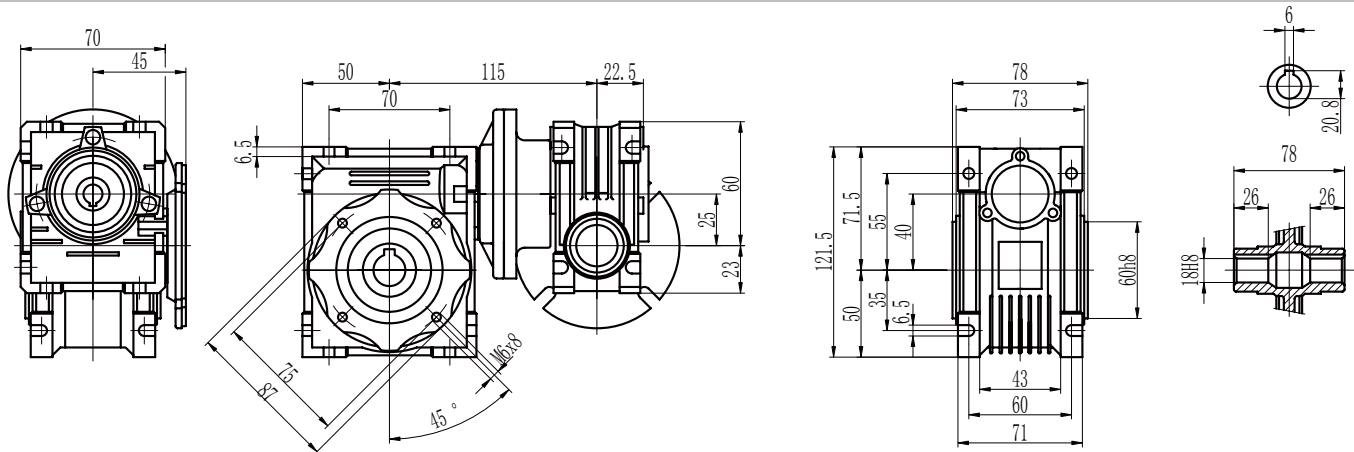
	i	n2	kW1	M2 (Nm)	i1	i2
NRV 030/040	300	4.7	0.08	73	10	30
	400	3.5	0.06	65	10	40
	500	2.8	0.04	61	20	25
	600	2.3	0.04	73	20	30
	750	1.9	0.04	73	25	30
	900	1.6	0.03	73	30	30
	1200	1.2	0.02	65	30	40
	1500	0.9	0.02	73	50	30
	1800	0.8	0.02	73	60	30
	2400	0.58	0.01	65	60	40
	3200	0.4	0.01	65	80	40
	4000	0.4	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
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

Dimensions

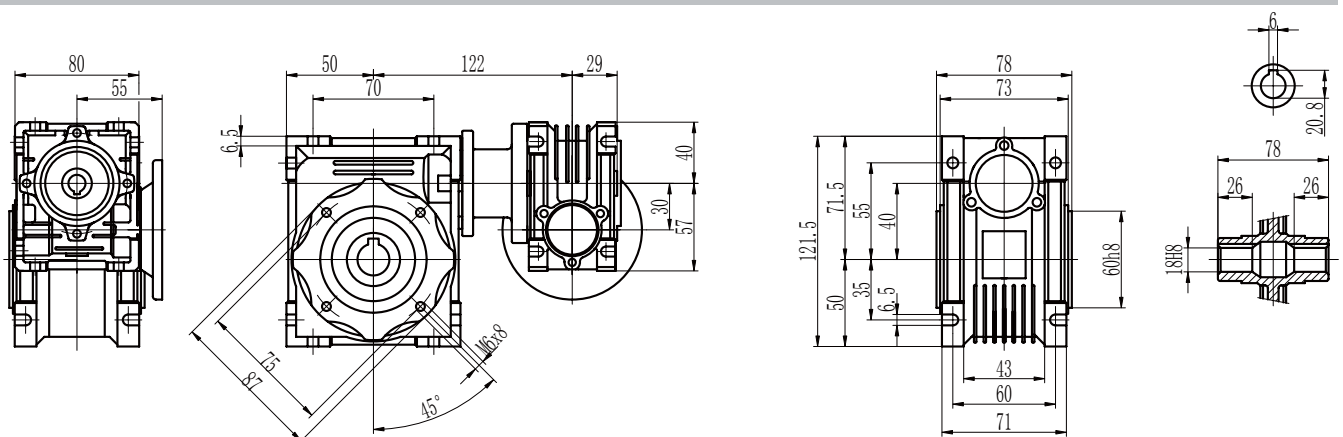
NMRV 025 - NMRV 030



NMRV 025 - NMRV 040

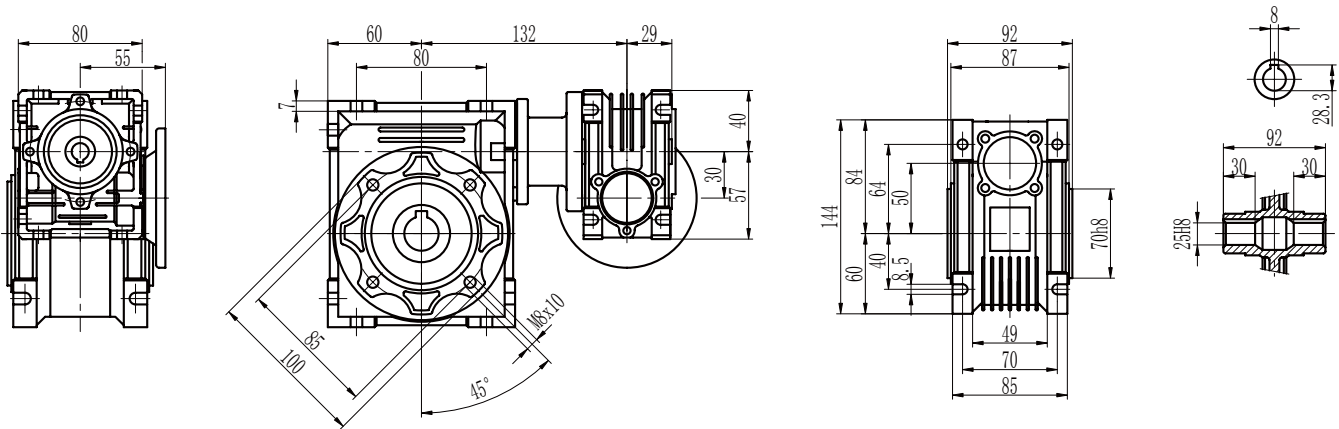


NMRV 030 - NMRV 040

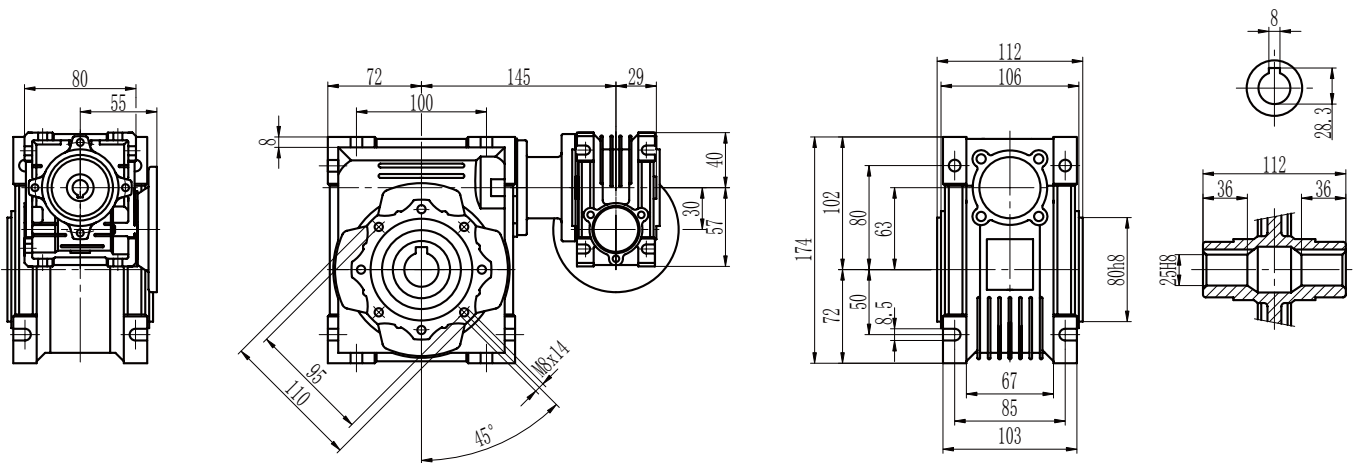


Dimensions

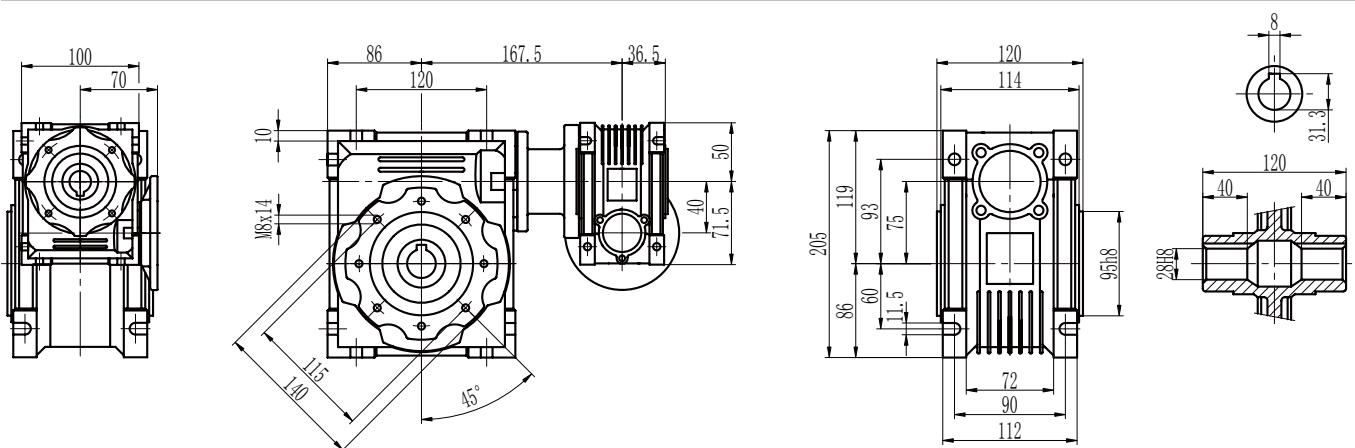
NMRV 030 - NMRV 050



NMRV 030 - NMRV 063

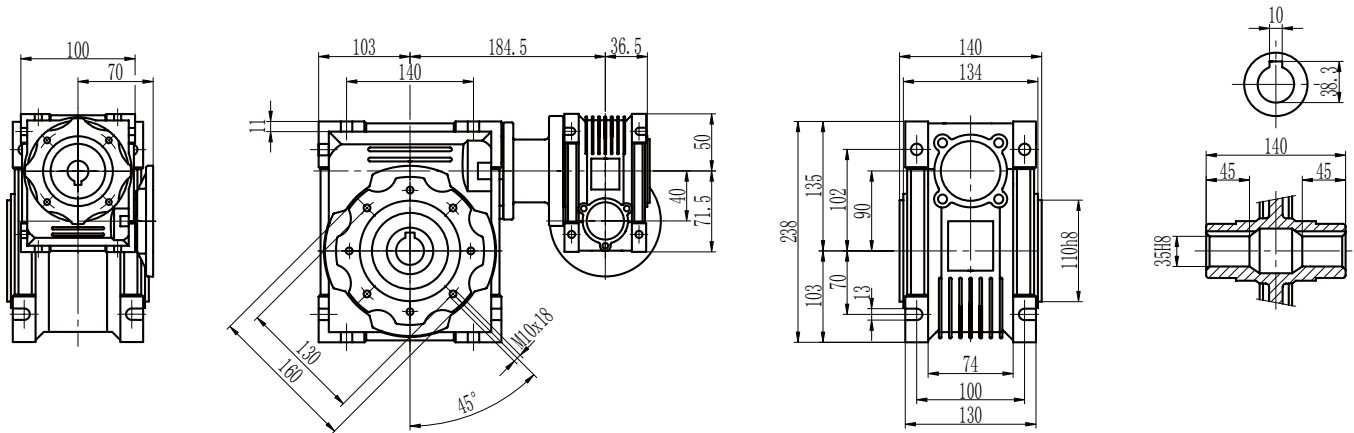


NMRV 040 - NMRV 075

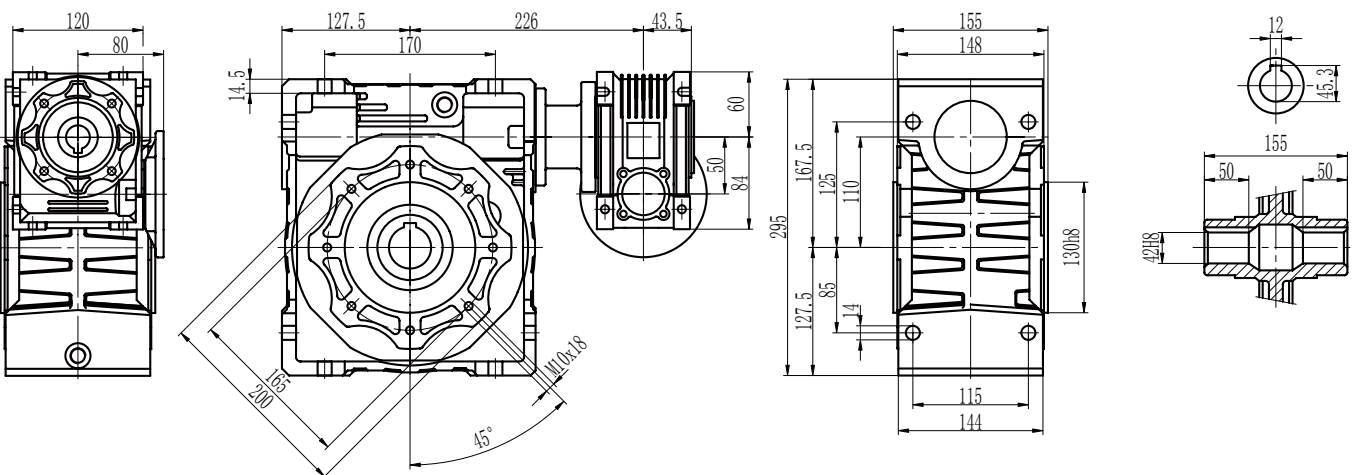


Dimensions

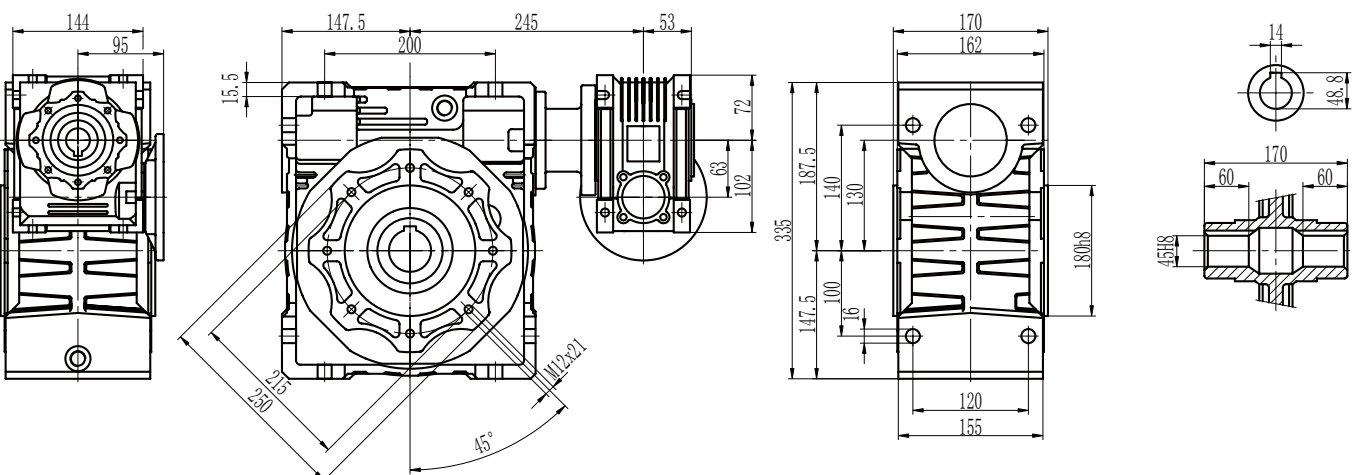
NMRV 040 - NMRV 090



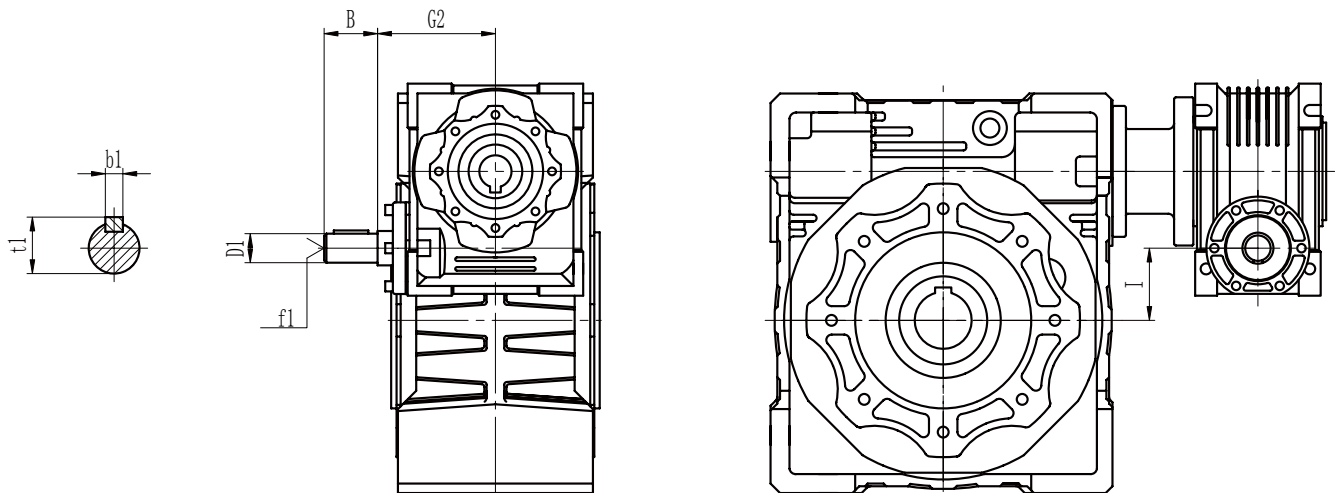
NMRV 050 - NMRV 110



NMRV 063 - NMRV 130

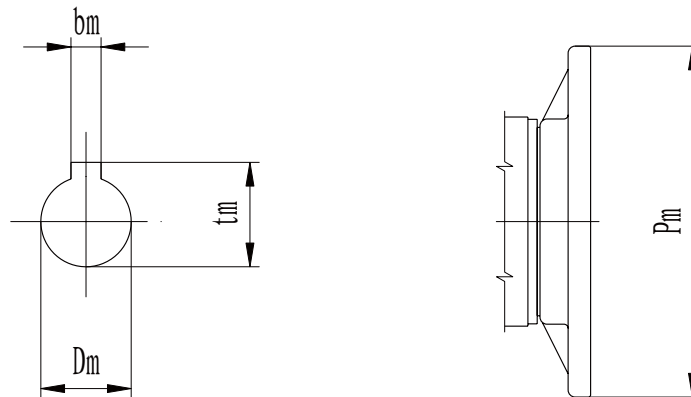


Dimensions



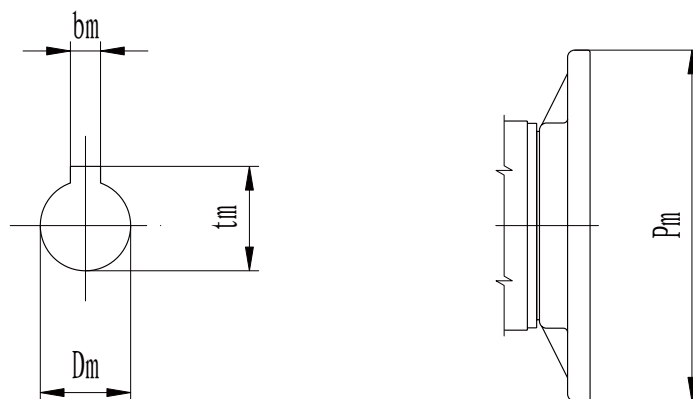
NRV-NMRV	030-040	030-050	030-063	040-075	040-090	050-110	063-130
B	20	20	20	23	23	30	40
D1	9 j6	9 j6	9 j6	11 j6	11 j6	14 j6	19 j6
G2	51	51	51	60	60	74	90
I	10	20	33	35	50	50	67
b1	3	3	3	4	4	5	6
f1	–	–	–	–	–	M6	M6
t1	10.2	10.2	10.2	12.5	12.5	16	21.5

Dimensions



B5	IEC										
	056	063	071	080	090	100	112	132	160	180	200
Pm	120	140	160	200	200	250	250	300	350	350	400
Dm	9	11	14	19	24	28	28	38	42	48	55
bm	3	4	5	6	8	8	8	10	12	14	16
tm	10.4	12.8	16.3	21.8	27.3	31.3	31.3	41.3	45.3	51.8	59.3

Dimensions

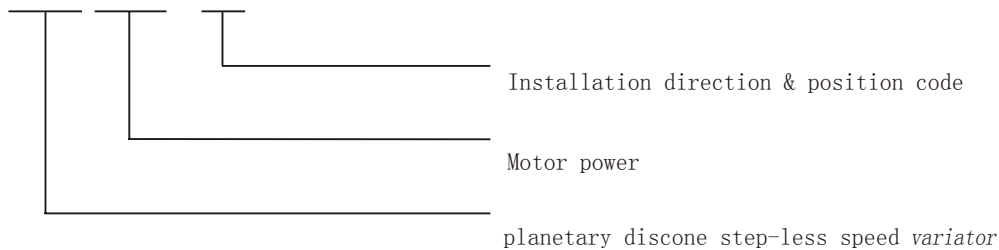


B14	IEC							
	056	063	071	080	090	110	112	132
Pm	80	90	105	120	140	160	160	200
Dm	9	11	14	19	24	28	28	38
bm	3	4	5	6	8	8	8	10
tm	10.4	12.8	16.3	21.8	27.3	31.3	31.3	41.3



UDL Model & Marker

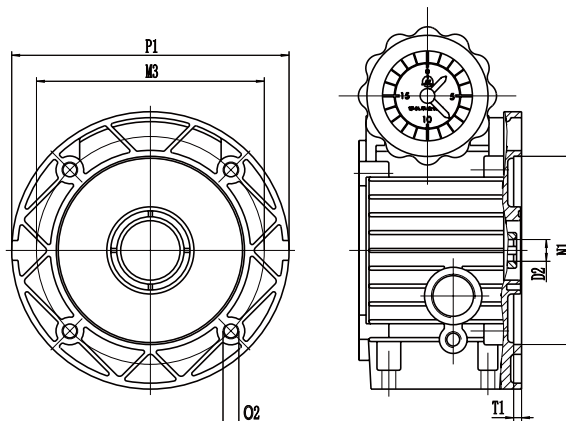
UDL 0.37 - B3



UDL performance

n1	Electrical power	frame size	n2 max	n2 min	M2 min	M2 max	Speed tolerance %	temperature increasing <° C
1400	0.18KW/4P	UDL002	880	170	1.5	3	3-3.8	46
	0.25KW/4P	UDL005	1000	170	2	6	3-8.8	46
	0.37KW/4P	UDL005	1000	170	3	6	3-8.8	46
	0.55KW/4P	UDL010	1000	170	4.4	12	3-8.8	46
	0.75KW/4P	UDL010	1000	170	6	12	3-8.8	46
	1.1KW/4P	UD020	950	165	9	18	3-8.8	46
	1.5KW/4P	UD020	950	165	12	24	3-8.8	46
	2.2KW/4P	UD030	1000	200	18	36	3-8.8	46
	3KW/4P	UD030/050	1000	200	24	48	3-8.8	46
	4KW/4P	UD050	1000	200	32	64	3-8.8	46
	5.5KW/4P	UD100	1000	200	45	90	3-8.8	50
	7.5KW/4P	UD100	1000	200	59	118	3-8.8	50

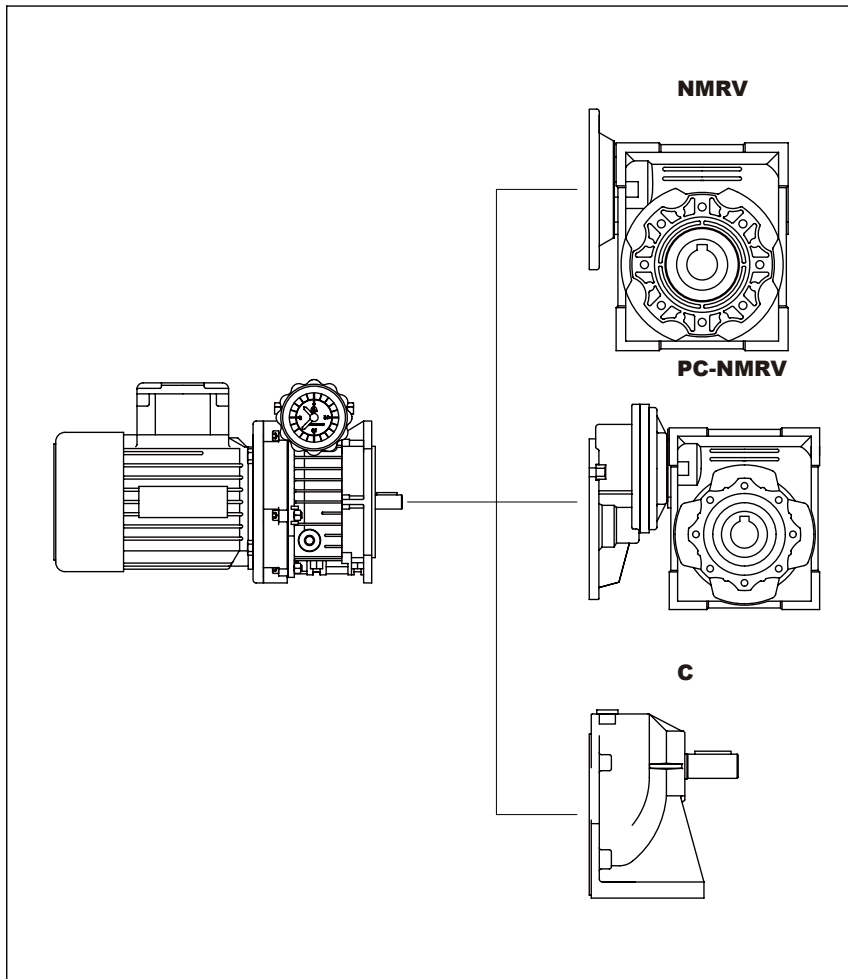
Motor interface



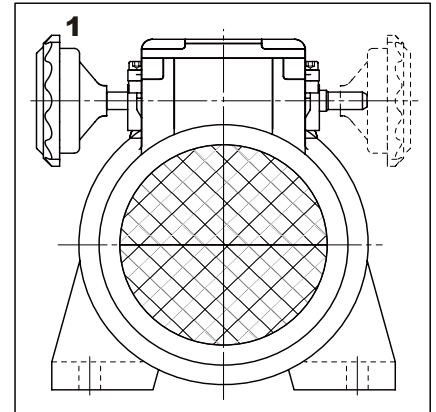
	PAM IEC	P1	N1(H8)	M3	O2	D2(F7)	T1
UDL0.18	63B5	140	95	115	M8	11	5
UDL0.25/0.37	71B5	160	110	130	M8	14	5
UDL0.55	80B5	200	130	165	M10	19	6
UDL0.75	90B5	200	130	165	M10	24	6
UD1.1/1.5	90B5	200	130	165	M10	24	6
UD2.2	100B5	250	180	215	M12	28	6
UD3.0/4.0	100/112B5						
UD5.5	132B5	300	230	265	M12	38	6
UD7.5							

Possible Combinations

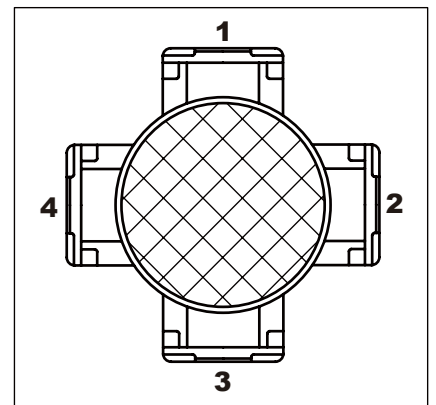
For detailed dimensions, please refer to UD series catalogue



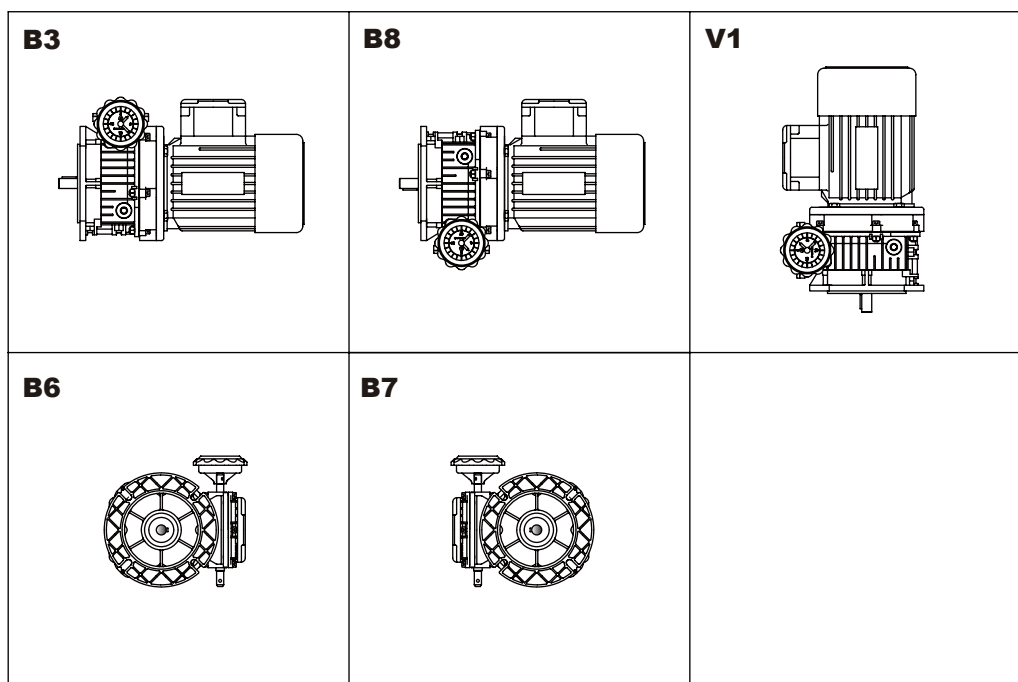
Hand-wheel position diagram
Standard=POS. 1



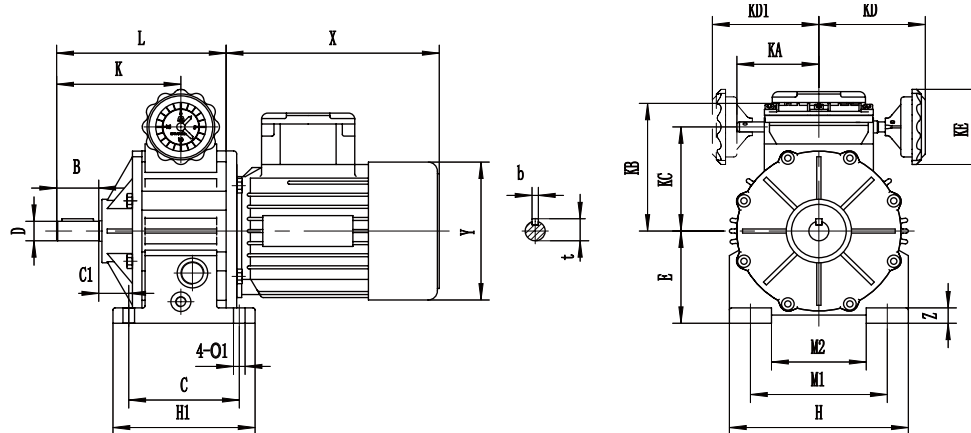
Motor terminal box position diagram



Mounting

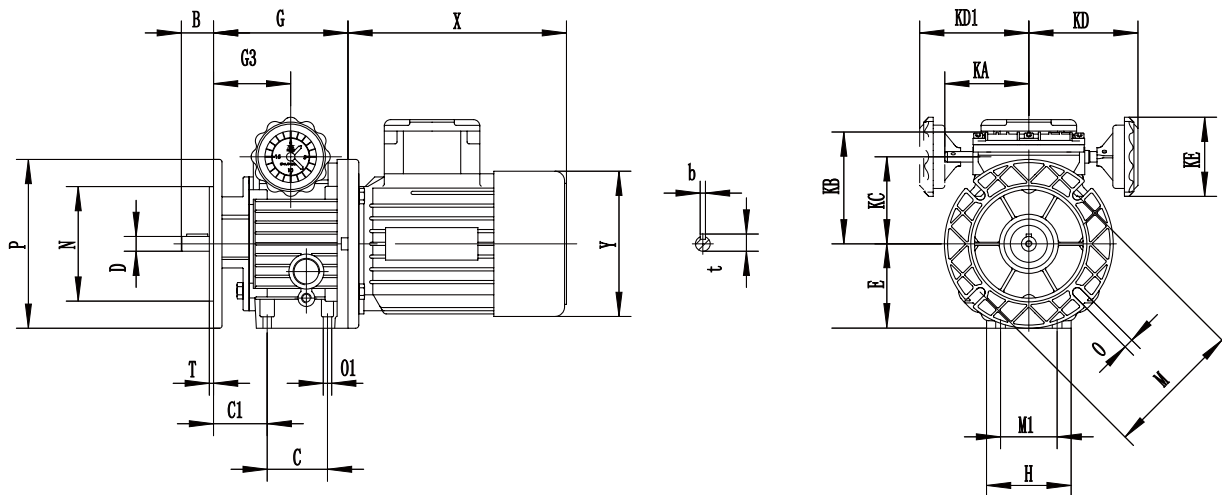


Dimensions of B3 Model



TYPE	B	D(j6)	C	C1	E	H	H1	K	L	M1	M2	O1	KA	KB	KC	KD	KD1	KE	b	t	X	Y	Z
UDL0.18B3	23	11	105	17.5	80	145	120	87.5	135.5	110	71	9	71	111	78	110	110	85	4	12.5	200	120	10
UDL0.25B3	30	14	104	30.5	93	149	125	87.5	137.5	120	96	9	71	123	83	110	110	85	5	16	227	141	10
UDL0.37B3	40	19	125	40	113	190	150	108.5	171	160	135	11	79	140	103	120	120	110	6	21.5	268	160	15
UD1.1B3	40	24	125	46.5	106	200	150	147	203	160	104	13	-	124	109	135	-	110	8	27	265	195	15
UD1.5B3	50	24	140	49	125	230	170	154	221	180	130	13	-	144	127	135	-	110	8	27	290	195	18
UD2.2B3	60	28	230	25	150	300	270	191	268	245	190	14	-	188	158	166	-	110	8	31	320	215	25
UD3.0B3	60	28	230	25	150	300	270	191	268	245	190	14	-	188	158	166	-	110	8	31	320	215	25
UD4.0B3	60	28	230	25	150	300	270	191	268	245	190	14	-	188	158	166	-	110	8	31	340	240	25
UD5.5B3	70	38	250	33	200	365	290	201	319	315	225	18	-	-	192	194	-	110	10	41	395	275	30
UD7.5B3	70	38	250	33	200	365	290	201	319	315	225	18	-	-	192	194	-	110	10	41	435	275	30

Dimensions of B5 model



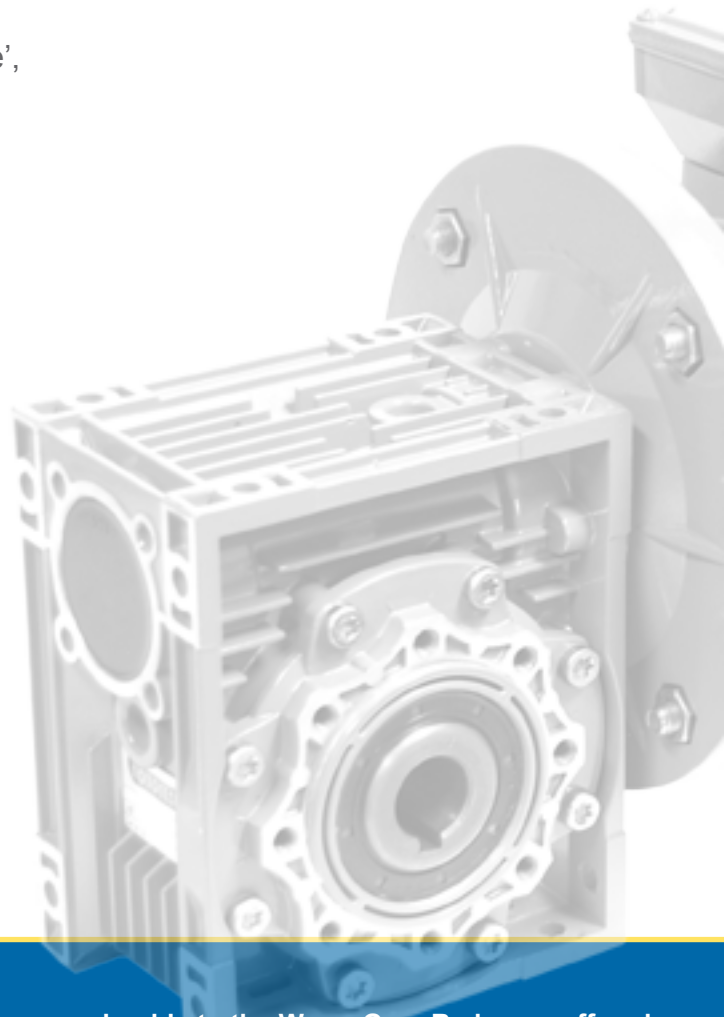
TYPE	B	D(j6)	C	G	G3	E	H	M	M1	N	O	O1	P	T	C1	KA	KB	KC	KD	KD1	KE	b	t	X	Y	Z
UDL0.18B5	23	11	50	112.5	64.5	70	72	115	60	95	9	M6	140	3.5	46	71	111	78	110	110	85	4	12.5	200	120	10
UDL0.25B5	30	14	40	110	74	80	90	130	77	110	9	M8	160	3.5	53	71	123	83	110	110	85	5	16	227	141	10
UDL0.37B5	40	19	58	139	85.5	100	98	165	84	130	11	M8	200	3.5	60	79	140	103	120	120	110	6	21.5	268	160	15
UD1.1B5	40	24	-	147	95	98	207	165	-	130	11	-	200	3.5	-	-	124	109	135	-	110	8	27	265	195	15
UD1.5B5	50	24	-	188	115	126	241	165	-	130	11	-	200	3.5	-	-	144	127	135	-	110	8	27	290	195	18
UD2.2B5	60	28	-	208	131	150	270	215	-	180	15	-	250	4	-	-	188	158	166	-	110	8	31	320	215	25
UD3.0B5	60	28	-	208	131	150	270	215	-	180	15	-	250	4	-	-	188	158	166	-	110	8	31	320	215	25
UD4.0B5	60	28	-	208	131	150	270	215	-	180	15	-	250	4	-	-	188	158	166	-	110	8	31	340	240	25
UD5.5B5	70	38	-	244	131	200	-	265	-	230	19	-	300	5	-	-	-	192	194	-	110	10	41	395	275	30
UD7.5B5	70	38	-	244	131	200	-	265	-	230	19	-	300	5	-	-	-	192	194	-	110	10	41	435	275	30

OTHER LEADING EDGE

ROTOTECH

PRODUCTS

- AC Speed Controllers up to 800 amps
- Soft Starters up to 1100 amps
- Brake Motors up to 110 Kw
- Hazardous Motors Including: Ex'd', Ex'e', Ex'n', DIP & Ex'd' Single Phase
- Single Phase Motors
- Incremental Shaft Encoders
- Electronic Motor Protection Relays
- High Performance Output Drive Filters
- High Voltage Motors
- Slip Ring Motors
- Motor Starters & Control Packages



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