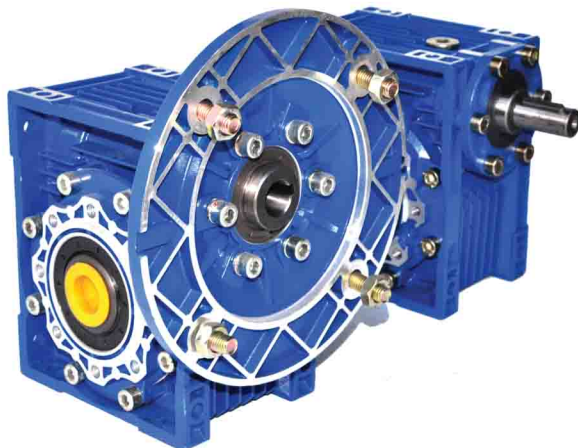




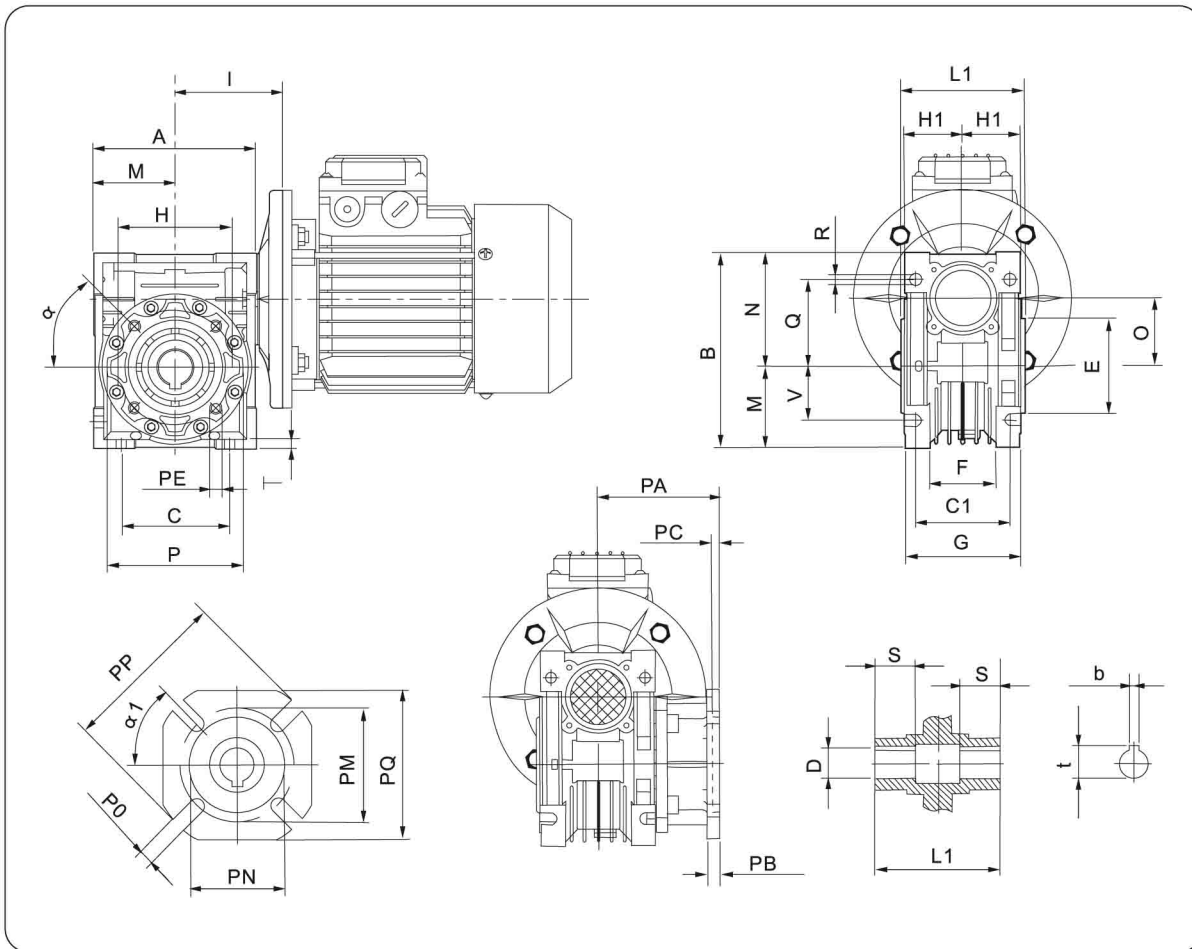
Alliance



**RV SERIES
WORM-GEAR
SPEED REDUCERS**

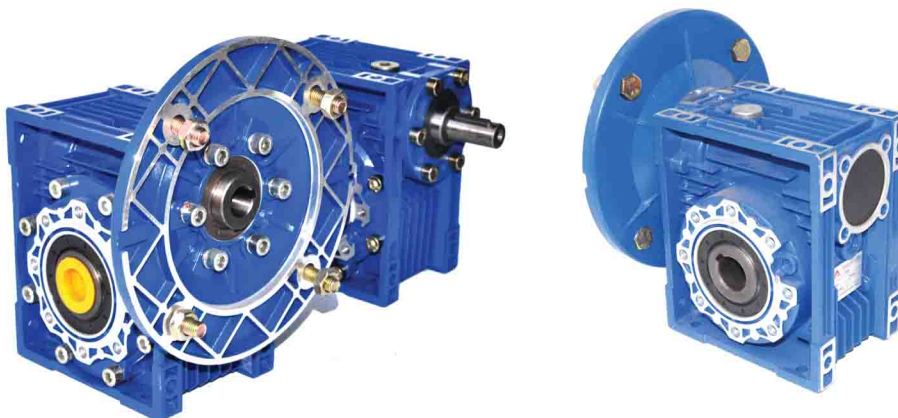


RV DIMENSION

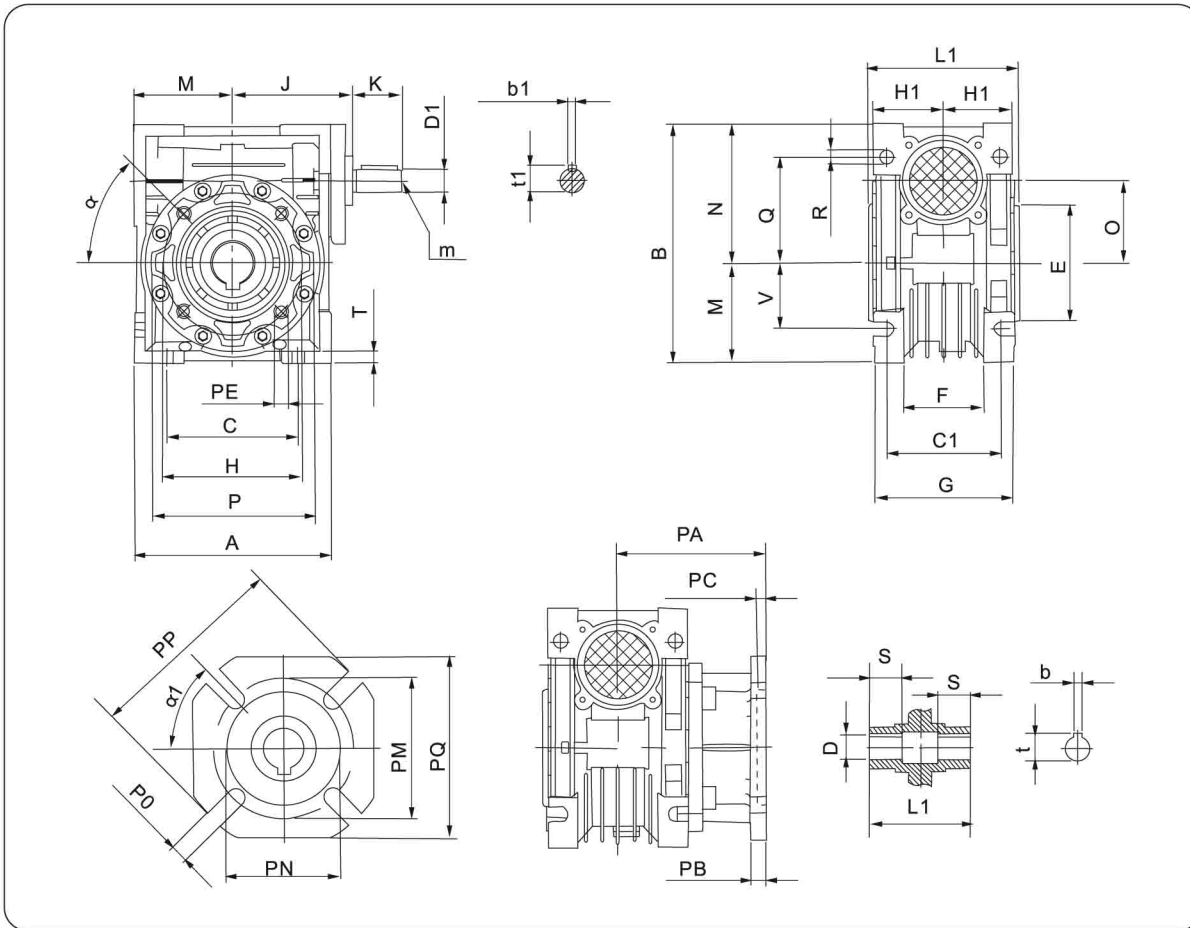


RV	A	B	C	C1	D(h7)	E(h8)	F	G	H	H1	I	L1	M	N	O	P	Q	R
030	80	97	54	44	14	55	32	56	65	29	55	63	40	57	30	75	44	6.5
040	100	121.5	70	60	18(19)	60	43	71	75	36.5	70	78	50	71.5	40	87	55	6.5
050	120	144	80	70	25(24)	70	49	85	85	43.5	80	92	60	84	50	100	64	8.5
063	144	174	100	85	25(28)	80	67	103	95	53	95	112	72	102	63	110	80	8.5
075	172	205	120	90	28(35)	95	72	112	115	57	112.5	120	86	119	75	140	93	11
090	206	238	140	100	35(38)	110	74	130	130	67	129.5	140	103	135	90	160	102	13
110	252.5	295	170	115	42	130	-	144	165	74	160	155	127.5	167.5	110	200	125	14
130	292.5	335	200	120	45	180	-	155	215	81	180	170	147.5	187.5	130	250	140	16

RV	S	T	V	PA	PB	PC	PE	PM	PN(H8)	PO	PP	PQ	b	t	α	α1	Kg
030	21	5.5	27	54.5	6	4	M6x11(n=4)	68	50	6.5(n=4)	80	70	5	16.3	0°	45°	1.2
040	26	6.5	35	67(97)	7	4	M6x8(n=4)	75	60	9(n=4)	110	95	6	20.8(21.8)	45°	45°	2.3
050	30	7	40	90(120)	9	5	M8x10(n=4)	85	70	11(n=4)	125	110	8	28.3(27.3)	45°	45°	3.5
063	36	8	50	82(112)	10	6	M8x14(n=8)	150	115	11(n=4)	180	142	8	28.3(31.3)	45°	45°	6.2
075	40	10	60	111	13	6	M8x14(n=8)	165	130	14(n=4)	200	170	8	31.3(38.3)	45°	45°	9
090	45	11	70	111	13	6	M10x18(n=8)	175	152	14(n=4)	210	200	10	38.3(41.3)	45°	45°	13
110	50	14	85	131	15	6	M10x18(n=8)	230	170	14(n=8)	280	260	12	45.3	45°	45°	35
130	60	15	100	140	15	6	M12x21(n=8)	255	180	16(n=8)	320	290	14	48.8	45°	22.5°	48



RVL DIMENSION

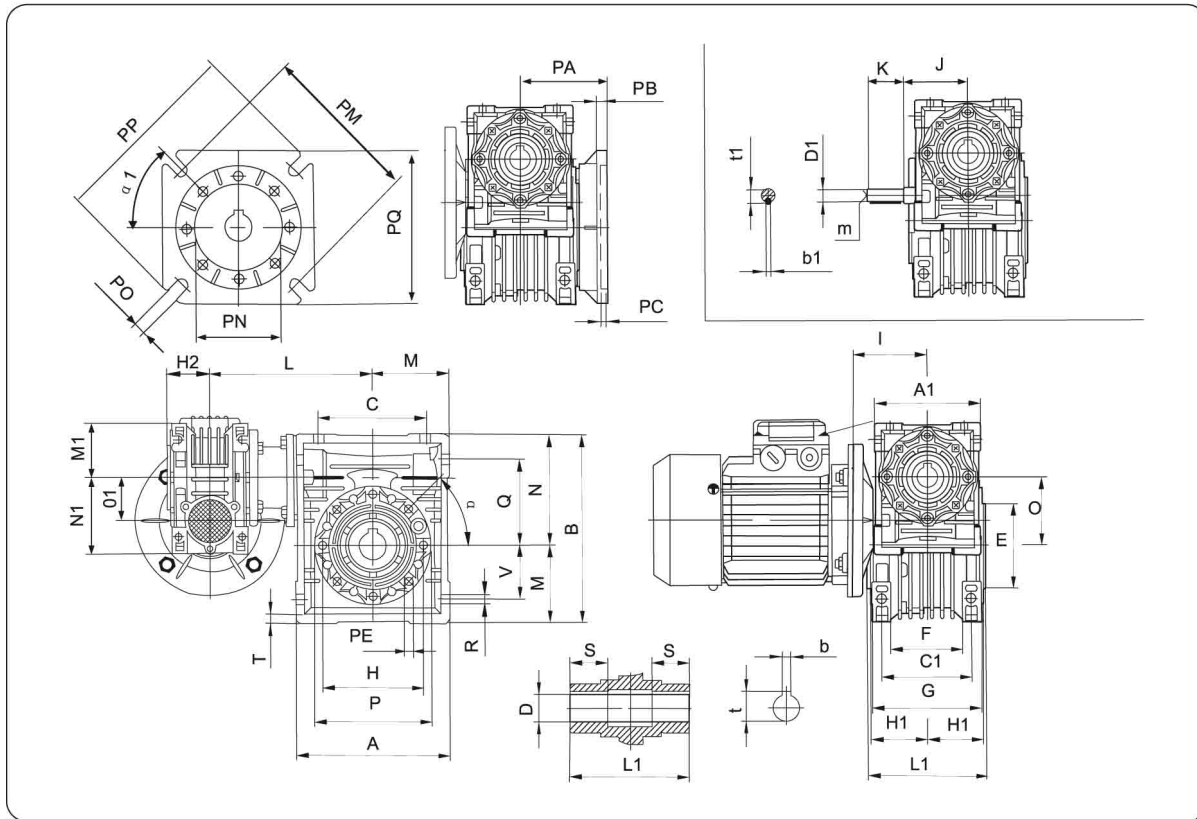


RVL	A	B	C	C1	D(H7)	D1(j6)	E(h8)	F	G	H	H1	J	K	L1	M	N	O	P	Q	R
030	80	97	54	44	14	9	55	32	56	65	29	51	20	63	40	57	30	75	44	6.5
040	100	121.5	70	60	18(19)	11	60	43	71	75	36.5	60	23	78	50	71.5	40	87	55	6.5
050	120	144	80	70	25(24)	14	70	49	85	85	43.5	74	30	92	60	84	50	100	64	8.5
063	144	174	100	85	25(28)	19	80	67	103	95	53	90	40	112	72	102	63	110	80	8.5
075	172	205	120	90	28(35)	24	95	72	112	115	57	105	50	120	86	119	75	140	93	11
090	206	238	140	100	35(38)	24	110	74	130	130	67	125	50	140	103	135	90	160	102	13
110	252.5	295	170	115	42	28	130	-	144	165	74	142	60	155	127.5	167.5	110	200	125	14
130	292.5	335	200	120	45	30	180	-	155	215	81	162	80	170	147.5	187.5	130	250	140	16

RVL	S	T	V	PA	PB	PC	PE	PM	PN(H8)	PO	PP	PQ	b	b1	t	t1	m	α	α_1	Kg
030	21	5.5	27	54.5	6	4	M6x11(n=4)	68	50	6.5(n=4)	80	70	5	3	16.3	10.2	-	0°	45°	1.2
040	26	6.5	35	67(97)	7	4	M6x8(n=4)	75	60	9(n=4)	110	95	6	4	20.8(21.8)	12.5	-	45°	45°	2.3
050	30	7	40	90(120)	9	5	M8x10(n=4)	85	70	11(n=4)	125	110	8	5	28.3(27.3)	16.0	M6	45°	45°	3.5
063	36	8	50	82(112)	10	6	M8x14(n=8)	150	115	11(n=4)	180	142	8	6	28.3(31.3)	21.5	M6	45°	45°	6.2
075	40	10	60	111	13	6	M8x14(n=8)	165	130	14(n=4)	200	170	8	8	31.3(38.3)	27.0	M8	45°	45°	9
090	45	11	70	111	13	6	M10x18(n=8)	175	152	14(n=4)	210	200	10	8	38.3(41.3)	27.0	M8	45°	45°	13
110	50	14	85	131	15	6	M10x18(n=8)	230	170	14(n=8)	280	260	12	8	45.3	31.0	M10	45°	45°	35
130	60	15	100	140	15	6	M12x21(n=8)	255	180	16(n=8)	320	290	14	8	48.8	33.0	M10	45°	22.5°	48



RVE DIMENSION

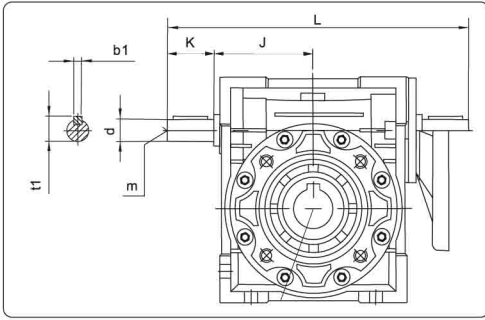


RVE	A	A1	B	C	C1	D(H7)	D1(j6)	E(h8)	F	G	H	H1	H2	I	J	K	L	L1	M	M1	N	N1	O	O1	P
030/040	100	80	121.5	70	60	18(19)	9	60	43	71	75	36.5	29	55	51	20	120	78	50	40	71.5	57	40	30	87
030/050	120	80	144	80	70	25(24)	9	70	49	85	85	43.5	29	55	51	20	130	92	60	40	84	57	50	30	100
030/063	144	80	174	100	85	25(28)	9	80	67	103	95	53	29	55	51	20	145	112	72	40	102	57	63	30	110
040/075	172	100	205	120	90	28(35)	11	95	72	112	115	57	36.5	70	60	23	165	120	86	50	119	71.5	75	40	140
040/090	206	100	238	140	100	35(38)	11	110	74	130	130	67	36.5	70	60	23	182	140	103	50	135	71.5	90	40	160
050/110	252.5	120	295	170	115	42	14	130	-	144	165	74	43.5	80	74	30	225	155	127.5	60	167.5	84	110	50	200
063/130	292.5	144	335	200	120	45	19	180	-	155	215	81	53	95	90	40	245	170	147.5	72	187.5	102	130	63	250

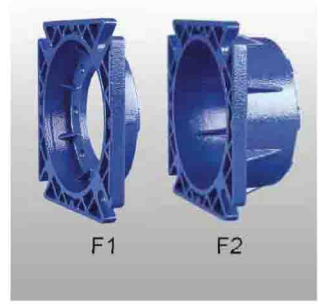
RVE	Q	R	S	T	V	PA	PB	PC	PE	PM	PN(h8)	PO	PP	PQ	α	α1	b	b1	t	t1	m	Kg
030/040	55	6.5	26	6.5	35	67(97)	7	4	M6x8(n=4)	75	60	9(n=4)	110	110	45°	45°	6(6)	3	20.8(21.8)	10.2	-	3.9
030/050	64	8.5	30	7	40	90(120)	9	5	M8x10(n=4)	85	70	11(n=4)	125	110	45°	45°	8(8)	3	28.3(27.3)	10.2	-	5.0
030/063	80	8.5	36	8	50	82(112)	10	6	M8x14(n=8)	150	115	11(n=4)	180	142	45°	45°	8(8)	3	28.3(31.3)	10.2	-	7.8
040/075	93	11	40	10	60	111	13	6	M8x14(n=8)	165	130	14(n=4)	200	170	45°	45°	8(8)	4	31.3(38.3)	12.5	-	12.0
040/090	102	13	45	11	70	111	13	6	M10x18(n=8)	175	152	14(n=4)	210	200	45°	45°	10(10)	4	38.3(41.3)	12.5	-	16.0
050/110	125	14	50	14	85	131	15	6	M10x18(n=8)	230	170	14(n=8)	280	260	45°	45°	12	5	45.3	16.0	M6	39.2
063/130	140	16	60	15	100	140	15	6	M12x21(n=8)	255	180	16(n=6)	320	290	45°	22.5°	14	6	48.3	21.5	M6	55.0



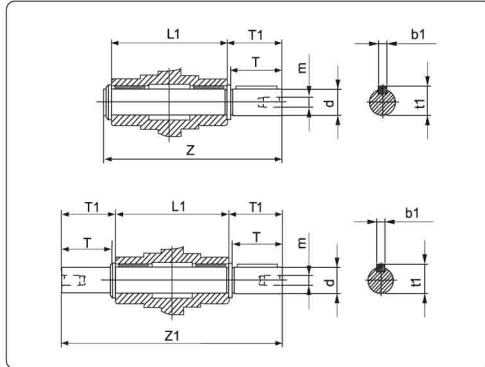
Extension worm shaft (S) dimensions



	J	d(j6)	K	L	m	b1	t1
030	45	9	20	136	-	3	10.2
040	53	11	23	165	-	4	12.5
050	64	14	30	198	M6	5	16
063	75	19	40	245	M6	6	21.5
075	90	24	50	295	M8	8	27
090	108	24	50	333	M8	8	27
110	135	28	60	397	M10	8	31
130	155	30	80	477	M10	8	33



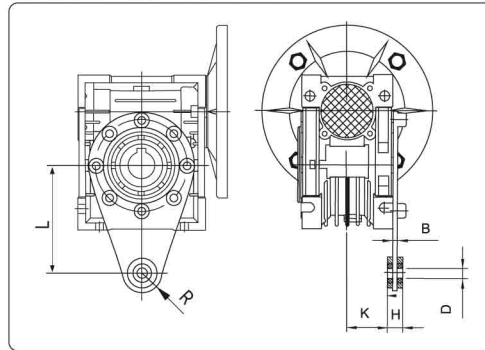
Output Shaft (A, A2) dimensions



	d(h6)	T	T1	L1	Z	Z1	m	b1	t1
030	14	30	32.5	63	102	128	M6	5	16
040	18	40	43	78	128	164	M6	6	20.5
050	25	50	53.5	92	153	199	M10	8	28
063	25	50	53.5	112	173	219	M10	8	28
075	28	60	63.5	120	192	247	M10	8	31
090	35	80	84.5	140	234	309	M12	10	38
110	42	80	84.5	155	249	324	M16	12	45
130	45	80	85	170	265	340	M16	14	48.5



Torque arm (B) dimensions



	L	H	K	D	R	B
030	85	14	24	8	15	4
040	100	14	31.5	10	18	4
050	100	14	38.5	10	18	4
063	150	14	49	10	18	6
075	200	25	47.5	20	30	6
090	200	25	57.5	20	30	6
110	250	30	62	25	35	6
130	250	30	69	25	35	6



RV Reducer Lubrication Volume

-Lubrication volume for RV is related with mounting position of reducer
 -All stock of RV reducers are filled with WA460 lubrication according to B3 mounting position. For 110 and 130 reducers, if the mounting position is different from B3, a special indication is required.

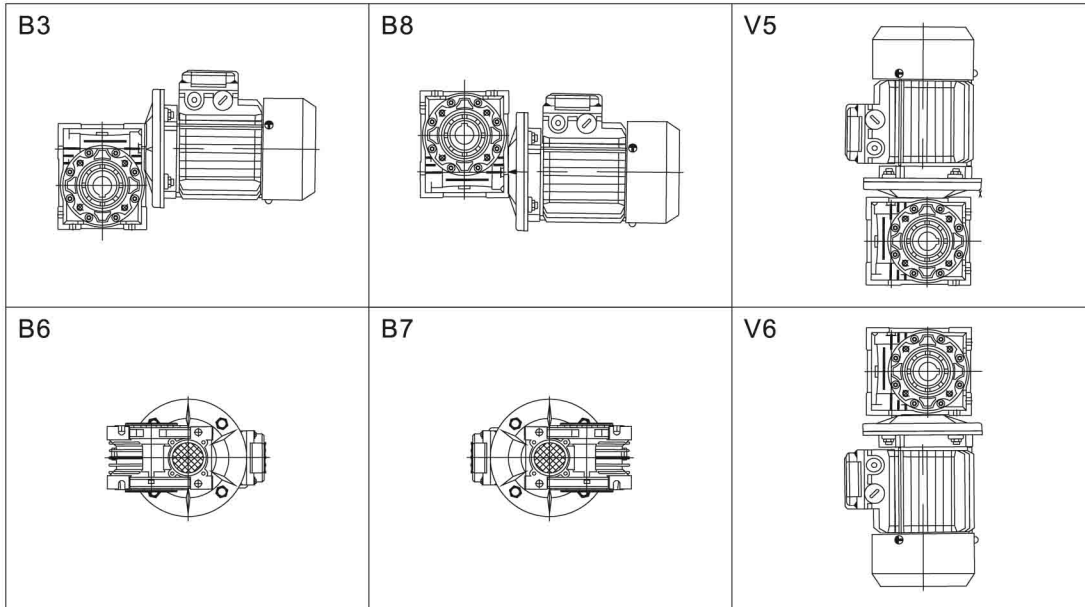
/LUBRICATION VOLUME(LITRE)								
RV	030	040	050	063	075	090	110	130
B3	0.042	0.081	0.153	0.3	0.58	1.02	3.02	4.55
B8							2.25	3.35
B6,B7							2.55	3.55
V5,V6							3.02	4.55

Selection of Lubrication

/RECOMMENDED LUBRICATION

/RECOMMENDED LUBRICATION		
/FOR EXPORT REDUCERS		TELIUM VSF MELIANA OIL 320
		MOBILGEAR 320 GLYGOYLE

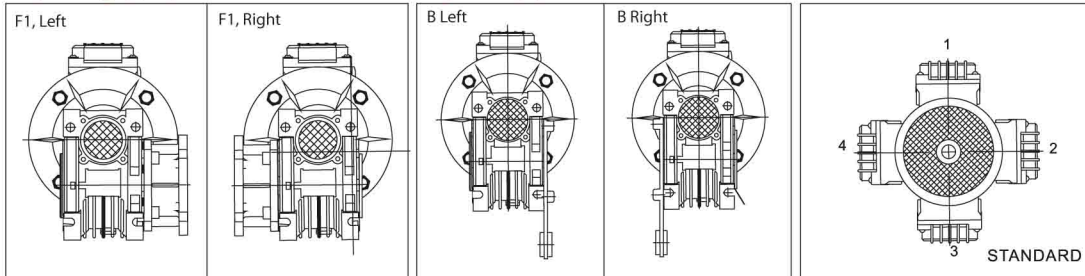
RV MOUNTING POSITION



Output flange(F,FL)

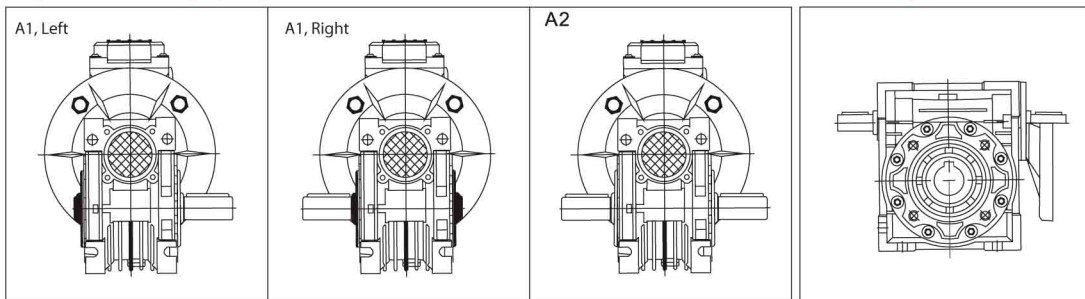
Torque arm(B)

Position of motor terminal box

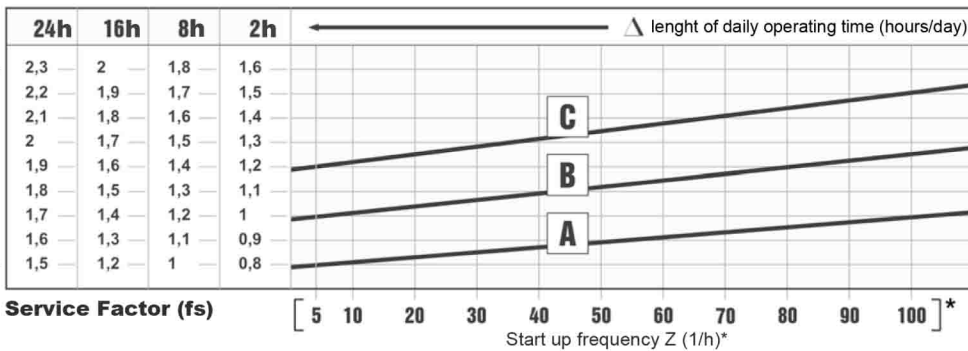


Output shaft of worm(A1, A2)

Extension input of worm shaft



Relevant Parameters



SERVICE FACTOR

The service factor (f.s.) depends on the operating conditions the gear reducers is subjected to.

The parameters that need to be taken into consideration to select the most adequate service factor correctly comprise:

- type of load the operated machine: A-B-C
- length of daily operating time: hours/day (Δ)
- start-up frequency: starts/hour (*)

LOAD: A - uniform $f_a \leq 0.3$
 B - moderate shocks $f_a \leq 0$
 C - heavy shocks $f_a \leq 10$

* Starting frequency Z : The cycles include all starting and braking procedures as well as change over from low to high speed