

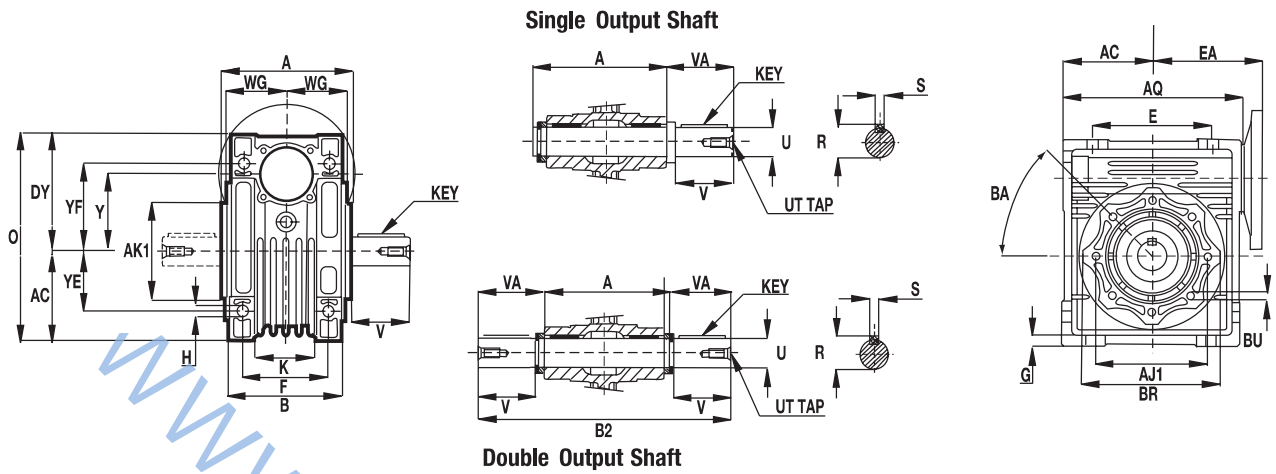


## Type&Expression

NMRV	110	50	140TC	Foot Mount	B3	Protective Cover
Model	Size	Ratio	Input Size	Output Design	Mounting Position	Yes
NMRV	Aluminum	7.5/10/ 15/20/2 5/30/40 /50/60/ 80/100				
	030		48TC	Shaft Mount	B3	Torque Arm
	040		56TC		B6	
	050		140TC		B7	Double Shaft
	063		180TC	Foot Mount	B8	
	075		210TC		V5	Single Shaft
NRV	090		250TC	Flange Mount	V6	
	Cast Iron				Output Flange	
	110					
	130					
	150					

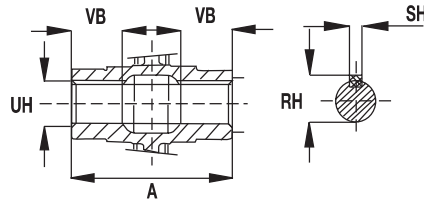
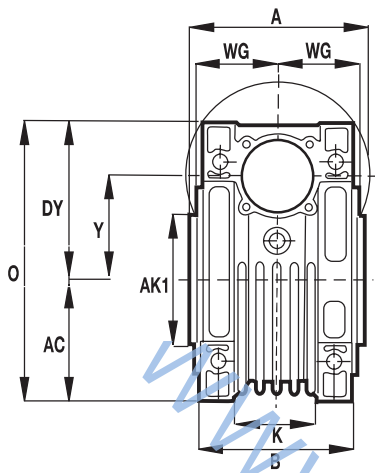


Size	A	AC	AJ1	AK1	AQ	B	BA	BR	BU	DY	E
040	3.07	1.97	2.95	2.36	3.94	2.80	45°	3.43	M 6 Tap, 0.32 deep, 4 pl.	2.81	2.76
050	3.62	2.36	3.35	2.76	4.72	3.35	45°	3.94	M 8 Tap, 0.39 deep, 4 pl.	3.31	3.15
063	4.41	2.83	3.74	3.15	5.67	4.06	45°	4.33	M 8 Tap, 0.55 deep, 8 pl.	4.02	3.94
075	4.72	3.39	4.53	3.74	6.77	4.41	45°	5.51	M 8 Tap, 0.55 deep, 8 pl.	4.69	4.72
090	5.51	4.06	5.12	4.33	8.1	5.12	45°	6.30	M 10 Tap, 0.71 deep, 8 pl.	5.32	5.51
110	6.10	5.02	6.50	5.12	9.94	5.67	45°	7.87	M 10 Tap, 0.71 deep, 8 pl.	6.59	6.69
130	6.69	5.81	8.46	7.09	11.52	6.10	45°	9.84	M 12 Tap, 0.83 deep, 8 pl.	7.38	7.87
150	7.87	6.69	8.46	7.09	13.39	7.28	45°	9.84	M 12 Tap, 0.83 deep, 8 pl.	9.06	9.45

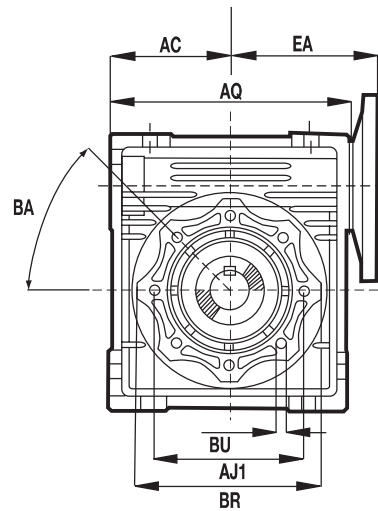
Size	EA	F	G	H	K	O	WG	Y	YE	YF
040	3.15	2.36	0.26	0.26	1.69	4.78	1.44	1.58	1.38	2.17
050	3.54	2.76	0.28	0.34	1.93	5.67	1.71	1.97	1.58	2.52
063	4.13	3.35	0.32	0.33	2.64	6.85	2.09	2.18	1.97	3.15
075	4.96	3.54	0.39	0.45	2.83	8.07	2.24	2.95	2.36	3.66
090	5.63	3.94	0.43	0.51	2.91	9.37	2.64	3.54	2.76	4.02
110	6.81	4.43	0.57	0.55	-	11.61	2.91	4.33	3.35	4.92
130	7.60	4.72	0.61	0.63	-	13.18	3.19	5.12	3.94	5.51
150	8.27	5.71	0.71	0.71	-	15.75	3.78	5.91	4.72	7.09

### Solid Output Shaft

Size	B2	R	S	U	UT	V	VA	Key Length	Key Square
040	7.24	0.83	0.188	0.750	1/4-20	1.97	2.09	1.500	0.188
050	7.83	1.11	0.250	1.000	3/8-16	1.97	2.11	1.500	0.250
063	9.41	1.23	0.250	1.125	3/8-16	2.36	2.50	1.875	0.250
075	10.51	1.36	0.250	1.250	1/2-13	2.76	2.89	2.250	0.250
090	12.13	1.51	0.313	1.375	1/2-13	3.15	3.33	2.500	0.313
110	16.14	1.79	0.375	1.625	5/8-11	3.54	4.13	2.750	0.375
130	14.17	1.92	0.375	1.750	5/8-11	3.64	3.74	2.750	0.375
150	16.14	2.22	0.500	2.000	3/4-10	4.02	4.57	3.500	0.500



Hollow Output Bore

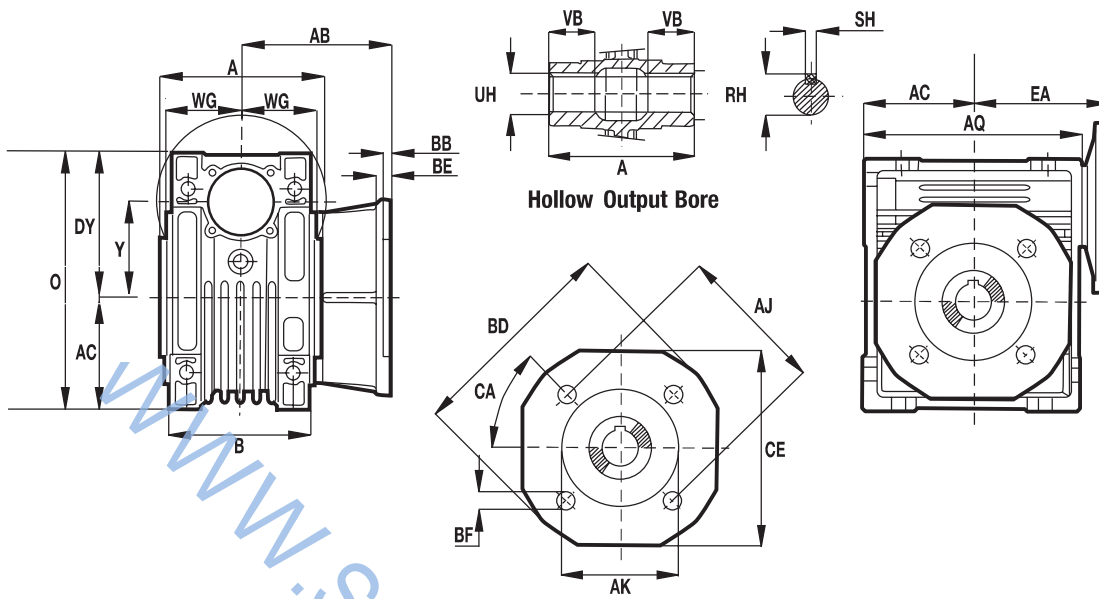


Size	A	AC	AJ1	AK1	AQ	B	BA	BR	BU
040	3.07	1.97	2.95	2.36	3.94	2.80	45°	3.43	M 6 Tap, 0.32 deep, 4 pl.
050	3.62	2.36	3.35	2.76	4.72	3.35	45°	3.94	M 8 Tap, 0.39 deep, 4 pl.
063	4.41	2.83	3.74	3.15	5.67	4.06	45°	4.33	M 8 Tap, 0.55 deep, 8 pl.
075	4.72	3.39	4.53	3.74	6.77	4.41	45°	5.51	M 8 Tap, 0.55 deep, 8 pl.
090	5.51	4.06	5.12	4.33	8.11	5.12	45°	6.30	M 10 Tap, 0.71 deep, 8 pl.
110	6.10	5.02	6.50	5.12	9.94	5.67	45°	7.87	M 10 Tap, 0.71 deep, 8 pl.
130	6.69	5.81	8.46	7.09	11.52	6.10	45°	9.84	M 12 Tap, 0.83 deep, 8 pl.
150	7.87	6.69	8.46	7.09	13.39	7.28	45°	9.84	M 12 Tap, 0.83 deep, 8 pl.

Size	DY	EA	K	O	WG	Y
040	2.81	3.15	1.69	4.78	1.44	1.58
050	3.31	3.54	1.93	5.67	1.71	1.97
063	4.02	4.13	2.64	6.85	2.09	2.46
075	4.69	4.96	2.83	8.07	2.24	2.95
090	5.32	5.63	2.91	9.37	2.64	3.54
110	6.59	6.81	-	11.61	2.91	4.33
130	7.38	7.60	-	13.19	3.19	5.12
150	9.06	8.27	-	15.75	3.78	5.91

**Hollow Output Bore**

Size	RH	SH	UH	VB
040	0.84	0.188	0.750	1.02
050	1.11	0.250	1.000	1.18
063	1.24	0.250	1.125	1.42
075	1.37	0.250	1.250	1.57
090	1.52	0.313	1.375	1.77
110	1.80	0.375	1.625	1.97
130	1.92	0.375	1.750	2.36
150	2.22	0.500	2.000	2.85



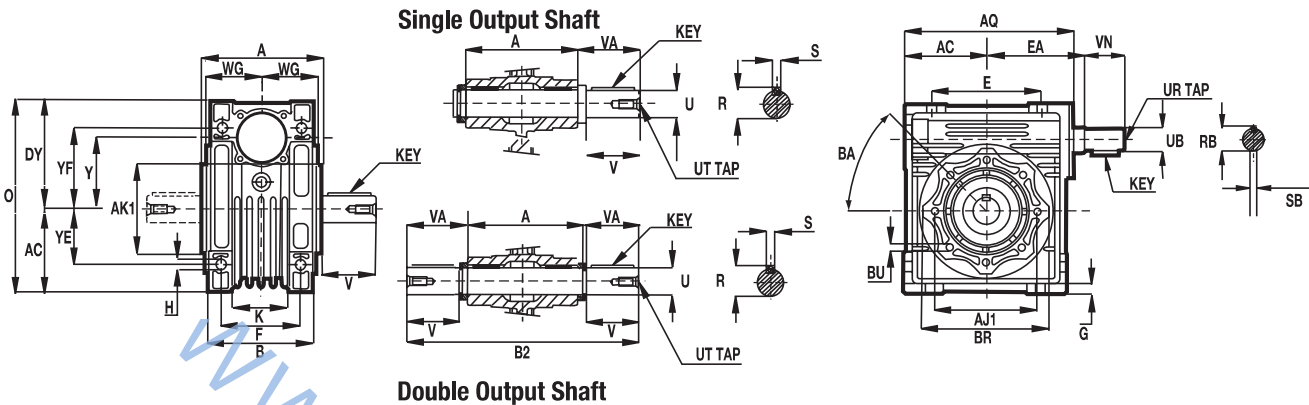
Size	A	AC	AQ	B	DY	EA	O	WG	Y
040	3.07	1.97	3.94	2.80	2.81	3.15	4.78	1.44	1.58
050	3.62	2.36	4.72	3.35	3.31	3.54	5.67	1.71	1.97
063	4.41	2.83	5.67	4.06	4.02	4.13	6.85	2.09	2.48
075	4.72	3.39	6.77	4.41	4.69	4.96	8.07	2.24	2.95
090	5.51	4.06	8.11	5.12	5.32	5.63	9.37	2.64	3.54
110	6.10	5.02	9.94	5.67	6.59	6.81	11.61	2.91	4.33
130	6.69	5.81	11.52	6.10	7.38	7.60	13.19	3.19	5.12
150	7.87	6.69	13.39	7.28	9.06	8.27	15.75	3.78	5.91

### Standard Flange

Size	AB	AJ	AK	BB	BD	BE	BF	CA	CE
040	2.64	2.95	2.36	0.16	4.33	0.28	.35, 4 pl.	45°	3.74
050	3.54	3.35	2.76	0.20	4.92	0.35	.43, 4 pl.	45°	4.33
063	3.23	5.91	4.53	0.24	7.09	0.39	.43, 4 pl.	45°	5.60
075	4.37	6.49	5.12	0.24	7.87	0.51	.55, 4 pl.	45°	6.69
090	4.37	6.89	5.98	0.24	8.27	0.51	.55, 4 pl.	45°	7.87
110	5.16	9.06	6.69	0.24	11.02	0.59	.55, 8 pl.	45°	10.24
130	5.51	10.03	7.09	0.28	12.60	0.59	.63, 8 pl.	22.5°	11.42
150	6.10	10.03	7.09	0.28	12.60	0.59	.63, 8 pl.	22.5°	11.42

### Hollow Output Bore

Size	RH	SH	UH	VB
040	0.84	0.188	0.750	1.02
050	1.11	0.250	1.000	1.18
063	1.24	0.250	1.125	1.42
075	1.37	0.250	1.250	1.57
090	1.52	0.313	1.375	1.77
110	1.80	0.375	1.625	1.97
130	1.92	0.375	1.750	2.36
150	2.22	0.500	2.000	2.85



Size	A	AC	AJ 1	AK 1	AQ	B	BA	BR	B U	DY	E
040	3.07	1.97	2.95	2.36	3.94	2.80	45°	3.43	M 6 Tap, 0.32 deep, 4 pl.	2.81	2.76
050	3.62	2.36	3.35	2.76	4.72	3.35	45°	3.94	M 8 Tap, 0.39 deep, 4 pl.	3.31	3.15
063	4.41	2.83	3.74	3.15	5.67	4.06	45°	4.33	M 8 Tap, 0.55 deep, 8 pl.	4.02	3.94
075	4.72	3.39	4.53	3.74	6.77	4.41	45°	5.51	M 8 Tap, 0.55 deep, 8 pl.	4.69	4.72
090	5.51	4.06	5.12	4.33	8.11	5.12	45°	6.30	M 10 Tap, 0.71 deep, 8 pl.	5.32	5.51
110	6.10	5.02	6.50	5.12	9.94	5.67	45°	7.87	M 10 Tap, 0.71 deep, 8 pl.	6.59	6.69
130	6.69	5.81	8.46	7.09	11.52	6.10	45°	9.84	M 12 Tap, 0.83 deep, 8 pl.	7.38	7.87
150	7.87	6.69	8.46	7.09	13.39	7.28	45°	9.84	M 12 Tap, 0.83 deep, 8 pl.	9.06	9.45

Size	E A	F	G	H	K	O	W G	Y	Y E	Y F
040	3.15	2.36	0.26	0.26	1.69	4.78	1.44	1.58	1.38	2.17
050	3.54	2.76	0.28	0.34	1.93	5.67	1.71	1.97	1.58	2.52
063	4.13	3.35	0.32	0.33	2.64	6.85	2.09	2.46	1.97	3.15
075	4.96	3.54	0.39	0.45	2.83	8.07	2.24	2.95	2.36	3.66
090	5.63	3.94	0.43	0.51	2.91	9.37	2.64	3.54	2.76	4.02
110	6.81	4.43	0.57	0.55	-	11.61	2.91	4.33	3.35	4.92
130	7.60	4.72	0.61	0.63	-	13.18	3.19	5.12	3.94	5.51
150	8.27	5.71	0.71	0.71	-	15.75	3.78	5.91	4.72	7.09

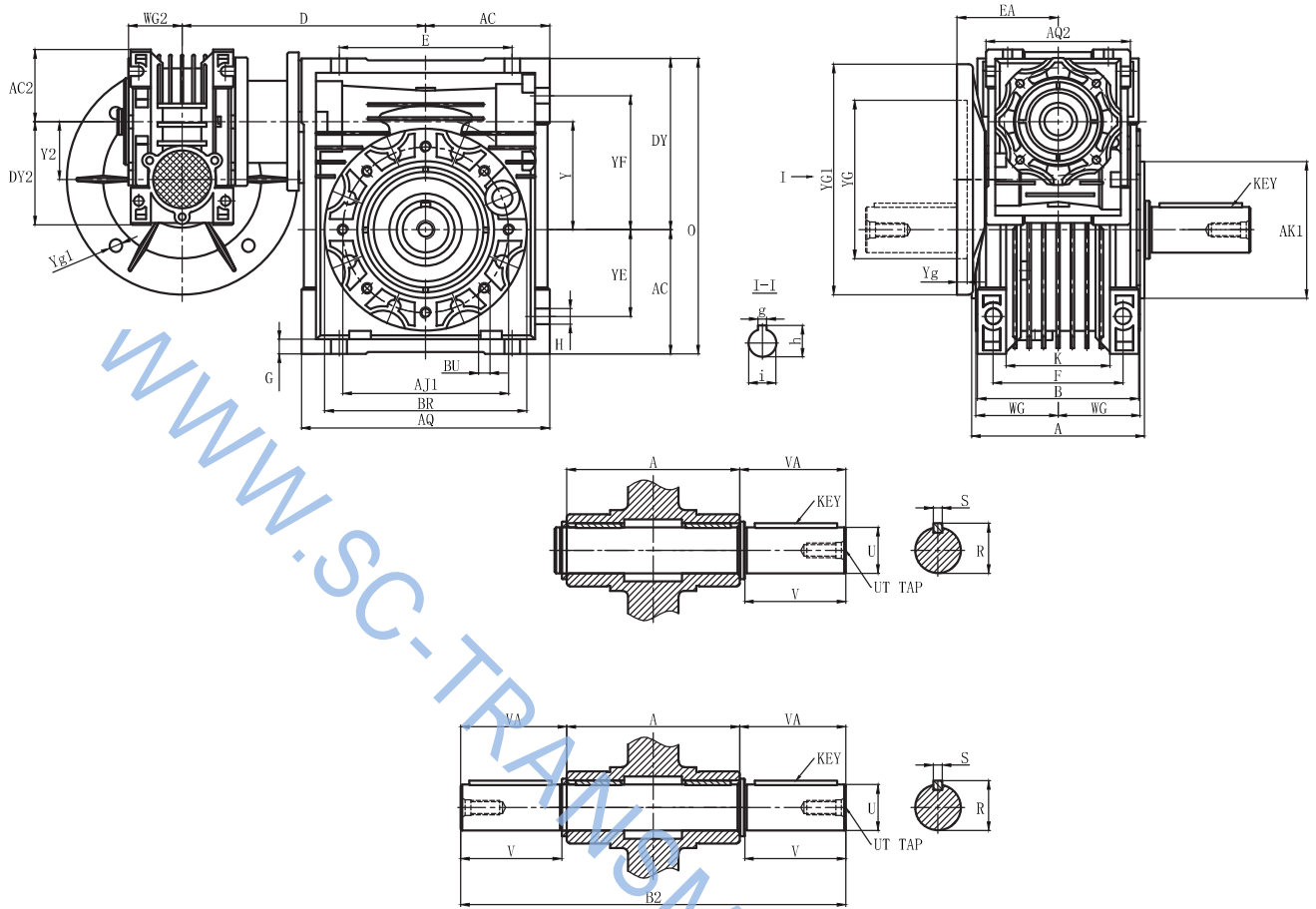
Size	R B	S B	U B	U R	V N	Key Length	Key Square
040	0.55	0.125	0.500	1/4-2 0	1.18	0.875	0.125
050	0.70	0.188	0.625	1/4-2 0	1.58	1.125	0.188
063	0.83	0.188	0.750	1/4-2 0	1.97	1.500	0.188
075	0.96	0.188	0.875	1/4-2 0	2.36	1.875	0.188
090	0.96	0.188	0.875	1/4-2 0	2.36	1.875	0.188
110	1.23	0.250	1.125	3/8-1 6	2.76	2.250	0.250
130	1.36	0.250	1.250	1/2-1 3	3.15	2.500	0.250
150	1.51	0.313	1.375	1/2-1 3	3.15	2.875	0.313

Size	B 2	R	S	U	U T	V	VA	Key Length	Key Square
040	7.24	0.83	0.188	0.750	1/4-2 0	1.97	2.09	1.500	0.188
050	7.83	1.11	0.250	1.000	3/8-1 6	1.97	2.11	1.500	0.250
063	9.41	1.23	0.250	1.125	3/8-1 6	2.36	2.50	1.875	0.250
075	10.51	1.36	0.250	1.250	1/2-1 3	2.76	2.89	2.250	0.250
090	12.13	1.51	0.313	1.375	1/2-1 3	3.15	3.33	2.500	0.313
110	16.14	1.79	0.375	1.625	5/8-1 1	3.54	4.13	2.750	0.375
130	14.17	1.92	0.375	1.750	5/8-1 1	3.64	3.74	2.750	0.375
150	16.14	2.22	0.500	2.000	3/4-1 0	4.02	4.57	3.500	0.500

## DOUBLE REDUCTION RATINGS

Ratio Combination			1750 RPM Input Speed		
Size	Ratio	Pri.	Sec.	Input HP	Output Torque
<b>040/075</b>	100	10	10	1.40	3235
	150	10	15	1.00	3235
	200	10	20	0.75	3235
	250	10	25	0.65	3235
	300	10	30	0.62	3453
	400	10	40	0.47	3188
	500	10	50	0.36	2833
	600	20	30	0.35	3457
	750	25	30	0.28	3457
	900	30	30	0.25	3457
	1200	30	40	0.20	3190
	1500	50	30	0.18	3455
	1800	60	30	0.16	3455
	2400	60	40	0.13	3188
	3000	60	50	0.10	2833
	4000	50	80	0.09	2215
	5000	10	100	0.08	2040
<b>040/090</b>	100	10	10	2.05	5035
	150	10	15	1.98	6198
	200	10	20	1.40	5400
	250	10	25	0.95	5045
	300	7.5	40	0.94	5395
	400	10	40	0.75	5400
	500	10	50	0.60	4960
	600	15	40	0.55	5400
	750	15	50	0.41	4960
	900	15	60	0.35	4470
	1200	30	40	0.30	5400
	1500	30	50	0.25	4960
	1800	30	60	0.20	5400
	2400	60	40	0.19	5400
	3000	60	50	0.15	4960
	4000	50	80	0.14	4075
	5000	50	100	0.12	3630
<b>050/110</b>	100	10	10	3.65	8765
	150	10	15	2.45	8765
	200	10	20	1.90	8765
	250	10	25	1.60	9030
	300	10	30	1.61	9735
	400	10	40	1.18	9115
	500	10	50	0.97	8855
	600	15	40	0.83	9115
	750	25	30	0.75	9735
	900	30	30	0.65	9735
	1200	30	40	0.48	9115
	1500	50	30	0.45	9735
	1800	60	30	0.41	9735
	2400	60	40	0.03	9115
	3000	60	50	0.25	8850
	4000	50	80	0.22	6905
	5000	50	100	0.17	6285

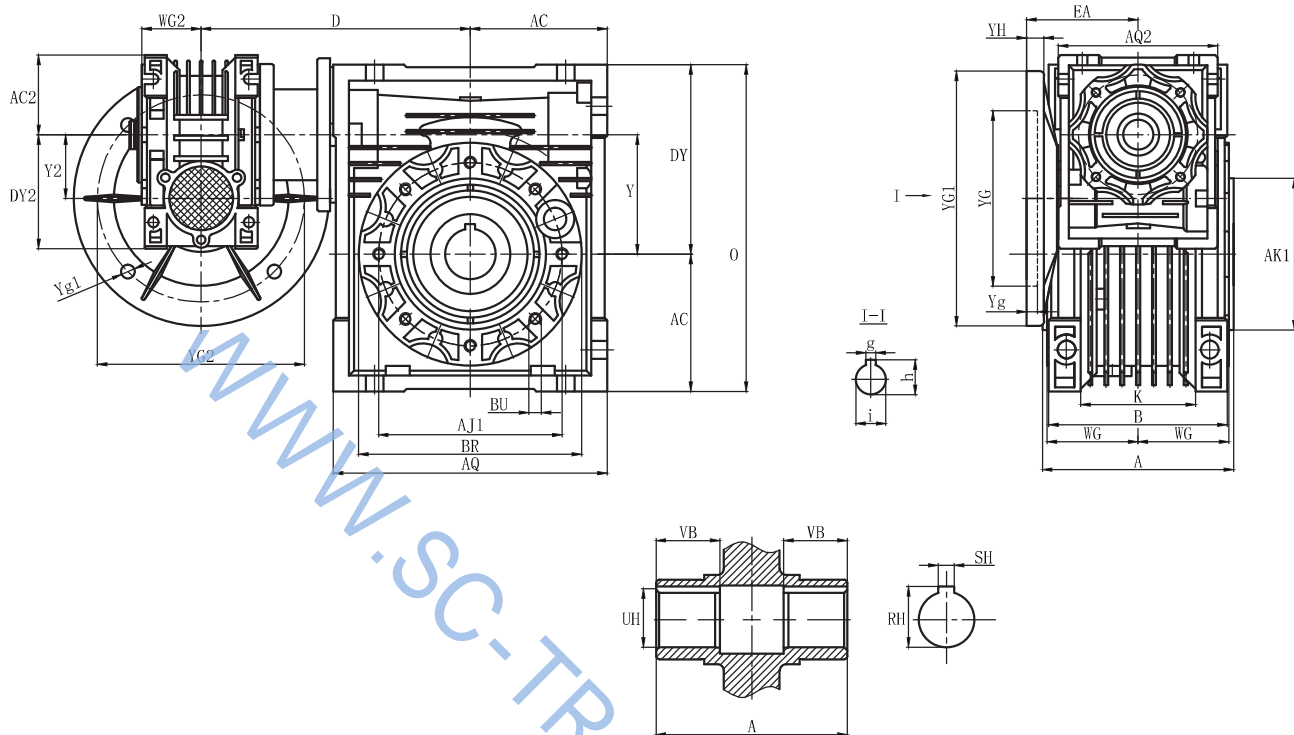
Ratio Combination			1750 RPM Input Speed		
Size	Ratio	Pri.	Sec.	Input HP	Output Torque
<b>063/130</b>	100	10	10	5.85	14160
	150	10	15	3.95	14160
	200	10	20	3.05	14160
	250	10	25	2.40	13540
	300	10	30	2.50	15575
	400	10	40	1.85	14600
	500	10	50	1.45	13720
	600	10	60	1.30	14600
	750	25	30	1.15	15575
	900	30	30	1.00	15575
	1200	30	40	0.75	14600
	1500	50	30	0.68	15575
	1800	60	30	0.60	15575
	2400	60	40	0.50	14600
	3000	60	50	0.35	13720
	4000	50	80	0.28	10800
	5000	50	100	0.21	9735
<b>063/150</b>	100	10	10	7.05	20000
	150	10	15	5.75	20710
	200	10	20	4.50	20710
	250	10	25	3.25	18140
	300	10	30	3.20	20710
	400	10	40	3.05	23630
	500	10	50	2.30	20620
	600	15	40	2.50	23630
	750	25	30	1.65	20620
	900	30	30	1.20	18585
	1200	30	40	1.28	23630
	1500	50	30	0.95	20620
	1800	60	30	0.75	18585
	2400	60	40	0.80	23630
	3000	60	50	0.60	20620
	4000	50	80	0.41	16635
	5000	50	100	0.35	14600



Type	A	B	B2	D	E	F	G	H	K	L	R	S	U	V	Y	Y2	VA
040/075	4.72	4.41	10.52	6.63	4.72	3.54	0.39	0.43	2.84	8.07	1.36	0.25	1.25	2.76	2.95	1.58	2.90
040/090	5.51	5.12	12.17	7.17	5.51	3.94	0.43	0.51	2.91	9.37	1.51	0.313	1.375	3.15	3.54	1.58	3.33
050/110	6.10	5.67	13.59	9.00	6.69	4.53	0.51	0.55	-	11.61	1.79	0.375	1.625	3.54	4.33	1.97	3.72
063/130	6.69	6.10	14.22	9.82	7.87	4.72	0.59	0.63	-	13.19	1.92	0.375	1.75	3.54	5.12	2.48	3.74
063/150	7.87	7.28	16.14	10.83	9.45	5.71	0.71	0.71	-	15.75	2.22	0.5	2	4.02	5.91	2.48	4.57

Type	UT	AC	AC2	AJ1	AK1	AQ	AQ2	BU	BR	DY	DY2	EA	WG	WG2	YE	YF
040/075	1/2-13	3.39	1.97	4.53	3.74	6.85	3.94	M8x13 (n=8)	5.51	4.69	2.82	3.15	2.24	1.43	2.36	3.66
040/090	1/2-13	4.06	1.97	5.12	4.33	8.11	3.94	M10x15 (n=8)	6.69	5.32	2.82	3.15	2.64	1.43	2.76	4.02
050/110	5/8-11	5.02	2.36	6.50	5.12	10.04	4.72	M10x22 (n=8)	7.87	6.59	3.31	3.54	2.91	1.71	3.35	4.92
063/130	5/8-11	5.77	2.84	8.47	7.09	11.54	5.75	M12x21 (n=8)	9.84	7.42	4.06	4.13	3.19	2.09	3.94	5.51
063/150	3/4-10UNC	6.69	2.84	8.47	7.09	13.39	5.75	M12x22 (n=8)	9.84	9.06	4.06	4.13	3.78	2.09	4.72	7.09

Type	flange	YG	YG1	YG2	YH	g	h	i	Yg1	Yg
040	56C	4.5	6.5	5.88	0.43	0.188	0.71	0.625	0.43 (n=4)	0.28
050	56C	4.5	6.5	5.88	0.43	0.188	0.71	0.625	0.43 (n=4)	0.28
063	56C	4.5	6.5	5.88	0.43	0.188	0.71	0.625	0.43 (n=4)	0.20
	140TC					0.188	0.97	0.875		

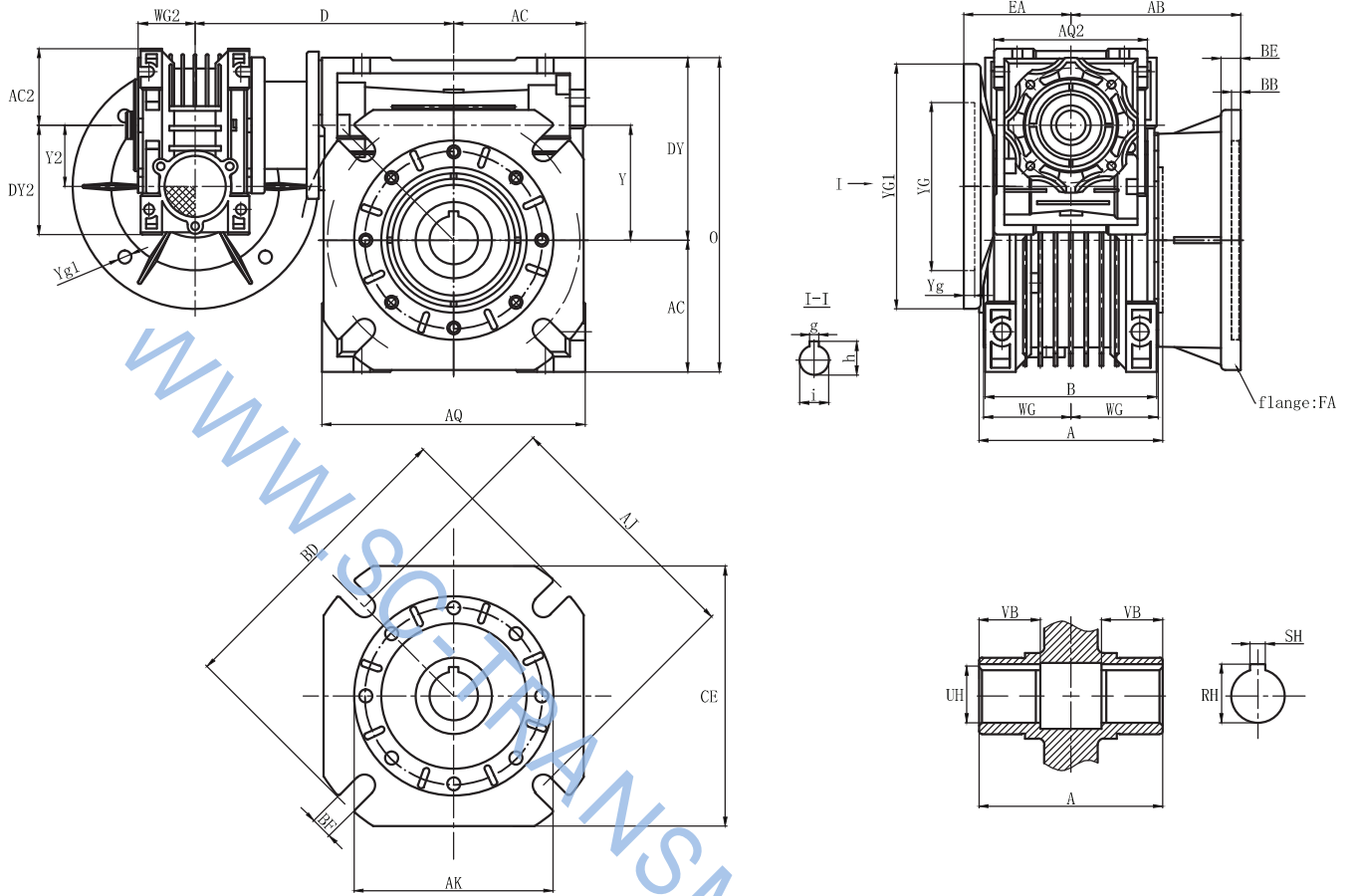


Size	A	B	D	K	O	RH	SH	UH	VB	Y	Y2	AC	AC2
040/075	4.72	4.41	6.63	2.95	8.07	1.37	0.25	1.25	1.58	2.95	1.58	3.39	1.97
040/090	5.51	5.12	7.17	2.91	9.37	1.52	0.313	1.375	1.77	3.54	1.58	4.06	1.97
050/110	6.10	5.67	9.00	-	11.61	1.8	0.375	1.625	1.97	4.33	1.97	5.02	2.36
063/130	6.69	6.10	9.82	-	13.19	1.93	0.375	1.75	2.36	5.12	2.48	5.77	2.84
063/150	7.87	7.28	10.83	-	15.75	2.23	0.5	2	2.84	5.91	2.48	6.69	2.84

Size	AJ1	AK1	AQ	AQ2	BU	BR	DY	DY2	EA	WG	WG2
040/075	4.53	3.74	6.85	3.94	M8x13 (n=8)	5.51	4.67	2.82	3.15	2.24	1.43
040/090	5.12	4.33	8.11	3.94	M10x15 (n=8)	6.69	5.32	2.82	3.15	2.64	1.43
050/110	6.50	5.12	10.04	4.72	M10x22 (n=8)	7.87	6.59	3.31	3.54	2.91	1.71
063/130	8.47	7.09	11.54	5.75	M12x21 (n=8)	9.84	7.42	4.06	4.13	3.19	2.09
063/150	8.47	7.09	13.39	5.75	M12x22 (n=8)	9.84	9.06	4.06	4.13	3.78	2.09

Size	flange	YG	YG1	YG2	YH	g	h	i	Yg1	Yg
040	56C	4.5	6.5	5.88	0.43	0.188	0.71	0.625	0.43 (n=4)	0.28
050	56C	4.5	6.5	5.88	0.43	0.188	0.71	0.625	0.43 (n=4)	0.28
063	56C	4.5	6.5	5.88	0.43	0.188	0.71	0.625	0.43 (n=4)	0.20
	140TC					0.188	0.97	0.875		





Type	A	B	D	O	RH	SH	UH	VB	Y	Y2	AB	AC	AC2	AQ
040/075	4.72	4.41	6.63	8.07	1.37	0.25	1.25	1.58	2.95	1.58	4.37	3.39	1.97	6.85
040/090	5.51	5.12	7.17	9.37	1.52	0.313	1.375	1.77	3.54	1.58	4.37	4.06	1.97	8.11
050/110	6.10	5.67	9.00	11.61	1.8	0.375	1.625	1.97	4.33	1.97	5.16	5.02	2.36	10.04
063/130	6.69	6.10	9.82	13.19	1.93	0.375	1.75	2.36	5.12	2.48	5.51	5.77	2.84	11.54
063/150	7.87	7.28	10.83	15.75	2.23	0.5	2	2.84	5.91	2.48	6.10	6.69	2.84	13.39

Type	AQ2	AJ	AK	BB	BD	BE	BF	CE	DY	DY2	EA	WG	WG2
040/075	3.94	6.50	5.12	0.24	7.87	0.51	0.551(n=4)	6.69	4.69	2.82	3.15	2.24	1.43
040/090	3.94	6.89	5.98	0.24	8.27	0.51	0.551(n=4)	7.87	5.32	2.82	3.15	2.64	1.43
050/110	4.72	9.06	6.69	0.24	11.02	0.59	0.551(n=8)	10.24	6.59	3.31	3.54	2.91	1.71
063/130	5.75	10.04	7.09	0.24	12.60	0.59	0.630(n=8)	11.42	7.42	4.06	4.13	3.19	2.09
063/150	5.75	10.04	7.09	0.24	12.60	0.59	0.630(n=8)	11.42	9.06	4.06	4.13	3.78	2.09

Type	flange	YG	YG1	YG2	YH	g	h	i	Yg1	Yg
040	56C	4.5	6.5	5.88	0.43	0.188	0.71	0.625	0.43(n=4)	0.28
050	56C	4.5	6.5	5.88	0.43	0.188	0.71	0.625	0.43(n=4)	0.28
063	56C	4.5	6.5	5.88	0.43	0.188	0.71	0.625	0.43(n=4)	0.20
	0.188					0.97	0.875			