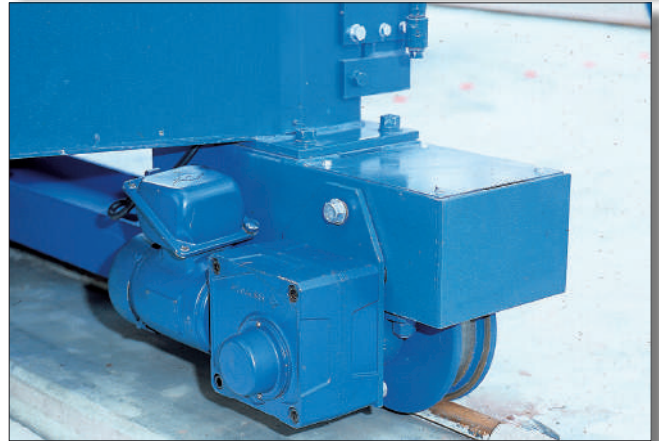


Right angle HYPONIC Drive® allows compact designs

Conveyor lines in breweries



Driving trucks

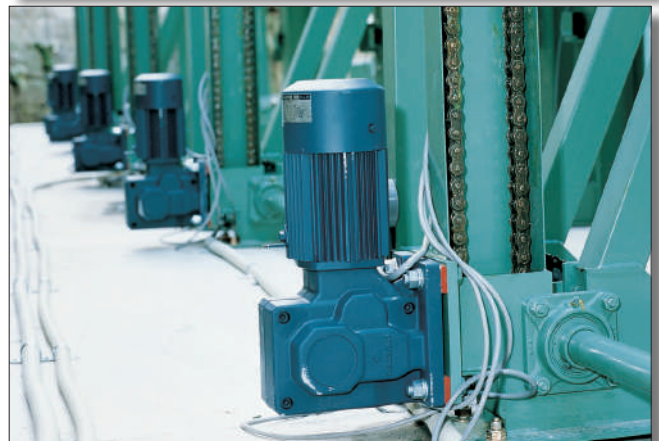


**Direct installation using hollow shaft type (with torque arm).
No requirement for sprockets, chains and other coupling equipment.**

Crushers

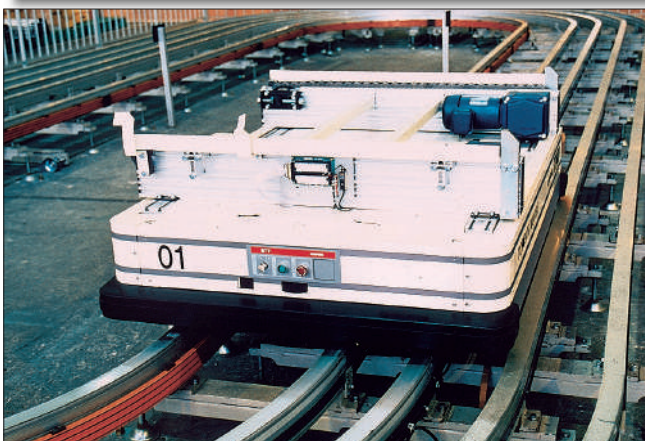


Dehydrator

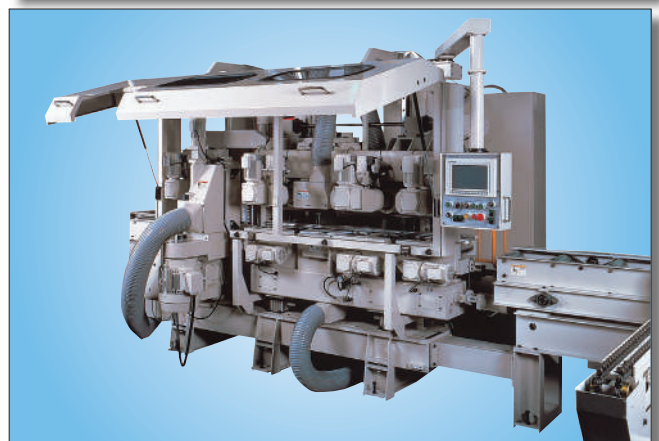


Easy installation by using through bolts directly into the casing.

Auto-guided vehicle



Wood shaving machine



Direct installation with solid shaft flanges.

Sumitomo Drive Technologies
» Building Tomorrow Together

HYPONIC DRIVE GEAR MOTOR
RNYM Hollow Shaft type

Sumitomo Drive Technologies
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100 years of the Cyclo® gear
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Hollow Shaft

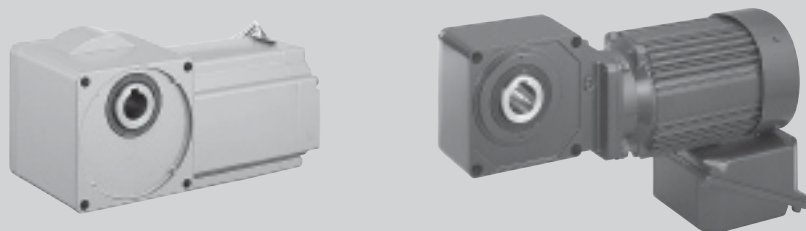
3-phase

Single-phase

Motors for Inverters

HYPONIC
Drive®

Hollow Shaft



RNYM Series Hollow Shaft Type

Motor Speed	n_1	50Hz	1450r/min
		60Hz	1750r/min

Output speed n ₂ r/min		Output Torque Tout				SF	Allowable Pro				Capacity Symbol	Frame Size	Reduction Ratio	Outline Drawing Fig.		
		Nm		kgf m			N		kgf							
50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		50Hz	60Hz	50Hz	60Hz						
290	350	61.7	51.1	6.29	5.21	2.50	3140	2940	320	300	3	—	1510	—	5	4
						1.00					3	—	1520	—	5	5
						1.68					3	—	1521	—	5	6
207	250	86.3	71.5	8.80	7.29	1.68	3530	3330	360	340	3	—	1510	—	7	4
						1.00					3	—	1520	—	7	5
						1.68					3	—	1521	—	7	6
145	175	123	102	12.6	10.4	1.00	3920	3730	400	380	3	—	1510	—	10	4
						1.00					3	—	1520	—	10	5
						1.68					3	—	1521	—	10	6
121	146	148	123	15.1	12.5	1.00	4120	3970	420	405	3	—	1520	—	12	5
						1.68					3	—	1521	—	12	6
96.7	117	185	153	18.9	15.6	1.00	4410	4220	450	430	3	—	1520	—	15	5
						1.68					3	—	1521	—	15	6
72.5	87.5	247	204	25.1	20.8	1.00	4810	4610	490	470	3	—	1520	—	20	5
						1.68					3	—	1521	—	20	6
58.0	70.0	308	255	31.4	26.0	1.00	5100	4900	520	500	3	—	1520	—	25	5
						1.68					3	—	1521	—	25	6

Notes : 1. Motor slippage may affect n_1 and n_2 .

2. Allowable radial load shows the value when the distance from hollow shaft end to the point of radial load is 20 mm.

Fig. 4

– Designate model and voltage and frequency when ordering. Brackets contain dimension, model, or mass of type with brakes.

→ RNYM3-1510-5~10
(RNYM3-1510-B-5~10)

Mass 29kg
(Mass 35kg)

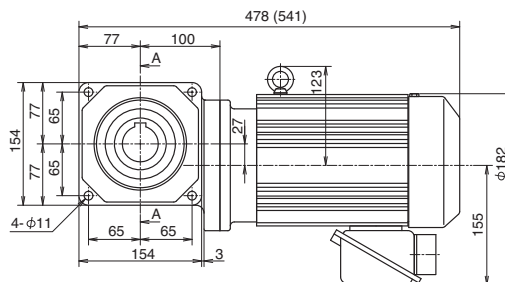
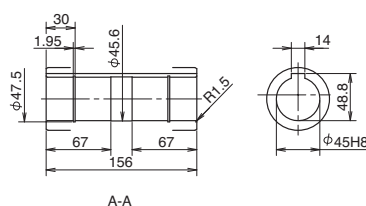
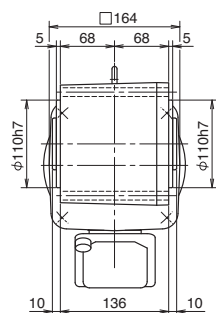


Fig. 5

RNYM3-1520-5~30
(RNYM3-1520-B-5~30)

Mass 34kg
(Mass 39kg)

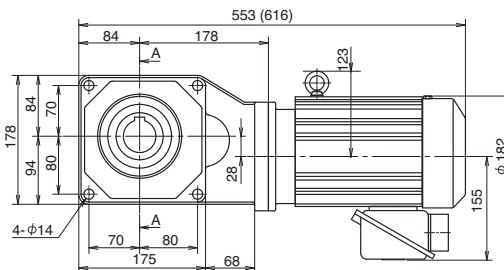
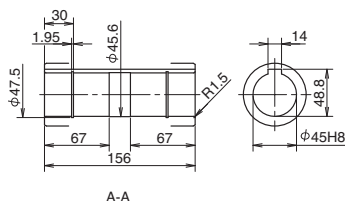
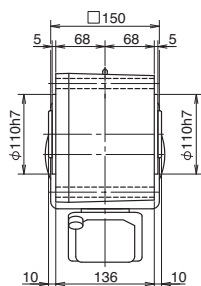
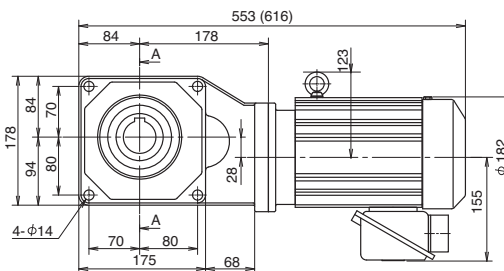
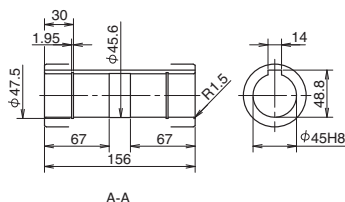
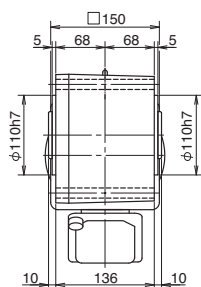


Fig. 6

RNYM3-1521-5~25
(RNYM3-1521-B-5~25)

Mass 34kg
(Mass 39kg)



Notes : 1. Output shaft diameter dimensions : Dimension tolerance in accordance with JIS B 0401-1976 "H8".

3. Dimensions and Masses in the drawings are subject to change without notice.

2. Output shaft keyway dimensions : Dimension tolerance in

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RNYM Series Hollow Shaft Type

Motor Speed n ₁	50Hz	1450r/min
	60Hz	1750r/min

Output speed n ₂ r/min		Output Torque Tout				SF	Allowable Pro				Capacity Symbol	Frame Size	Reduction Ratio	Outline Drawing Fig.	
		Nm		kgf m			N		kgf						
50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		50Hz	60Hz	50Hz	60Hz					
48.3	58.3	370	307	37.7	31.3	1.00	5340	5150	545	525	3	—	1520	—	30
						1.68	8380	8090	855	825	3	—	1632	—	30
36.3	43.8	493	409	50.3	41.7	1.00	5740	5540	585	565	3	—	1531	—	40
						1.68	8830	8480	900	865	3	—	1632	—	40
29.0	35.0	617	511	62.9	52.1	1.00	6030	5830	615	595	3	—	1531	—	50
						1.68	9120	8880	930	905	3	—	1632	—	50
121	146	148	123	15.1	12.5	1.00	4120	3970	420	405	3	—	1531	—	60
96.7	117	185	153	18.9	15.6	1.00	4410	4220	450	430	3	—	1632	—	60

Notes : 1. Motor slippage may affect n₁ and n₂.

2. Allowable radial load shows the value when the distance from hollow shaft end to the point of radial load is 20 mm.

Designate model and voltage and frequency when ordering. Brackets contain dimension, model, or mass of type with brakes.

Fig. 1

RNYM3-1520-5-30
(RNYM3-1520-B-5-30)

Mass 34kg
(Mass 39kg)

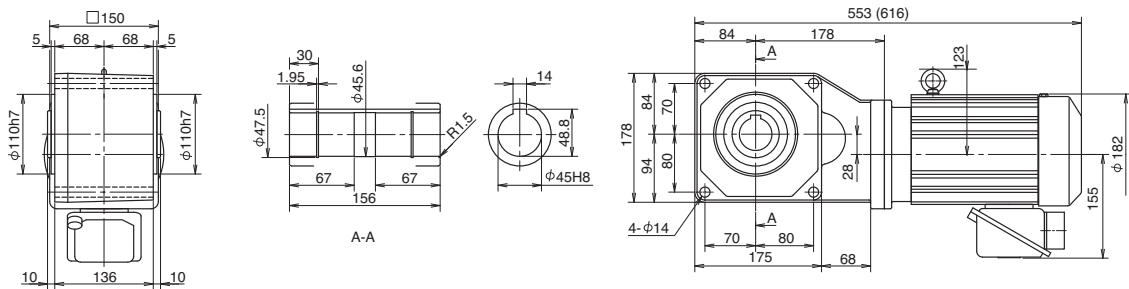


Fig. 2

RNYM3-1632-30-60
(RNYM3-1632-B-30-60)

Mass 55kg
(Mass 61kg)

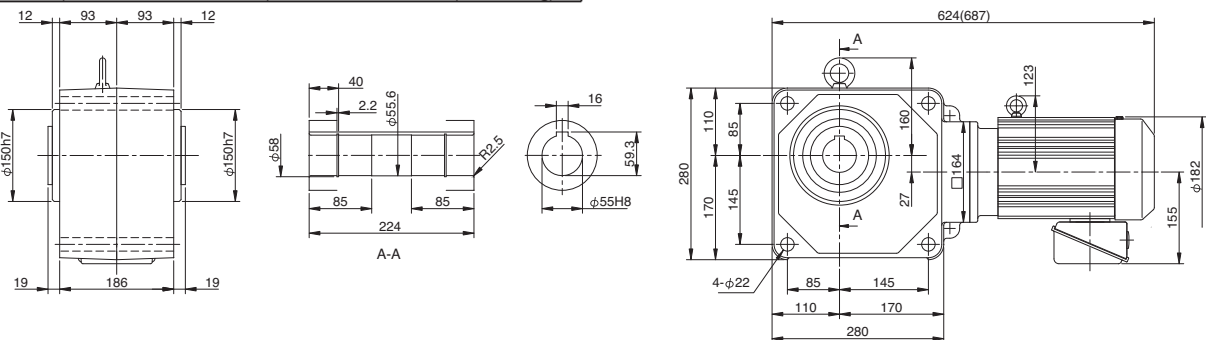
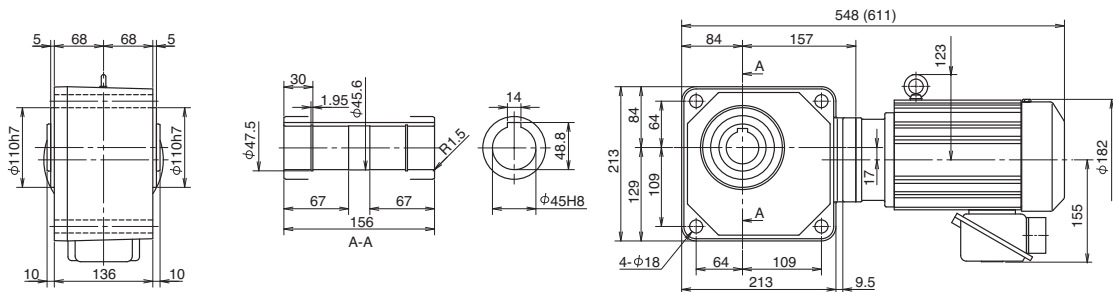


Fig. 3

RNYM3-1531-40-60
(RNYM3-1531-B-40-60)

Mass 34kg
(Mass 39kg)



Notes : 1. Output shaft diameter dimensions : Dimension tolerance in accordance with JIS B 0401-1976 "H8".

2. Output shaft keyway dimensions : Dimension tolerance in accordance with JIS B 1301-1996 parallel key (Normal Grade).

3. Dimensions and Masses in the drawings are subject to change without notice.



2.2kW 3-phase Motor



2.2
kW

RNYM Series Hollow Shaft Type

Motor Speed n_1	50Hz	1450r/min
60Hz	1750r/min	

Output speed n ₂ r/min		Output Torque Tout				SF	Allowable Pro				Capacity Symbol	Frame Size	Reduction Ratio	Outline Drawing Fig.	
		Nm		kgf m			N		kgf						
							50Hz	60Hz	50Hz	60Hz					
50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		50Hz	60Hz	50Hz	60Hz					
18.1	21.9	986	817	101	83.3	1.00	9810	9660	1000	985	3	—	1630	— 80	4
14.5	17.5	1230	1020	126	104	1.00	9810	9810	1000	1000	3	—	1630	— 100	
12.1	14.6	1480	1230	151	125	1.00	9810	9810	1000	1000	3	—	1630	— 120	
9.67	11.7	1480	1480	151	151	*	9810	9810	1000	1000	3	—	1631	— 150	5
7.25	8.75	1480	1480	151	151	*	9810	9810	1000	1000	3	—	1631	— 200	
6.04	7.29	1480	1480	151	151	*	9810	9810	1000	1000	3	—	1631	— 240	

Notes : 1. Motor slippage may affect n_1 and n_2 .
2. Allowable radial load shows the value when the distance from hollow shaft end to the point of radial load is 20 mm.

Designate model and voltage and frequency when ordering. Brackets contain dimension, model, or mass of type with brakes.

Fig. 4

RNYM3-1630-80~120
(RNYM3-1630-B-80~120)

Mass 57kg
(Mass 63kg)

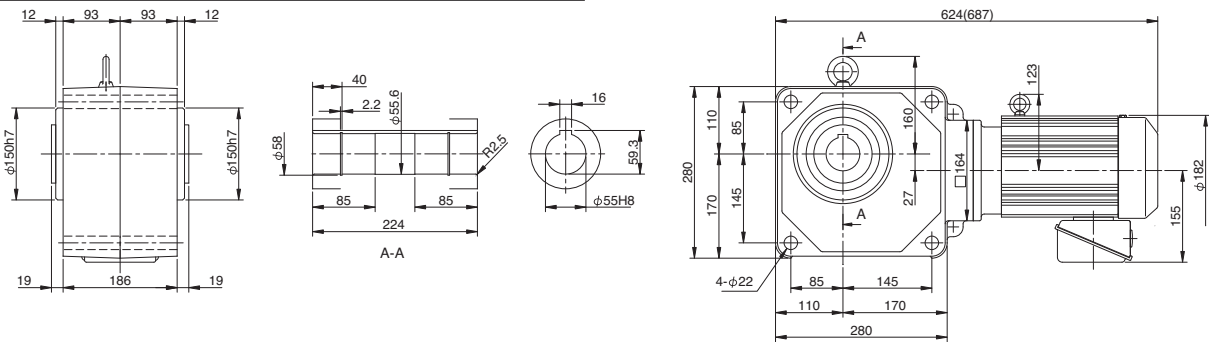
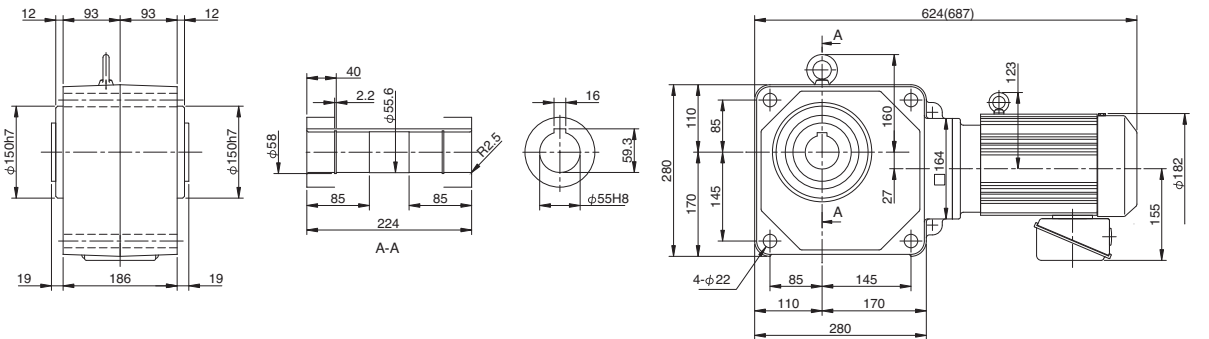


Fig. 5

RNYM3-1631-150~240
(RNYM3-1631-B-150~240)

Mass 57kg
(Mass 63kg)



Notes : 1. Output shaft diameter dimensions : Dimension tolerance in accordance with JIS B 0401-1976 "H8".
2. Output shaft keyway dimensions : Dimension tolerance in accordance with JIS B 1301-1996 parallel key (Normal Grade).

3. Dimensions and Masses in the drawings are subject to change without notice.



RNYM Series Hollow Shaft Type

Motor Speed n_1	50Hz	1450r/min
60Hz	1750r/min	

Output speed n ₂ r/min		Output Torque Tout				SF	Allowable Pro				Capacity Symbol	Frame Size	Reduction Ratio	Outline Drawing Fig.	
		Nm		kgf m			N		kgf						
50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		50Hz	60Hz	50Hz	60Hz					
290	350	84.1	69.7	8.57	7.10	1.23 1.83	3140	2940	320	300	4 —	1521	—	5	1
											4 —	1522	—	5	2
207	250	118	97.5	12.0	9.95	1.23 1.83	3530	3330	360	340	4 —	1521	—	7	1
											4 —	1522	—	7	2
145	175	168	139	17.1	14.2	1.23 1.83	3920	3730	400	380	4 —	1521	—	10	1
											4 —	1522	—	10	2
121	146	202	167	20.6	17.0	1.23 1.83	4120	3970	420	405	4 —	1521	—	12	1
											4 —	1522	—	12	2
96.7	117	252	209	25.7	21.3	1.23 1.83	4410	4220	450	430	4 —	1521	—	15	1
											4 —	1522	—	15	2
72.5	87.5	336	279	34.3	28.4	1.23 1.83	4810	4610	490	470	4 —	1521	—	20	1
							7700	7350	785	750	4 —	1633	—	20	3
58.0	70.0	420	348	42.9	35.5	1.23 1.83	5100	4900	520	500	4 —	1521	—	25	1
							8090	7750	825	790	4 —	1633	—	25	3

Notes : 1. Motor slippage may affect n_1 and n_2 .

2. Allowable radial load shows the value when the distance from hollow shaft end to the point of radial load is 20 mm.

Designate model and voltage and frequency when ordering. Brackets contain dimension, model, or mass of type with brakes.

Fig. 1

RNYM4-1521-5~25
(RNYM4-1521-B-5~25)

Mass 47kg
(Mass 58kg)

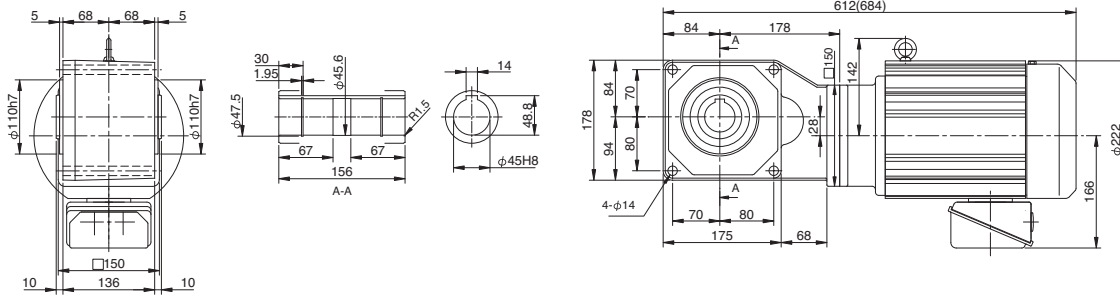


Fig. 2

RNYM4-1522-5~15
(RNYM4-1522-B-5~15)

Mass 47kg
(Mass 58kg)

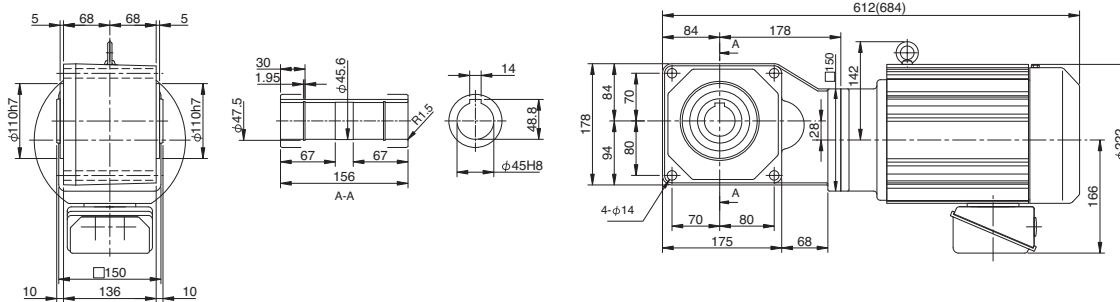
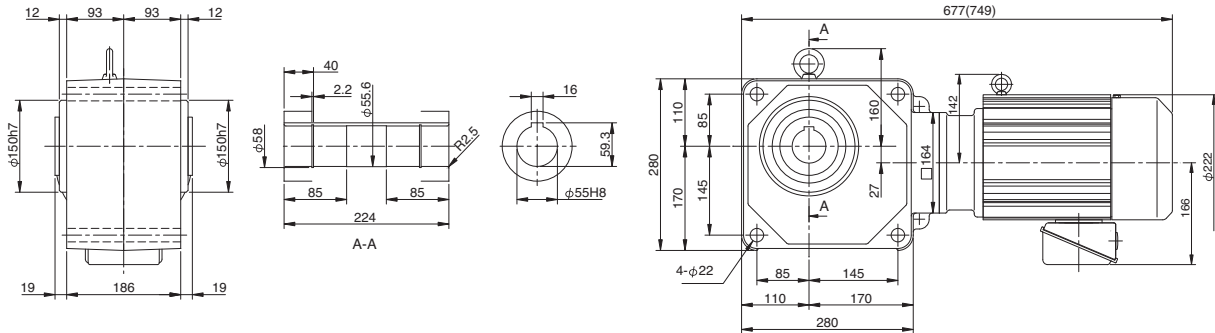


Fig. 3

RNYM4-1633-20~25
(RNYM4-1633-B-20~25)

Mass 67kg
(Mass 68kg)



Notes : 1. Output shaft diameter dimensions : Dimension tolerance in accordance with JIS B 0401-1976 "H8".

2. Output shaft keyway dimensions : Dimension tolerance in accordance with JIS B 1301-1996 parallel key (Normal Grade).

3. Dimensions and Masses in the drawings are subject to change without notice.

3.0kW 3-phase Motor



3.0
kW

RNYM Series Hollow Shaft Type

Motor Speed	n ₁	50Hz	1450r/min
		60Hz	1750r/min

Output speed n ₂ r/min		Output Torque Tout				SF	Allowable Pro				Capacity Symbol	Frame Size	Reduction Ratio	Outline Drawing Fig.
		Nm		kgf m			N		kgf					
50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		50Hz	60Hz	50Hz	60Hz				
48.3	58.3	504	418	51.4	42.6	1.23	8380	8090	855	825	4 — 1632	— 30	4	
						1.83					4 — 1633	— 30	5	
36.3	43.8	673	557	68.6	56.8	1.23	8830	8480	900	865	4 — 1632	— 40	4	
						1.83					4 — 1633	— 40	5	
29.0	35.0	841	697	85.7	71.0	1.23	9120	8880	930	905	4 — 1632	— 50	4	
24.2	29.2	1010	836	103	85.2	1.23	9410	9170	960	935	4 — 1632	— 60		

- Notes : 1. Motor slippage may affect n₁ and n₂.
2. Allowable radial load shows the value when the distance from hollow shaft end to the point of radial load is 20 mm.

Hollow Shaft

3-phase

Designate model and voltage and frequency when ordering. Brackets contain dimension, model, or mass of type with brakes.

Fig. 4

RNYM4-1632-30~60
(RNYM4-1632-B-30~60) Mass 66kg
(Mass 77kg)

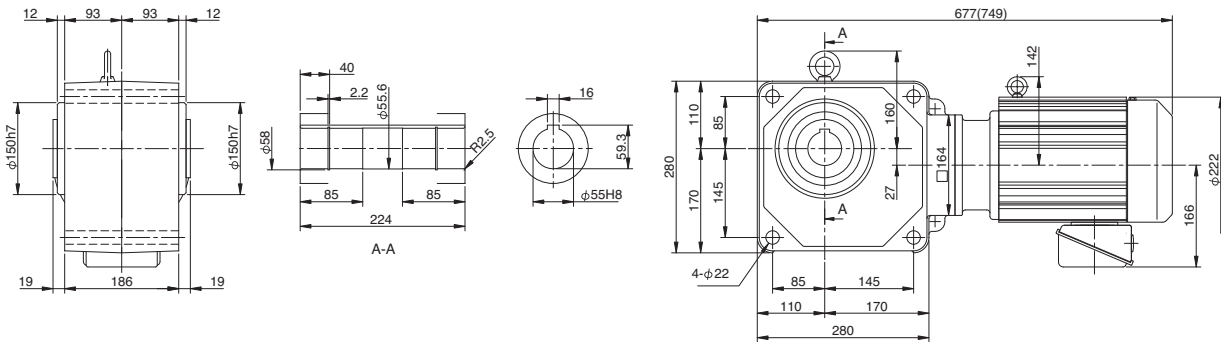
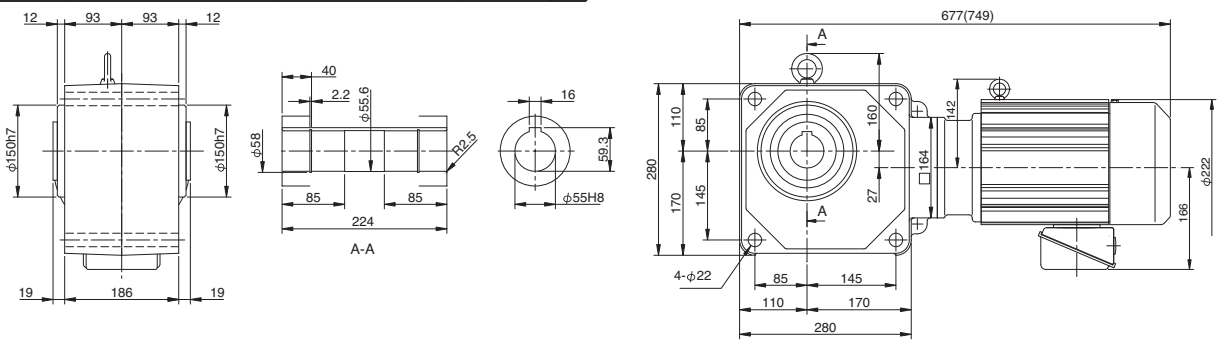


Fig. 5

RNYM4-1633-30~40
(RNYM4-1633-B-30~40) Mass 67kg
(Mass 78kg)



- Notes : 1. Output shaft diameter dimensions : Dimension tolerance in accordance with JIS B 0401-1976 "H8".
2. Output shaft keyway dimensions : Dimension tolerance in accordance with JIS B 1301-1996 parallel key (Normal Grade).

3. Dimensions and Masses in the drawings are subject to change without notice.

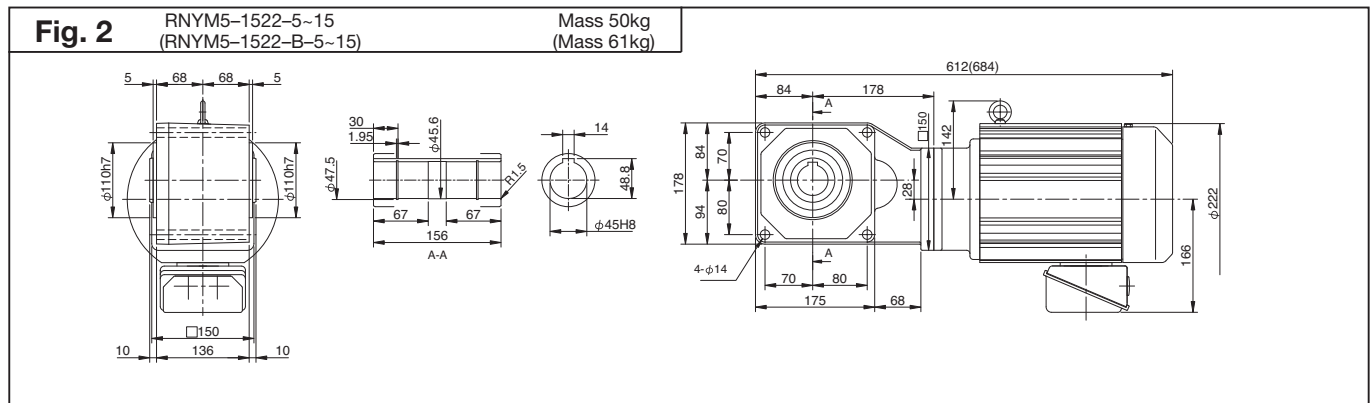
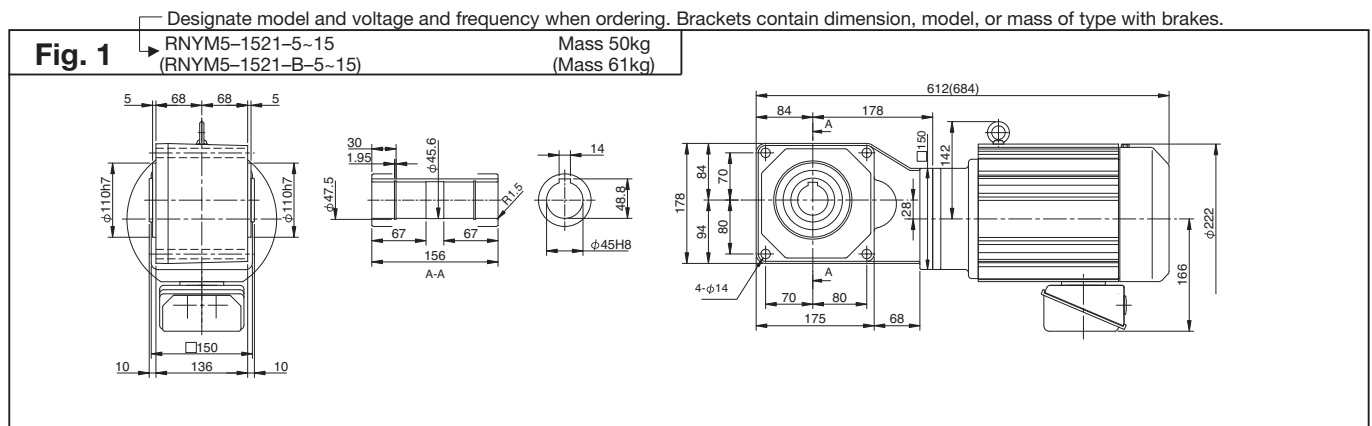


RNYM Series Hollow Shaft Type

Motor Speed n ₁	50Hz	1450r/min
60Hz	1750r/min	

Output speed n ₂ r/min		Output Torque Tout				SF	Allowable Pro				Capacity Symbol	Frame Size	Reduction Ratio	Outline Drawing Fig.
		Nm		kgf m			N		kgf					
50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		50Hz	60Hz	50Hz	60Hz				
290	350	104	85.9	10.6	8.76	1.00 1.49	3140	2940	320	300	5 — 1521 5 — 1522	— —	5 5	1 2
207	250	145	120	14.8	12.3	1.00 1.49	3530	3330	360	340	5 — 1521 5 — 1522	— —	7 7	1 2
145	175	207	172	21.1	17.5	1.00 1.49	3920	3730	400	380	5 — 1521 5 — 1522	— —	10 10	1 2
121	146	249	206	25.4	21.0	1.00 1.49	4120	3970	420	405	5 — 1521 5 — 1522	— —	12 12	1 2
96.7	117	311	258	31.7	26.3	1.00 1.49	4410	4220	450	430	5 — 1521 5 — 1522	— —	15 15	1 2

Notes : 1. Motor slippage may affect n₁ and n₂.
2. Allowable radial load shows the value when the distance from hollow shaft end to the point of radial load is 20 mm.



Notes : 1. Output shaft diameter dimensions : Dimension tolerance in accordance with JIS B 0401-1976 "H8".
2. Output shaft keyway dimensions : Dimension tolerance in accordance with JIS B 1301-1996 parallel key (Normal Grade).
3. Dimensions and Masses in the drawings are subject to change without notice.



3.7kW 3-phase Motor



3.7
kW

RNYM Series Hollow Shaft Type

Motor Speed	n ₁	50Hz	1450r/min
		60Hz	1750r/min

Output speed n ₂ r/min		Output Torque Tout				SF	Allowable Pro				Capacity Symbol	Frame Size	Reduction Ratio	Outline Drawing Fig.	
		Nm		kgf m			N		kgf						
50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		50Hz	60Hz	50Hz	60Hz					
72.5	87.5	415	344	42.3	35.0	1.00	4810	4610	490	470	5	—	1521	— 20	3
						1.49	7700	7350	785	750	5	—	1633	— 20	4
58.0	70.0	518	430	52.9	43.8	1.00	5100	4900	520	500	5	—	1521	— 25	3
						1.49	8090	7750	825	790	5	—	1633	— 25	4
48.3	58.3	622	516	63.4	52.6	1.00	8380	8090	855	825	5	—	1632	— 30	5
						1.49					5	—	1633	— 30	4
36.3	43.8	830	687	84.6	70.1	1.00	8830	8480	900	865	5	—	1632	— 40	5
						1.49					5	—	1633	— 40	4
29.0	35.0	1040	859	106	87.6	1.00	9120	8880	930	905	5	—	1632	— 50	5
24.2	29.2	1240	1030	127	105	1.00	9410	9170	960	935	5	—	1632	— 60	

- Notes : 1. Motor slippage may affect n₁ and n₂.
2. Allowable radial load shows the value when the distance from hollow shaft end to the point of radial load is 20 mm.

Designate model and voltage and frequency when ordering. Brackets contain dimension, model, or mass of type with brakes.

Fig. 3

RNYM5-1521-20~25
(RNYM5-1521-B-20~25) Mass 50kg
(Mass 61kg)

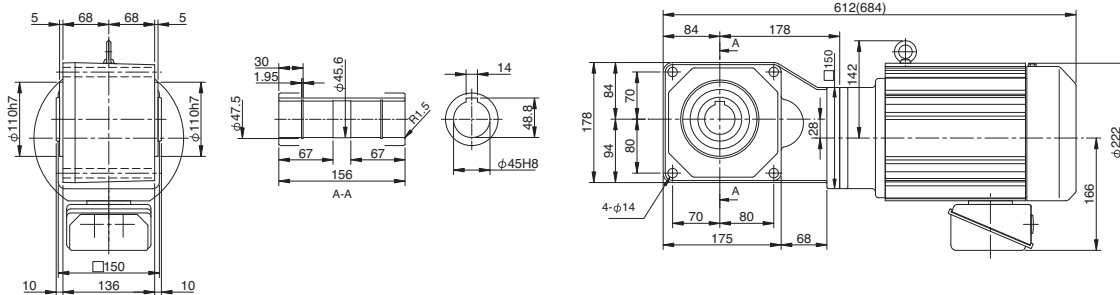


Fig. 4

RNYM5-1633-20~40
(RNYM5-1633-B-20~40) Mass 70kg
(Mass 81kg)

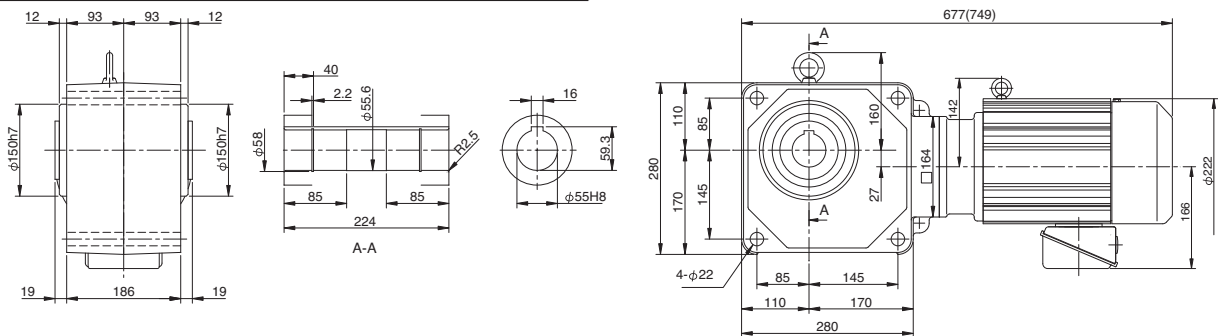
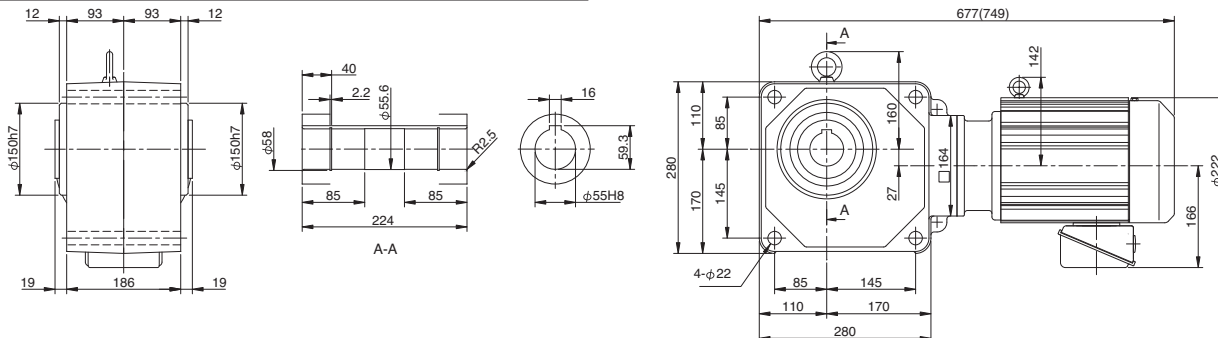


Fig. 5

RNYM5-1632-30~60
(RNYM5-1632-B-30~60) Mass 69kg
(Mass 80kg)



- Notes : 1. Output shaft diameter dimensions : Dimension tolerance in accordance with JIS B 0401-1976 "H8".
2. Output shaft keyway dimensions : Dimension tolerance in accordance with JIS B 1301-1996 parallel key (Normal Grade).

3. Dimensions and Masses in the drawings are subject to change without notice.