

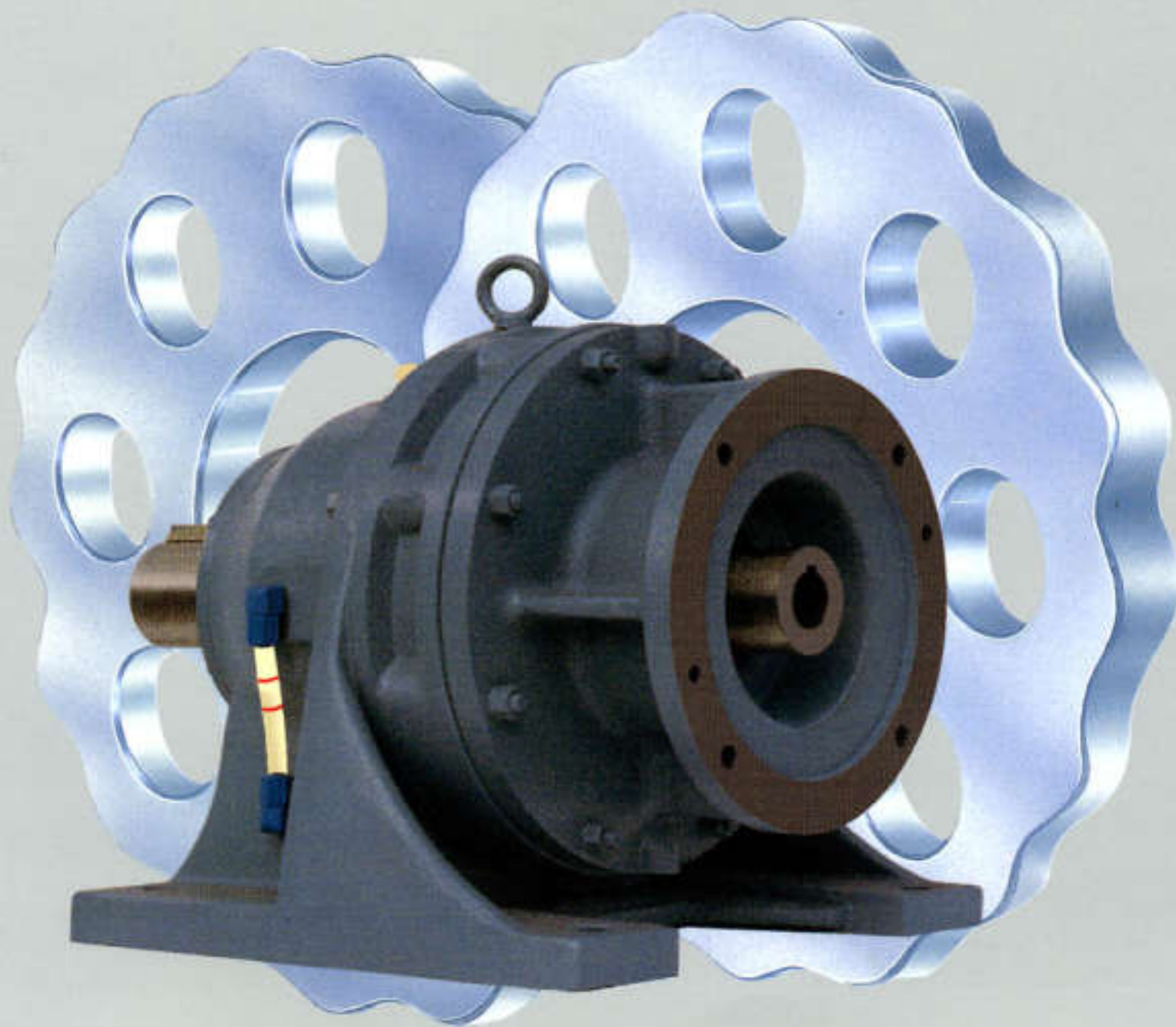
Certified Quality System



Certificate No. AC01176

MEDUSA DRIVE[®]

Cycloidal Gearmotors & Speed Reducers



Power Transmission Manufacturer

HAPDONG MACHINERY CO.

합 동 제 작 소

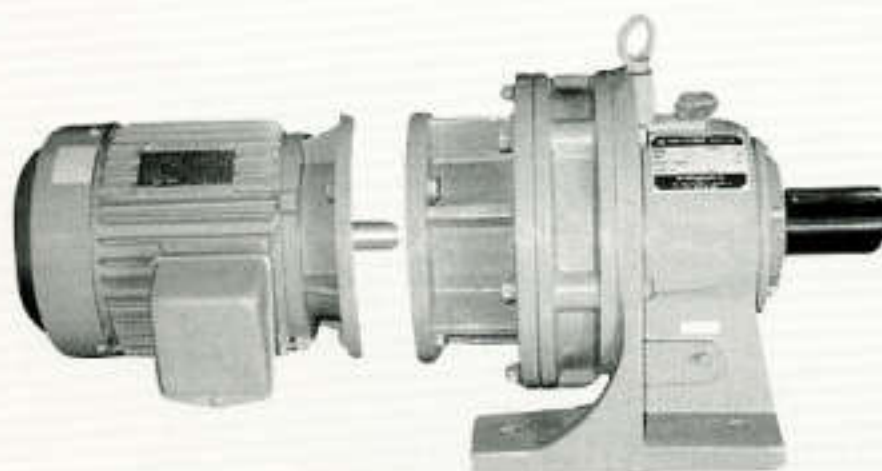


MEDUSA DRIVE®

MEDUSA DRIVE® is a registered tradename owned by Hap Dong Machinery company.



▲ CERTIFIED THE "ISO 9001" QUALITY SYSTEM FOR WORLDWIDE MANAGEMENT



• History of company

Since Hap Dong Machinery Company has been established at January 10th, 1975, we have researched, developed and manufactured only speed reducer. As we are the leading company especially in this field of Cycloidal gear reducer in Korea, We do our best for the customers in the world.

Jan. 10, 1975 : Company established.

Feb. 1975 : Developed and commenced production of Chain Gear Stepless Speed Regulator.

May. 1975 : Appointed as a specialized machinery plant by Ministry of Commerce and Industry

Mar. 1985 : Nominated to develop Cycloid Gear Reducer (MEDUSA DRIVE) by Ministry of Commerce and Industry

Jan. 1986 : Commenced to develop Cycloid Gear Reducer. Technical assistance by KIMM. (Korea Institute of Machinery and Materials.)

Mar. 1988 : Commenced mass production of Cycloid Gear Reducer. (MEDUSA DRIVE)

Mar. 1990 : Certified from "K. R" (Korean Register of Shipping) in design approval certificate.

Aug. 1998 : ISO 9001 Quality System certified by KSA-QA (Certificate No. AC-01176) and held IQNet Registration No. KR 01176 by the International Certificate Network.



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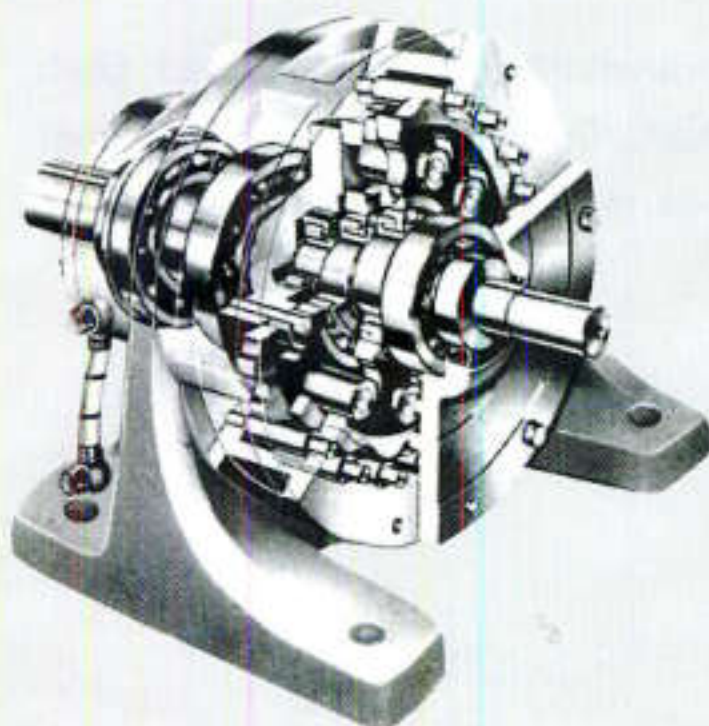
MEDUSA DRIVE is consist of Cycloid Disc, its shape of teeth is cycloidal profile.

It operates on a principle of planetary gear.

MEDUSA DRIVE offers you great advantages in the every fields of mechanical power transmission.

Advantages are :

- Wide range of reduction ratio
- High operating efficiency & Reliability
- Spacesaving compact size
- Easier mounting
- Maintenance free durability
- Great overload capacity
- Silent operation, etc.



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1. OPERATING PRINCIPLE (減速原理)

<Fig 1> Operating Process

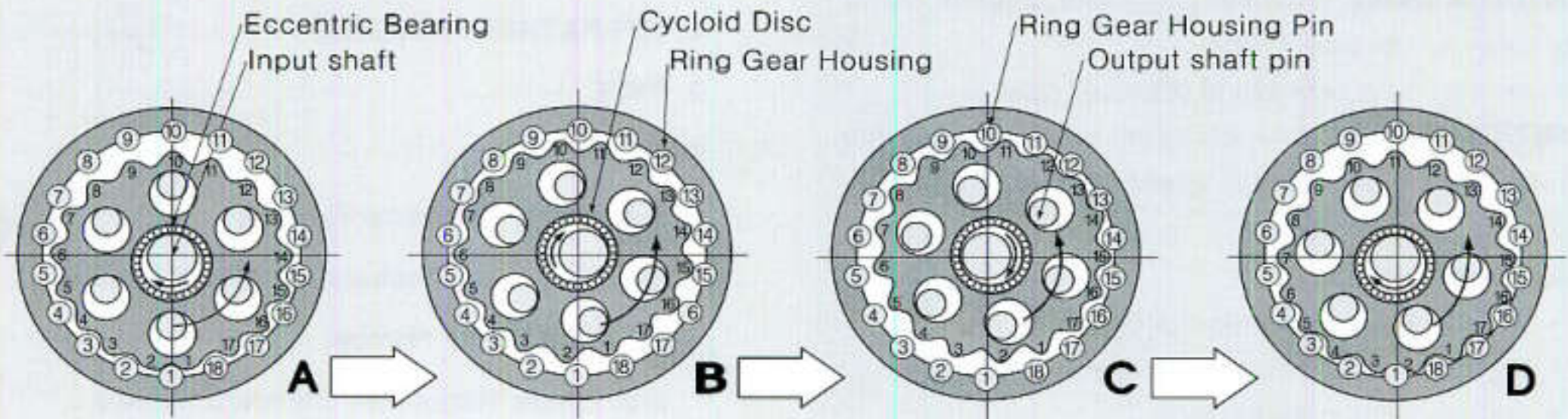


Fig. A : As Input shaft(motor shaft) rotates by one turn, the eccentric bearing also rotates by one turn on same direction as motor shaft together.

Fig. B : While the cycloid disc rotates on its own axis with its eccentric bearings. At this time, cycloid disc rotates into planetary movement in engagement with pins on the ring gear housing.

Fig. C : The cycloid disc rotation is caused by the difference between the pin numbers of ring gear housing and the teeth numbers of cycloid disc. The pin numbers of ring gear housing are one more than the teeth numbers of cycloid disc. The cycloid disc, which is rotating on its own axis, rotates by one tooth pitch by one revolution of input shaft.

Fig. D : The reduced revolution of cycloid disc is transmitted to slow speed shaft through the pin/roller of the slow speed shaft. Consequently, by this gear mechanism, reduction ratio can be attained as many as the teeth number of the cycloid disc to one.

* For instance of above figure :

- Reduction Ratio(i) = $\frac{N-n}{n} = \frac{18-17}{17} = \frac{1}{17}$

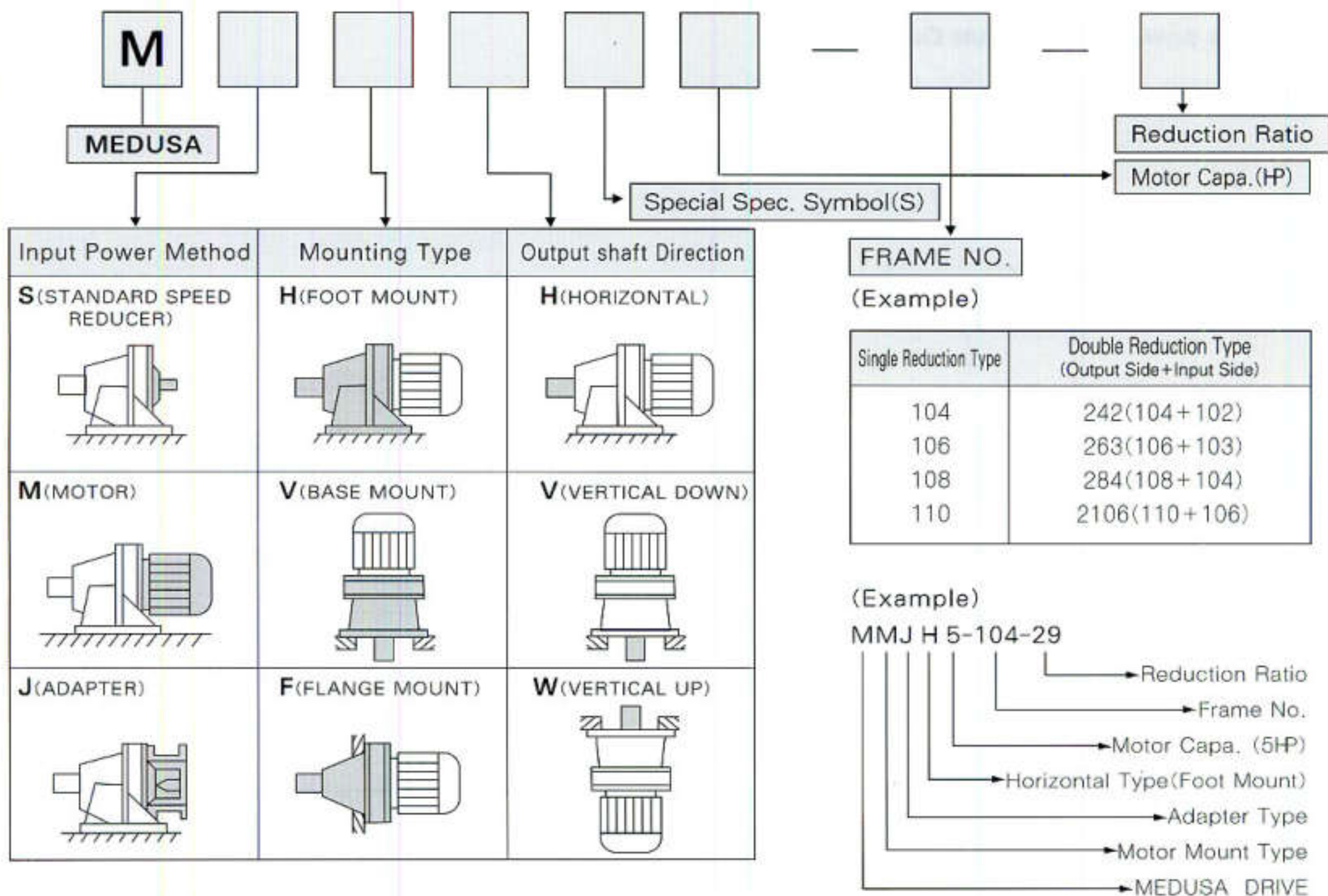
- N : Pin number of ring gear housing

- n : Tooth number of cycloid disc



2. TYPE (形 式)

* IDENTIFICATION



* Mounting Positions

MMH 	MMVH 	MMFH 	MSH 	MSVH 	MSFH
MMHV 	MMV 	MMFV 	MSHV 	MSV 	MSFV
MMHW 	MMVW 	MMFW 	MJH 	MJV 	MJFH



3. SELECTION (選 定)

3-1) Useful Technical Formula

① Input power and Torque Calculation

$$P = \frac{2\pi \times T \times N}{102 \times 60} = \frac{TN}{974}$$

$$T = \frac{974 \times P}{N} = \frac{716.2 \times HP}{N}$$

$$HP = \frac{2\pi \times T \times N}{75 \times 60} = \frac{TN}{716.2}$$

P : Transmitting Power(KW)

T : Torque (kgf-m)

N : Revolution(RPM)

HP : Horse Power(PS)

* Conversion in Unit

Power	HP	kw	kgf-m/s
1HP	1	0.746	76.07
1KW	1.341	1	102.0

Torque	kgf-m	Nm
1kgm	1	9.81
1Nm	0.102	1

② Load Factor

The above calculation of input power and torque are adopted when operation 8 hours per day. If you need more operating, Please adopt the load factor as below:

Load condition Running Hour	Normal Operation	Moderate Shock	Heavy Shock
10 Hours / Day	1.0	1.2	1.5
24 Hours / Day	1.2	1.35	1.6

* Required Horse Power = Calculated Horse Power × Load Factor

3-2) Selection Procedure of Model Number and Frame Number

The Medusa Drive of Cycloid reducer is designed and manufactured on the basis of 10 hours continuous under uniform load conditions.

The following data is necessary for proper selection of Medusa Drive.

- * Type of driven machine and load class / Type of mover / Transmitted horse power or Torque required for driven machine / Input speed of driven machine / Operation hours per day / Starting or Peak torque at its frequency / Running speed of slow speed shaft / Environmental conditions

- 1) The conditions of environment must be considered when selecting a cycloid reducer. Normally, cycloid reducer are considered to be installed indoor in a relatively clean, dry atmosphere with an ambient temperature range of -10°C(15°F) to 51°C(125°F).

For the requirement of application with no use such as listed below, please consult us.

- * Temperatures less than -10°C(15°F) or more than 51°C(125°F)
- * Excessively dusty and abrasive conditions
- * Outdoor operation
- * Tilted, ceiling, wall or submerged mounting requirements
- * Unusual atmosphere such as vacuum high pressure or high altitude
- * Corrosive, chemical or explosive fumes.

2) Check load class for the driven machine from table 2 on page 8. If the machine is not listed, select the most similar one.

3) Check service factor corresponding to the load class and prime mover shown below. When severe conditions is required to Medusa Drive, select the frame number having power rating equal to or larger than the value obtained by multiplying the actual load.

<Table 1> Service Factor

Prime mover		Electric Motor		* Maximum momentary or starting load must not exceed 200% of reducer rating. * Time specified for occasional and intermittent service refers to total operating time per day.
Load class		10hrs/day	24hrs/day	
Hours on operation				
Uniform	Load	1.00	1.20	
Moderate	Shock	1.20	1.35	
Heavy	Shock	1.50	1.60	

4) Review the reduction ratio (i) of the Medusa Drive as:

$$i = \frac{\text{Input speed(rpm) of Medusa Drive}}{\text{Required slow shaft speed(rpm) of Medusa Drive}}$$

5) Review the frame number of the Medusa Drive from selection table on page 9 to 14 by plotting ratio and input speed.

- * For the transmitted horsepower selection, use the following formula is

$$\frac{\text{Load Running HP} \times \text{Service Factor}}{\text{Efficiency of Medusa Drive}} \leq \text{Rated input power of frame number to be selected.}$$

- * For the transmitted torque selection, use the formula is Running load torque $\times$ Service factor $\leq$ Rated output torque of frame number to be selected.

6) Review the reducer type of Medusa Drive about mounting position on page 5.

7) Select and describe Reducer Model Number of Medusa Drive as explained "IDENTIFICATION" on page 5.

LOAD CLASSIFICATION

MEDUSA DRIVE is designed and manufactured for continuous operation of 10 hours under uniform load(U). Accordingly, the standard models may be used for most ordinary applications. The following table shown about a guide for load conditions.

(Table 2) Load Classes

Load class Operation hours/day	U Uniform Load	M Moderate shock Load	H Heavy shock Load
10 hours/day	1	1.2	1.5
24 hours/day	1.2	1.35	1.6

Note 1) In case of short time intermittent operations it may be possible to use a smaller than normal model.
Note 2) In case of frequent start/stop operations or under heavy shock conditions, special reinforcements and other measures may be required.

(Table 3) Driven machine with load classes

MACHINE	LOAD CLASS	MACHINE	LOAD CLASS	MACHINE	LOAD CLASS	MACHINE	LOAD CLASS
*Aerator		Elevators		slab conveyor	H	pulp machine reel	M
Agitators		bucket - uniform load	U	small waste - conveyor - belt	U	stock chests	M
Pure liquids	U	bucket - heavy load	M	small waste - conveyor - chain	M	suction roll	U
liquids & solids	M	bucket - cont.	U	sorting table	M	washers & thickeners	M
liquids - variable density	M	centrifugal discharge	U	tipple hoist conveyor	M	winders	U
Blowers		escalators	U	tipple hoist drive	M	*Printing Presses	
Centrifugal	U	freight	M	transfer conveyors	M	Pullers	
lobe	M	gravity discharge	U	transfer rolls	M	barge haul	H
vane	U	* man lifts		tray drive	M	Pumps	
Brewing & Distilling		* passenger		trimmer feed	M	centrifugal	U
Bolting machinery	U	** Extruders (plastics)		waste conveyor	M	proportioning	M
Brew kettles, cont. duty	U	blow molders	M	Machine Tools		reciprocating single acting,	
cookers - cont. duty	U	coating	U	bending roll	M	3 or more cylinders	M
mesh tubs - cont. duty	U	coating	U	punch press - gear driven	H	double acting,	
scale hopper, frequent starts	M	film	U	* notching press - belt driven		2 or more cylinders	M
Can Filling Machinery	U	pipe	U	plate planers	H	* single acting, 1 or 2 cylinders	
*Cane Drives	M	pre - plasticizers	M	tapping machine	H	* double acting, single cylinders	
Car Dumpers	H	rods	U	other machine tools		rotary - gear type	U
Car Pullers	M	sheet	U	main drives	M	rotary - lobe, vane	U
Clarifiers	U	tubing	U	auxiliary drives	U	Rubber & Plastics Industries	
Clay Working Machinery		Fans		Metal Mills		** crackers	H
Brick press	H	centrifugal	U	draw bench carriage & main drive	M	laboratory equipment	M
Briquette Machine	H	* cooling towers		forming machines	H	** mixing mills	H
clay working machinery	M	induced draft	U	* pinch, dryer & scrubber rolls,		** refiners	M
pug mill	M	* forced draft	M	reversing		** rubber calendars	M
Compressors		induced draft	M	slitters	M	** rubber mill (2 on line)	M
centrifugal	U	large (mine, etc.)	M	table conveyors - non - reversing	M	** rubber mill (3 on line)	U
lobe	M	light (small diameter)	U	group drives	M	** sheeter	
reciprocating, multi-cylinder	M	Feeders		individual drives	H	* tire bulking machines	
Conveyors - Uniformly		apron	M	* table conveyors - reversing		* tire & tube press openers	
Loaded or Fed		belt	M	wire drawing & flattening		** tubers & strainers	M
apron	U	disc	U	machine	M	** warming mills	M
assembly	U	reciprocating	H	wire winding machine	M	Sand Muller	M
belt	U	screw	M	Mills, Rotary Type		Screens	
bucket	U	Food Industry		** ball	M	air washing	U
chain	U	beet slicer	M	** cement kilns	M	rotary - stone or gravel	M
flight	U	cereal cooker	U	** dryers & coolers	M	traveling water intake	U
oven	U	dough mixer	M	kilns	M	Sewage Disposal Equipment	
screw	U	meat grinders	M	** pebble	M	bar screens	U
Conveyors - Heavy Duty		Generators (not welding)	U	** rod, plain & wedge bar	M	chemical feeders	U
Not Uniformly Fed		Hammer mills	H	tumbling barrels	H	collectors, circulate or straightline	U
apron	M	Hoists		Moxers		dewatering screws	M
assembly	M	heavy duty	H	concrete mixers, cont.	M	grit collectors	M
belt	M	medium duty	M	concrete mixers, intermittent	M	scum breakers	M
bucket	M	Hoists		constant density	U	slow or rapid mixers	M
Chin	M	heavy duty	H	variable density	M	sludge collectors	U
flight	M	medium duty	M	Oil Industry		thickeners	M
* live roll		skip hoist	M	chillers	M	thickeners	M
oven	M	Laundry Tumblers	M	* oil well pumping		vacuum filters	M
reciprocating	H	Line Shaft		paraffin filter press	M	Slab Pushers	M
screw	M	driving processing equipment	M	rotary kilns	M	* Steering Gear	
shaker	H	light	U	Paper Mills		Stokers	U
Cranes (Except for Dry Dock		other line shafts	U	agitators (maxers)	M	Sugar Industry	
Cranes)		Lumber Industry		barker - auxiliaries - hydraulic	M	** cane knives	M
main hoists	M	barkers - hydraulic - mechanical	H	barker - mechanical	M	** crushers	M
* bridge travel		burner conveyor	M	barking drum	H	** mills	H
* trolley travel		chain saw & drag saw	H	beater & polper	M	Textile Industry	
Crusher		chain transfer	H	bleacher	U	batchers	M
ore	H	craneway transfer	H	calendars	M	calendars	M
stone	H	de - barking drum	H	calendars - super	H	cards	M
** sugar	M	edger feed	M	converting machine		dry cans	M
Dredges		gang feed	H	except cutters, platers	M	dryers	M
cable reels	M	green chain	M	conveyors	U	dyeing machinery	M
conveyors	M	live rolls	H	couch	M	* knitting machines	
cutter head drives	H	log haul - incline	H	cutters - platers M		looms	M
jig drives	H	log haul - well type	H	cylinders	M	mangles	M
maneuvering winches	M	log turning device	H	dryers	M	nappers	M
pumps	M	off bearing rolls	M	Paper Mills		pads	M
screen drive	H	planer feed chains	M	felt stretcher	M	* range drives	
stackers	M	Planer floor chains	M	felt whipper	H	soapers	M
utility winches	M	planer tilting hoist	M	jordans	H	spinners	M
* Dry Dock Cranes		re - saw merry - go - round conveyor	M	log haul	H	tenter frames	M
		roll cases	H	presses	U	washers	M
						winders	M
						* Windlass	

Remarks : * - Refer to factory. ** - To be selected on basis of 24 hr. service only.

3-3) Single Reduction, Standard Models(Ratio 11~87)

〈Table 4〉 Selection of Speed Reducer Size for 4 pole Motor

Motor Capa.		Load Factor	FRAME NO						
KW (HP)	Symbol		Reduction Ratio						
			11	17	29	35	43	59	87
OUTPUT (R. P. M)		60HZ	164	106	62	51	42	31	21
		50Hz	136	88	51	43	35	25	17
0.2 (1/4)	02	1.0						102	102
		1.2					102	102	102
		1.4					102	102	
		1.6					102	102	
0.4 (1/2)	05	1.0			102	102	102	102	102
		1.2			102	102	102	102	103
		1.4	102	102	103	103	103	103	
		1.6	102	102	103	103	103	103	
0.75 (1)	1	1.0	102	102	102	102	102	103	103
		1.2	102	102	102	103	103	103	103
		1.4	102	102	103	103	103	103	104
		1.6	102	102	103	103	103	103	104
1.5 (2)	2	1.0	103	103	103	103	103	104	105
		1.2	103	103	103	103	104	104	105
		1.4	103	103	103	103	104	105	
		1.6	103	103	103	103	104		
2.2 (3)	3	1.0	103	103	103	103	104	105	106
		1.2	103	103	103	104	104	105	106
		1.4	103	103	104	105	105	106	106
		1.6	103	103	104	105	106	106	
3.7 (5)	5	1.0	104	104	104	105	106	106	107
		1.2	104	104	106	106	106	106	107
		1.4	104	104	106	106	106	107	
		1.6	104	104	106	106	106	107	
5.5 (7.5)	8	1.0	106	106	106	106	107	107	108
		1.2	106	106	106	106	107	107	108
		1.4	106	106	106	106	107	108	
		1.6	106	106	106	107	107	108	
7.5 (10)	10	1.0	106	106	106	106	107	108	109
		1.2	106	106	106	107	107	108	109
		1.4	106	106	107	107	108	109	109
		1.6	106	106	107	107	108	109	
11 (15)	15	1.0	107	107	107	108	108	109	110
		1.2	107	107	107	108	108	109	110
		1.4	107	107	108	108	109	110	110
		1.6	107	108	108	108	109	110	110
15 (20)	20	1.0	107	107	108	108	109	110	110
		1.2	107	107	108	109	109	110	110
		1.4	107	108	109	109	110	110	
		1.6	108	108	109	109	110	110	
22 (30)	30	1.0	109	109	109	110	110	110	
		1.2	109	109	109	110	110		
		1.4	109	109	110	110	110		
		1.6	109	109	110	110	110		
30 (40)	40	1.0	110	110	110	110	110		
		1.2	110	110	110	110	110		
37(50)	50	1.0	110	110	110	110			

〈Table 5〉 Selection of Speed Reducer Size for 6 pole Motor(Line power Type)

Motor Capa.		Load Factor	FRAME NO					
KW (HP)	Symbol		Reduction Ratio					
			11	17	29	43	59	87
OUTPUT (R. P. M)		60HZ	109	70	41	28	20	14
		50HZ	91	59	34	23	17	11
15 (20)	206	1.0					110	122
		1.2					110	122
		1.4					110	111
		1.6					122	124
22 (30)	306	1.0				110	110	124
		1.2				110	122	124
		1.4				110	124	112
		1.6				122	124	
30 (40)	406	1.0	110	110	110	110	111	112
		1.2	110	110	110	122	124	125
		1.4	110	110	110	111	112	125
		1.6	110	122	122	124	112	
37 (50)	506	1.0	110	110	110	122	124	125
		1.2	110	110	122	124	112	125
		1.4	110	122	122	124	112	
		1.6	110	122	124	112	125	
45 (60)	606	1.0	(110)	(110)	(122)	124	112	125
		1.2	(110)	(122)	111	124	112	
		1.4	(110)	111	124	112	125	
		1.6	(122)	124	112	125	125	
55 (75)	756	1.0	(110)	(122)	111	124	112	
		1.2	(110)	111	124	112	125	
		1.4	(122)	124	112	125	(113)	
		1.6	(122)	124	112	125	(113)	

Example of Selection

- Input Motor Power(NET) : 7.5KW 4P, 60Hz
- Output rpm : 51rpm
- Load Factor at Normal : 1.0
- Mounting Type : Horizontal
- Reduction Ratio : 35 : 1
- In this case, Model No. is MMJH10-106-35

• Note : 1) Please consult factory for ratio 6, 8, 13, 15, 21, 25, 51, 71
2) Please consult factory for low backlash type(Fr. No. 102, 103, 104, 105)

3-4) Double Reduction Standard Models (Ratio 121~7569)

(Table 6) Selection of Speed Reducer Size (Double Frame No.)

Output Torque (Kg f-m)	FRAME No.	Input Power(KW) vs Reduction Ratio													
		121 (11×11)	187 (17×11)	289 (17×17)	319 (29×11)	385 (35×11)	473 (43×11)	493 (29×17)	595 (35×17)	649 (59×11)	731 (43×17)	841 (29×29)	957 (87×11)	1003 (59×17)	1015 (35×29)
Output	60Hz	15	9.6	6.2	5.6	4.7	3.8	3.7	3.0	2.8	2.5	2.1	1.9	1.8	1.8
R.P.M	50Hz	12.4	8.0	5.2	4.7	3.9	3.2	3.0	2.5	2.3	2.0	1.8	1.7	1.5	1.5
52	232	0.4(0.75)	0.4(0.75)	0.2(0.4)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)
78	242				(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.2)	(0.2)	(0.2)	(0.2)
	243	0.75(1.5)	(0.75)	(0.75)	—	—	—	—	—	—	—	—	—	—	—
105	252	—	—	—	—	—	—	—	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.2)
	253	—	—	—	—	—	—	(0.75)	—	—	—	—	—	—	—
150	262B	—	—	—	—	—	—	0.4	0.4	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)
	263B	1.5(2.2)	(1.5)	(1.5)	(0.75)	(0.75)	(0.75)	(0.75)	—	—	—	—	—	—	—
185	262A	—	—	—	—	—	—	—	—	—	—	(0.4)	(0.4)	(0.4)	(0.4)
	263A	2.2	1.5(2.2)	(1.5)	(1.5)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	0.4(0.75)	—	—	—	—
220	272B	—	—	—	—	—	—	—	—	—	—	0.4	0.4	0.4	(0.4)
	273B	—	2.2	1.5(2.2)	0.75(1.5)	0.75(1.5)	0.75(1.5)	0.75(1.5)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	—
280	272A	—	—	—	—	—	—	—	—	—	—	—	—	—	0.4
	273A	—	—	(2.2)	(2.2)	(2.2)	(2.2)	(1.5)	(1.5)	(1.5)	(0.75)	(0.75)	(0.75)	(0.75)	—
	274	3.7	(3.7)	—	—	—	—	—	—	—	—	—	—	—	—
320	282B	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	284B	(5.5)	(3.7)	(2.2)	1.5	1.5	(1.5)	(1.5)	0.75(1.5)	0.75(1.5)	0.75(1.5)	(0.75)	(0.75)	(0.75)	(0.75)
415	282A	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	284A	—	3.7(5.5)	2.2(3.7)	1.5(2.2)	1.5(2.2)	1.5(2.2)	1.5(2.2)	(1.5)	(1.5)	(1.5)	0.75(1.5)	0.75(1.5)	0.75(1.5)	(0.75)
560	293B	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	294B	5.5	5.5	3.7(5.5)	2.2(3.7)	2.2(3.7)	2.2(3.7)	2.2(3.7)	1.5(2.2)	1.5(2.2)	1.5(2.2)	(1.5)	(1.5)	(1.5)	(1.5)
740	293A	—	—	—	—	—	—	—	—	—	—	—	—	(1.5)	(1.5)
	294A	—	—	—	—	(3.7)	(3.7)	(3.7)	(2.2)	(2.2)	(2.2)	(2.2)	(2.2)	(2.2)	—
	296	7.5	7.5	—	—	—	—	—	—	—	—	—	—	—	—
	2106A	11	(7.5)	(7.5)	(7.5)	—	—	—	—	—	—	—	—	—	—
1000	2104B	—	—	—	—	—	—	3.7	(3.7)	(3.7)	2.2(3.7)	2.2(3.7)	2.2(3.7)	2.2(3.7)	1.5(2.2)
	2106B	7.5	7.5(11)	5.5(7.5)	5.5(7.5)	(5.5)	—	—	—	—	—	—	—	—	—
	2117B	15	—	—	—	—	—	—	—	—	—	—	—	—	—
1200	2104A	—	—	—	—	—	—	5.5	3.7(5.5)	(3.7)	(3.7)	(3.7)	(3.7)	(3.7)	(2.2)
1450	2224	—	—	—	—	—	—	5.5	3.7(5.5)	3.7(5.5)	3.7(5.5)	(3.7)	(3.7)	(3.7)	(2.2)
	2226	—	—	7.5(11)	7.5(11)	7.5(11)	5.5(7.5)	—	—	—	—	—	—	—	—
1600	2116B	—	—	—	—	×	—	—	×	3.7(5.5)	3.7(5.5)	(3.7)	(3.7)	(3.7)	×
	2117B	—	11(15)	7.5(11)	7.5(11)	×	5.5(7.5)	5.5(7.5)	×	—	—	—	—	—	×
1850	2116A	—	—	—	—	×	—	(7.5)	×	(5.5)	(5.5)	3.7(5.5)	3.7(5.5)	3.7(5.5)	×
2400	2246	11	11	11	11	×	7.5(11)	7.5(11)	×	7.5(11)	5.5(7.5)	3.7(5.5)	3.7(5.5)	3.7(5.5)	×
	2247	15	15	15	15	×	—	—	—	—	—	—	—	—	×
2500	2128B	—	22	11(15)	7.5(11)	×	7.5(11)	7.5(11)	×	5.5(7.5)	5.5(7.5)	5.5(7.5)	5.5(7.5)	5.5(7.5)	×
3100	2128A	—	—	—	—	×	—	11(15)	×	7.5(11)	7.5(11)	(7.5)	(7.5)	(7.5)	×
4150	2258	22	22	22	15(22)	×	11(15)	11(15)	×	7.5(11)	7.5(11)	(7.5)	(7.5)	(7.5)	×
5000	2139B	—	—	—	—	×	15(22)	—	×	11(15)	11(15)	—	—	11(15)	×
6200	2139A	—	—	—	—	×	22(30)	—	×	15(22)	15(22)	—	—	11(15)	×

- Note : 1. When the power in () is selected, avoid to use at the full input capacity and use within the allowable output torque.
2. Please consult factory for ratio 104, 143, 165, 195, 231, 273, 377, 559, 4437, 6177

Output Torque (Kg f-m)	FRAME No.	Input Power(KW) vs Reduction Ratio													
		1225 (35×35)	1247 (43×29)	1479 (87×17)	1505 (43×35)	1711 (59×29)	1849 (43×43)	2065 (59×35)	2523 (87×29)	2537 (59×43)	3045 (87×35)	3481 (59×59)	3741 (87×43)	5133 (87×59)	7569 (87×87)
Output	60Hz	1.5	1.4	1.2	1.2	1.0	0.97	0.87	0.71	0.70	0.59	0.52	0.48	0.35	0.24
R.P.M	50Hz	1.2	1.2	1.0	1.0	0.9	0.8	0.7	0.6	0.6	0.5	0.4	0.4	0.3	0.2
52	232	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)
78	242	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)
	243	—	—	—	—	—	—	—	—	—	—	—	—	—	—
105	252	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)
	253	—	—	—	—	—	—	—	—	—	—	—	—	—	—
150	262B	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)
	263B	—	—	—	—	—	—	—	—	—	—	—	—	—	—
185	262A	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)	(0.2)
	263A	—	—	—	—	—	—	—	—	—	—	—	—	—	—
220	272B	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.2)	(0.2)	(0.2)
	273B	—	—	—	—	—	—	—	—	—	—	—	—	—	—
280	272A	0.4	0.4	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.2)	(0.2)	(0.2)
	273A	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	274	—	—	—	—	—	—	—	—	—	—	—	—	—	—
320	282B	—	—	—	—	—	—	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)
	284B	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	—	—	—	—	—	—	—	—
415	282A	—	—	—	—	—	—	—	—	—	(0.4)	(0.4)	(0.4)	(0.4)	(0.4)
	284A	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	—	—	—	—	—
560	293B	—	—	0.75	0.75	0.75	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)
	294B	(1.5)	(1.5)	(1.5)	(1.5)	(1.5)	—	—	—	—	—	—	—	—	—
740	293A	(1.5)	(1.5)	(1.5)	0.75	0.75	0.75	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)	(0.75)
	294A	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	296	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	2106A	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1000	2104B	1.5(2.2)	1.5(2.2)	1.5(2.2)	(1.5)	(1.5)	(1.5)	(1.5)	(1.5)	(1.5)	(1.5)	(1.5)	(1.5)	(1.5)	(1.5)
	2106B	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	2117B	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1200	2104A	(2.2)	(2.2)	(2.2)	(1.5)	(1.5)	(1.5)	(1.5)	(1.5)	(1.5)	(1.5)	(1.5)	(1.5)	(1.5)	(1.5)
1450	2224	(2.2)	(2.2)	(2.2)	(1.5)	(1.5)	(1.5)	(1.5)	(1.5)	(1.5)	(1.5)	(1.5)	(1.5)	(1.5)	(1.5)
	2226	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1600	2116B	×	2.2(3.7)	2.2(3.7)	(2.2)	(2.2)	(2.2)	(2.2)	(2.2)	(2.2)	(2.2)	(2.2)	(2.2)	(2.2)	(2.2)
	2117B	×	—	—	—	—	—	—	—	—	—	—	—	—	—
1850	2116A	×	(3.7)	(3.7)	2.2	2.2	2.2	(2.2)	(2.2)	(2.2)	(2.2)	(2.2)	(2.2)	(2.2)	(2.2)
2400	2246	×	3.7(5.5)	(3.7)	(3.7)	(3.7)	(3.7)	(3.7)	(3.7)	(3.7)	(3.7)	(3.7)	(3.7)	(3.7)	(3.7)
	2247	×	—	—	—	—	—	—	—	—	—	—	—	—	—
2500	2128B	×	(5.5)	(5.5)	(5.5)	(5.5)	(5.5)	(5.5)	(5.5)	(5.5)	(5.5)	(5.5)	(5.5)	(5.5)	(5.5)
3100	2128A	×	(5.5)	(5.5)	(5.5)	(5.5)	(5.5)	(5.5)	(5.5)	(5.5)	(5.5)	(5.5)	(5.5)	(5.5)	(5.5)
4150	2258	×	(7.5)	(7.5)	(7.5)	(7.5)	(7.5)	(7.5)	(7.5)	(7.5)	(7.5)	(7.5)	(7.5)	(7.5)	(7.5)
5000	2139B	×	(7.5)	—	(7.5)	(7.5)	(7.5)	(7.5)	—	(7.5)	—	(7.5)	—	—	—
6200	2139A	×	(11)	—	(11)	(7.5)	(7.5)	(7.5)	—	(7.5)	—	(7.5)	—	—	—

- Note : 1. When the power in () is selected, avoid to use at the full input capacity and use within the allowable output torque.
2. Please consult factory for ratio 104, 143, 165, 195, 231, 273, 377, 559, 4437, 6177

3-5) Triple Reduction Standard Models (Ratio 8041~109091)

〈Table 7〉 Selection of Speed Reducer Size (Triple Frame No)

Output Torque (Kg f-m)	FRAME No.	Input Power(KW) vs Reduction Ratio							
		8041 (43×17×11)	10115 (35×17×17)	11033 (59×17×11)	12427 (43×17×17)	14297 (29×29×17)	16269 (87×17×11)	17051 (59×17×17)	21199 (43×29×17)
Output R. P. M	60Hz	0.224	0.178	0.163	0.145	0.126	0.111	0.106	0.0849
	50Hz	0.187	0.148	0.136	0.121	0.105	0.029	0.088	0.0707
78	3432	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
185	3632	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
280	3732	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
415	3843	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
740	3943	0.75	0.75	0.75	0.75	0.75	0.75	0.4	0.4
1200	31063	1.5	1.5	1.5	1.5	1.5	0.75	0.75	0.75
1450	32263	1.5	1.5	1.5	1.5	1.5	0.75	0.75	0.75
1850	31173	1.5	×	1.5	1.5	1.5	1.5	0.75	0.75
2400	32473	1.5	×	1.5	1.5	1.5	1.5	0.75	0.75
3100	31284	2.2	×	2.2	2.2	1.5	1.5	1.5	1.5
4150	32584	2.2	×	2.2	2.2	1.5	1.5	1.5	1.5
6200	31394	3.7	×	3.7	3.7	—	—	2.2	2.2

Output Torque (Kg f-m)	FRAME No.	Input Power(KW) vs Reduction Ratio							
		25143 (87×17×17)	31433 (43×43×17)	38291 (59×59×11)	43129 (59×43×17)	51765 (87×35×17)	63597 (87×43×17)	87261 (87×59×17)	109091 (59×43×43)
Output R. P. M	60Hz	0.0716	0.0573	0.0470	0.0417	0.0348	0.0283	0.0206	0.0165
	50Hz	0.187	0.148	0.136	0.121	0.105	0.029	0.088	0.0707
78	3432	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
185	3632	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
280	3732	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
415	3843	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
740	3943	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
1200	31063	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
1450	32263	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
1850	31173	0.75	0.75	0.4	0.4	0.4	0.4	0.4	0.4
2400	32473	0.75	0.75	0.4	0.4	0.4	0.4	0.4	0.4
3100	31284	1.5	0.75	0.75	0.75	0.75	0.75	0.75	0.75
4150	32584	1.5	0.75	0.75	0.75	0.75	0.75	0.75	0.75
6200	31394	—	1.5	1.5	1.5	—	—	—	0.75

〈Note〉 The other standard reduction ratio are as follows. For the ratio not shown here, please do not hesitate to contact us.

8381	9251	10527	11165	13475	13717	16555	17255	18821
20339	20825	22715	24389	25585	27753	27907	29087	29435
33495	35105	35525	36163	41151	42875	42891	43645	49619
52675	53621	56463	59177	59885	64715	72275	73167	73573
79507	83259	88305	88795	100949	106575	108489	121835	128673
13935	148857	149683	160863	179655	205379	219501	220719	264915
302847	325467	446571	658503					

3-6) Single Reduction Permissible Transmitting Capacity

〈Table 8〉 Input Horse Power and Output Torque Rating Table - Service Factor 1.0.

Reduction Ratio 11		Input Capacity (KW)							Output Torque (Kg f-m)						
Input rpm		1800	1500	1200	1000	900	750	600	1800	1500	1200	1000	900	750	600
Output rpm		164	136	109	91	82	68	55	164	136	109	91	82	68	55
FRAME NO.	102	2.75	2.75	2.35	2.07	1.90	1.59	1.27	15.2	18.2	19.4	20.5	21.0	21.0	21.0
	103	5.10	5.10	4.36	3.84	3.57	3.14	2.69	28.1	33.7	36.1	38.1	39.3	41.5	44.4
	104	9.91	9.91	8.48	7.47	6.93	5.90	4.72	54.6	65.6	70.1	74.1	76.4	78.0	78.0
	106	18.0	18.0	17.5	15.4	14.1	11.7	9.37	99.2	119	145	153	155	155	155
	107	27.5	27.5	23.5	20.7	19.2	16.9	14.5	152	182	194	205	212	224	239
	108	33.6	33.6	33.6	29.7	27.6	24.3	20.6	185	222	278	294	304	321	340
	109	44.0	44.0	40.0	35.5	33.0	29.0	24.8	243	291	334	352	364	384	411
	110	72.1	72.1	68.8	62.1	58.5	52.6	43.9	397	477	569	616	645	695	726
	122	—	—	90.3	81.4	76.7	69.1	59.1	—	—	746	808	846	914	977
	111	—	—	93.8	93.8	93.4	81.9	69.6	—	—	775	930	1029	1084	1150
	124	—	—	119	119	119	104	87.4	—	—	981	1177	1308	1382	1445
	112	—	—	144	144	144	140	112	—	—	1190	1429	1587	1850	1850
	125	—	—	173	173	173	173	145	—	—	1430	1716	1907	2288	2400

Reduction Ratio 17		Input Capacity (KW)							Output Torque (Kg f-m)						
Input rpm		1800	1500	1200	1000	900	750	600	1800	1500	1200	1000	900	750	600
Output rpm		106	88	70	59	53	44	35	106	88	71	59	53	44	35
FRAME NO.	102	2.13	2.13	1.82	1.60	1.49	1.27	1.02	18.1	21.8	23.3	24.6	25.4	26.0	26.0
	103	5.09	5.09	4.07	3.39	3.05	2.54	2.03	43.3	52.0	52.0	52.0	52.0	52.0	52.0
	104	7.17	7.17	6.11	5.09	4.58	3.82	3.05	61.1	73.3	78.0	78.0	78.0	78.0	78.0
	106	15.3	15.3	13.1	11.5	10.7	9.05	7.24	130	156	167	176	182	185	185
	107	19.7	19.7	16.8	14.8	13.8	12.1	10.4	168	201	215	227	234	248	265
	108	30.5	30.5	26.1	22.9	21.3	18.8	16.0	259	311	333	352	363	383	410
	109	44.0	44.0	39.6	34.8	32.3	28.5	24.4	375	450	505	534	551	582	622
	110	48.3	48.3	46.4	46.1	42.9	37.8	32.4	410	491	591	706	732	753	804
	122	—	—	60.3	59.9	55.7	49.1	42.1	—	—	768	920	951	978	1045
	111	—	—	71.9	68.6	63.7	56.2	48.1	—	—	917	1052	1087	1117	1196
	124	—	—	90.5	86.4	80.2	70.8	60.6	—	—	1155	1325	1369	1407	1506
	112	—	—	125.4	124	116.4	102.7	87.9	—	—	1593	1912	1990	2037	2189
	125	—	—	150.4	148.8	139.7	123.2	105.5	—	—	1911	2294	2388	2444	2626

Reduction Ratio 29		Input Capacity (KW)							Output Torque (Kg f-m)						
Input rpm		1800	1500	1200	1000	900	750	600	1800	1500	1200	1000	900	750	600
Output rpm		62	51	41	35	31	26	21	62	51	41	35	31	26	21
FRAME NO.	102	1.38	1.38	1.18	0.994	0.895	0.746	0.597	20.0	24.0	25.6	26.0	26.0	26.0	26.0
	103	2.90	2.90	2.39	1.99	1.79	1.49	1.19	42.1	50.5	52.0	52.0	52.0	52.0	52.0
	104	4.47	4.47	3.58	2.98	2.68	2.24	1.79	65.0	78.0	78.0	78.0	78.0	78.0	78.0
	106	9.86	9.86	8.44	7.07	6.37	5.31	4.24	143	172	184	185	185	185	185
	107	14.5	14.5	12.4	10.7	9.63	8.03	6.42	211	253	270	280	280	280	280
	108	18.8	18.8	16.0	14.1	13.1	11.5	9.52	272	327	350	369	381	403	415
	109	30.7	30.7	26.2	23.1	21.4	18.9	16.1	445	535	572	604	623	658	704
	110	48.8	48.8	42.4	37.4	33.7	28.1	22.5	709	851	925	977	980	980	980
	122	—	—	53.6	47.2	43.8	37.3	29.8	—	—	1168	1234	1274	1300	1300
	111	—	—	56.3	56.3	53.9	47.0	37.9	—	—	1226	1471	1566	1640	1650
	124	—	—	70.5	70.5	66.7	58.7	48.2	—	—	1536	1843	1939	2048	2100
	112	—	—	96.3	96.3	92.9	77.4	61.9	—	—	2098	2517	2700	2700	2700
	125	—	—	138	138	124	103	82.6	—	—	2997	3506	3600	3600	3600

Reduction Ratio 35		Input Capacity (KW)							Output Torque (Kg f-m)						
Input rpm		1800	1500	1200	1000	900	750	600	1800	1500	1200	1000	900	750	600
Output rpm		51	43	34	29	26	21	17	51	43	34	29	26	21	17
FRAME NO.	102	1.04	1.04	0.886	0.780	0.724	0.617	0.494	18.2	21.8	23.3	24.6	25.4	26.0	26.0
	103	2.47	2.47	1.98	1.65	1.48	1.24	0.988	43.3	52.0	52.0	52.0	52.0	52.0	52.0
	104	3.70	3.70	2.97	2.47	2.22	1.85	1.48	64.9	77.9	78.0	78.0	78.0	78.0	78.0
	105	4.99	4.99	3.99	3.33	2.99	2.49	2.00	87.5	105	105	105	105	105	105
	106	8.79	8.79	7.03	5.86	5.27	4.40	3.52	154	185	185	185	185	185	185
	107	12.6	12.6	10.6	8.87	7.98	6.65	5.32	221	266	280	280	280	280	280
	108	18.8	18.8	15.8	13.1	11.8	9.86	7.89	329	395	415	415	415	415	415
	109	24.3	24.3	20.7	18.3	17.0	14.9	12.8	425	510	546	576	595	628	672
	110	40.9	40.6	34.4	30.5	28.5	24.8	21.3	702	832	881	939	971	1015	1093

Reduction Ratio 43		Input Capacity (KW)							Output Torque (Kg f-m)						
Input rpm		1800	1500	1200	1000	900	750	600	1800	1500	1200	1000	900	750	600
Output rpm		42	35	28	23	21	17	14	42	35	28	23	21	17	14
FRAME NO.	102	0.938	0.938	0.801	0.670	0.603	0.503	0.402	20.0	24.3	25.9	26.0	26.0	26.0	26.0
	103	2.01	2.01	1.61	1.34	1.21	1.01	0.804	43.3	52.0	52.0	52.0	52.0	52.0	52.0
	104	2.99	2.99	2.41	2.01	1.81	1.51	1.21	64.5	77.4	78.0	78.0	78.0	78.0	78.0
	106	6.83	6.83	5.72	4.77	4.29	3.58	2.86	147	176	185	185	185	185	185
	107	9.38	9.38	8.02	7.06	6.50	5.42	4.33	202	242	259	274	280	280	280
	108	15.0	15.0	12.8	10.7	9.63	8.03	6.42	324	389	415	415	415	415	415
	109	20.9	20.9	17.9	15.8	14.6	12.9	11.0	451	541	579	611	631	666	712
	110	37.5	37.5	32.2	28.0	25.6	22.1	17.8	808	970	1040	1085	1105	1141	1150
	122	—	—	39.8	34.2	31.4	27.0	22.4	—	—	1285	1327	1353	1397	1450
	111	—	—	43.4	43.4	40.3	35.5	28.6	—	—	1402	1682	1736	1834	1850
	124	—	—	56.5	56.5	51.7	44.4	36.8	—	—	1827	2192	2229	2294	2375
	112	—	—	68.8	68.8	68.8	60.0	48.0	—	—	2222	2666	2962	3100	3100
	125	—	—	96.3	96.3	89.1	77.2	64.2	—	—	3111	3733	3840	3993	4150
	113	—	—	127	127	118	104	89.0	—	—	4114	4937	5096	5382	5755

Reduction Ratio 59		Input Capacity (KW)							Output Torque (Kg f-m)						
Input rpm		1800	1500	1200	1000	900	750	600	1800	1500	1200	1000	900	750	600
Output rpm		30	25	20	17	15	13	10	30	25	20	17	15	13	10
FRAME NO.	102	0.613	0.613	0.524	0.461	0.428	0.366	0.293	18.1	21.7	23.2	24.5	25.3	26.0	26.0
	103	1.40	1.40	1.17	0.977	0.880	0.733	0.586	41.4	49.7	52.0	52.0	52.0	52.0	52.0
	104	2.18	2.18	1.76	1.47	1.32	1.10	0.880	64.5	77.4	78.0	78.0	78.0	78.0	78.0
	105	2.96	2.96	2.37	1.97	1.78	1.48	1.18	87.5	105	105	105	105	105	105
	106	4.98	4.98	4.17	3.48	3.13	2.61	2.09	147	177	185	185	185	185	185
	107	7.17	7.17	6.14	5.26	4.74	3.95	3.16	212	255	272	280	280	280	280
	108	9.38	9.38	8.02	7.06	6.56	5.77	4.68	277	333	356	376	388	409	415
	109	15.2	15.2	13.0	11.5	10.7	9.38	8.02	450	540	578	610	630	665	711
	110	28.0	28.0	24.1	20.8	19.0	16.2	13.0	829	995	1069	1104	1125	1150	1150
	122	—	—	28.9	24.9	22.9	19.7	16.3	—	—	1280	1326	1352	1398	1450
	111	—	—	30.3	30.3	27.9	24.2	20.3	—	—	1341	1610	1647	1715	1802
	124	—	—	39.3	39.3	36.1	31.1	26.0	—	—	1741	2090	2132	2207	2302
	112	—	—	56.3	56.3	52.4	43.7	35.0	—	—	2494	2993	3100	3100	3100
	125	—	—	75.6	75.6	70.2	58.5	46.8	—	—	3353	4024	4140	4149	4149
	113	—	—	102	102	94.4	83.1	69.9	—	—	4508	5409	5583	5897	6200

Reduction Ratio 87		Input Capacity (KW)							Output Torque (Kg f-m)						
Input rpm		1800	1500	1200	1000	900	750	600	1800	1500	1200	1000	900	750	600
Output rpm		20	17	14	11	10	9	7	20	17	14	11	10	9	7
FRAME NO.	102	0.497	0.497	0.398	0.331	0.298	0.248	0.199	21.7	26.0	26.0	26.0	26.0	26.0	26.0
	103	0.938	0.938	0.795	0.663	0.596	0.497	0.398	40.9	40.9	52.0	52.0	52.0	52.0	52.0
	104	1.48	1.48	1.19	0.994	0.894	0.745	0.596	64.5	77.4	78.0	78.0	78.0	78.0	78.0
	105	2.01	2.01	1.61	1.34	1.20	1.00	0.803	87.5	105	105	105	105	105	105
	106	3.37	3.37	2.83	2.36	2.12	1.77	1.41	147	176	185	185	185	185	185
	107	4.86	4.86	4.16	3.57	3.21	2.68	2.14	212	254	272	280	280	280	280
	108	7.42	7.42	6.35	5.29	4.76	3.97	3.17	324	388	415	415	415	415	415
	109	11.8	11.8	10.1	8.88	8.25	7.07	5.66	514	617	660	697	719	740	740
	110	18.4	18.4	14.7	12.2	11.0	9.18	7.34	800	960	960	960	960	960	960
	122	—	—	18.7	16.5	14.9	12.4	9.94	—	—	1225	1294	1300	1300	1300
	111	—	—	21.0	21.0	18.9	15.8	12.6	—	—	1375	1650	1650	1650	1650
	124	—	—	26.8	26.8	24.1	20.1	16.1	—	—	1750	2100	2100	2100	2100
	112	—	—	34.4	34.4	31.0	25.8	20.6	—	—	2250	2700	2700	2700	2700
	125	—	—	45.9	45.9	41.3	34.4	27.5	—	—	3000	3600	3600	3600	3600

► Remarks :

- 1) When input speeds fall between the published standards, rated input capacity and output torque may be determined through interpolation. (Refer to Table 8)

Example,

For Frame No. 107(Ratio 29) at input speed 850rpm

8.03KW at input speed 750rpm.

9.63KW at input speed 900rpm.

$$\text{Rated input capacity} = 8.03 + \frac{9.63 - 8.03}{900 - 750} \times (850 - 750) = 9.09\text{KW}$$

- 2) When a Frame Number is selected, please care the formula on Equivalent transmitting capacity $\leq$ Permissible transmitting capacity.



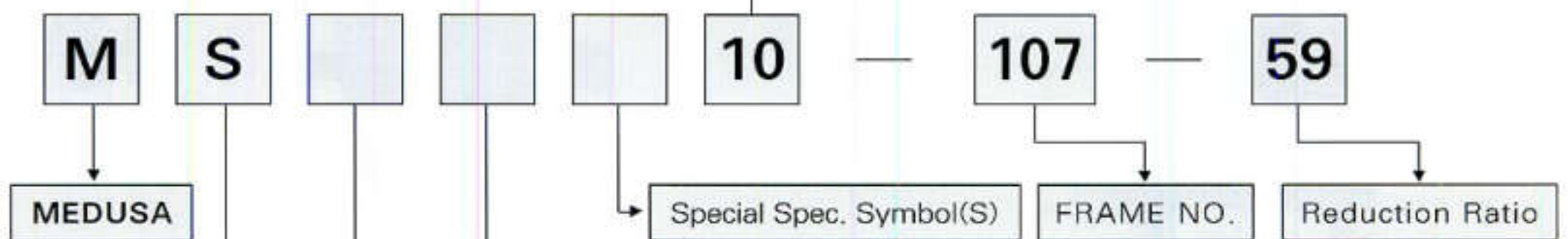
4. LINE POWER (基本型)

* IDENTIFICATION

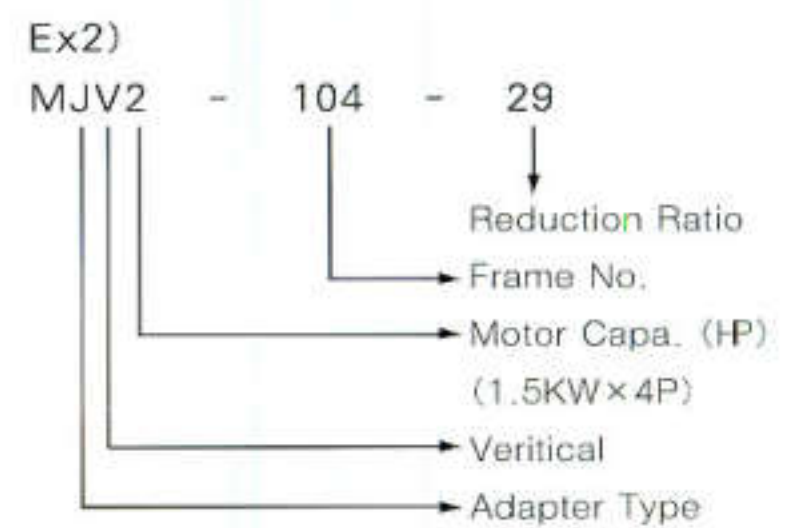
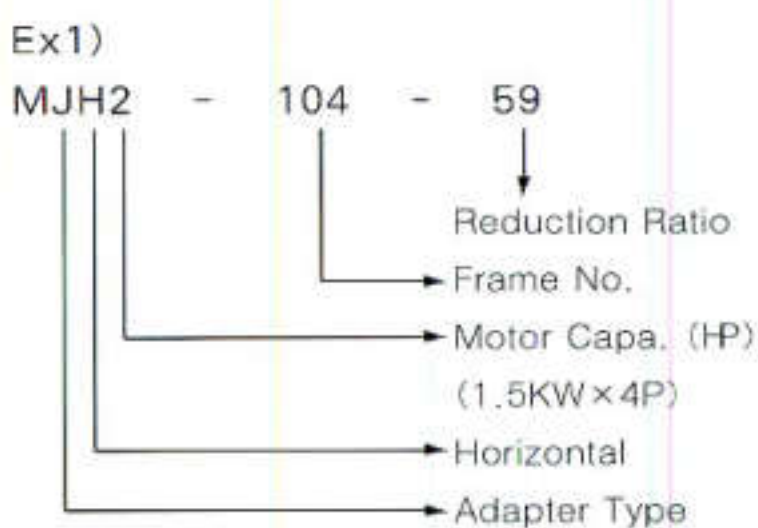
Motor Capacity Symbol

4	Symbol	02	05	1	2	3	5	8	10	15	20	30	40	50
Pole	KW (HP)	0.2 (1/4)	0.4 (1/2)	0.75 (1)	1.5 (2)	2.2 (3)	3.7 (5)	5.5 (7.5)	7.5 (10)	11 (15)	15 (20)	22 (30)	30 (40)	37 (50)

6	Symbol	206	306	406	506	606	756
Pole	KW (HP)	15 (20)	22 (30)	30 (40)	37 (50)	45 (60)	55 (75)



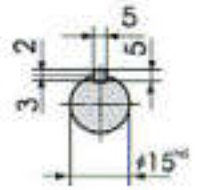
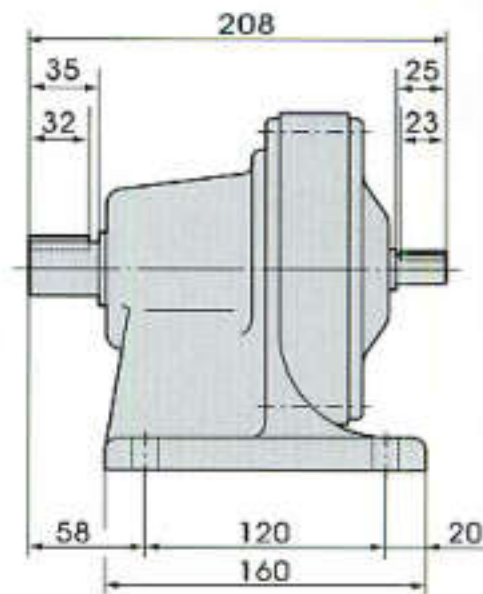
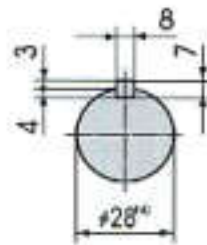
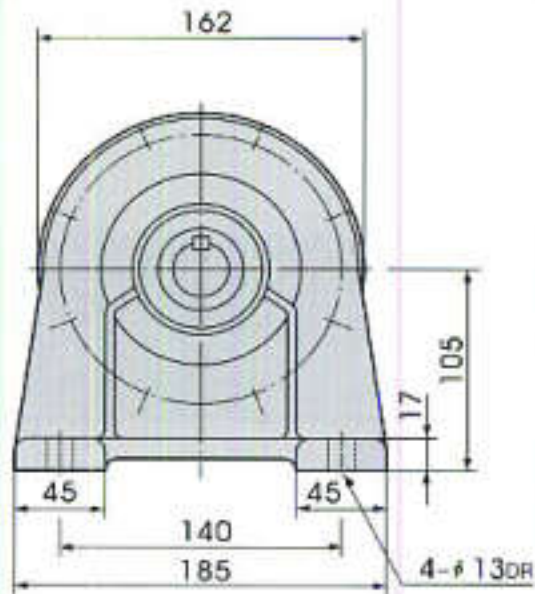
Input power method	Mounting type	Output shaft direction
S (SPEED REDUCER)	H (FOOT MOUNT)	H (HORIZONTAL)
J (ADAPTER)	V (BASE MOUNT)	V (VERTICAL SHAFT DOWN)
	F (FLANGE MOUNT)	W (VERTICAL SHAFT UP)



4-1) DIMENSIONS : MSH Single Reduction Type

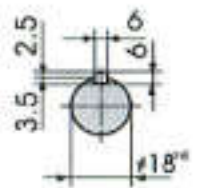
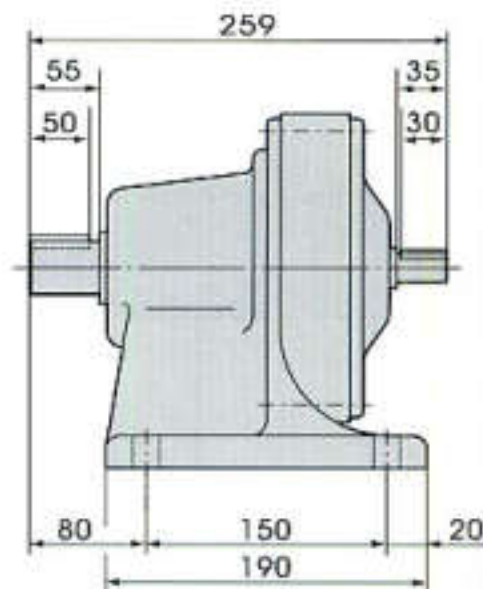
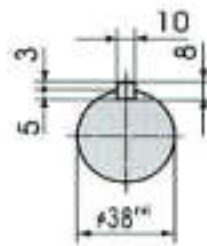
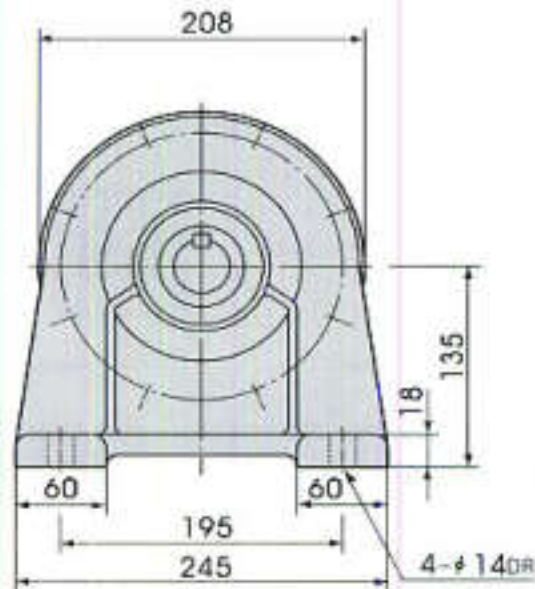
MSH-102

WT. 15kg



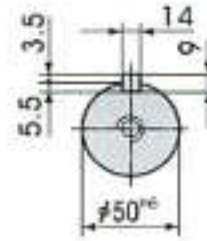
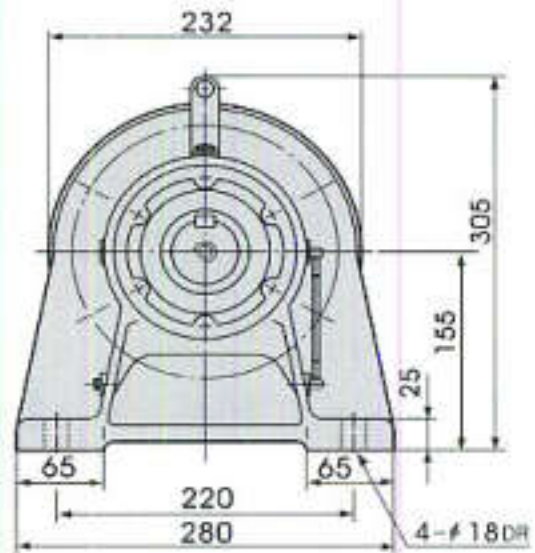
MSH-103

WT. 25kg

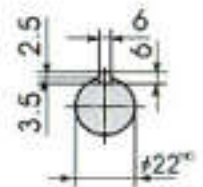
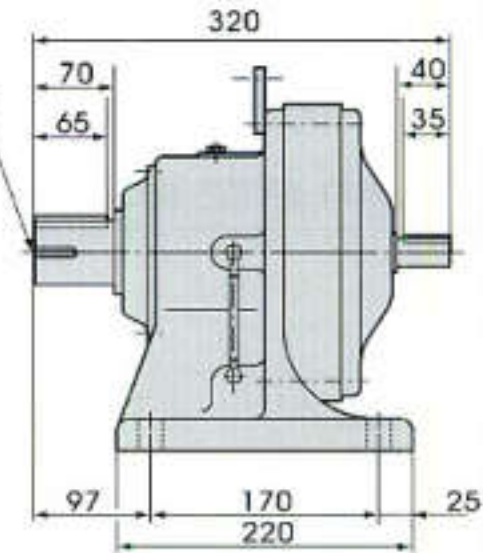


MSH-104

WT. 43kg

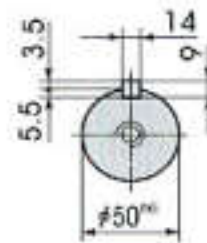
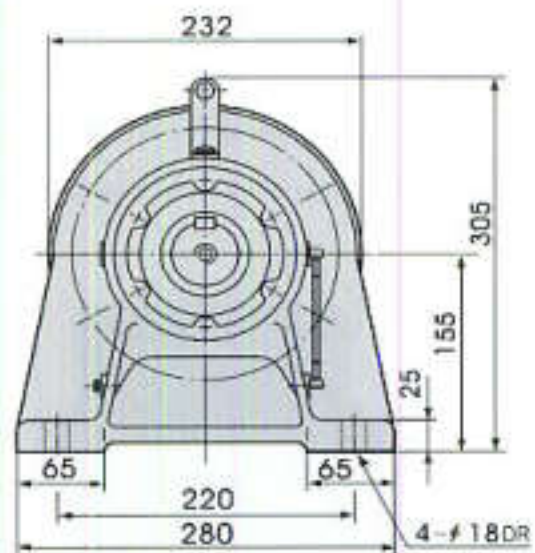


M10×20DP

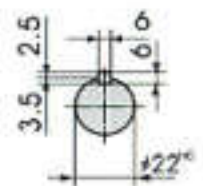
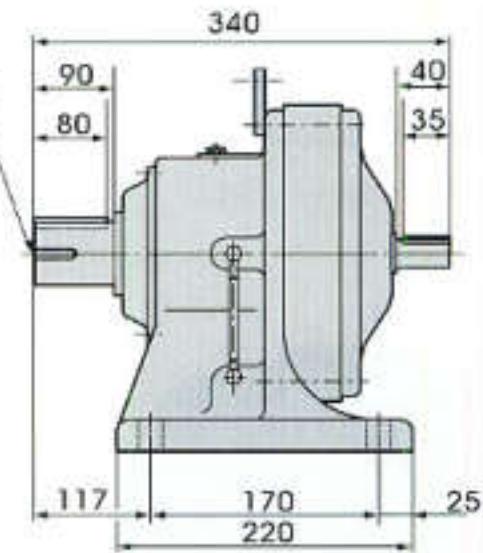


MSH-105

WT. 44kg



M10×20DP



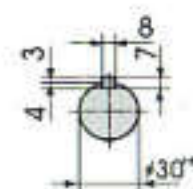
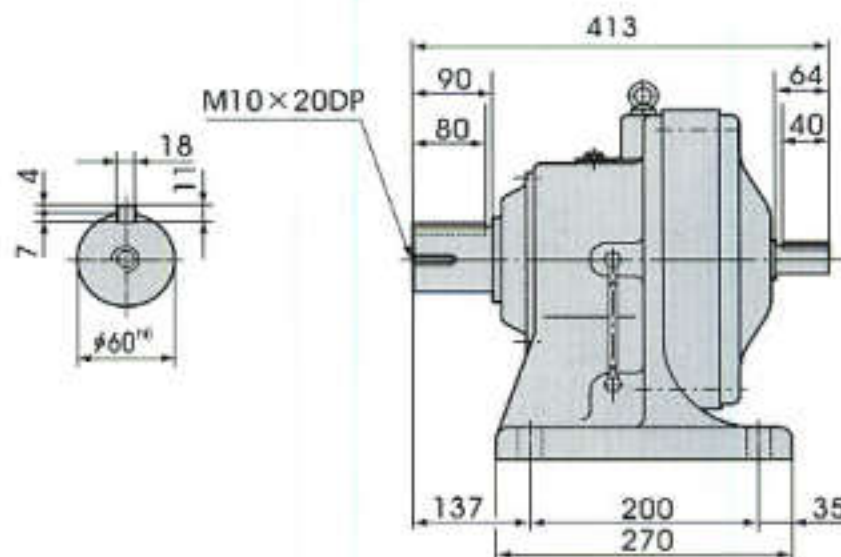
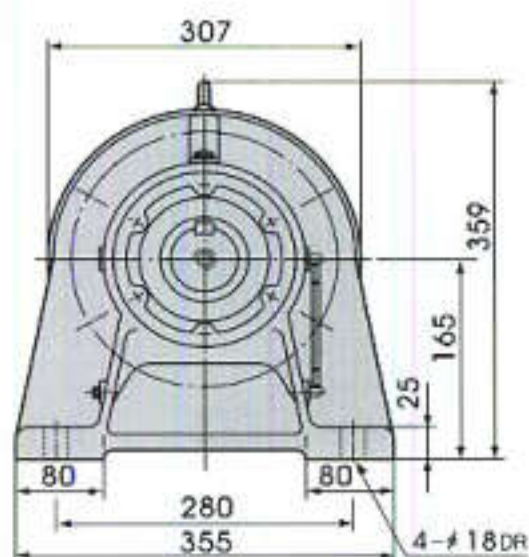
Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

3. Dimensions and specifications are subjected to change without notice.

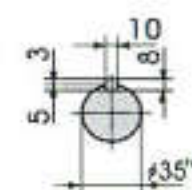
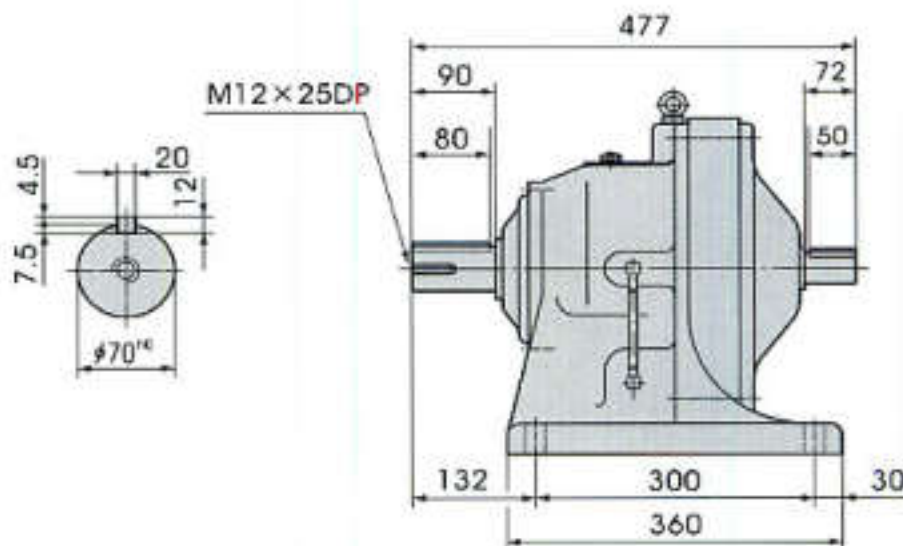
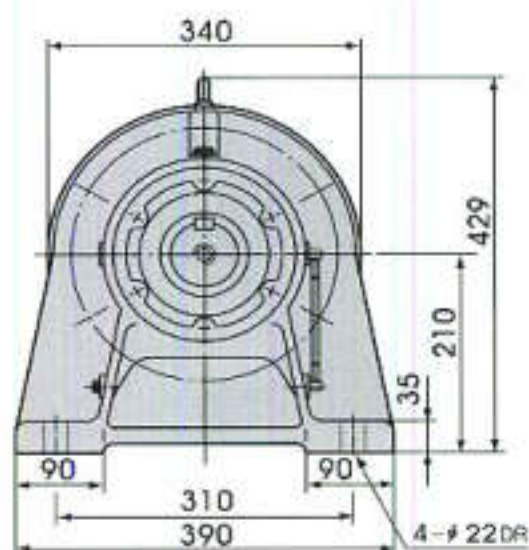
MSH-106

WT. 85kg



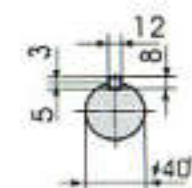
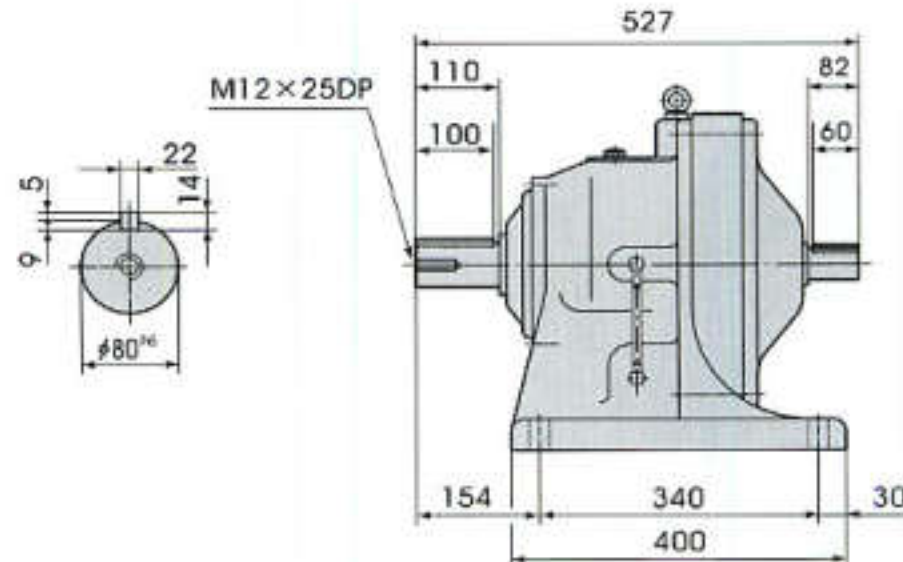
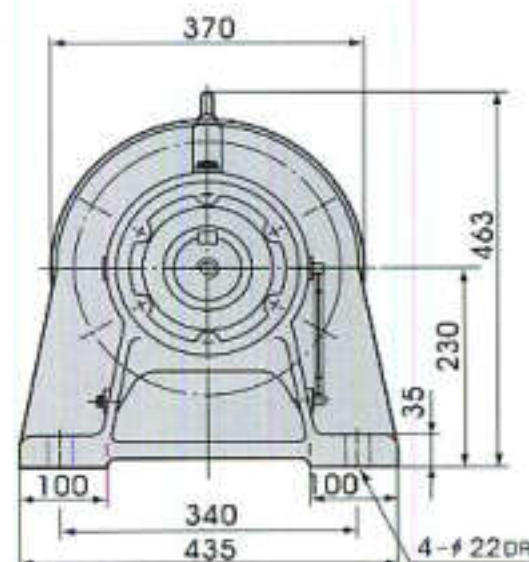
MSH-107

WT. 123kg



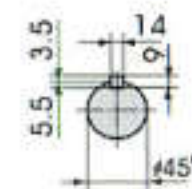
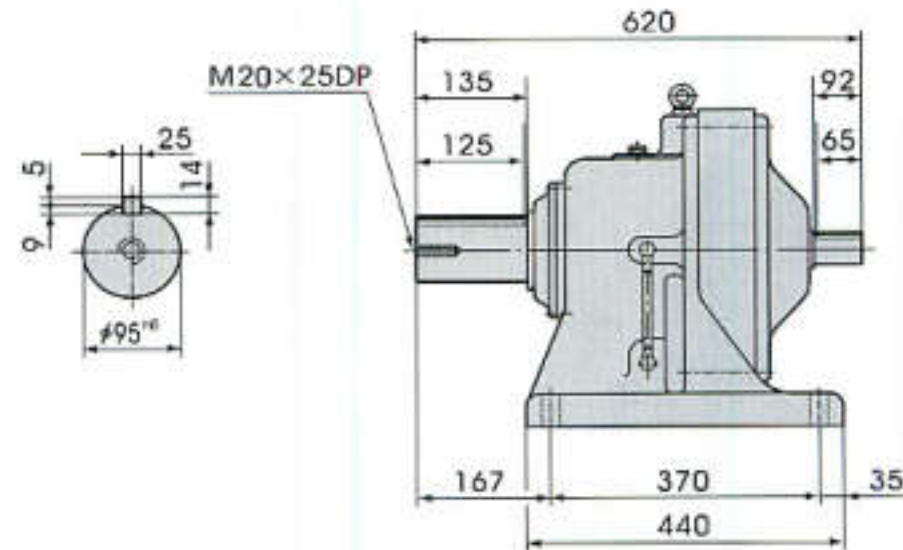
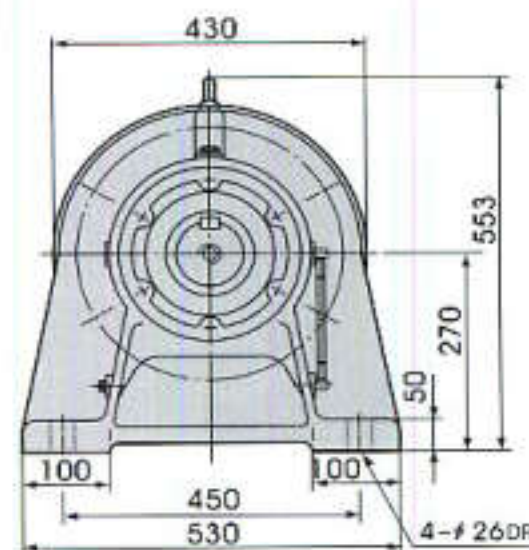
MSH-108

WT. 154kg



MSH-109

WT. 243kg



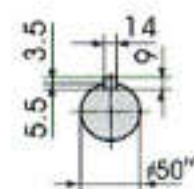
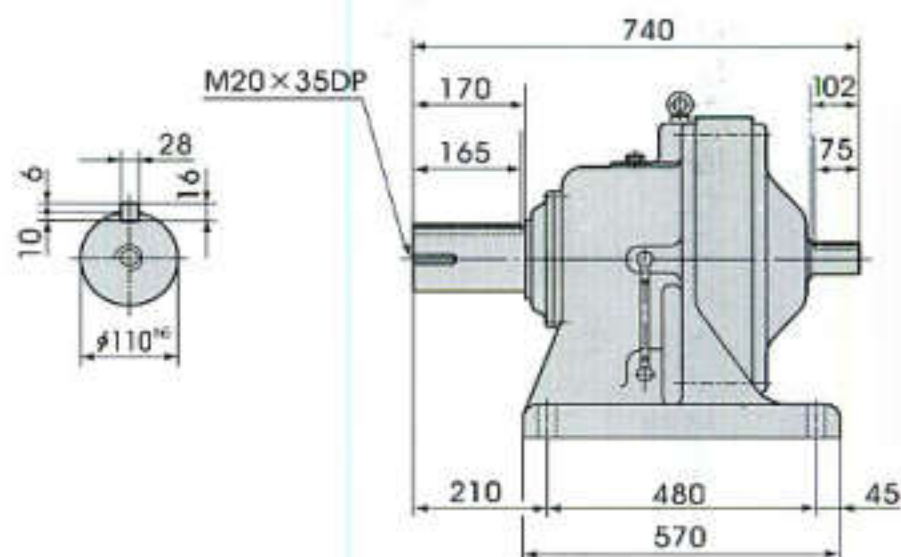
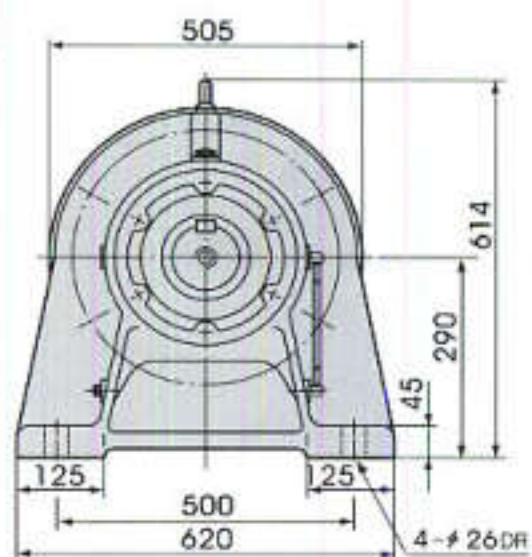
Note) 1. Dimension tolerance : Output shaft h_8
Input shaft F_8 or F_7

2. Key KS B 1311-84 Parallel Key

3. Dimensions and specifications are subjected to change without notice.

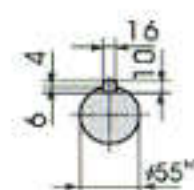
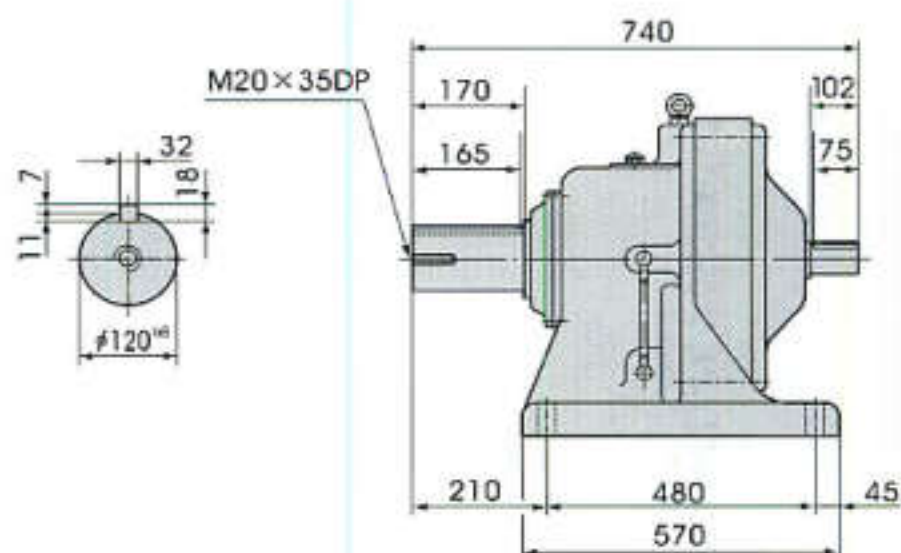
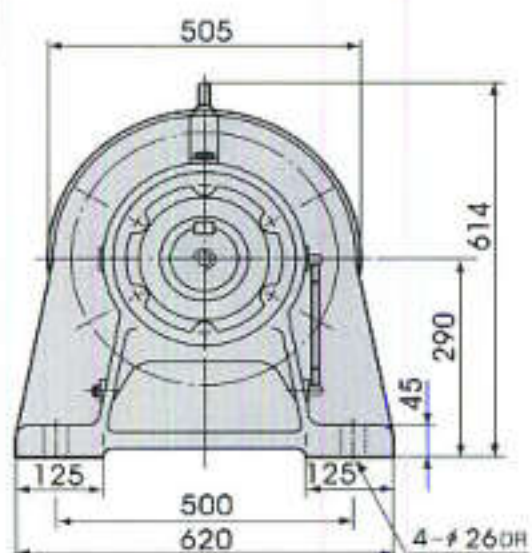
MSH-110

WT. 386kg



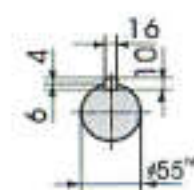
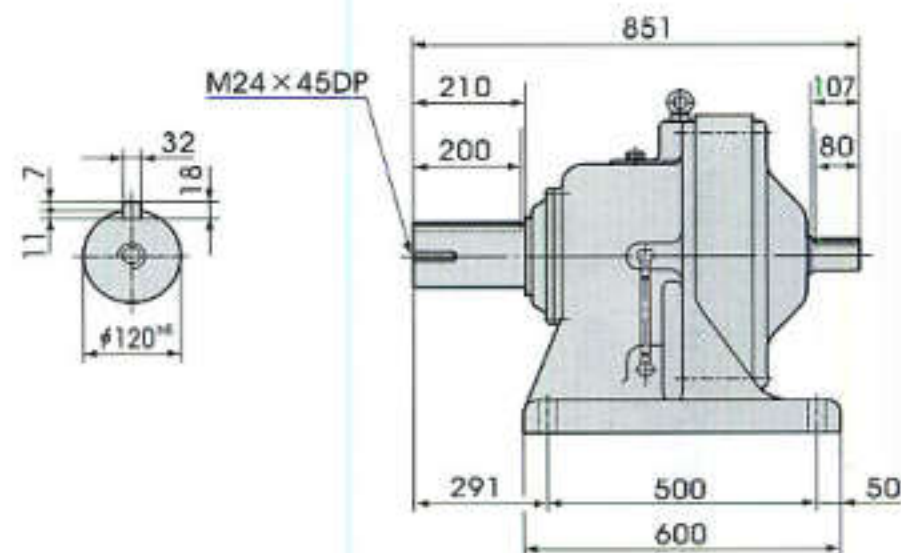
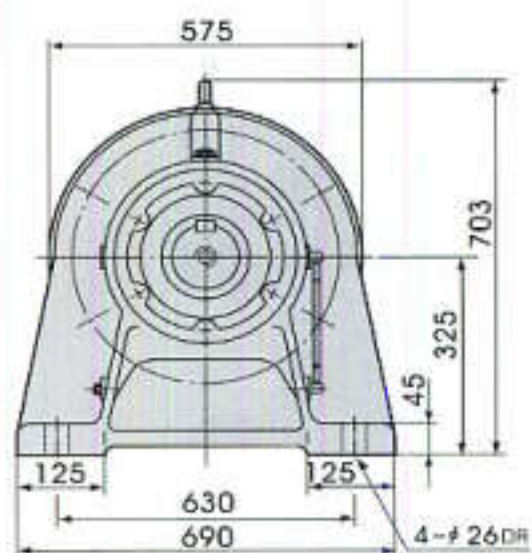
MSH-122

WT. 394kg



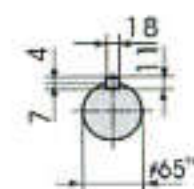
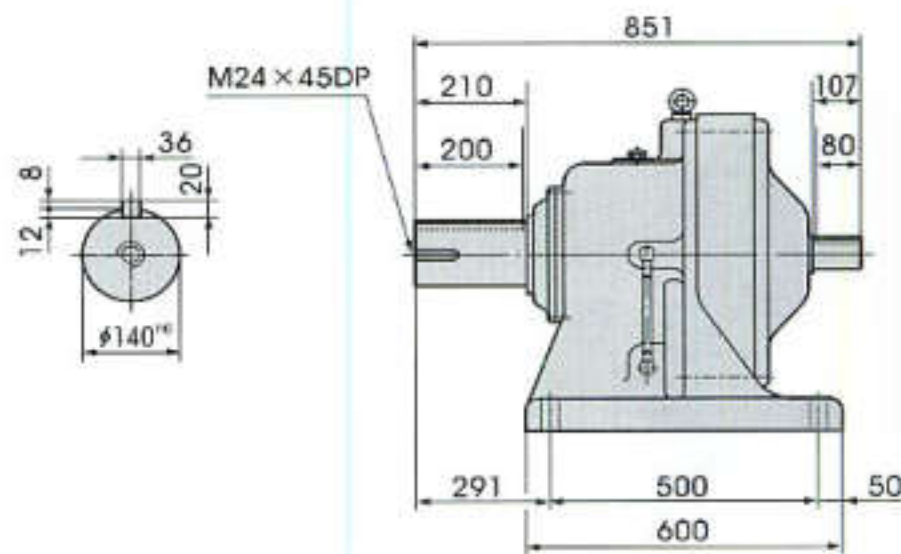
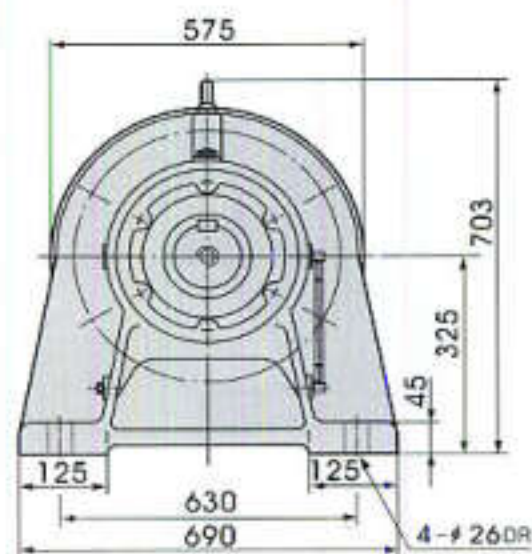
MSH-111

WT. 544kg



MSH-124

WT. 572kg



Note) 1. Dimension tolerance : Output shaft h_6

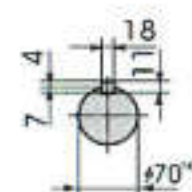
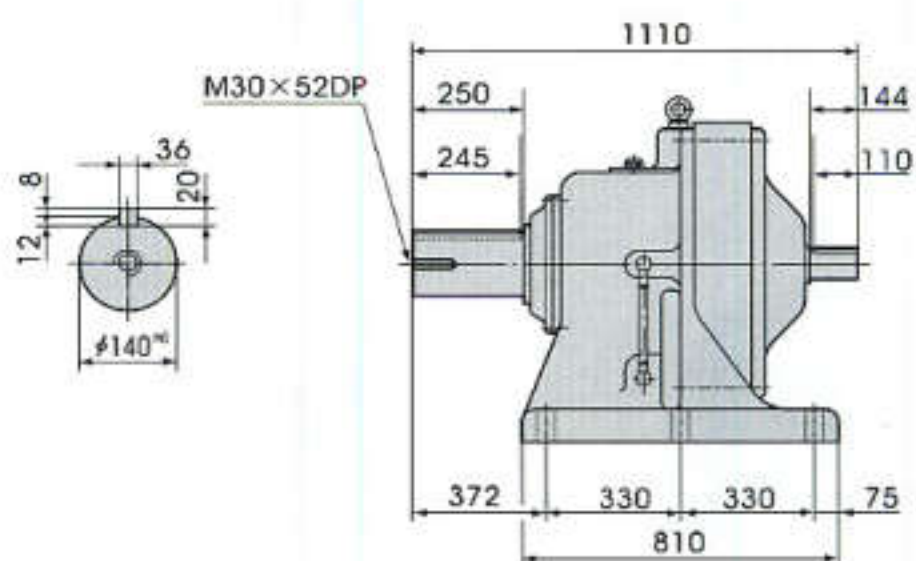
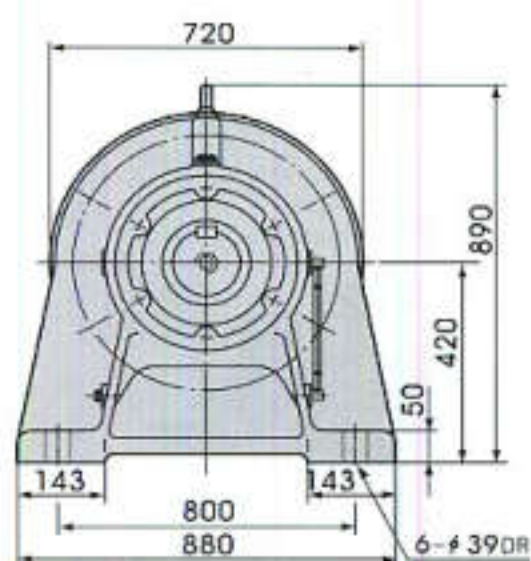
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

3. Dimensions and specifications are subjected to change without notice.

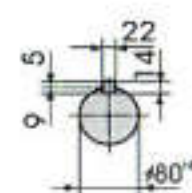
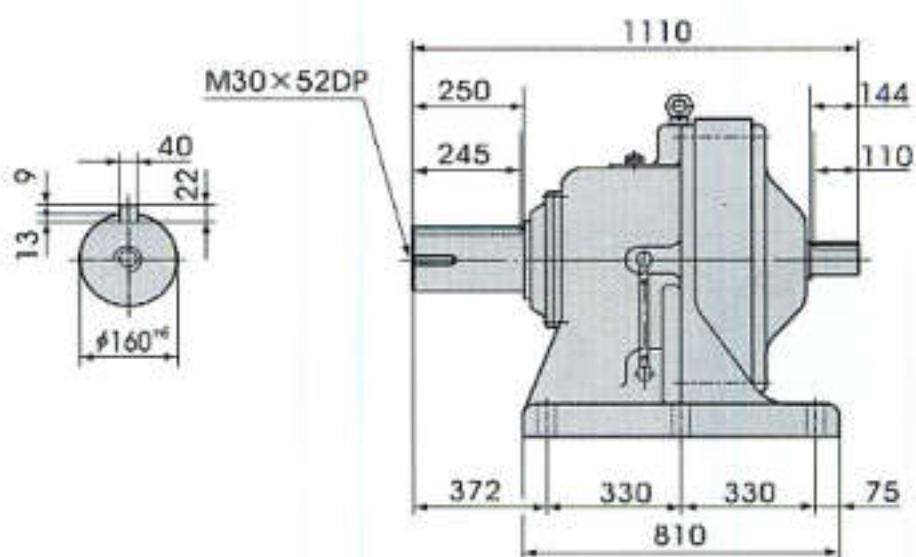
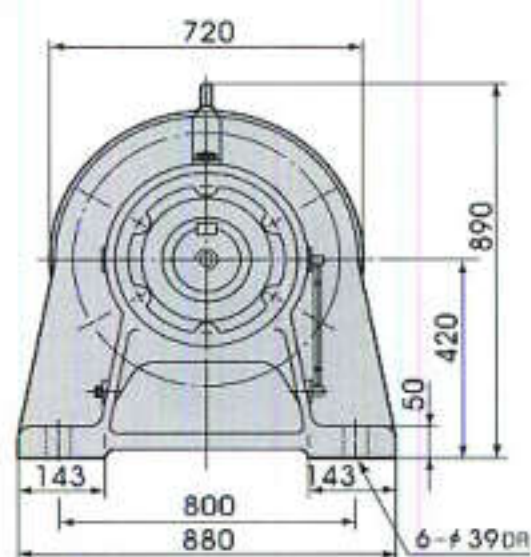
MSH-112

WT. 1070kg



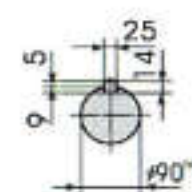
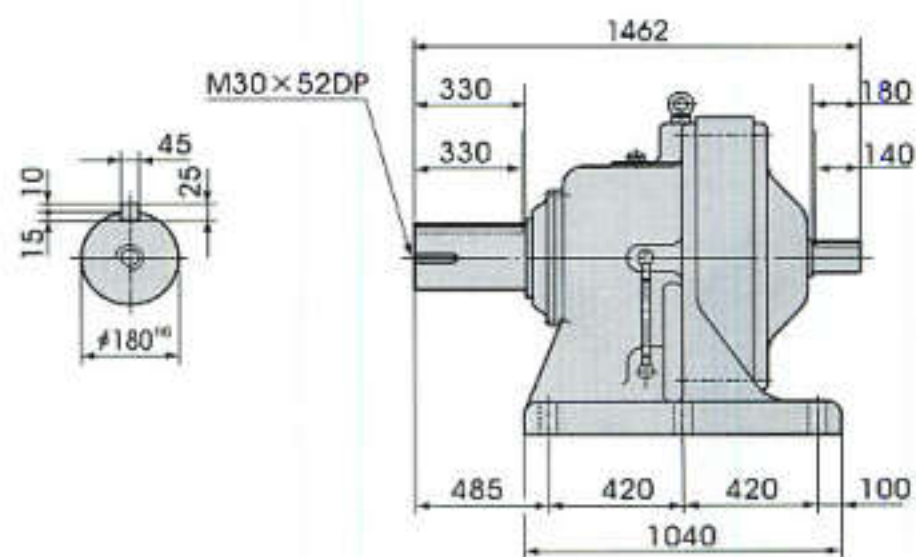
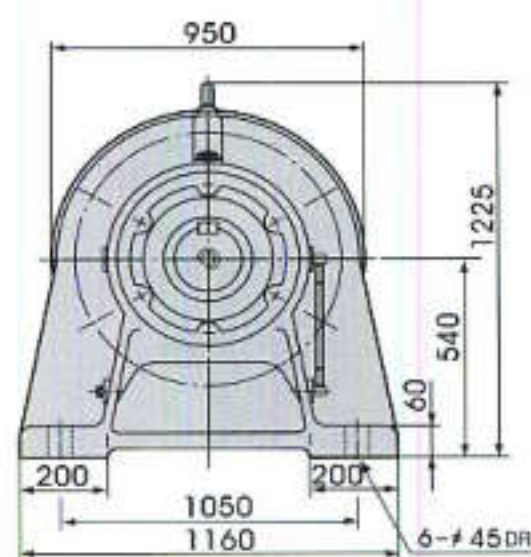
MSH-125

WT. 1100kg



MSH-113

WT. 2430kg



Note) 1. Dimension tolerance : Output shaft h_8
Input shaft F_6 or F_7

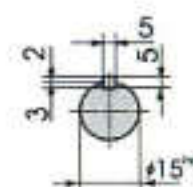
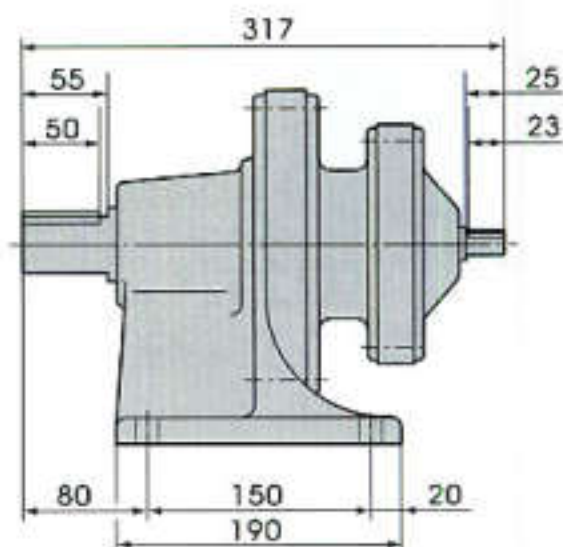
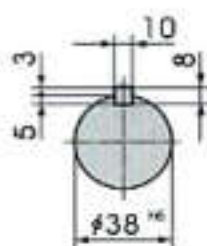
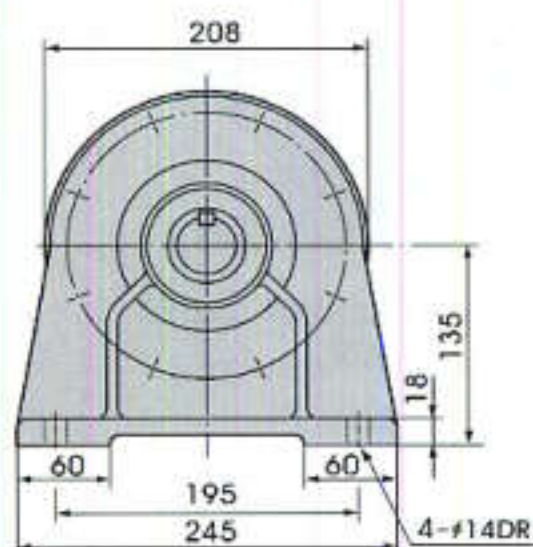
2. Key KS B 1311-84 Parallel Key

3. Dimensions and specifications are subjected to change without notice.

4-2) DIMENSIONS : MSH Double Reduction Type

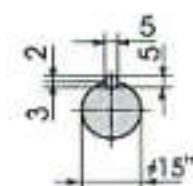
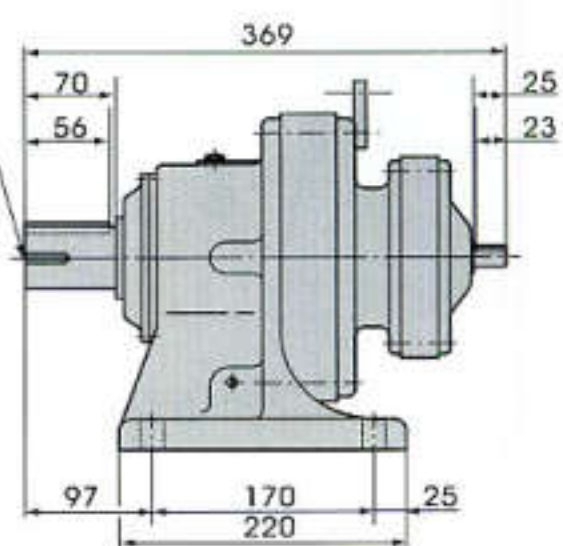
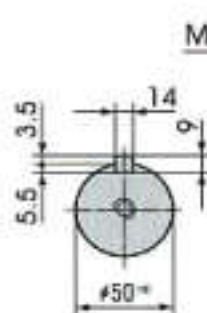
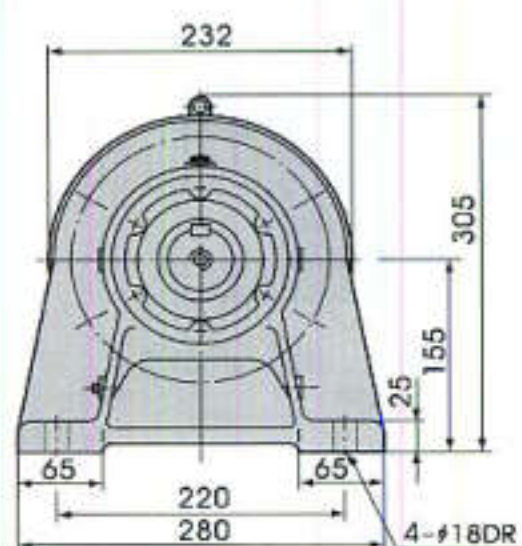
MSH-232

WT. 40kg



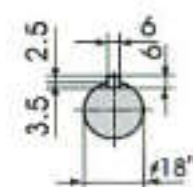
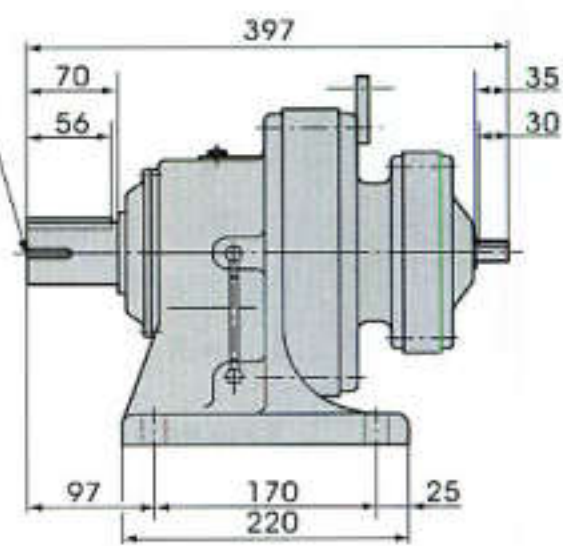
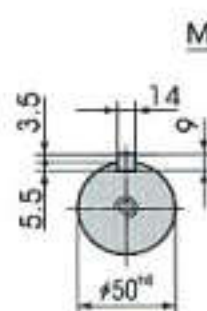
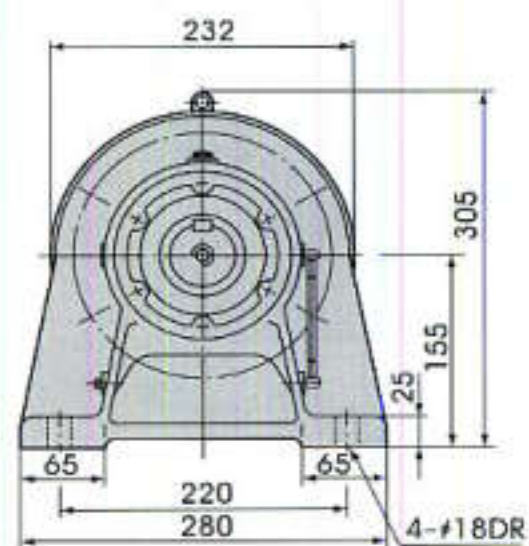
MSH-242

WT. 50kg



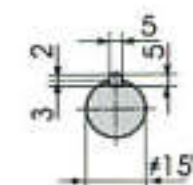
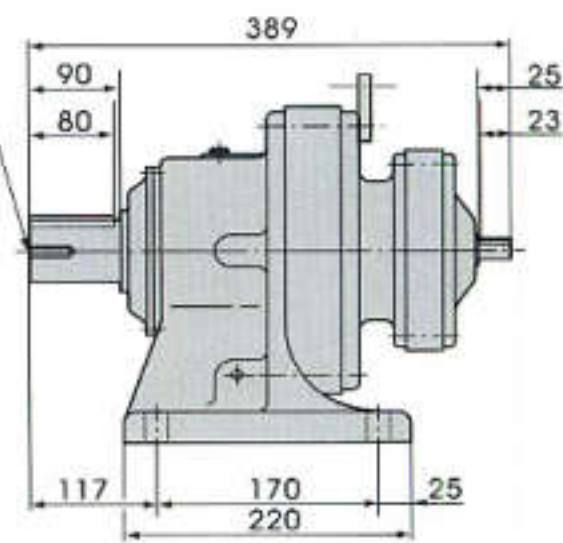
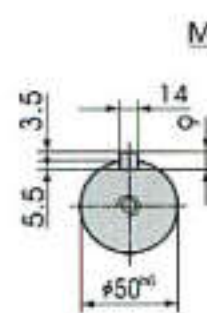
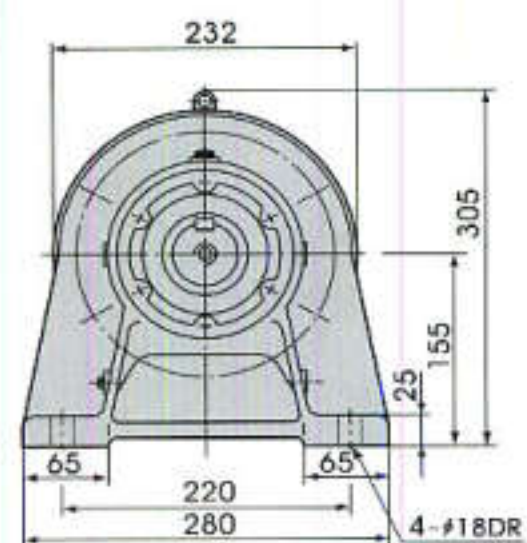
MSH-243

WT. 53kg



MSH-252

WT. 51kg



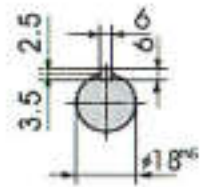
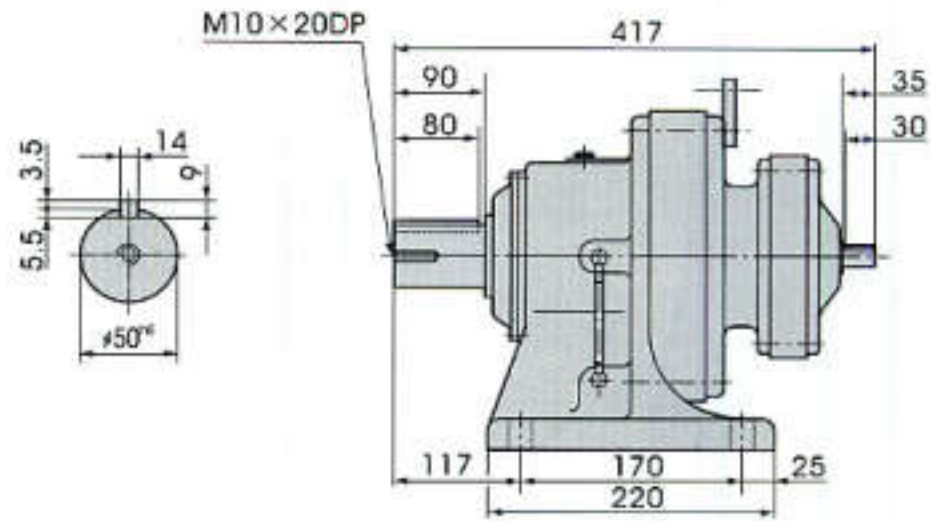
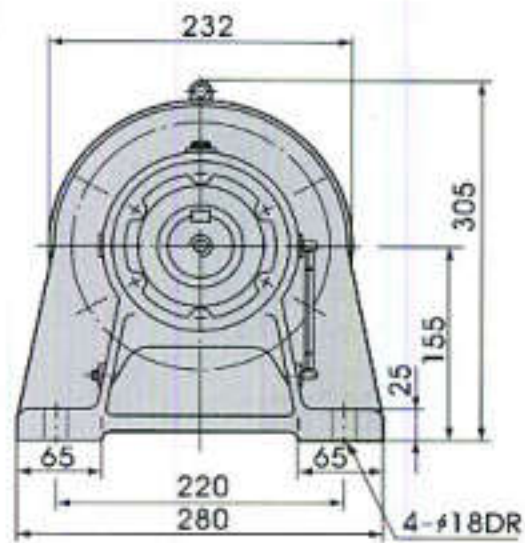
Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

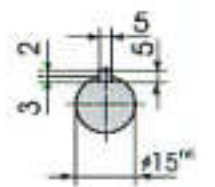
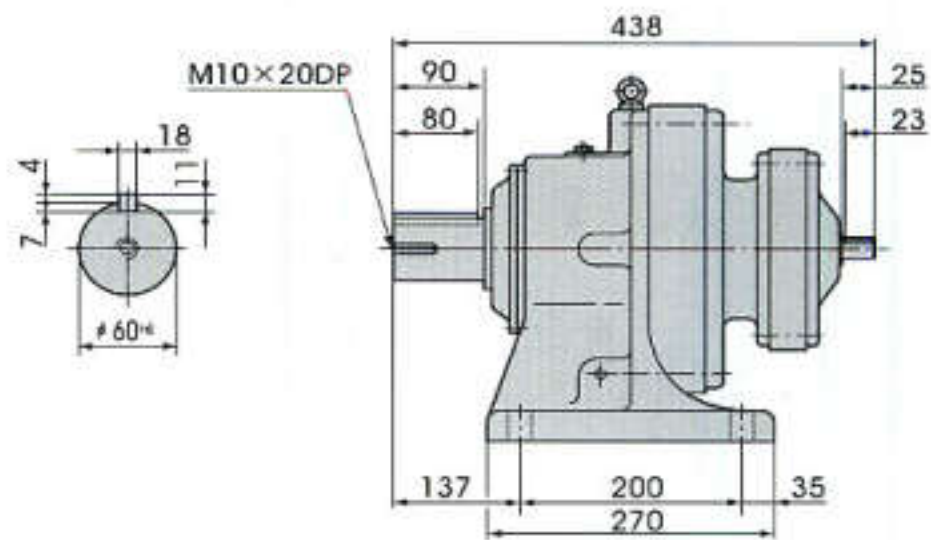
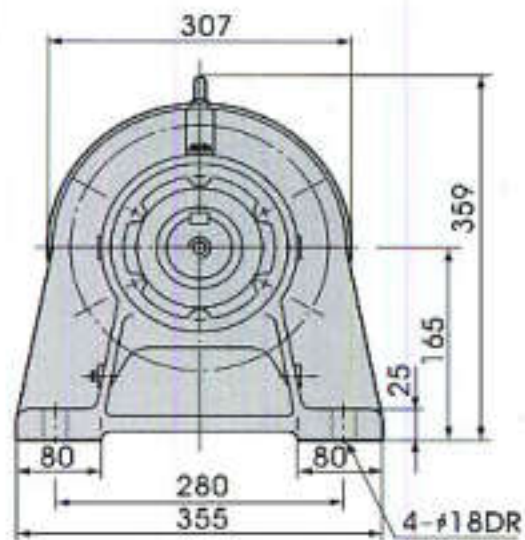
3. Dimensions and specifications are subjected to change without notice.

MSH-253

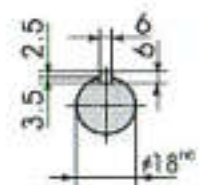
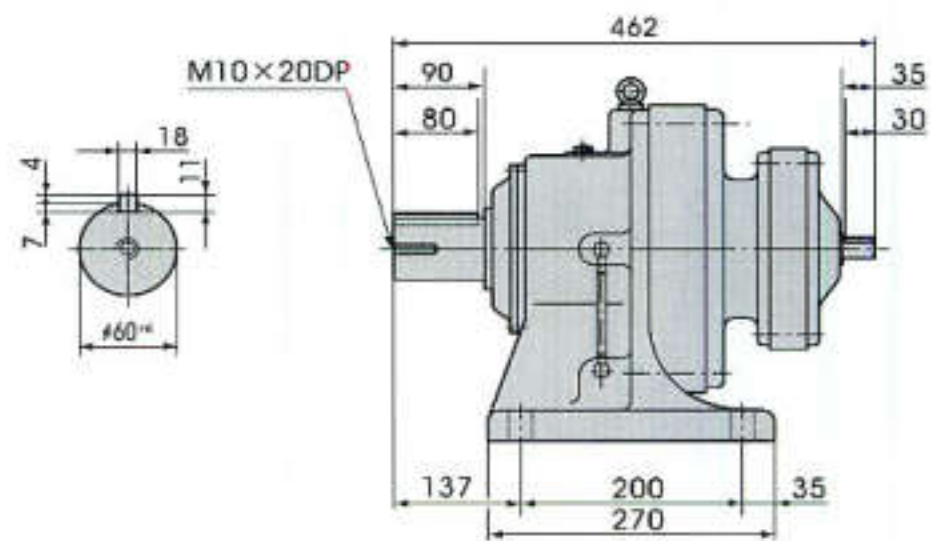
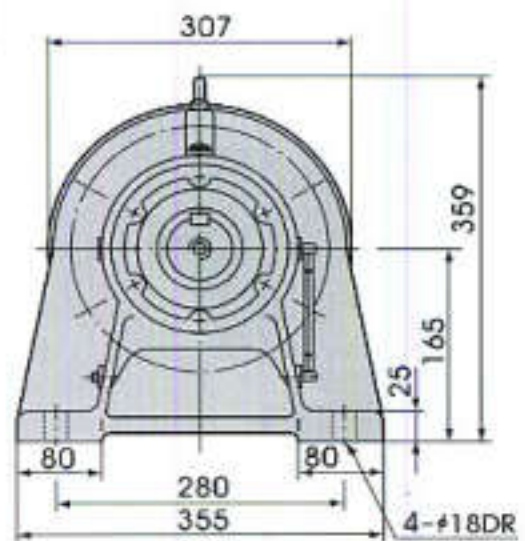
WT. 54kg

**MSH-262**

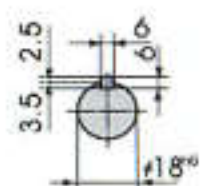
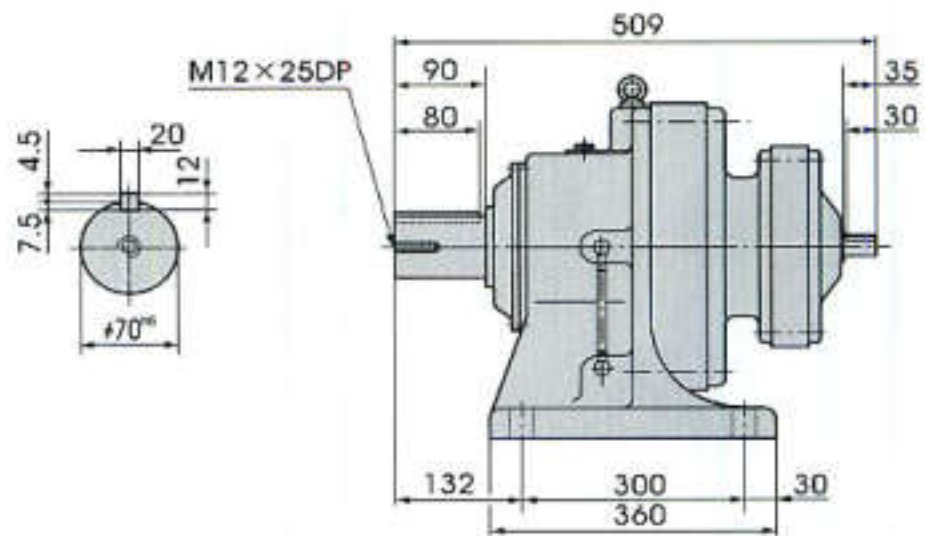
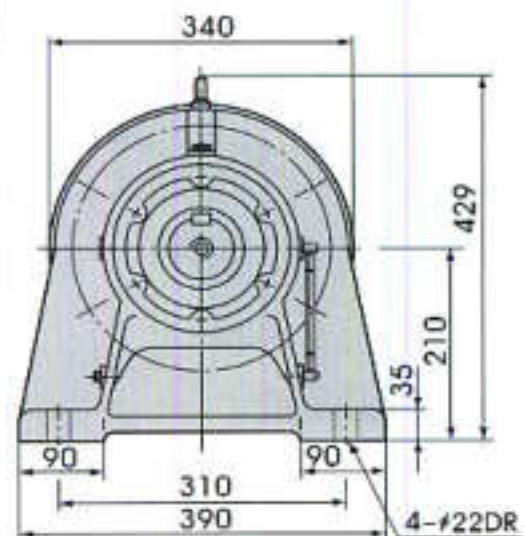
WT. 94kg

**MSH-263**

WT. 98kg

**MSH-273**

WT. 136kg



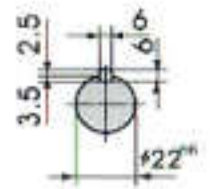
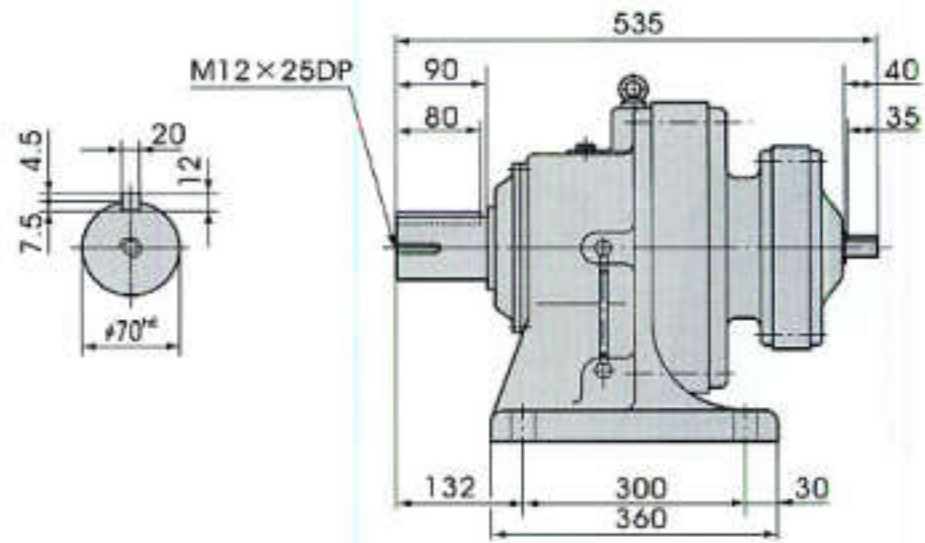
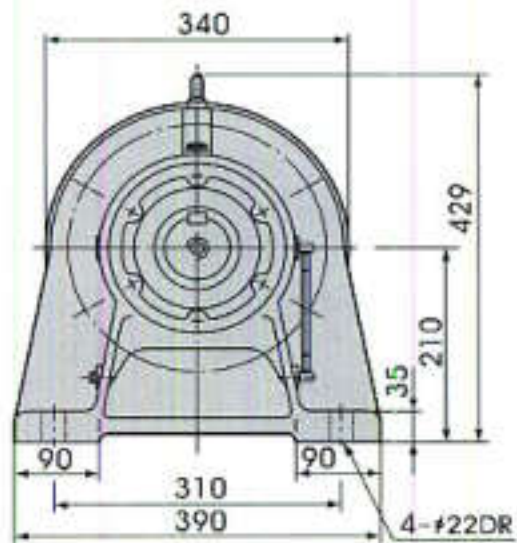
Note) 1. Dimension tolerance : Output shaft h_6
 Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

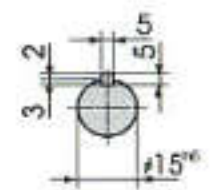
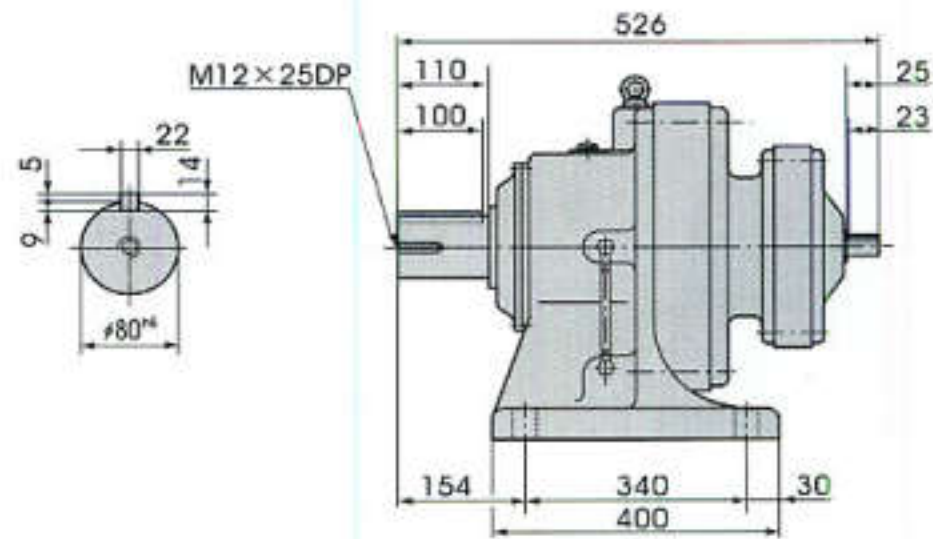
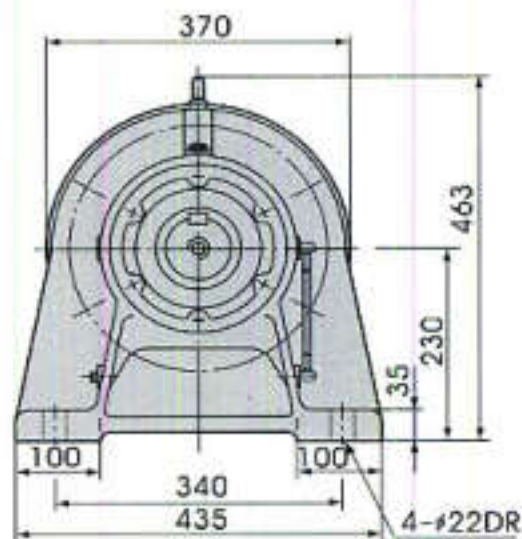
3. Dimensions and specifications are subjected to change without notice.

MSH-274

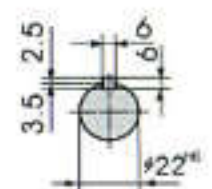
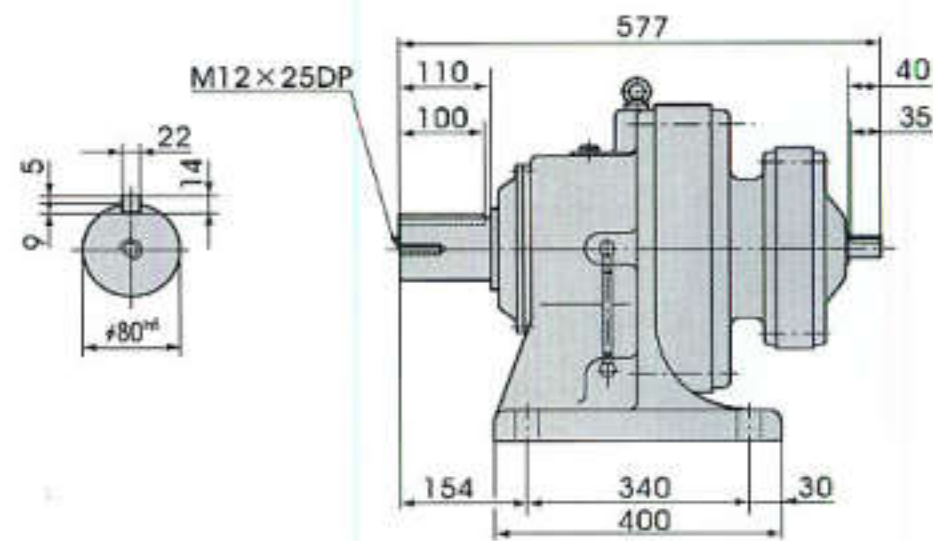
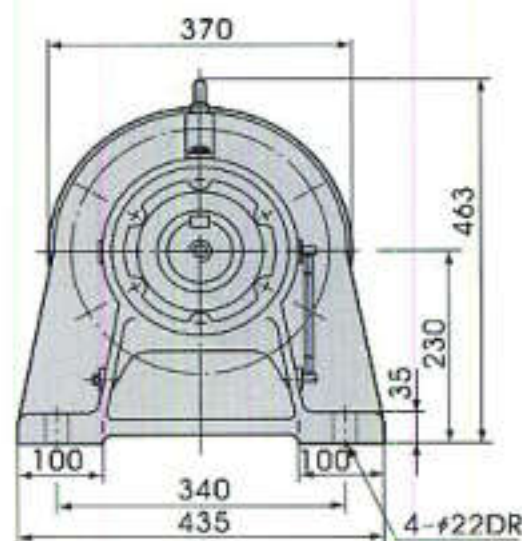
WT. 150kg

**MSH-282**

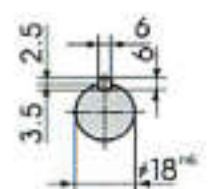
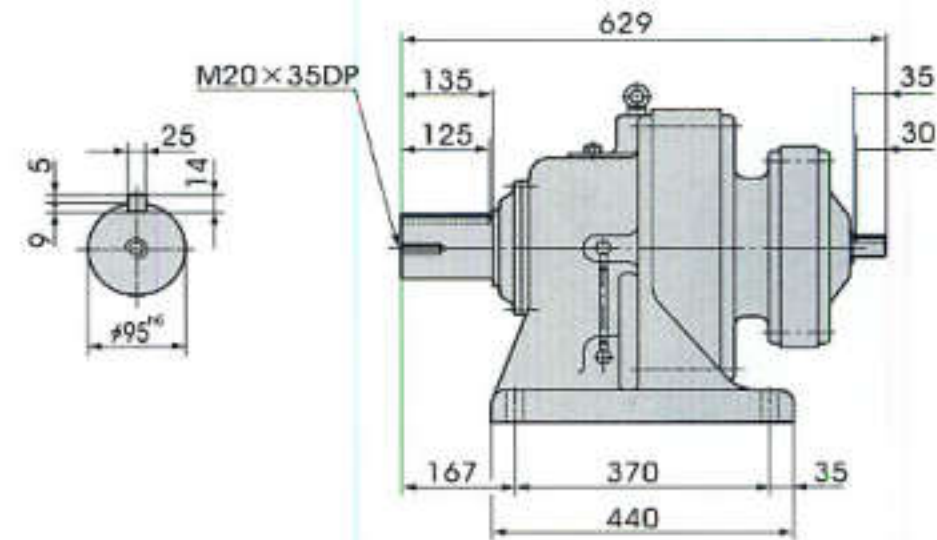
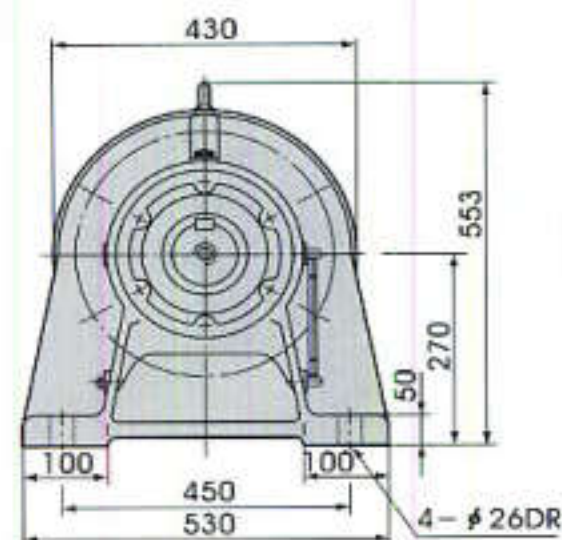
WT. 170kg

**MSH-284**

WT. 193kg

**MSH-293**

WT. 273kg



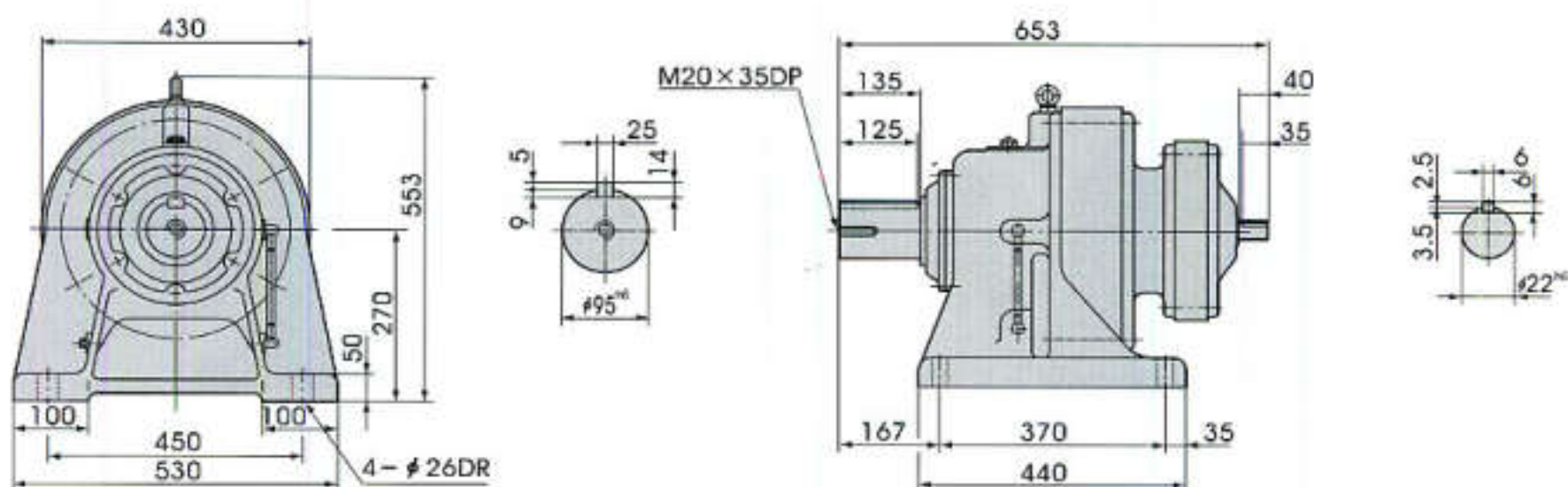
Note) 1. Dimension tolerance : Output shaft h_6
 Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

3. Dimensions and specifications are subjected to change without notice.

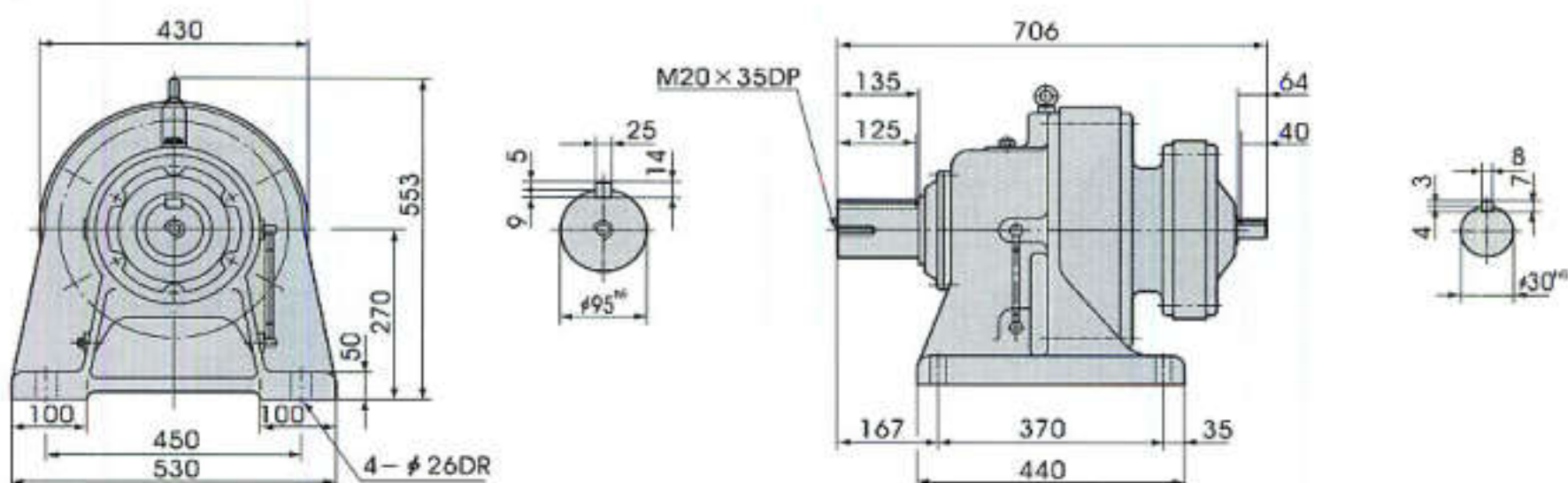
MSH-294

WT. 282kg



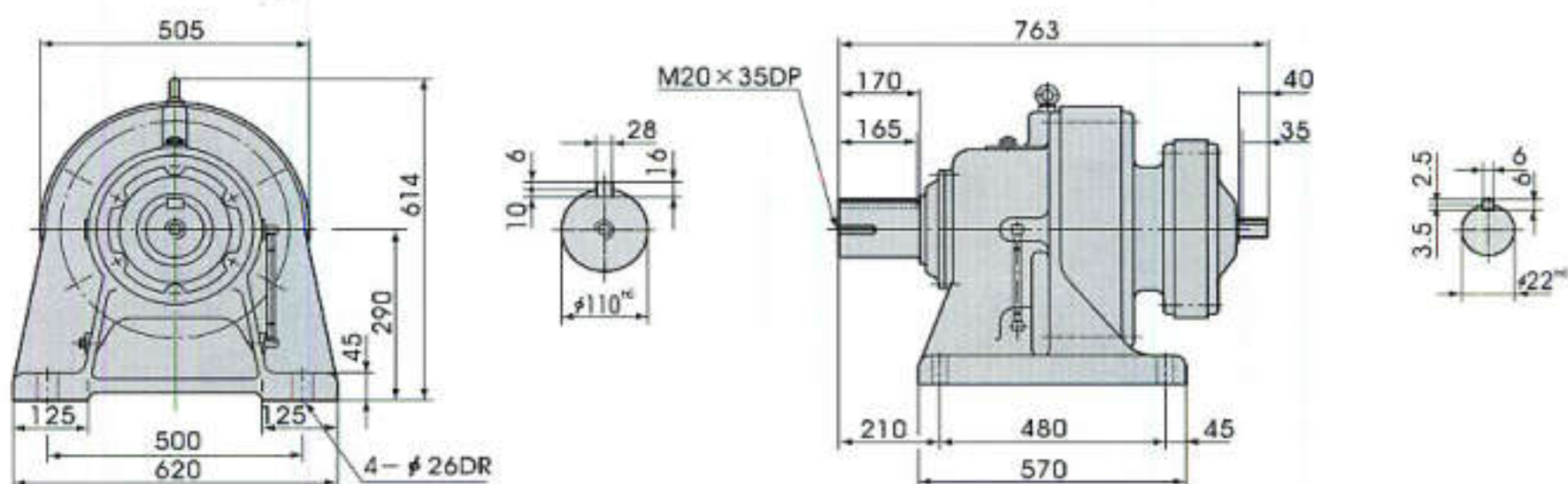
MSH-296

WT. 310kg



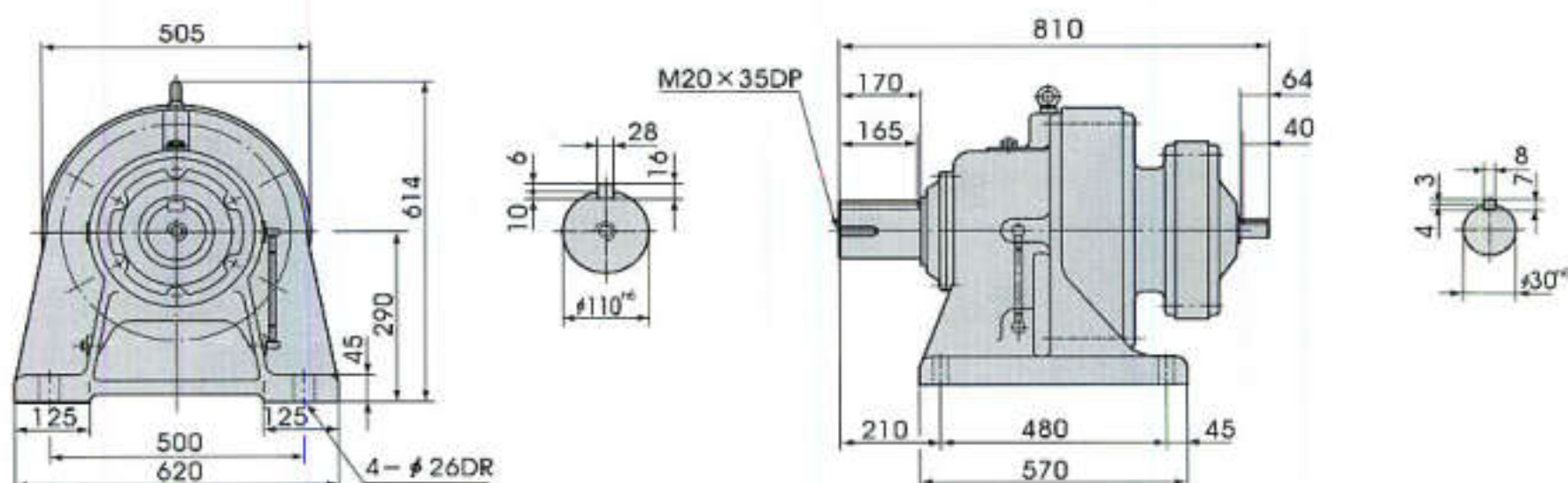
MSH-2104

WT. 413kg



MSH-2106

WT. 428kg



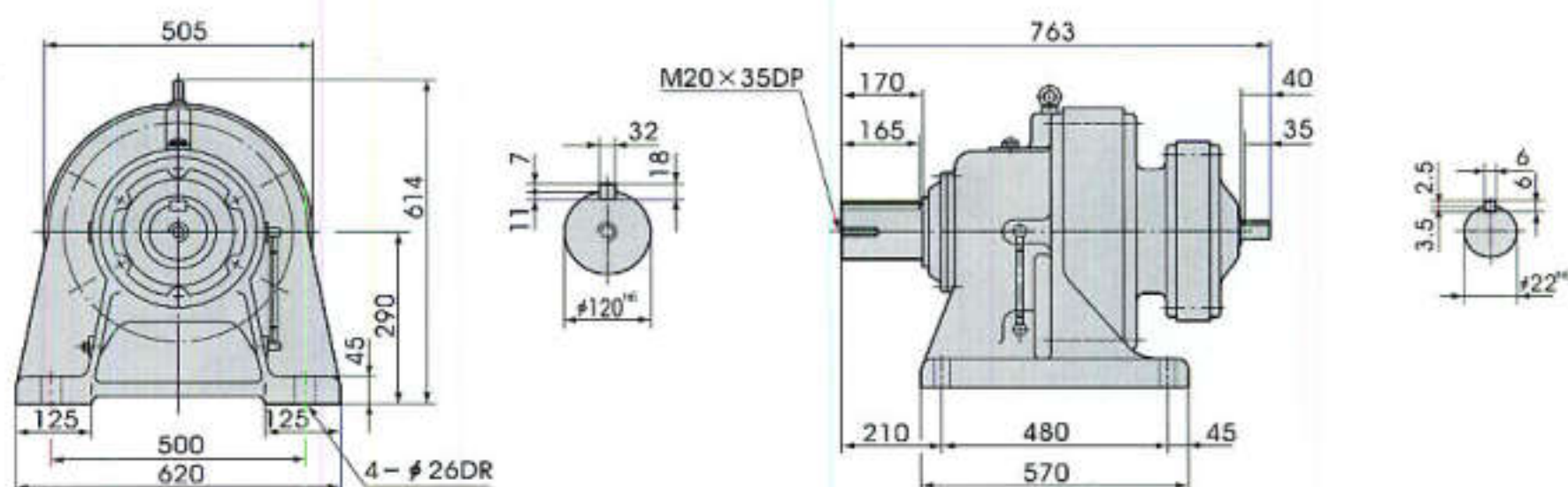
Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

3. Dimensions and specifications are subjected to change without notice.

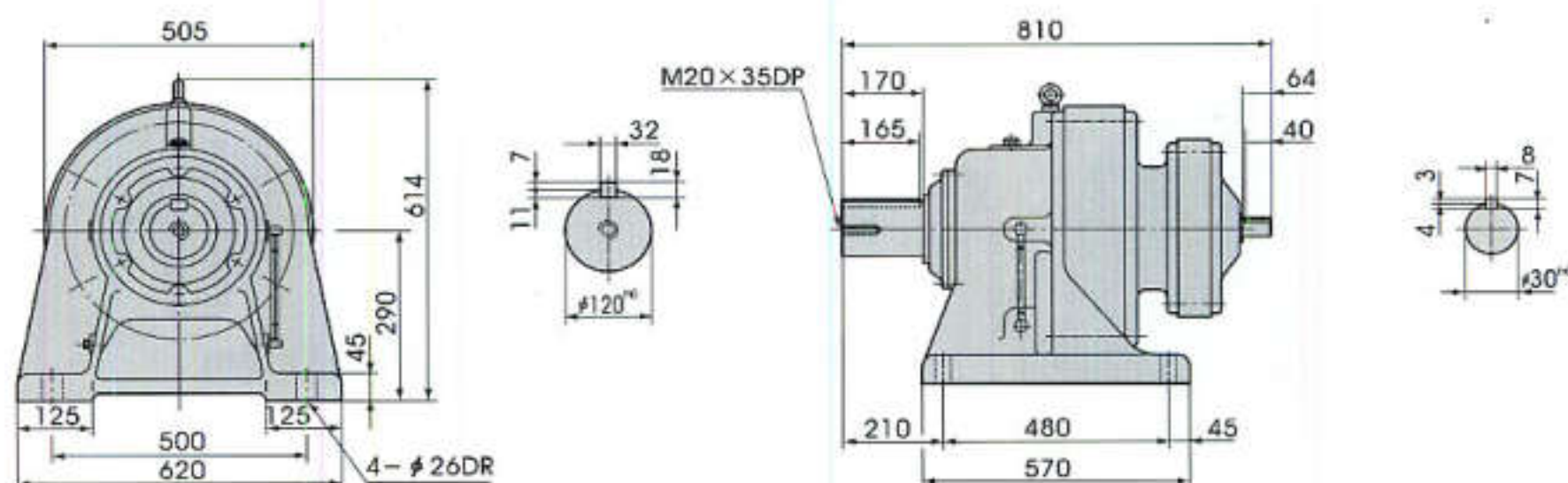
MSH-2224

WT. 421kg



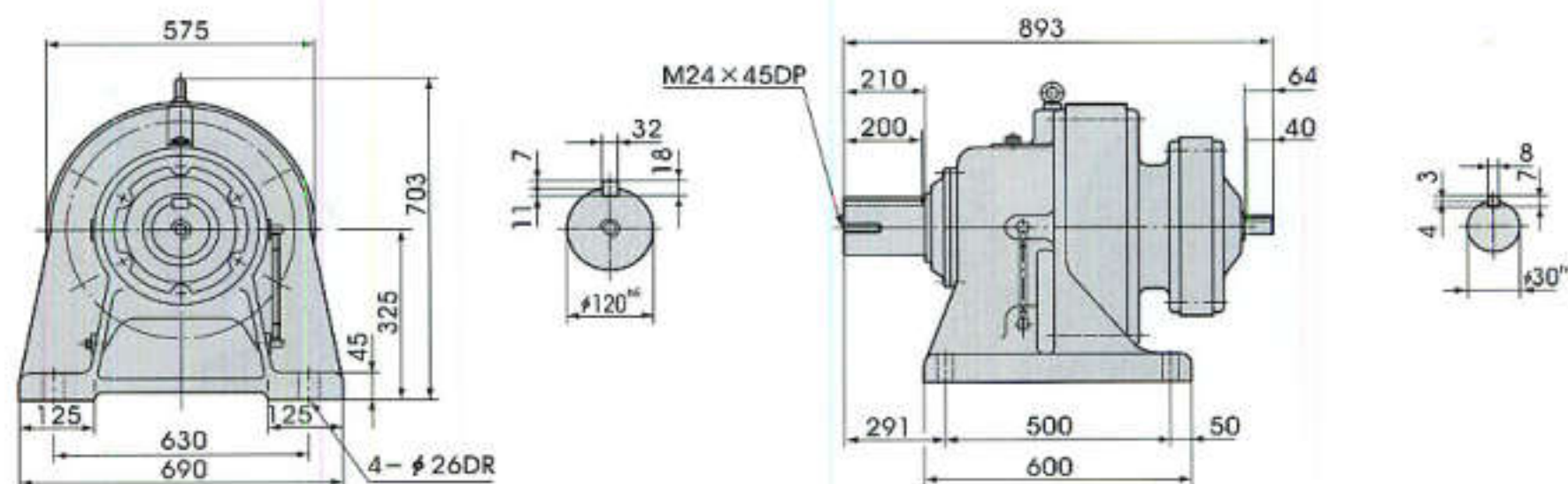
MSH-2226

WT. 436kg



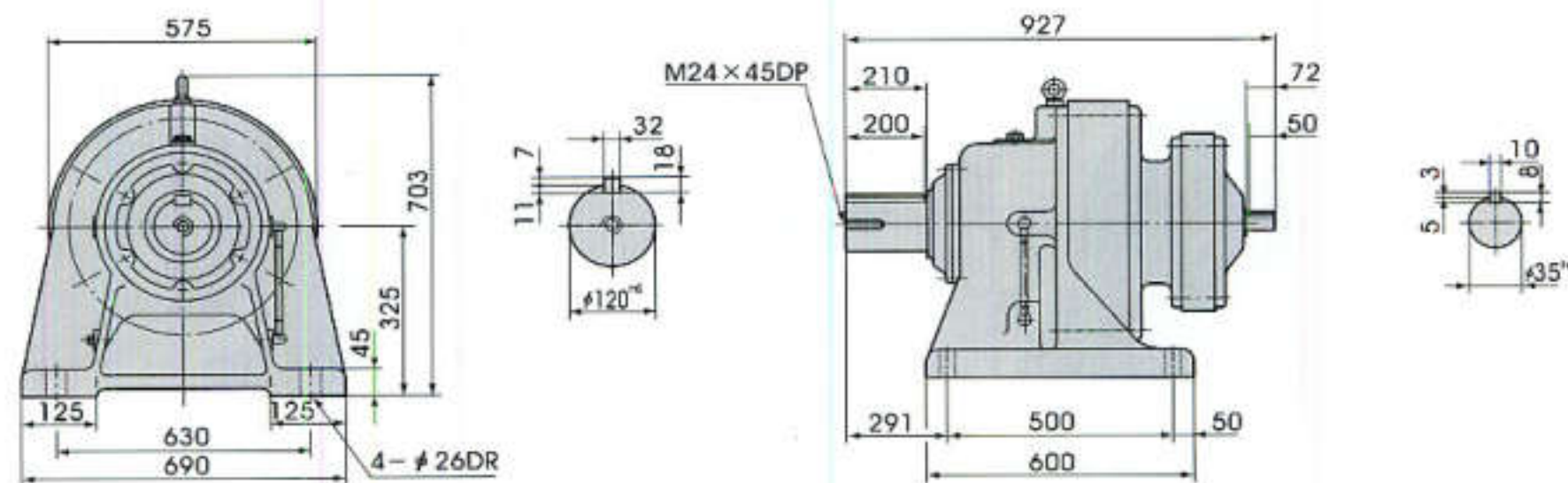
MSH-2116

WT. 546kg



MSH-2117

WT. 573kg



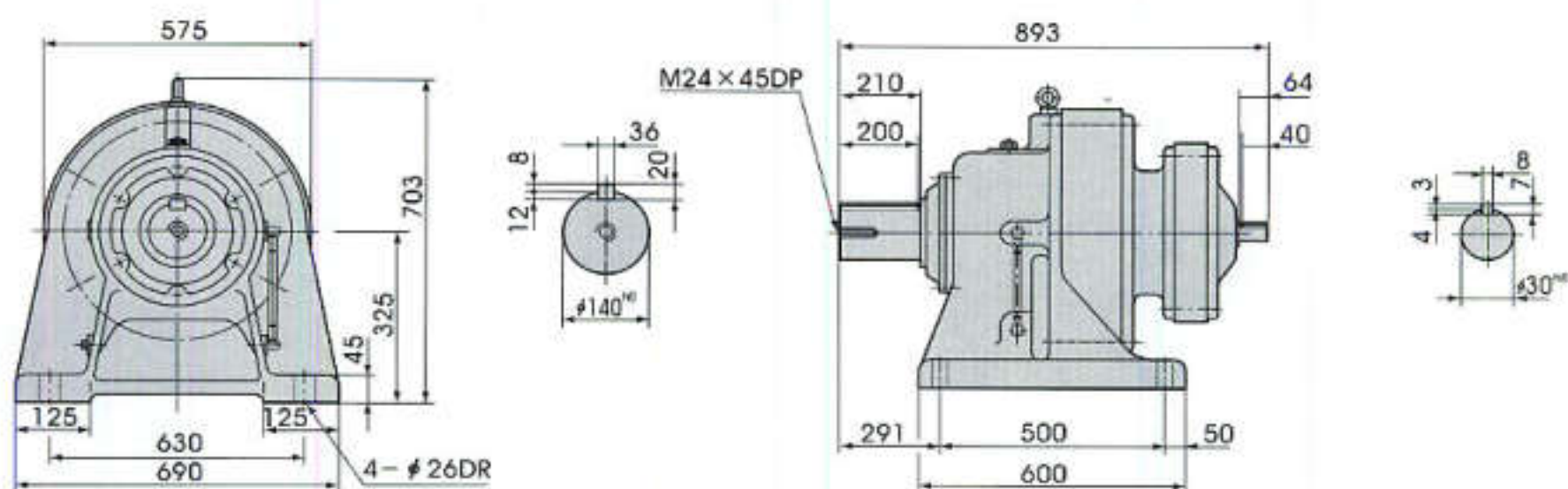
Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

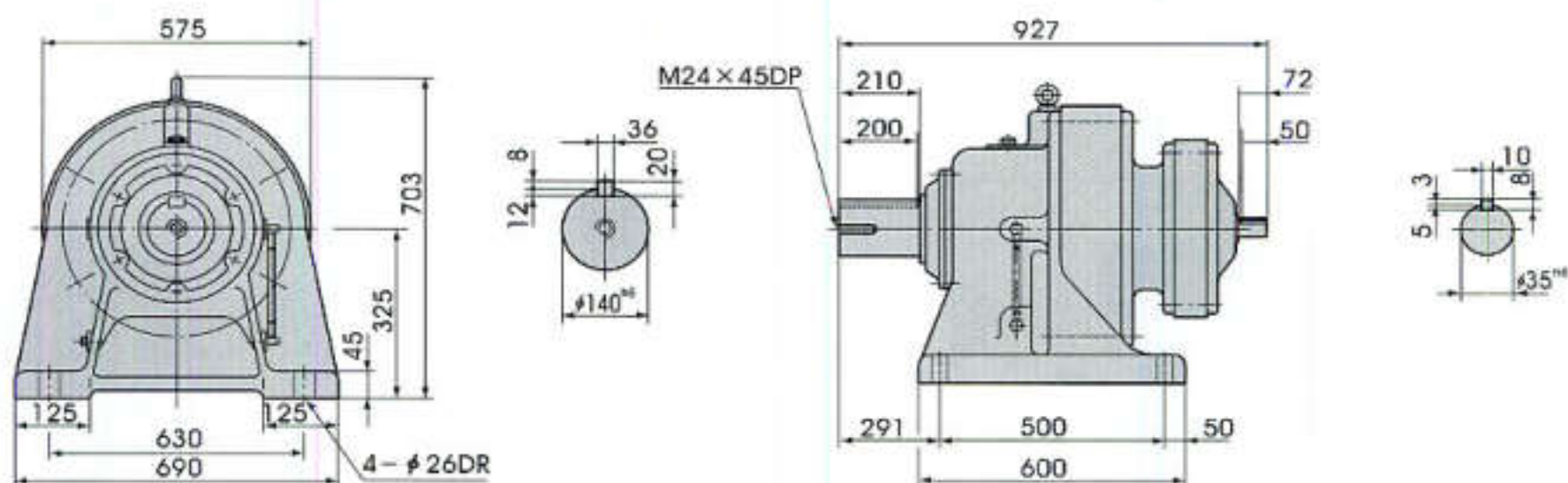
3. Dimensions and specifications are subjected to change without notice.

MSH-2246

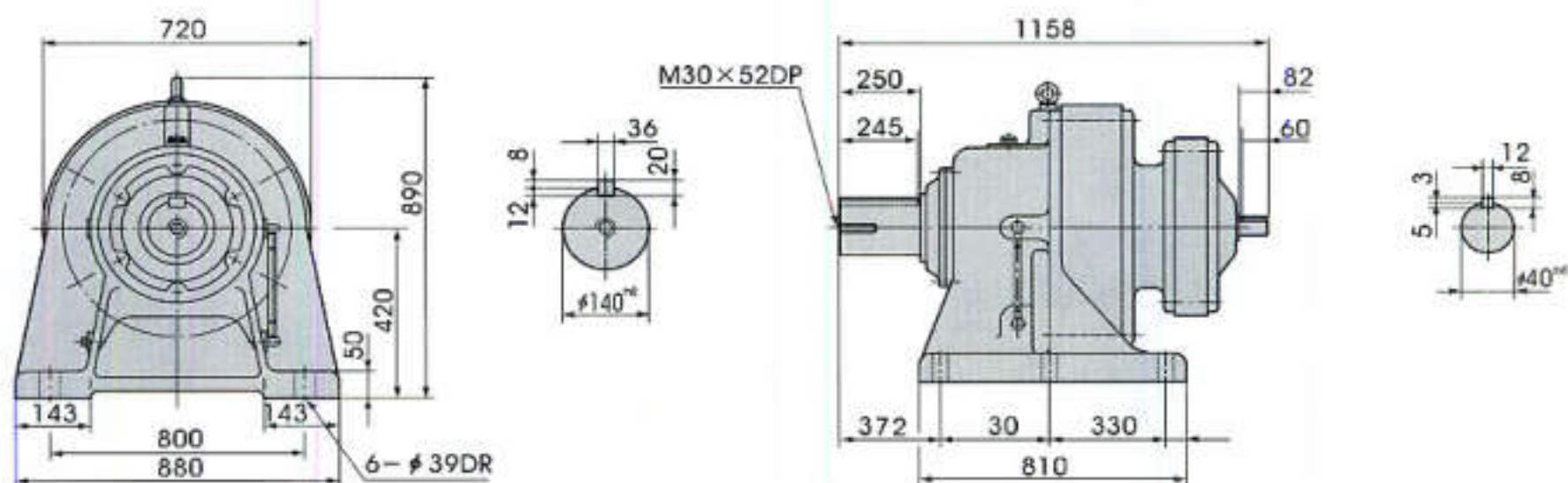
WT. 574kg

**MSH-2247**

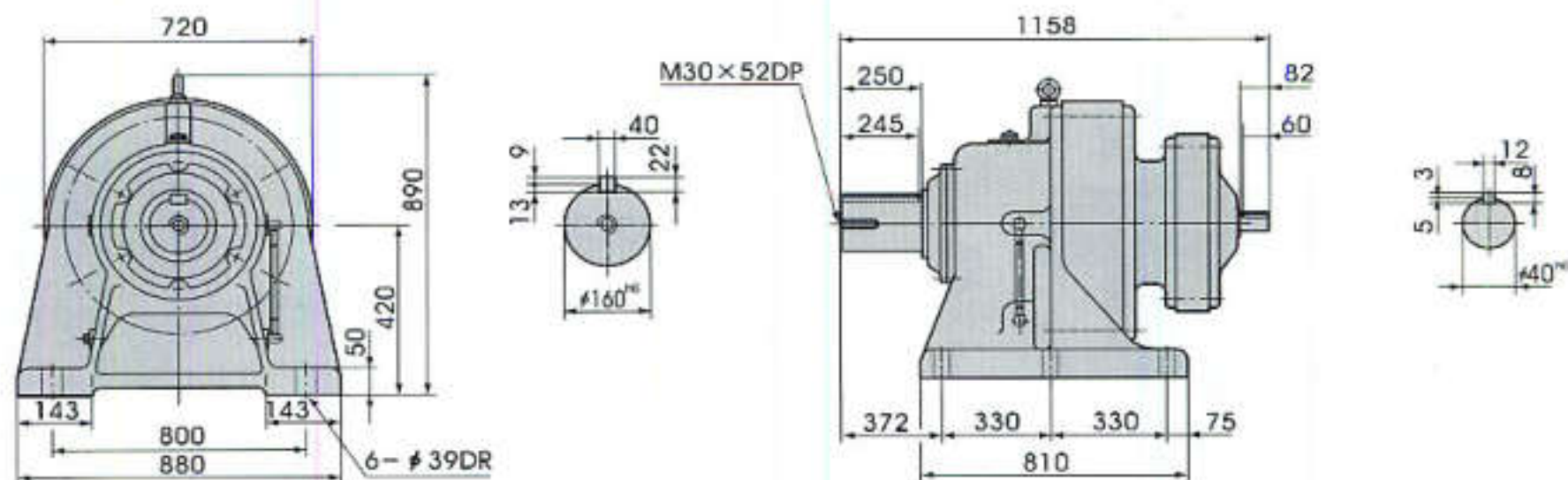
WT. 601kg

**MSH-2128**

WT. 1145kg

**MSH-2258**

WT. 1175kg



Note) 1. Dimension tolerance : Output shaft h_6
 Input shaft F_6 or F_7

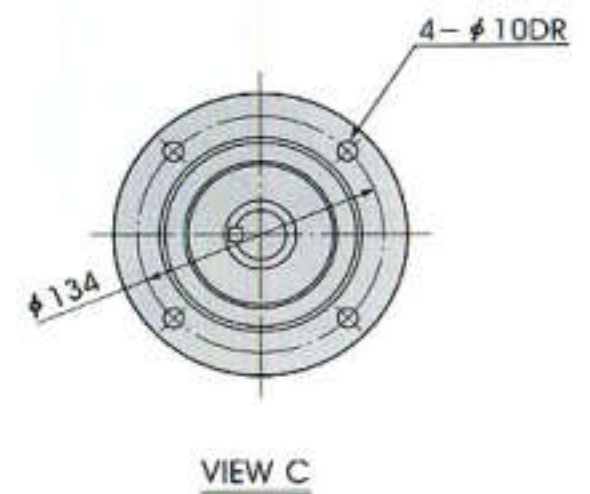
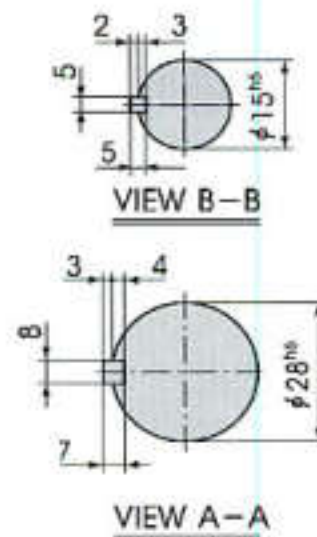
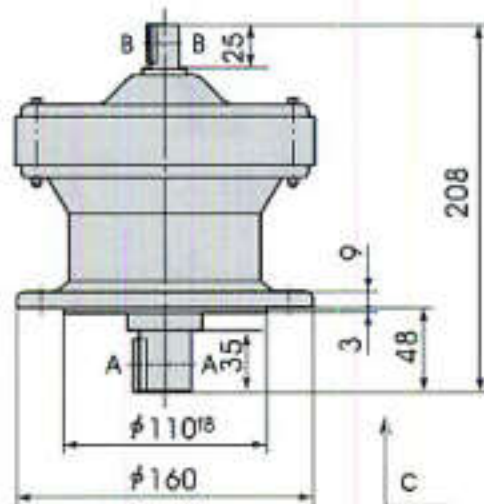
2. Key KS B 1311-84 Parallel Key

3. Dimensions and specifications are subjected to change without notice.

4-3) DIMENSIONS : MSV Single Reduction Type

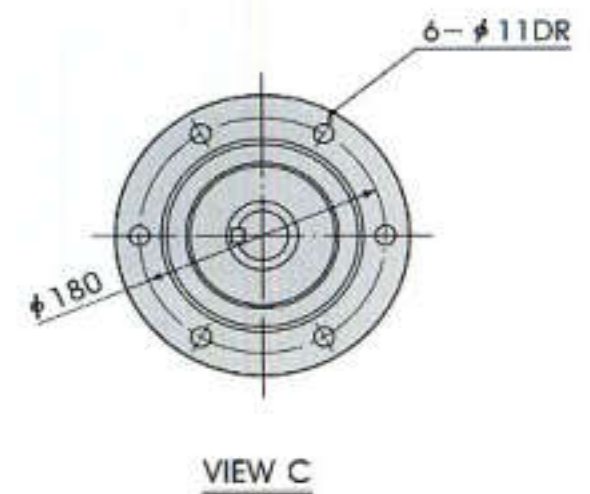
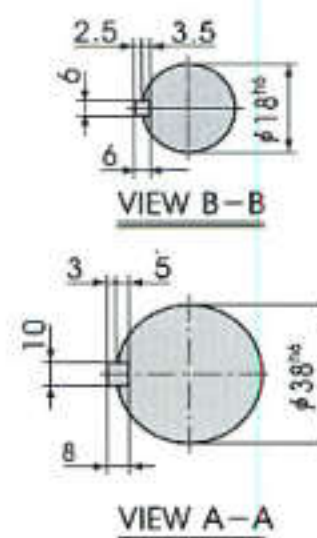
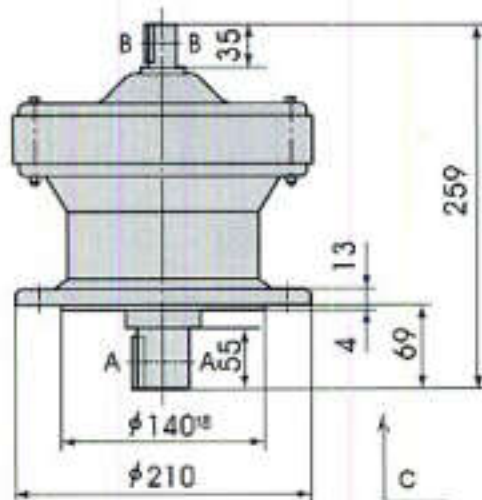
MSV-102

WT, 13kg



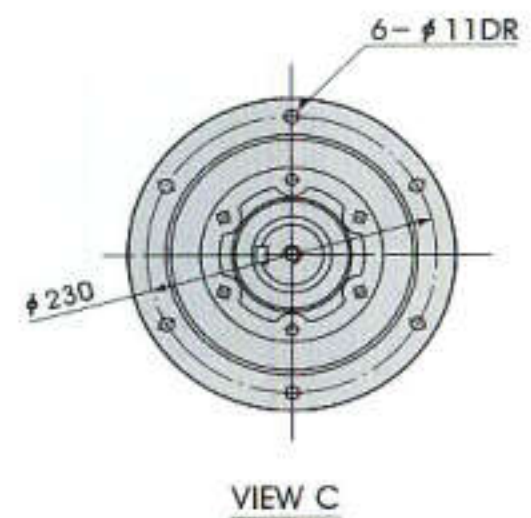
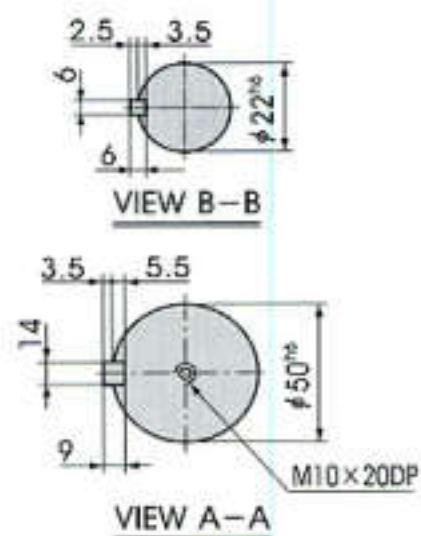
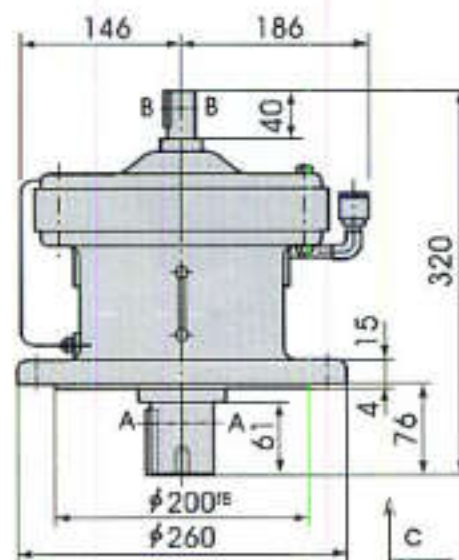
MSV-103

WT, 20kg



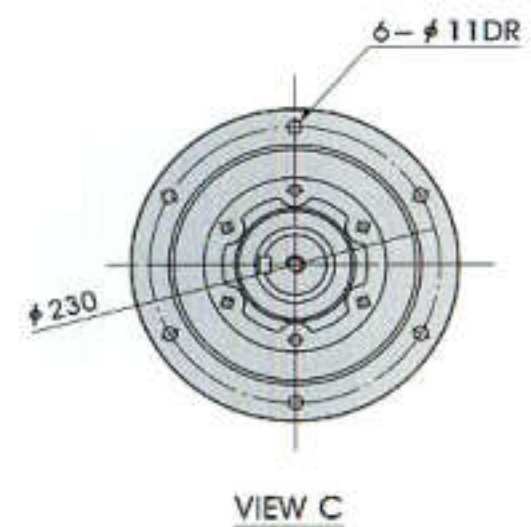
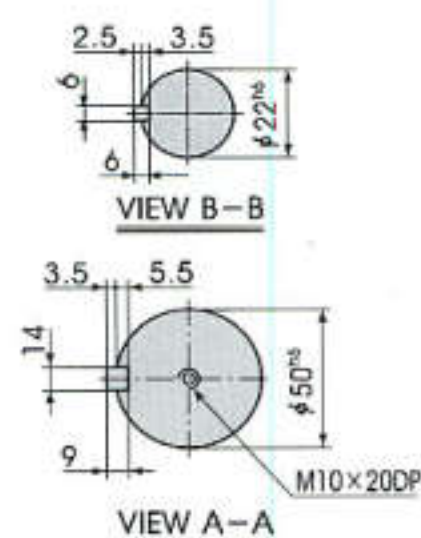
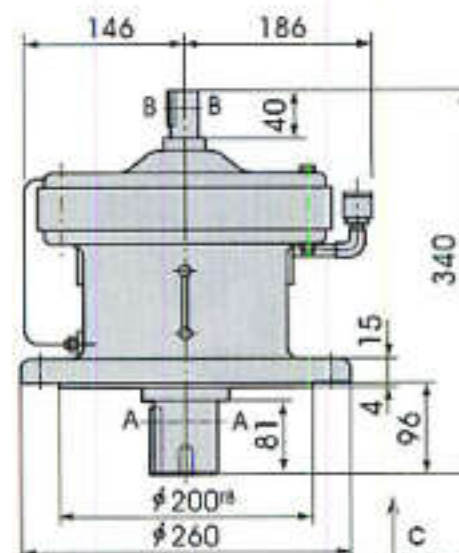
MSV-104

WT, 39kg



MSV-105

WT, 40kg



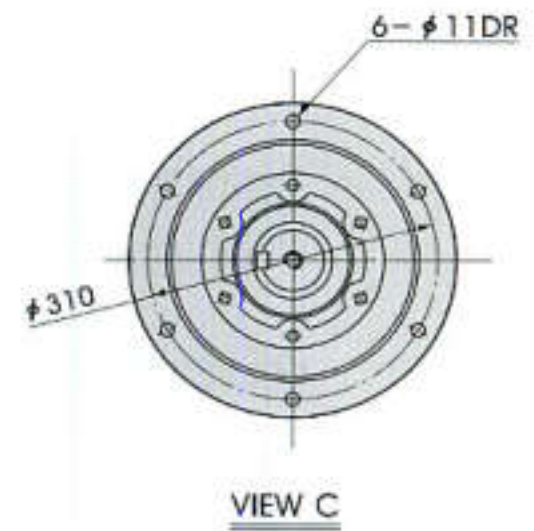
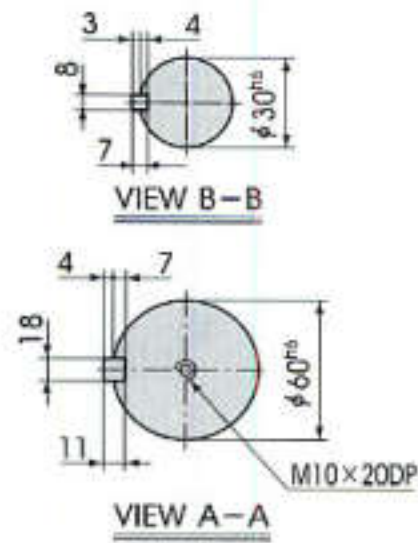
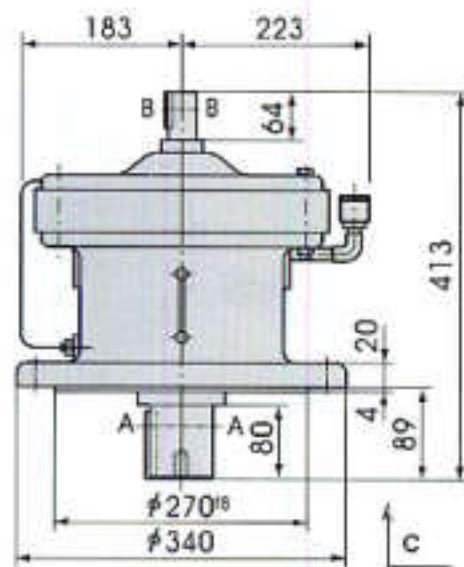
Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

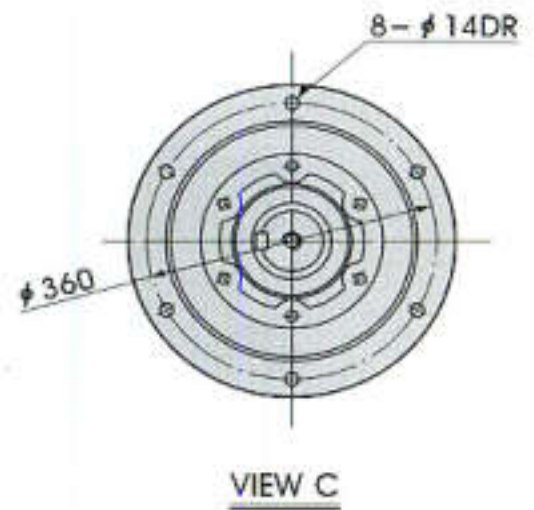
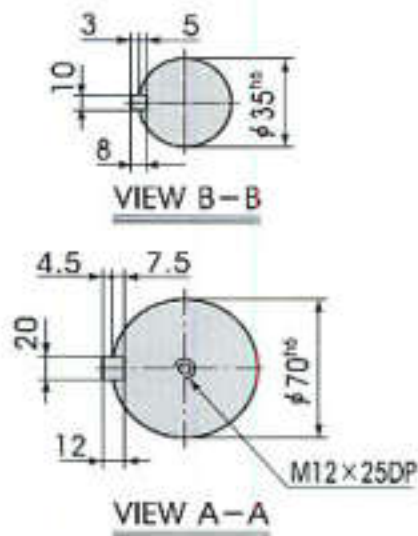
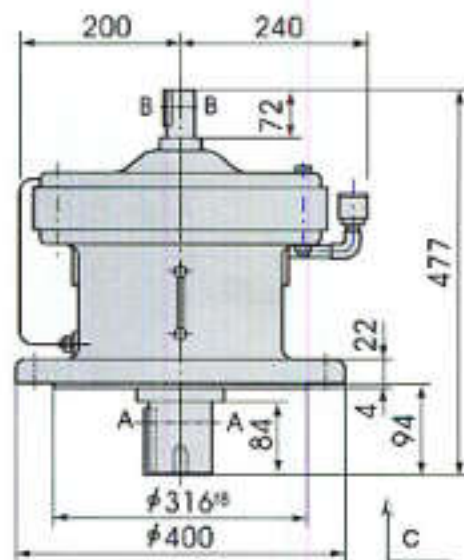
3. Dimensions and specifications are subjected to change without notice.

MSV-106

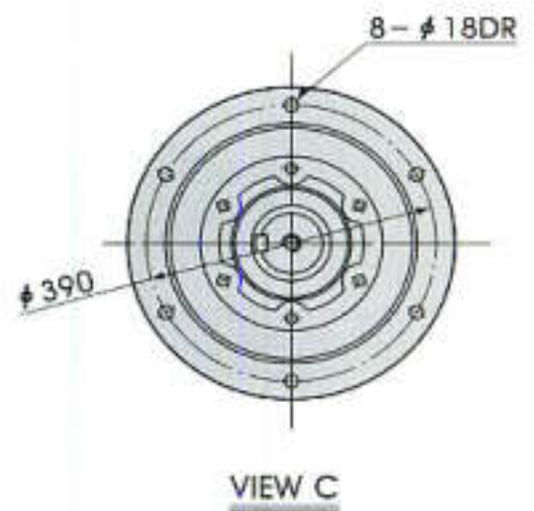
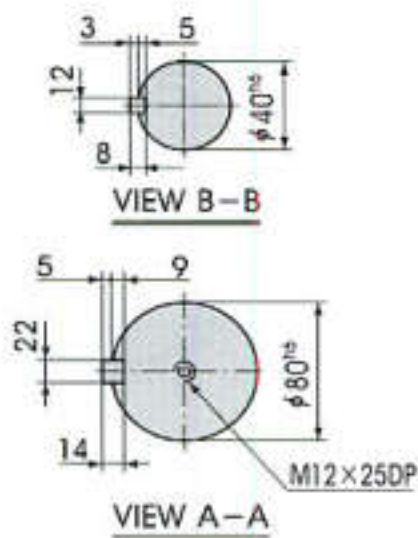
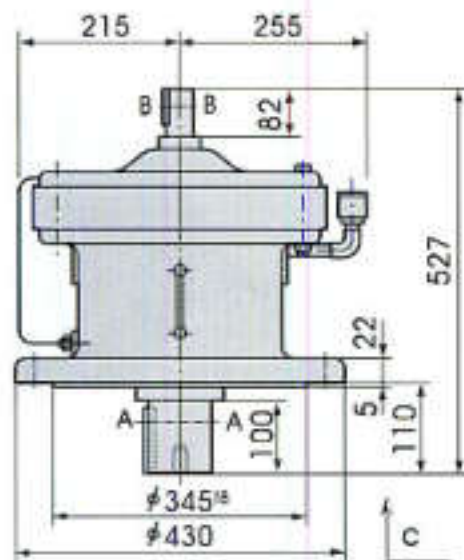
WT. 83kg

**MSV-107**

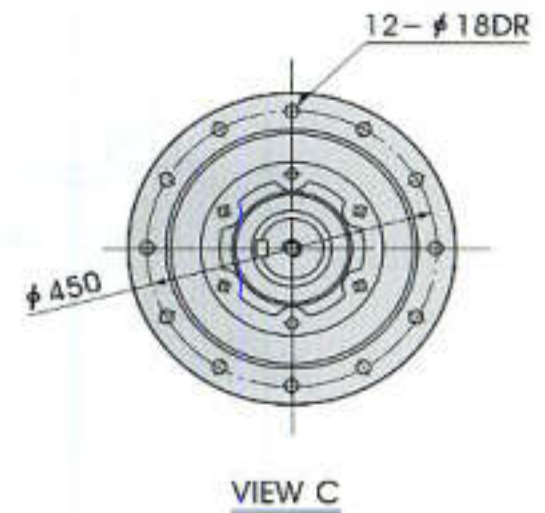
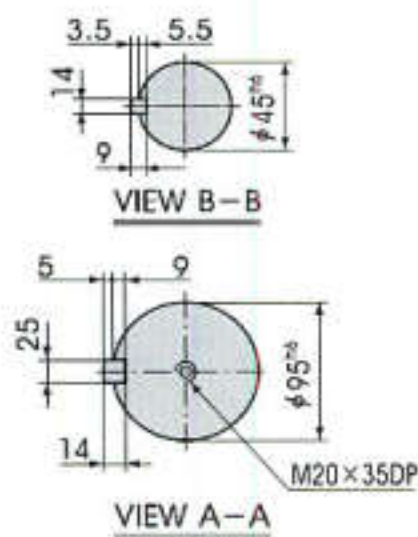
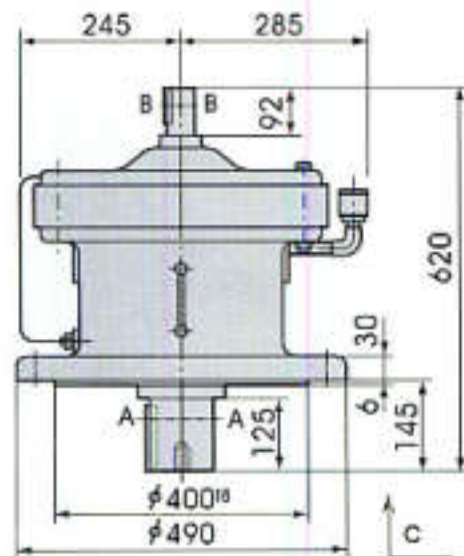
WT. 110kg

**MSV-108**

WT. 130kg

**MSV-109**

WT. 205kg



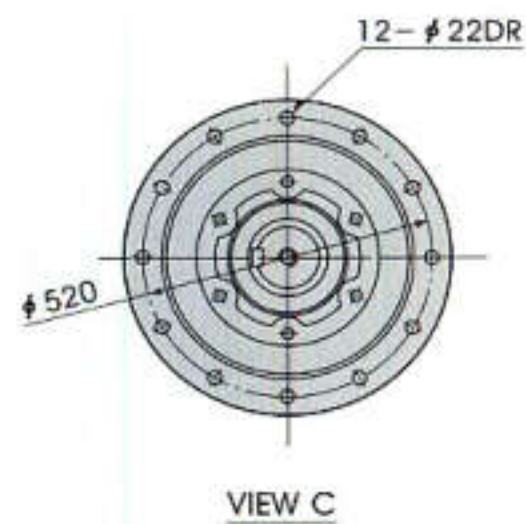
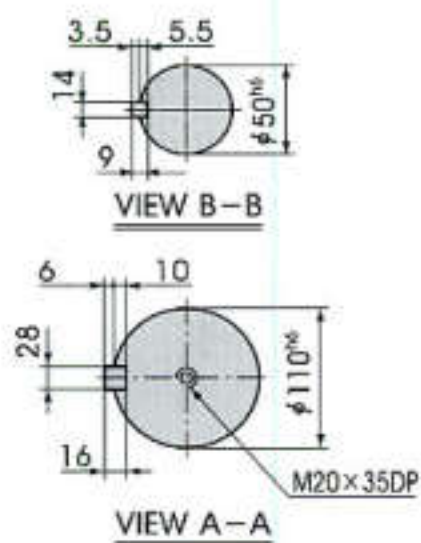
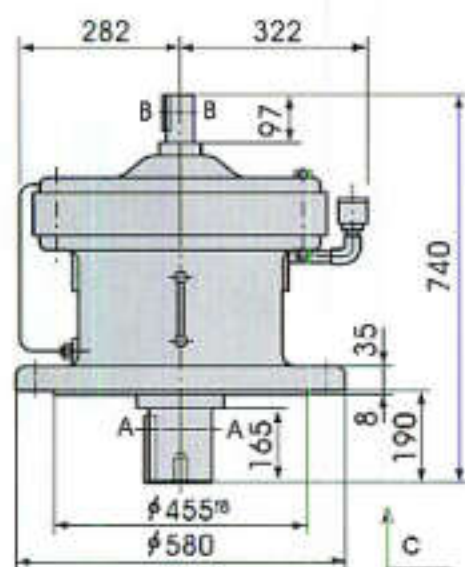
Note) 1. Dimension tolerance : Output shaft h_6
 Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

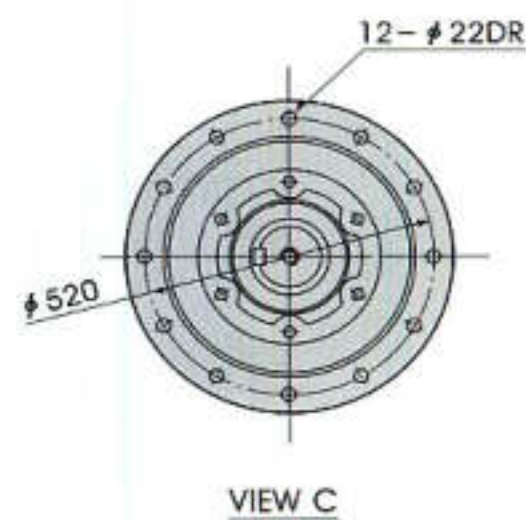
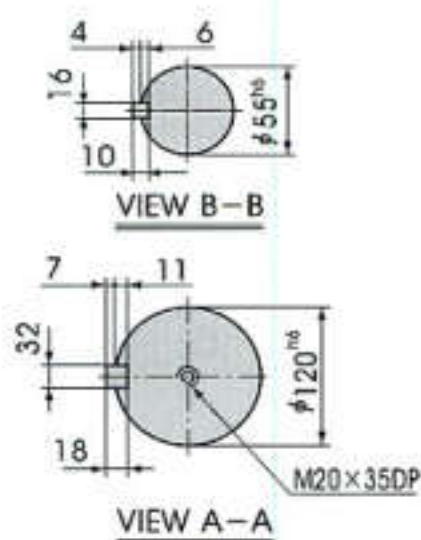
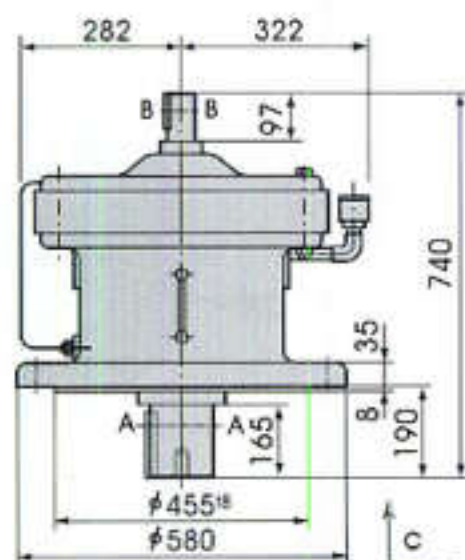
3. Dimensions and specifications are subjected to change without notice.

MSV-110

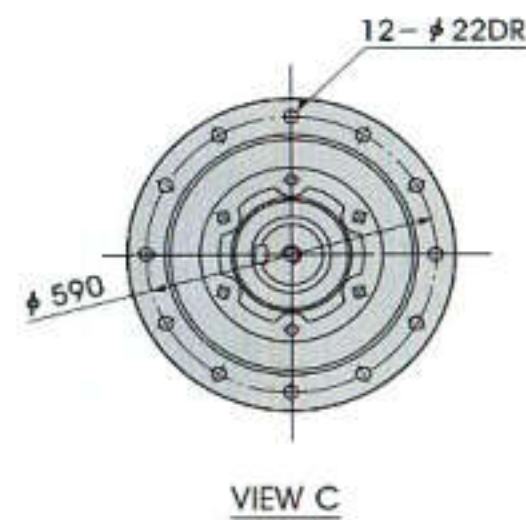
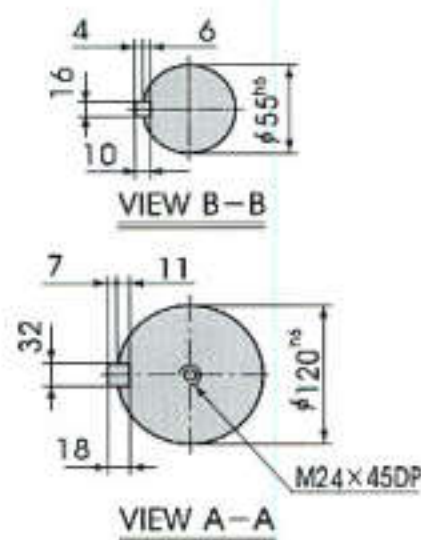
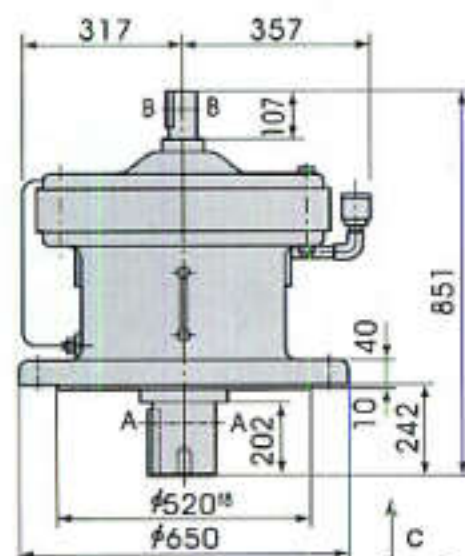
WT. 345kg

**MSV-122**

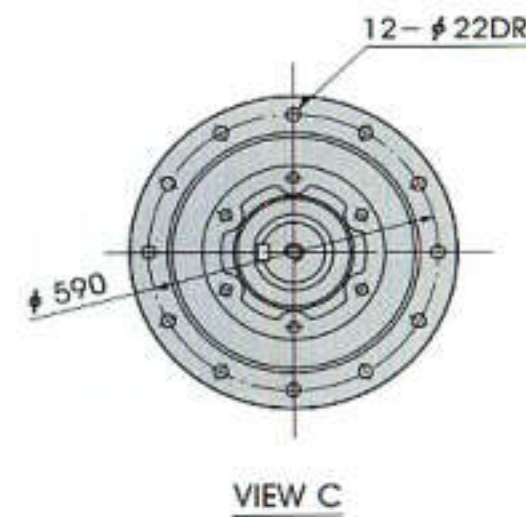
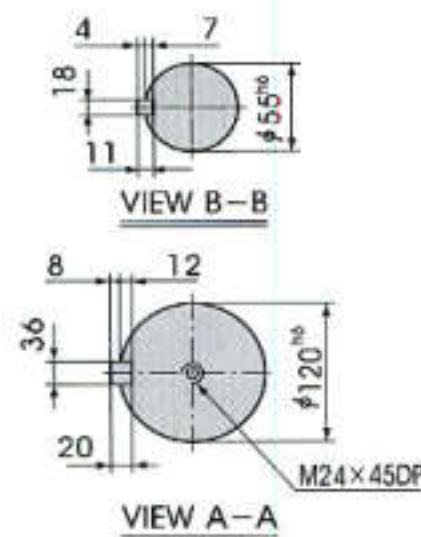
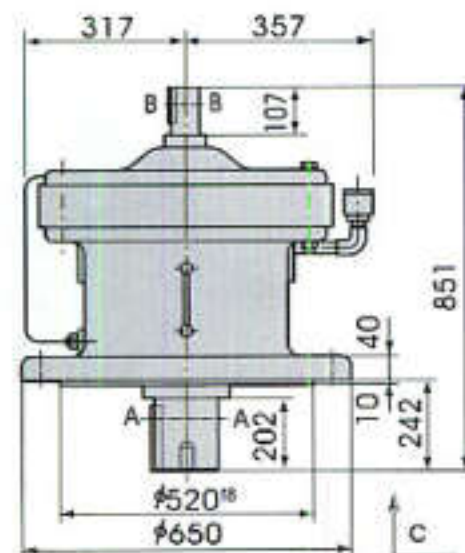
WT. 365kg

**MSV-111**

WT. 505kg

**MSV-124**

WT. 550kg



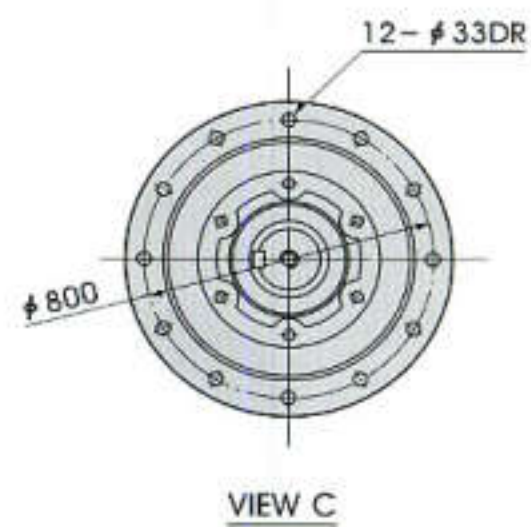
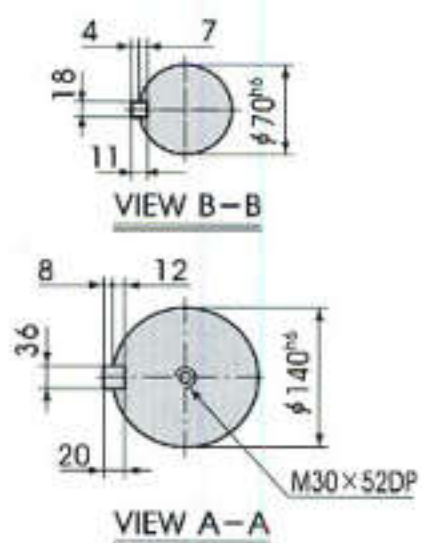
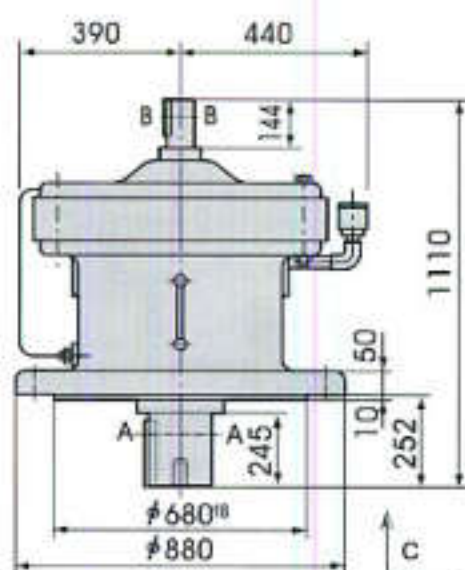
Note) 1. Dimension tolerance : Output shaft h_6
 Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

3. Dimensions and specifications are subjected to change without notice.

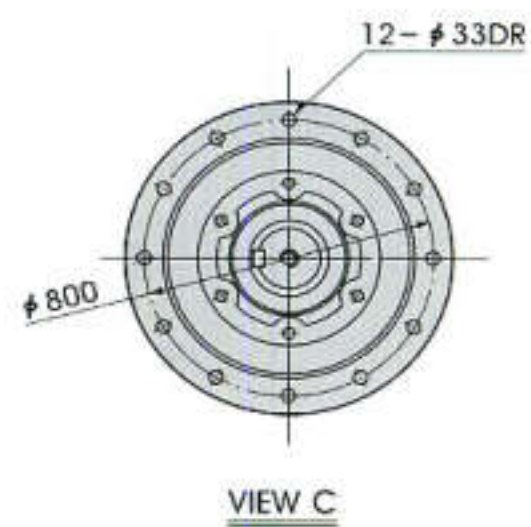
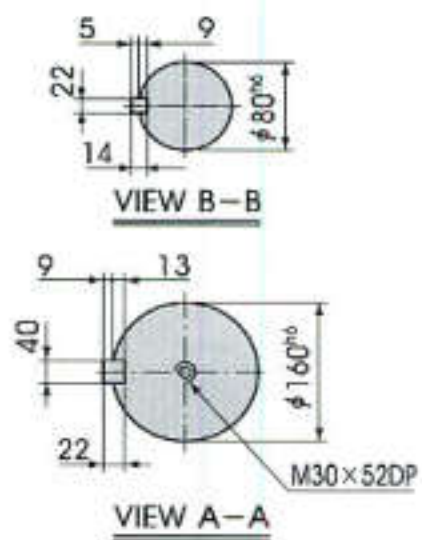
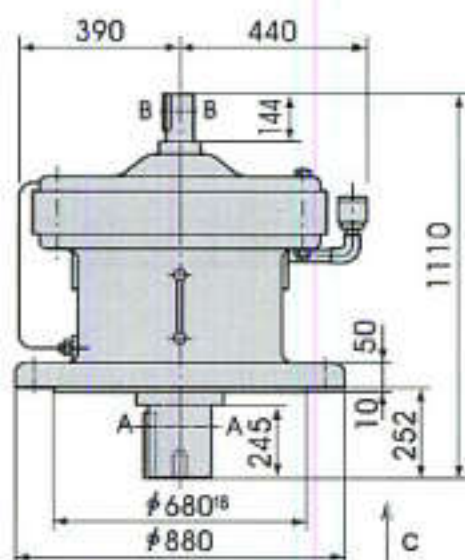
MSV-112

WT. 1020kg



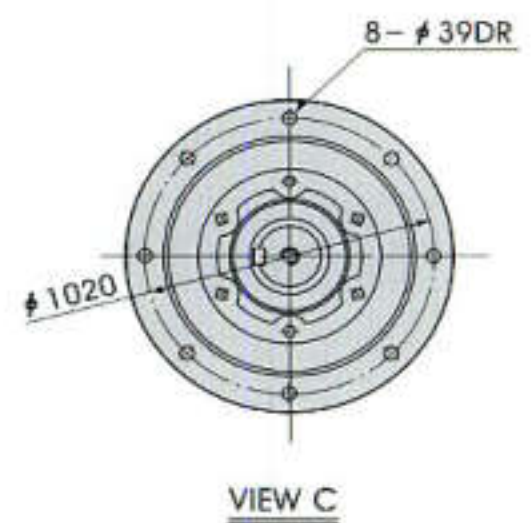
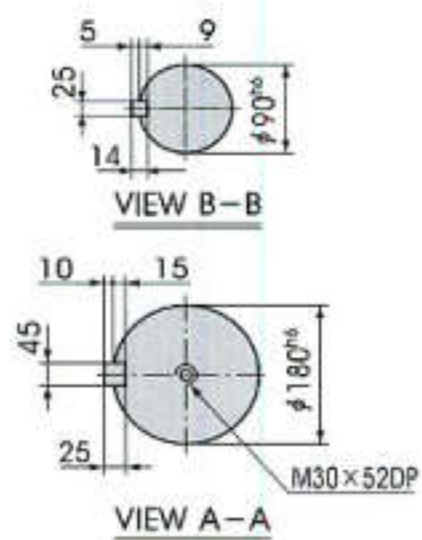
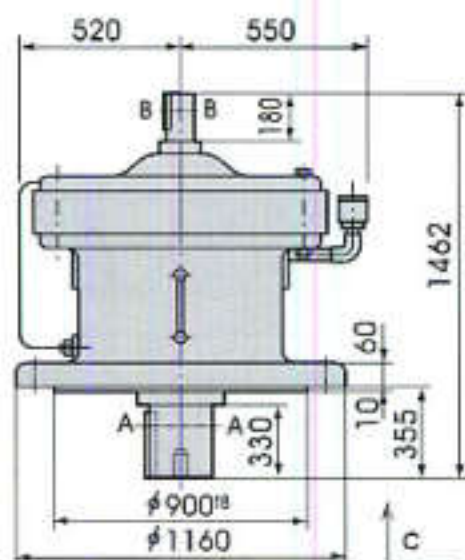
MSV-125

WT. 1050kg



MSV-113

WT. 2350kg



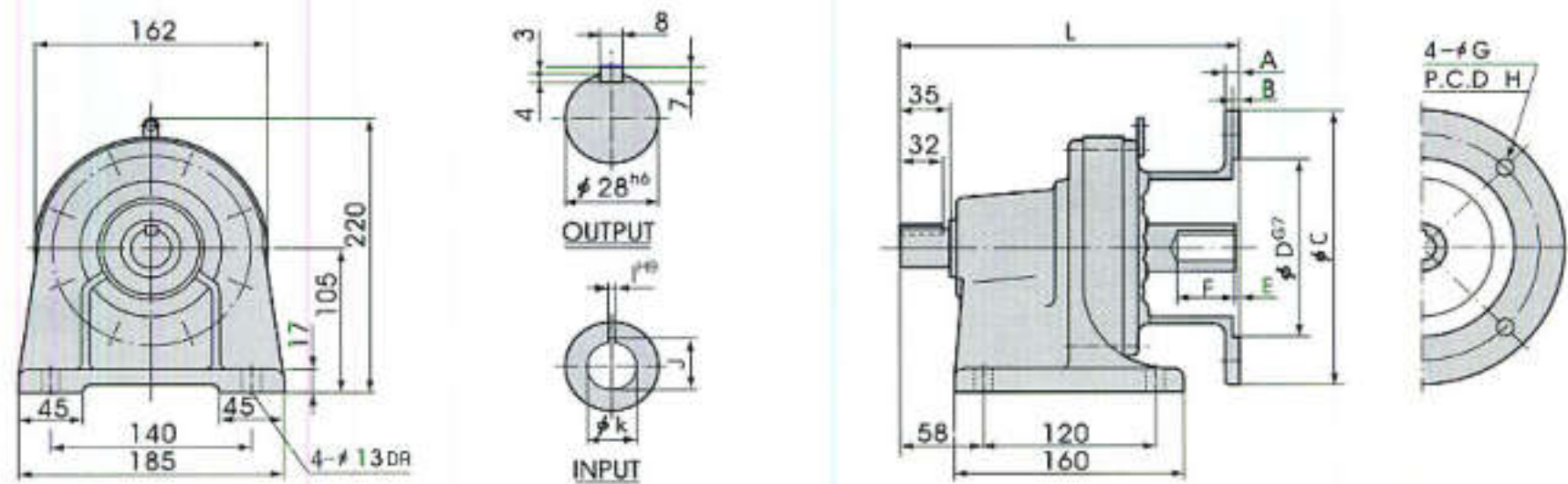
Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

3. Dimensions and specifications are subjected to change without notice.

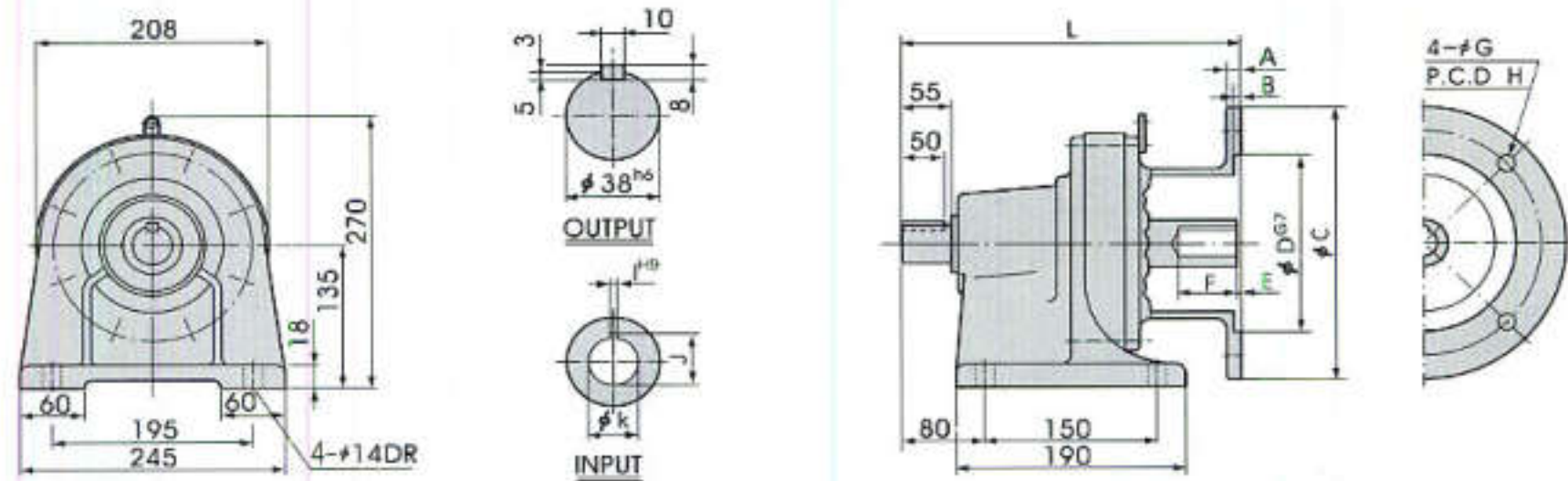
4-4) DIMENSIONS : MJH Single Reduction Type

MJH-102



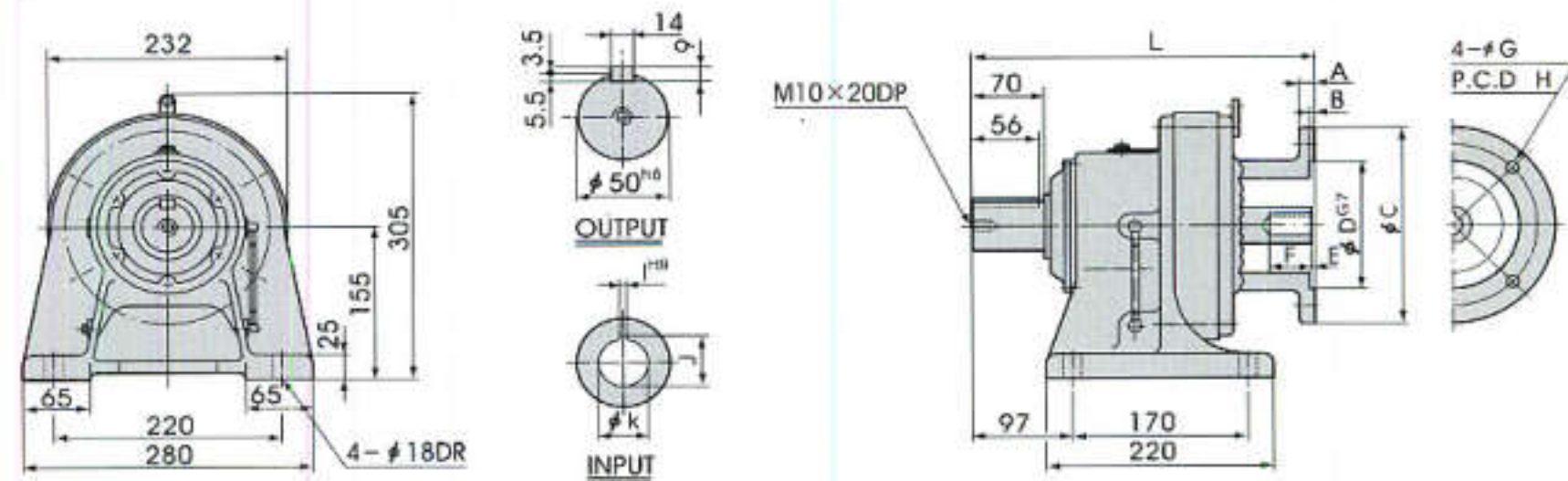
MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.2	71	MJH02-102-	10	5	160	110	3	41	10	130	5	16.3	14F6	237	20
0.4	71	MJH05-102-	10	5	160	110	3	41	10	130	5	16.3	14F6	237	20
0.75	80	MJH 1-102-	10	5	200	130	3	41	12	165	6	21.8	19F6	237	21

MJH-103



MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.4	71	MJH05-103-	10	5	160	110	3	41	10	130	5	16.3	14F6	273	30
0.75	80	MJH 1-103-	10	5	200	130	3	41	12	165	6	21.8	19F6	273	31
1.5	90L	MJH 2-103-	12	5	200	130	3	52	12	165	8	27.3	24F6	284	31
2.2	100L	MJH 3-103-	15	6	250	180	3	62	15	215	8	31.3	28F6	294	32

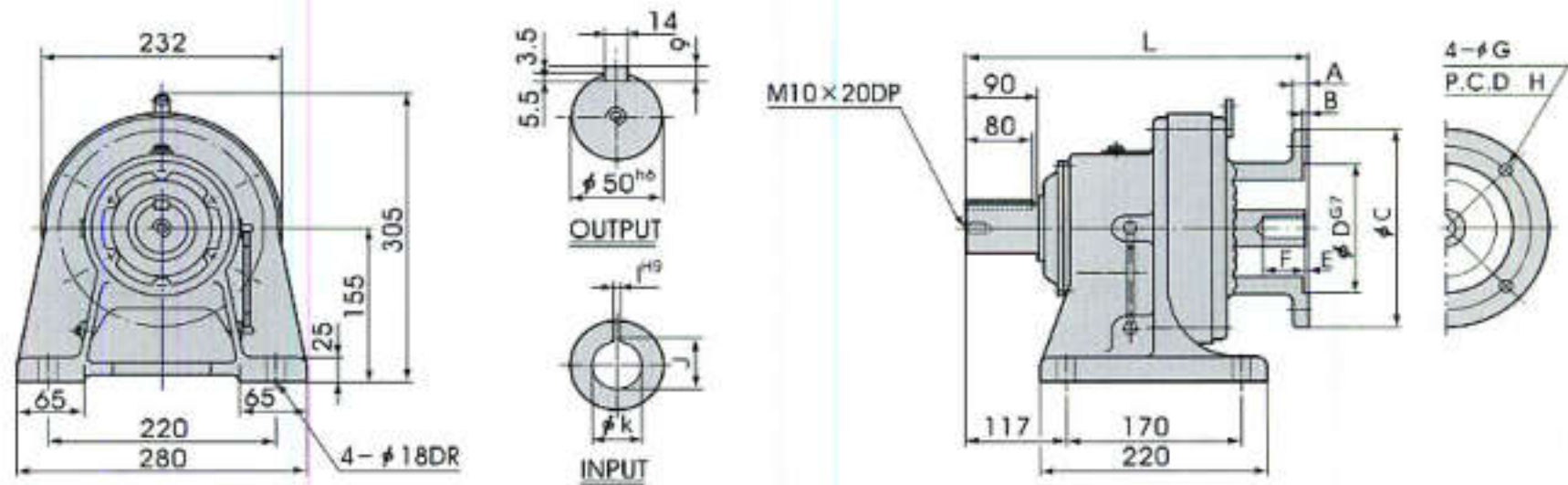
MJH-104



MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.75	80	MJH 1-104-	15	5	200	130	3	41	12	165	6	21.8	19F6	332	49
1.5	90L	MJH 2-104-	15	5	200	130	3	52	12	165	8	27.3	24F6	343	49
2.2	100L	MJH 3-104-	18	6	250	180	3	62	15	215	8	31.3	28F6	353	51
3.7	112M	MJH 5-104-	18	6	250	180	3	62	15	215	8	31.3	28F6	353	51

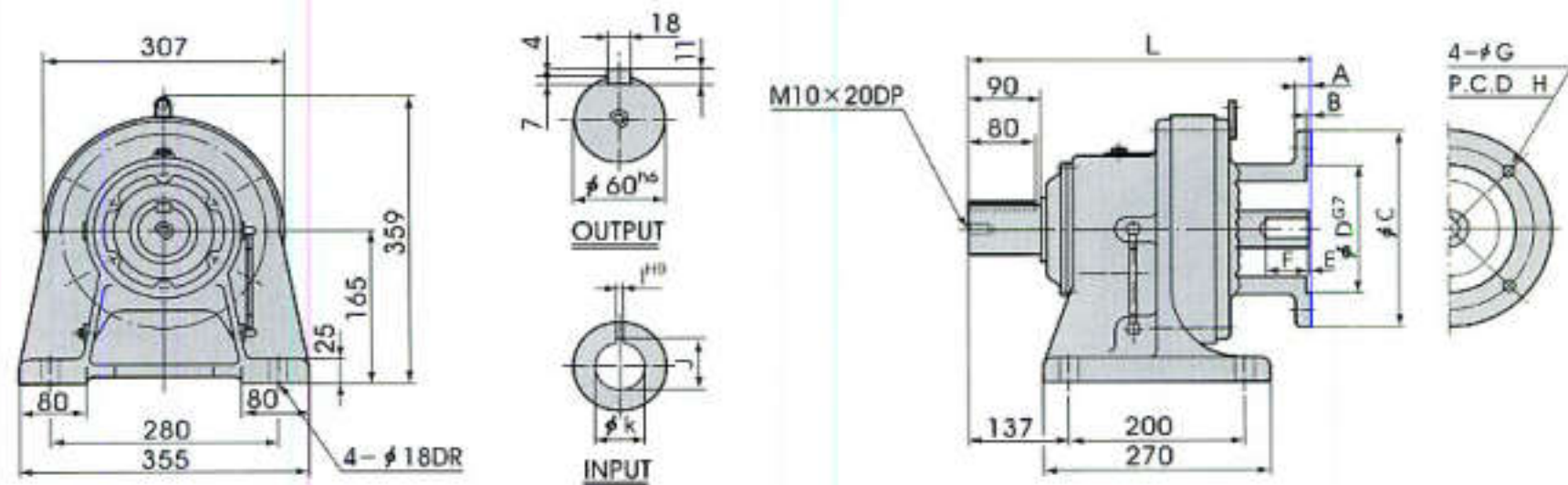
- Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_8 or F_7
2. Key KS B 1311-84 Parallel Key
3. Dimensions and specifications are subjected to change without notice.

MJH-105



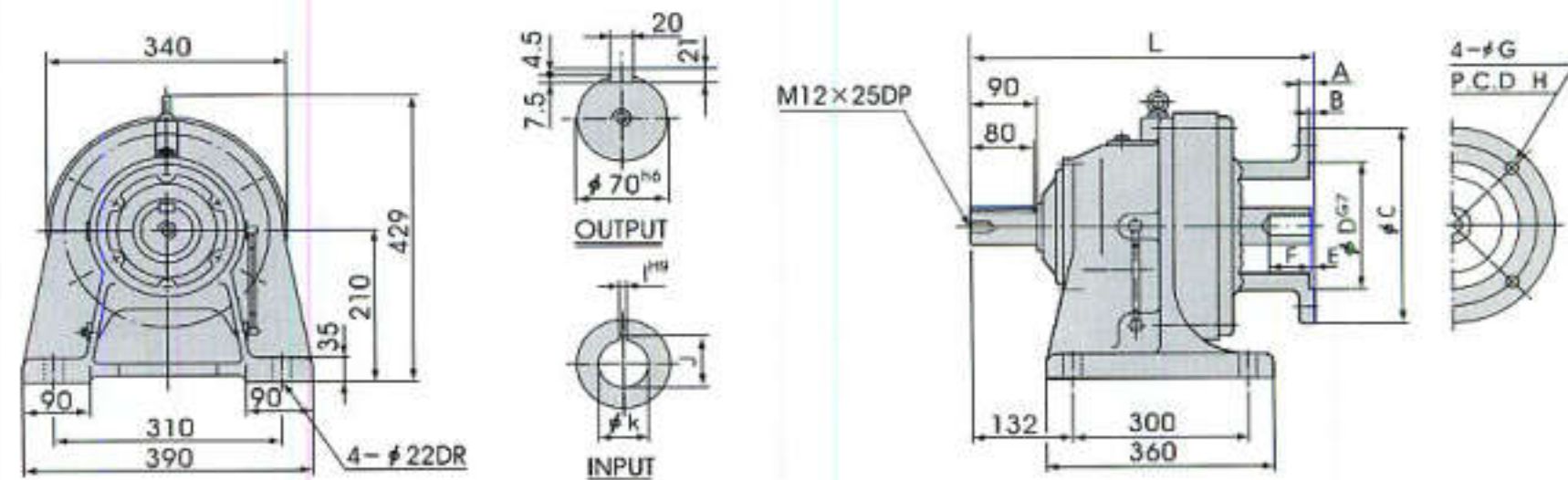
MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
1.5	90L	MJH 2-105-	15	5	200	130	3	52	12	165	8	27.3	24F6	363	51
2.2	100L	MJH 3-105-	18	6	250	180	3	62	15	215	8	31.3	28F6	373	53
3.7	112M	MJH 5-105-	18	6	250	180	3	62	15	215	8	31.3	28F6	373	53

MJH-106



MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
2.2	100L	MJH 3-106-	18	6	250	180	3	62	15	215	8	31.3	28F6	420	85
3.7	112M	MJH 5-106-	18	6	250	180	3	62	15	215	8	31.3	28F6	420	86
5.5	132S	MJH 8-106-	18	6	300	230	4	78	15	265	10	41.3	38F7	437	93
7.5	132M	MJH10-106-	18	6	300	230	4	78	15	265	10	41.3	38F7	437	95

MJH-107



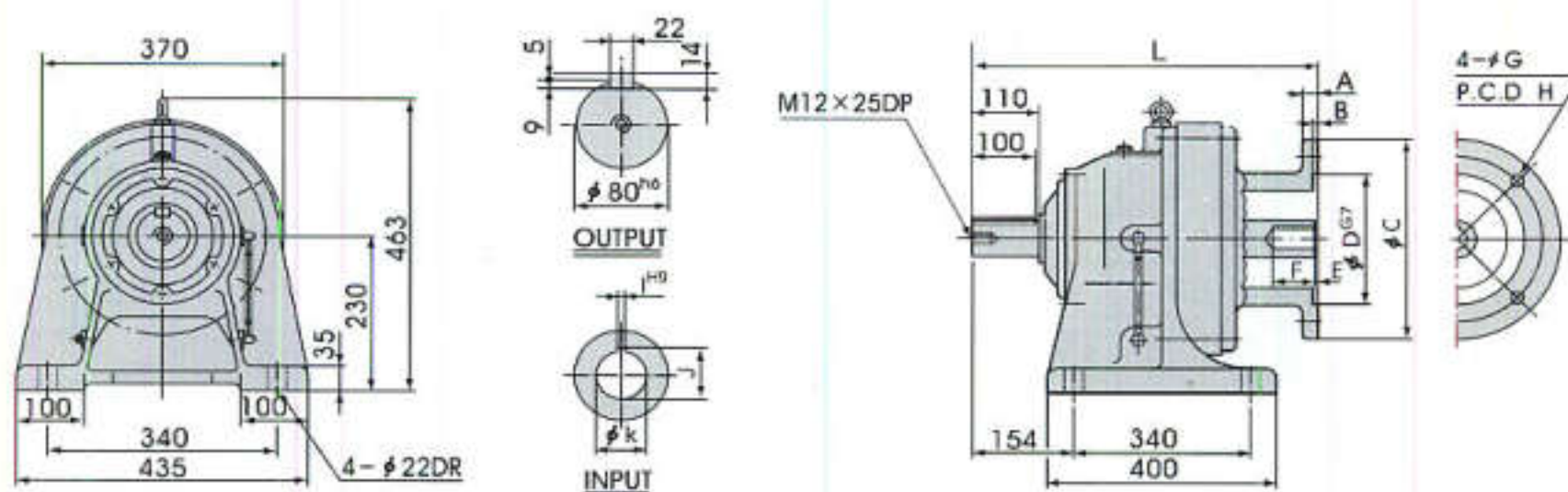
MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
3.7	112M	MJH 5-107-	18	6	250	180	3	62	15	215	8	31.3	28F6	469	122
5.5	132S	MJH 8-107-	22	6	300	230	4	78	15	265	10	41.3	38F7	499	128
7.5	132M	MJH10-107-	22	6	300	230	4	78	15	265	10	41.3	38F7	499	128
11	160M	MJH15-107-	22	6	350	250	15	98	19	300	12	45.3	42F7	530	140
15	160L	MJH20-107-	22	6	350	250	15	98	19	300	12	45.3	42F7	530	140

Note) 1. Dimension tolerance : Output shaft h_8
Input shaft F_8 or F_7

2. Key KS B 1311-84 Parallel Key

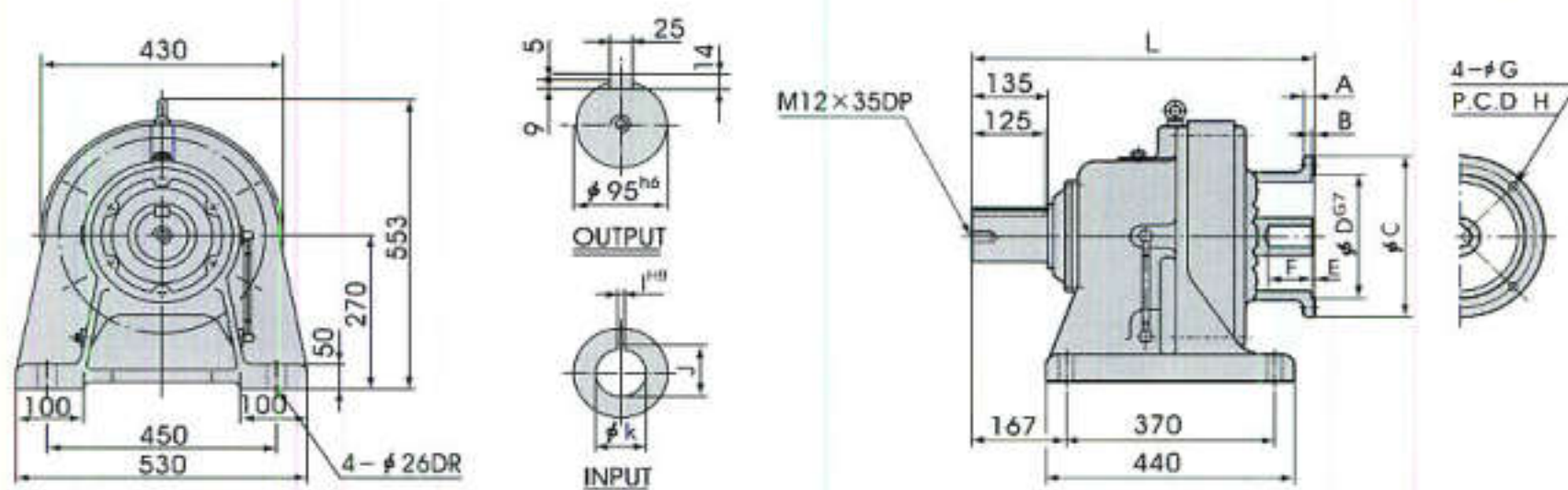
3. Dimensions and specifications are subjected to change without notice.

MJH-108



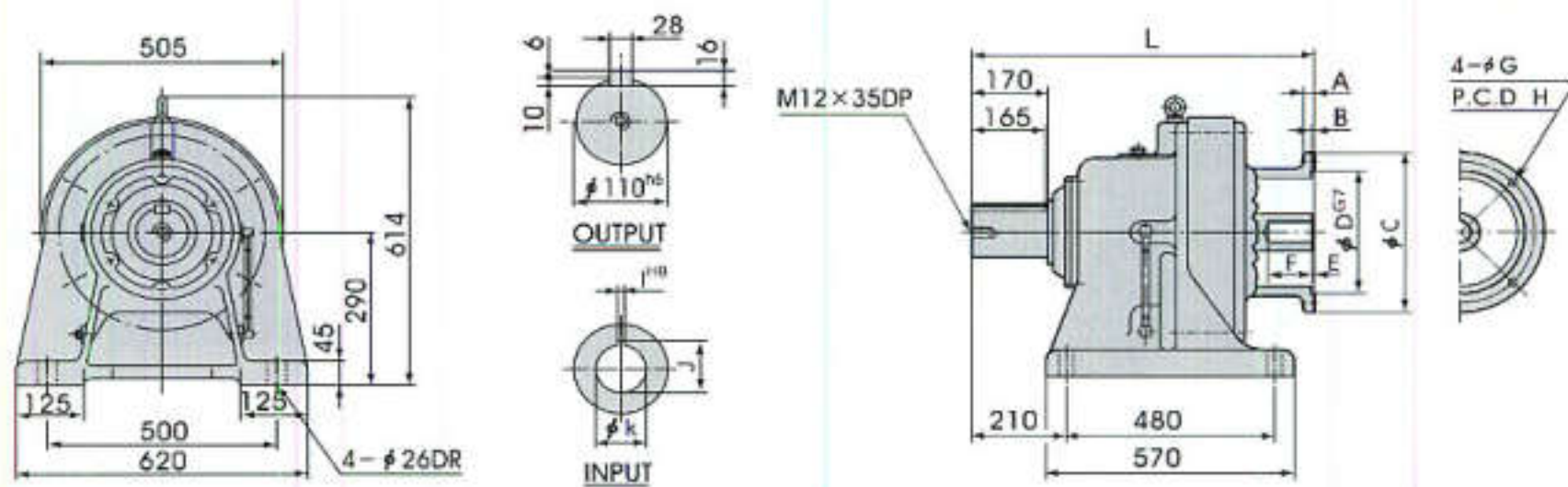
MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
5.5	132S	MJH 8-108-	20	6	300	230	4	78	15	265	10	41.3	38F7	530	173
7.5	132M	MJH10-108-	20	6	300	230	4	78	15	265	10	41.3	38F7	530	173
11	160M	MJH15-108-	22	6	350	250	15	98	19	300	12	45.3	42F7	561	182
15	160L	MJH20-108-	22	6	350	250	15	98	19	300	12	45.3	42F7	561	182

MJH-109



MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
7.5	132M	MJH10-109-	20	6	300	230	4	78	15	265	10	41.3	38F7	608	286
11	160M	MJH15-109-	22	6	350	250	15	98	19	300	12	45.3	42F7	639	298
15	160L	MJH20-109-	22	6	350	250	15	98	19	300	12	45.3	42F7	639	298
22	180M	MJH30-109-	22	6	400	300	15	98	19	350	14	51.8	48F7	639	305

MJH-110



MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
11	160M	MJH15-110-	25	6	350	250	20	95	19	300	12	45.3	42F7	750	414
15	160L	MJH20-110-	25	6	350	250	20	95	19	300	12	45.3	42F7	750	414
22	180M	MJH30-110-	25	6	400	300	20	95	19	350	14	51.8	48F7	750	430
30	180L	MJH40-110-	25	6	400	300	20	95	19	350	16	60	55F7	750	430

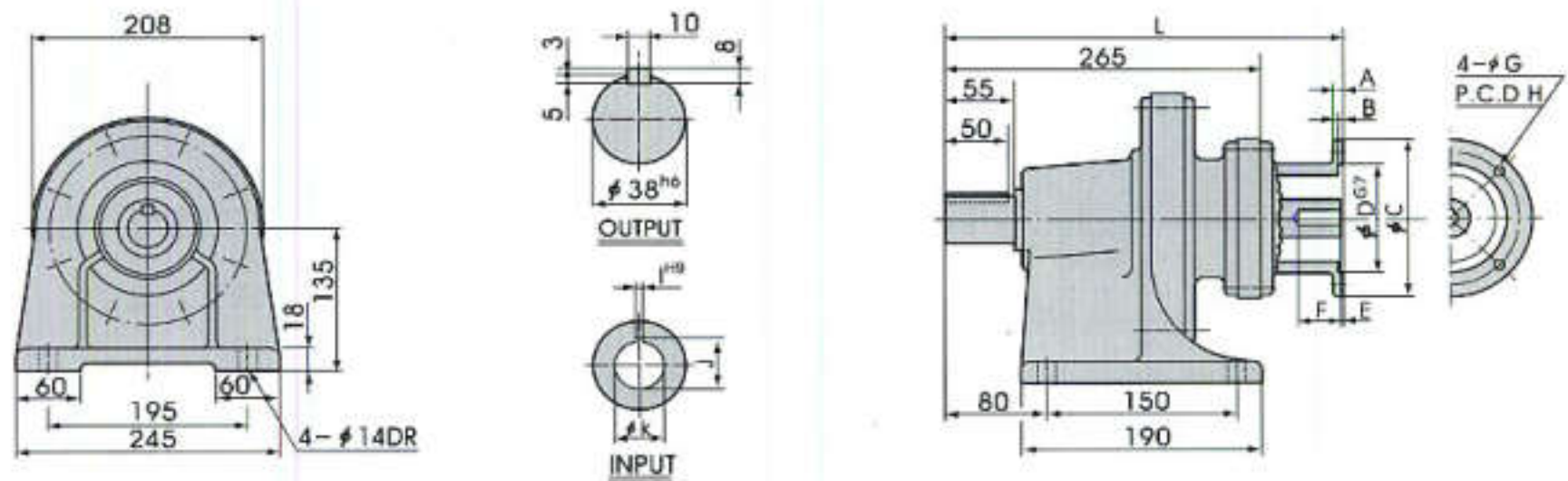
Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

3. Dimensions and specifications are subjected to change without notice.

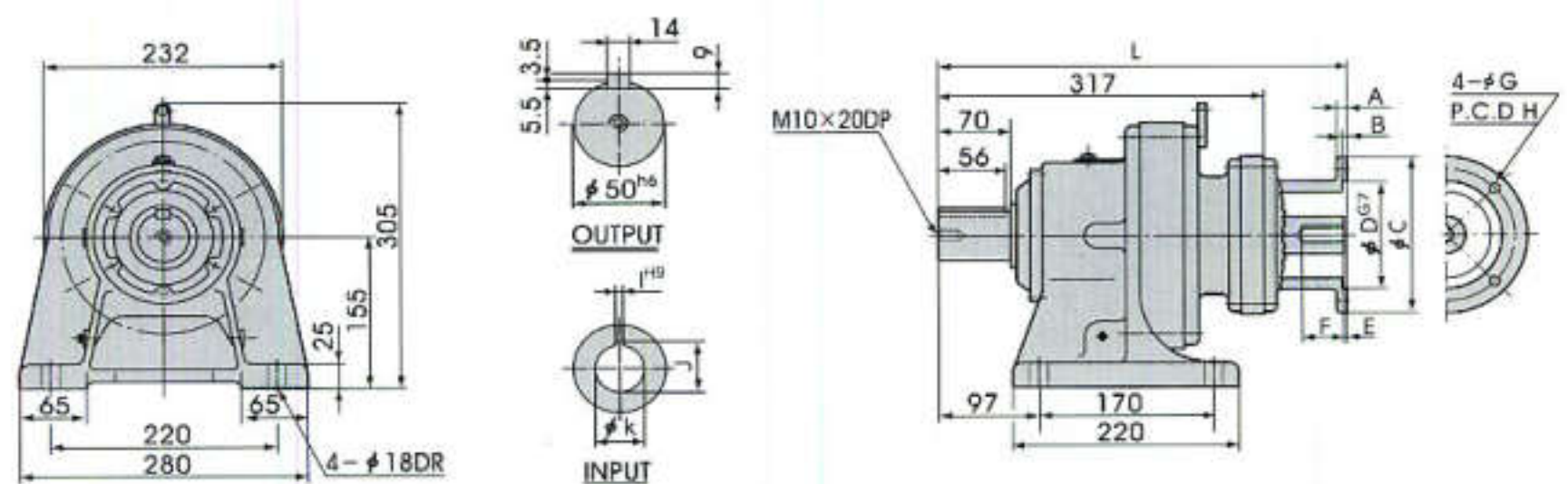
4-5) DIMENSIONS : MJH Double Reduction Type

MJH-232



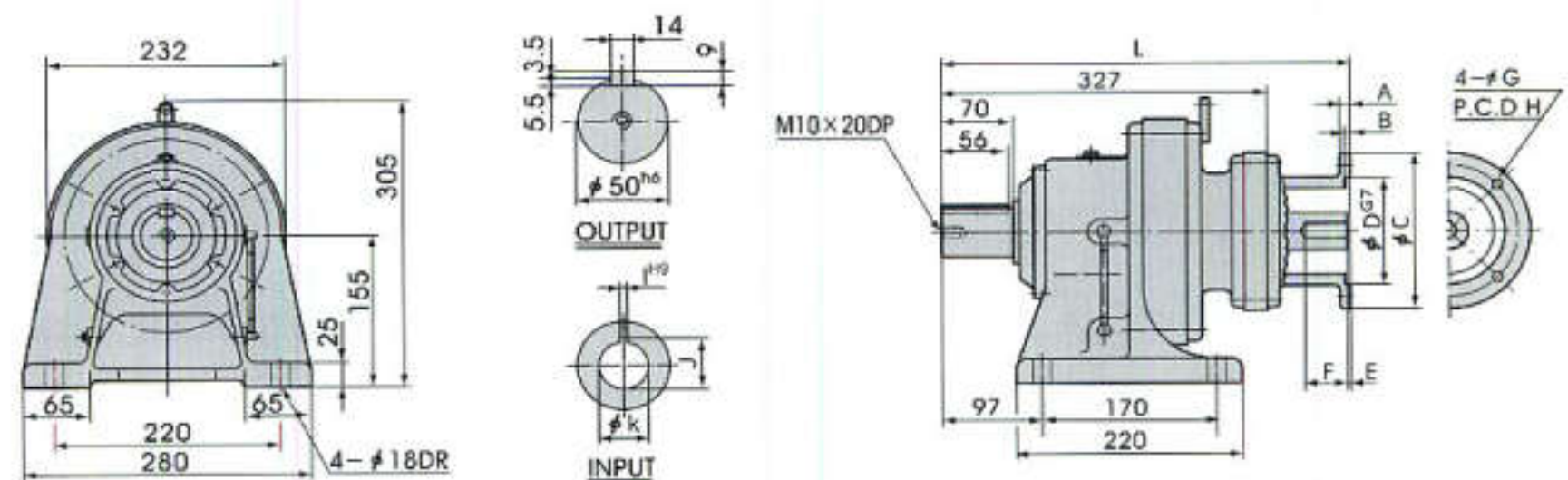
MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.2	71	MJH02-232-	10	5	160	110	3	41	10	130	5	16.3	14F6	346	42
0.4	71	MJH05-232-	10	5	160	110	3	41	10	130	5	16.3	14F6	346	42
0.75	80	MJH 1-232-	10	5	200	130	3	41	12	165	6	21.8	19F6	346	43

MJH-242



MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.2	71	MJH02-242-	10	5	160	110	3	41	10	130	5	16.3	14F6	398	55
0.4	71	MJH05-242-	10	5	160	110	3	41	10	130	5	16.3	14F6	398	55

MJH-243



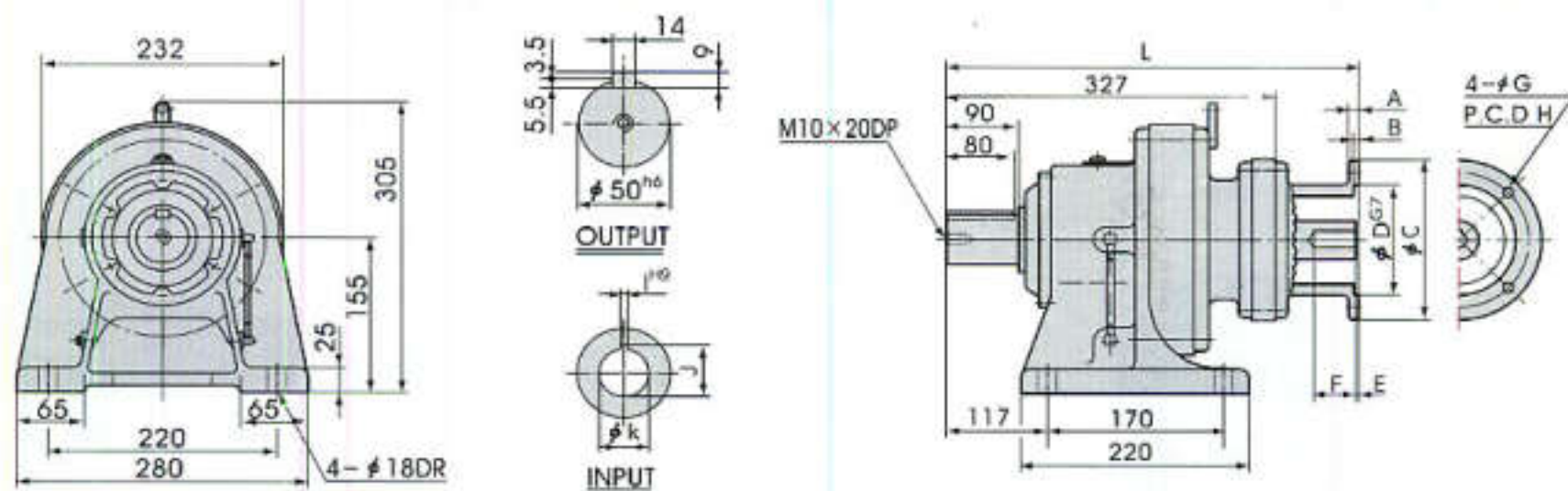
MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.75	80	MJH 1-243-	10	5	200	130	3	41	12	165	6	21.8	19F6	411	59
1.5	90L	MJH 2-243-	10	6	200	130	3	52	12	165	8	27.3	24F6	422	59

Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

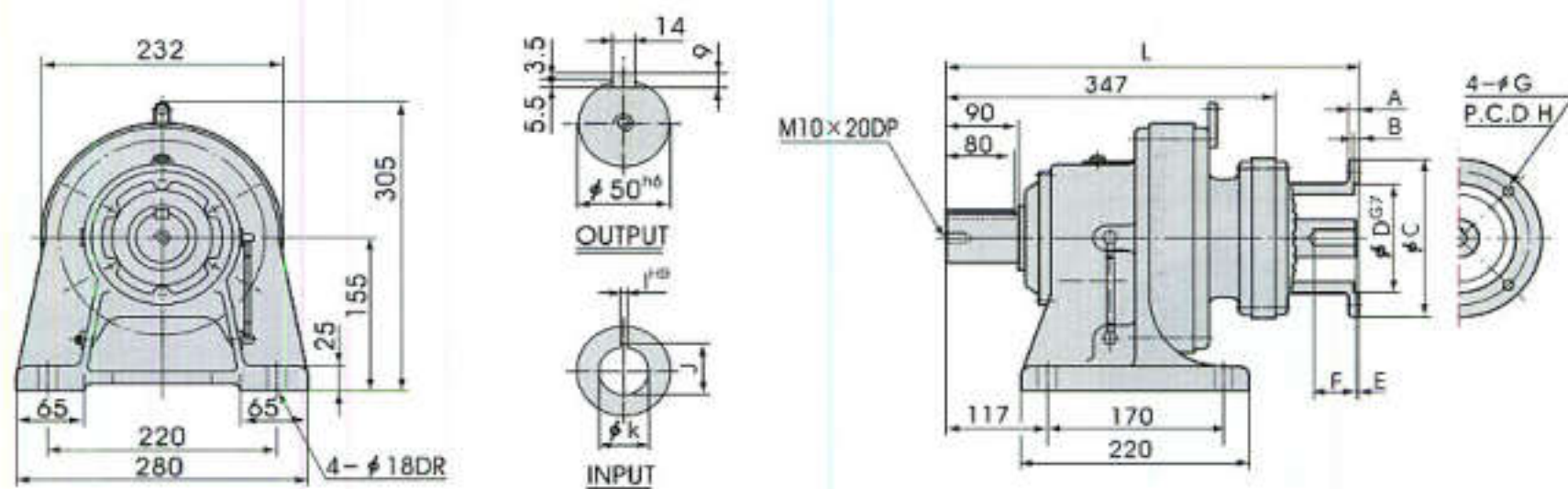
3. Dimensions and specifications are subjected to change without notice.

MJH-252



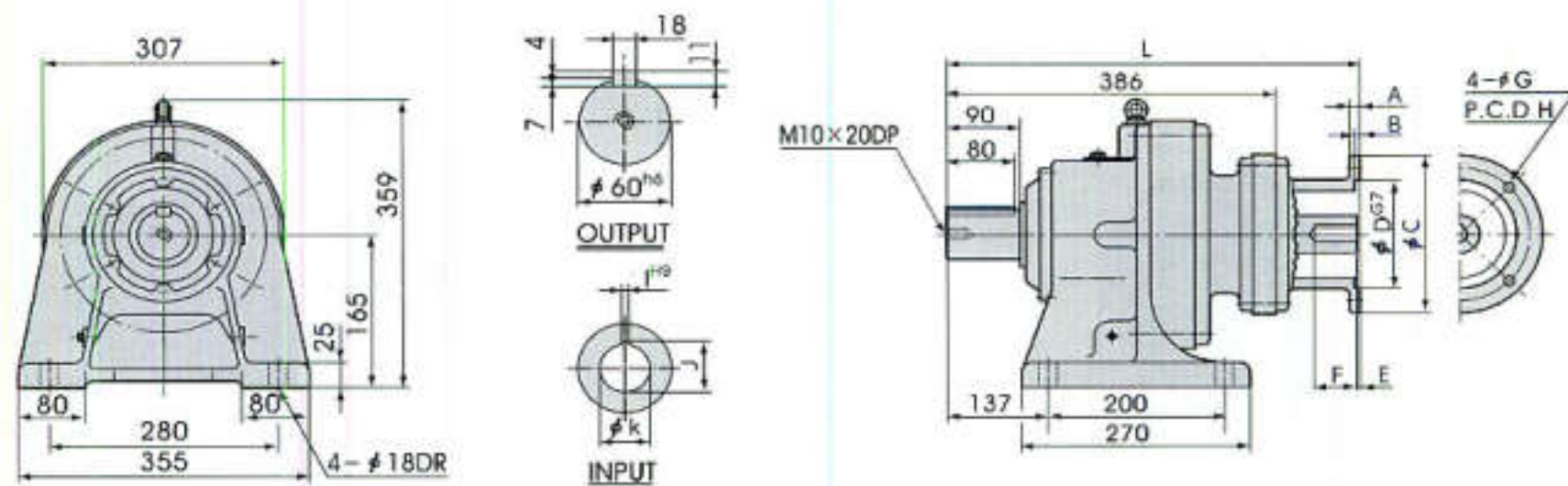
MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.2	71	MJH02-252-	10	5	160	110	3	41	10	130	5	16.3	14F6	418	57
0.4	71	MJH05-252-	10	5	160	110	3	41	10	130	5	16.3	14F6	418	57

MJH-253



MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.75	80	MJH 1-253-	10	5	200	130	3	41	12	165	8	21.8	19F6	431	61

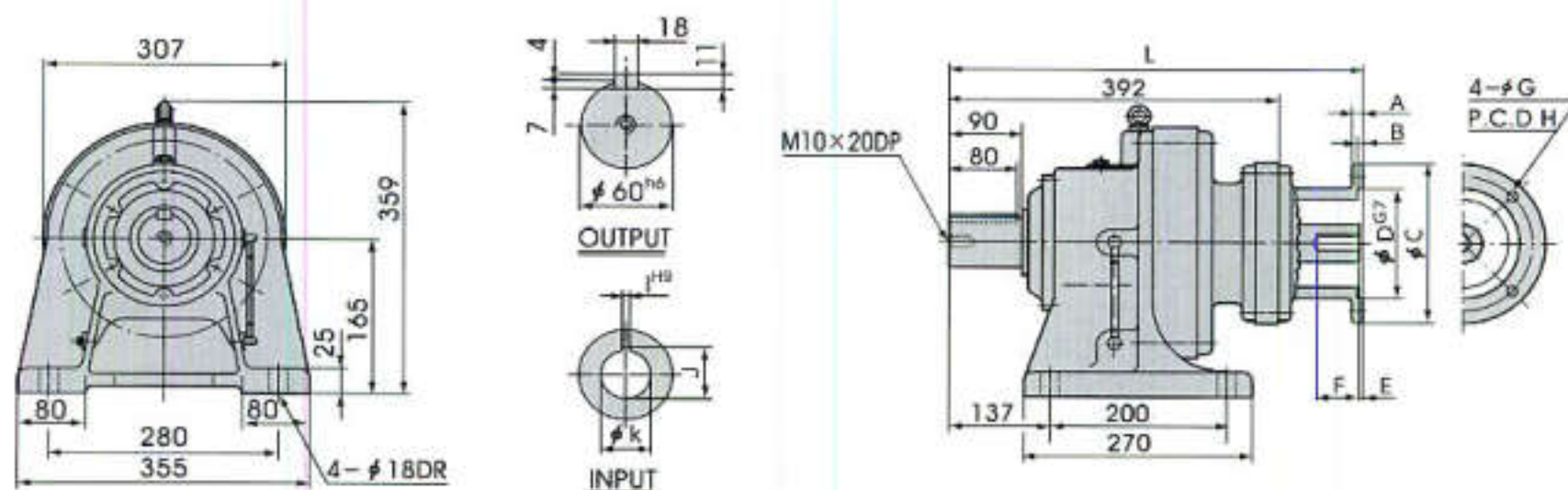
MJH-262



MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.2	71	MJH02-262-	10	5	160	110	3	41	10	130	5	16.3	14F6	467	96
0.4	71	MJH05-262-	10	5	160	110	3	41	10	130	5	16.3	14F6	467	96

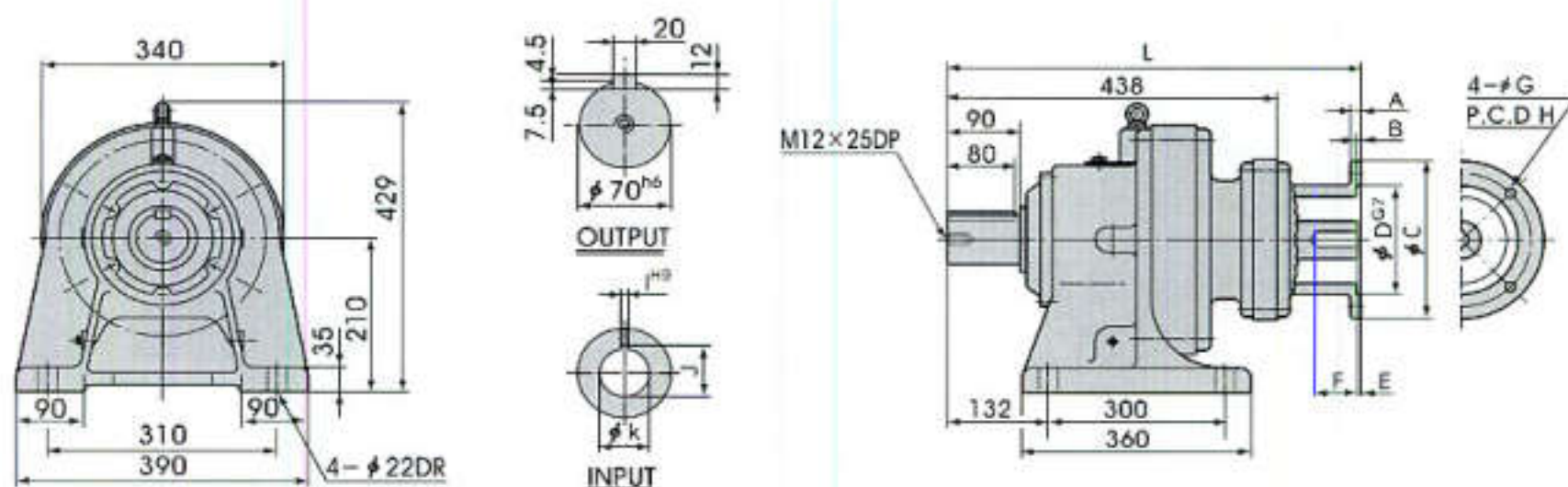
- Note) 1. Dimension tolerance : Output shaft h₆
Input shaft F₆ or F₇
2. Key KS B 1311-84 Parallel Key
3. Dimensions and specifications are subjected to change without notice.

MJH-263



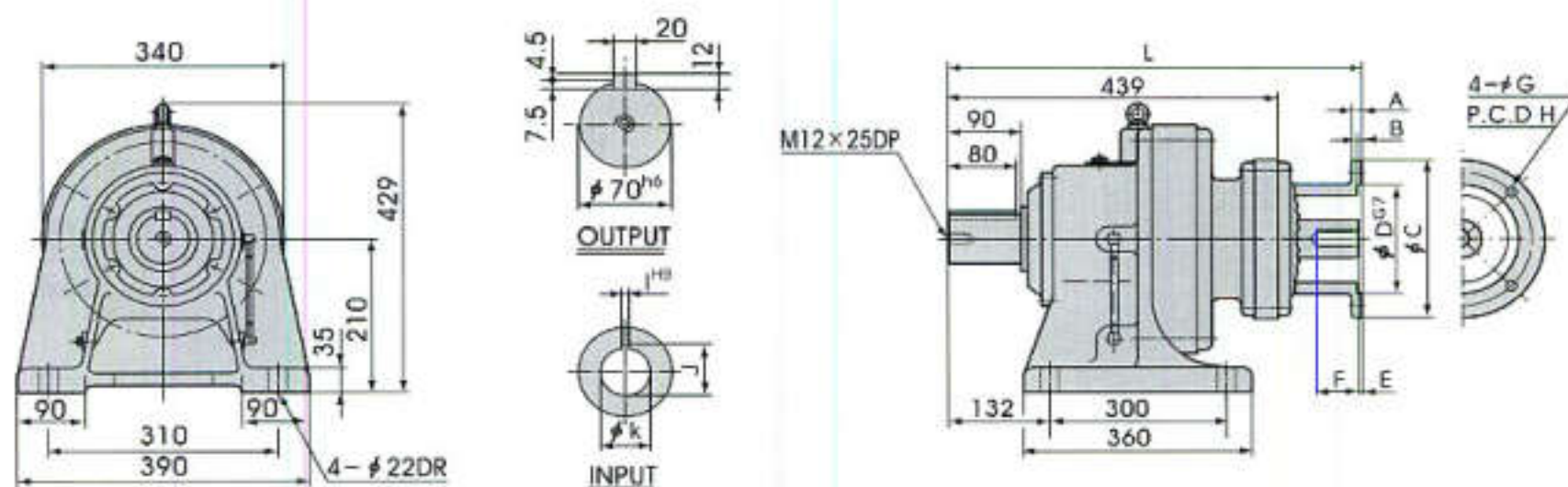
MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.4	71	MJH05-263-	10	5	160	110	3	41	10	130	5	16.3	14F6	476	103
0.75	80	MJH 1-263-	10	5	200	130	3	41	12	165	6	21.8	19F6	476	104
1.5	90L	MJH 2-263-	12	5	200	130	3	52	12	165	8	27.3	24F6	487	104
2.2	100L	MJH 3-263-	15	6	250	180	3	62	15	215	8	31.3	28F6	497	105

MJH-272



MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.2	71	MJH02-272-	10	5	160	110	3	41	10	130	5	16.3	14F6	519	131
0.4	71	MJH05-272-	10	5	160	110	3	41	10	130	5	16.3	14F6	519	131

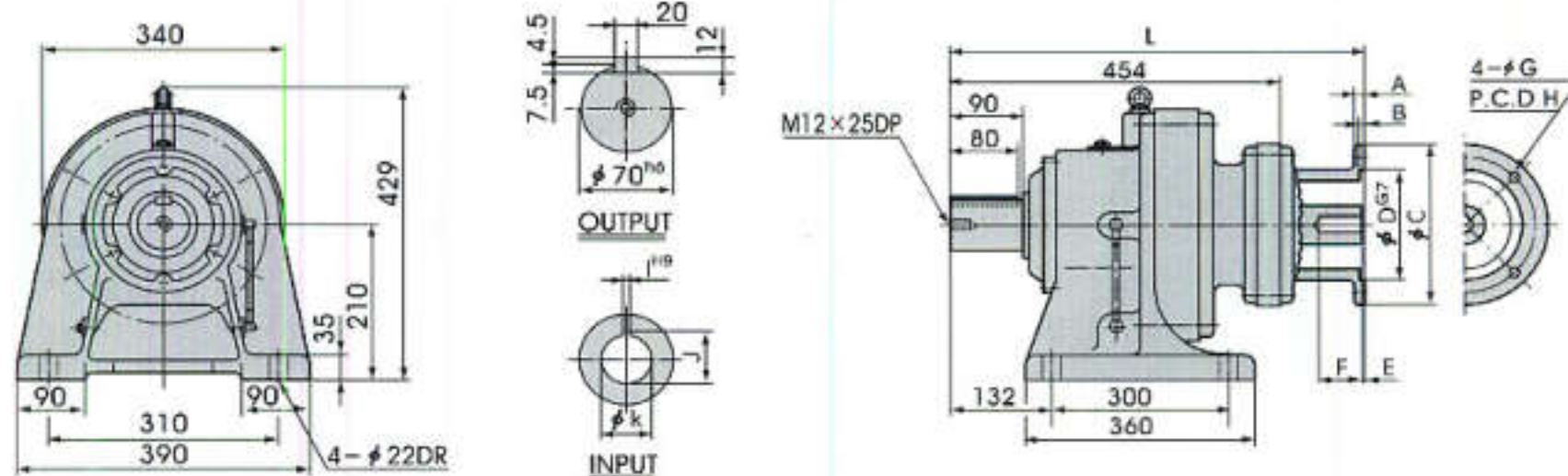
MJH-273



MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.75	80	MJH 1-273-	10	5	200	130	3	41	12	165	6	21.8	19F6	523	139
1.5	90L	MJH 2-273-	12	5	200	130	3	52	12	165	8	27.3	24F6	534	139
2.2	100L	MJH 3-273-	15	6	250	180	3	62	15	215	8	31.3	28F6	544	140

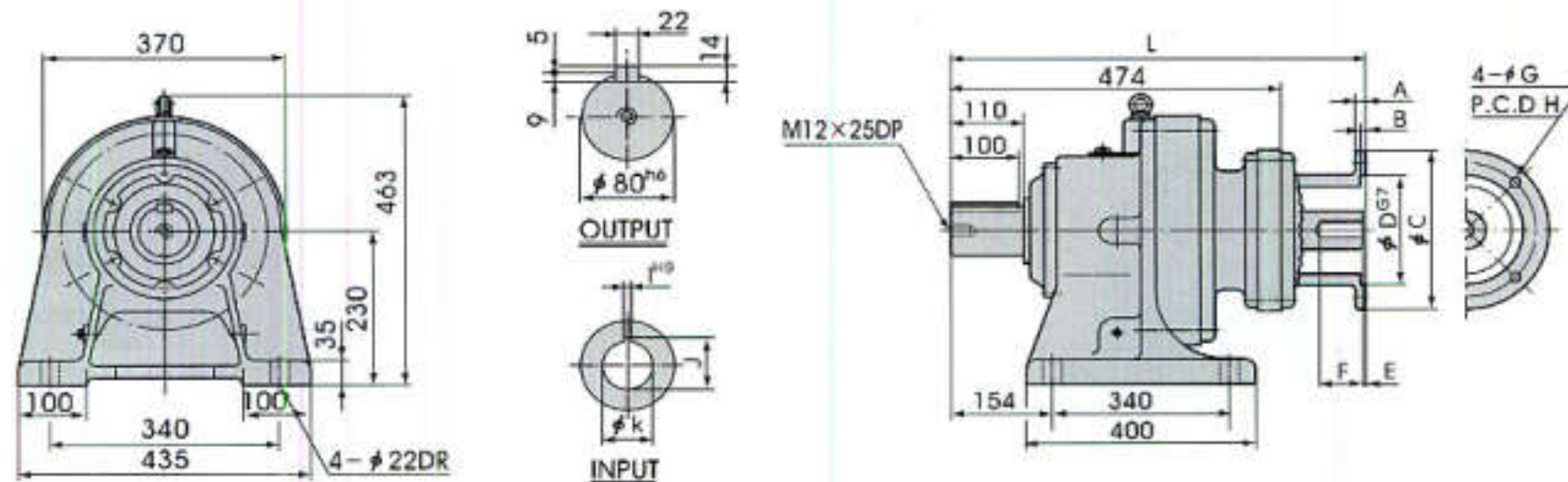
- Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7
2. Key KS B 1311-84 Parallel Key
3. Dimensions and specifications are subjected to change without notice.

MJH-274



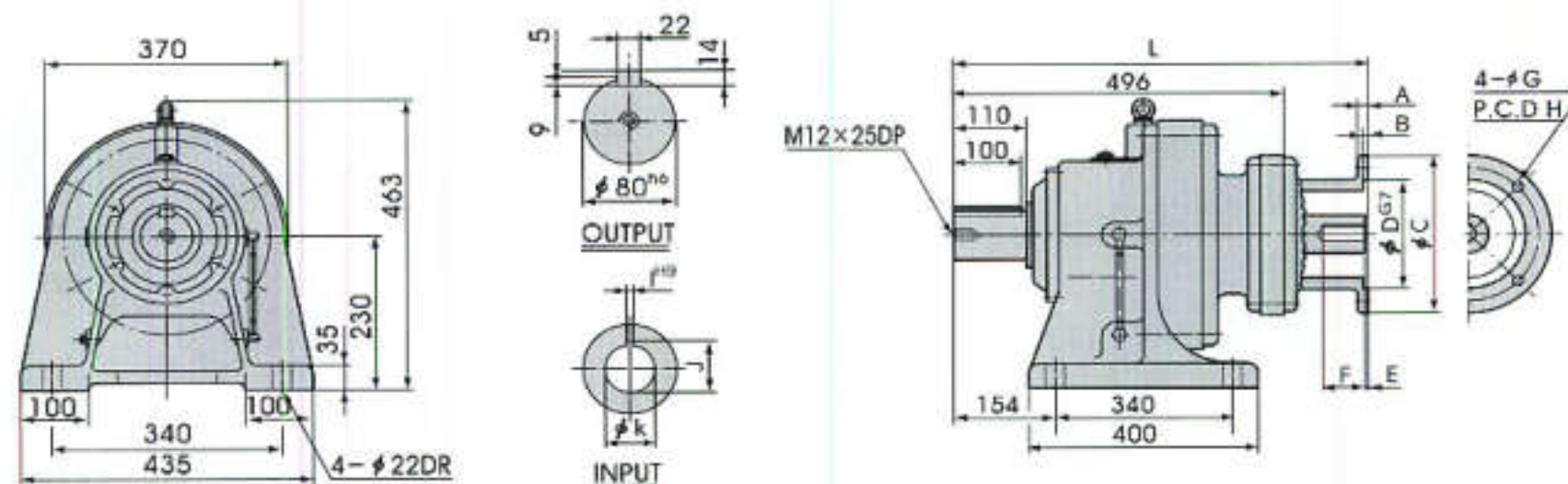
MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
3.7	112M	MJH 5-274-	18	6	250	180	3	62	15	215	8	31.3	28F6	568	155

MJH-282



MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.4	71	MJH05-282-	10	5	160	110	3	41	10	130	5	16.3	14F6	555	175

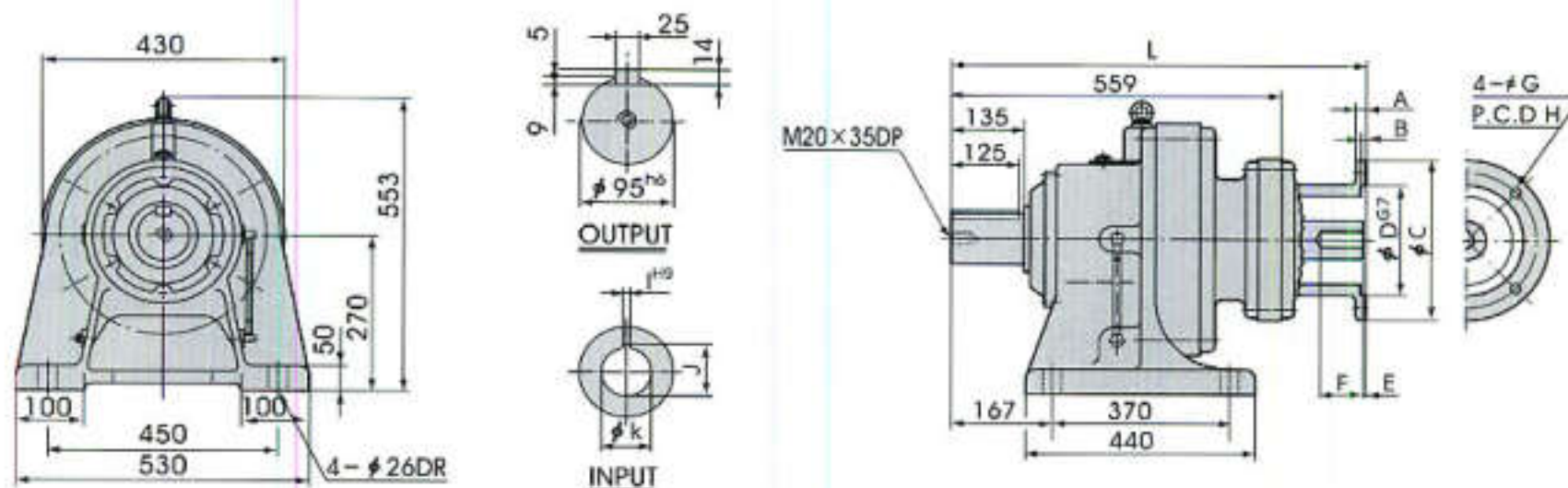
MJH-284



MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.75	80	MJH 1-284-	15	5	200	130	3	41	12	165	6	21.8	19F6	589	199
1.5	90L	MJH 2-284-	15	5	200	130	3	52	12	165	8	27.3	24F6	600	199
2.2	100L	MJH 3-284-	18	6	250	180	3	62	15	215	8	31.3	28F6	610	201
3.7	112M	MJH 5-284-	18	6	250	180	3	62	15	215	8	31.3	28F6	610	201

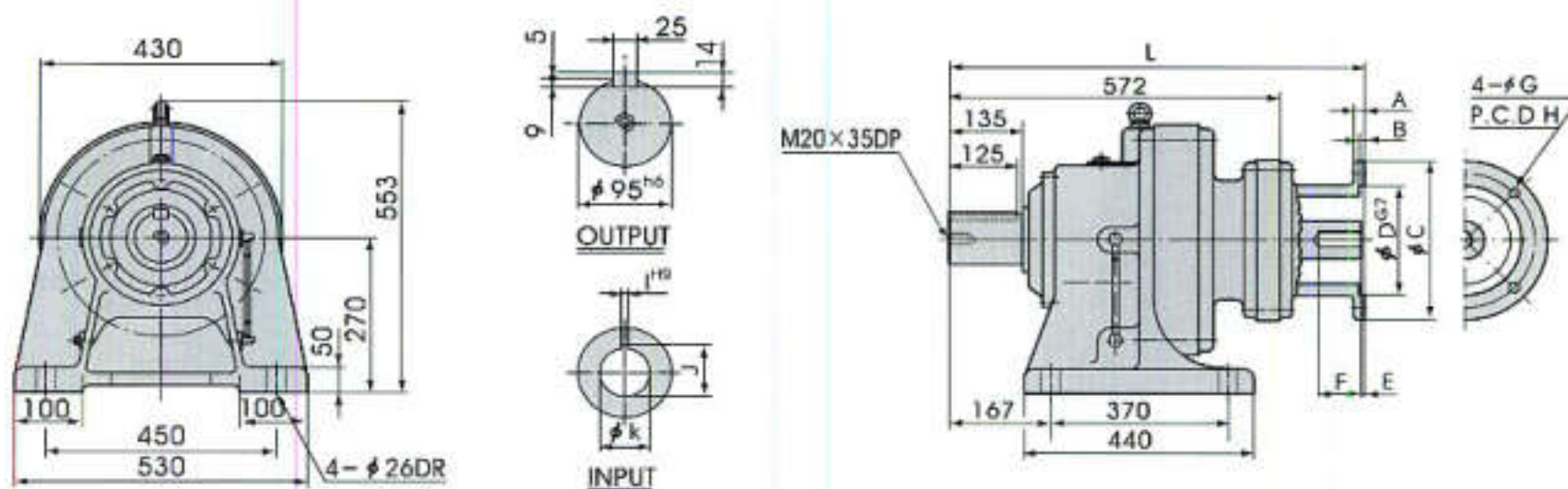
- Note) 1. Dimension tolerance : Output shaft h₆
Input shaft F₆ or F₇
2. Key KS B 1311-84 Parallel Key
3. Dimensions and specifications are subjected to change without notice.

MJH-293



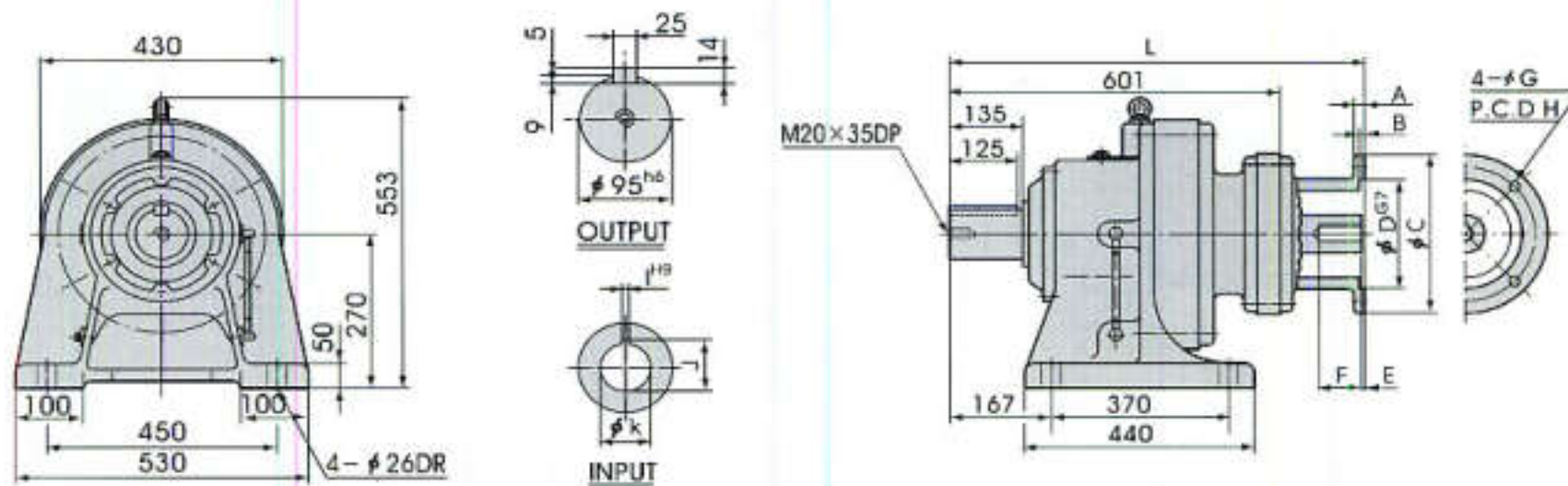
MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.75	80	MJH 1-293-	10	5	200	130	3	41	12	165	6	21.8	19F6	643	279
1.5	90L	MJH 2-293-	12	5	200	130	3	52	12	165	8	27.3	24F6	654	279

MJH-294



MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
1.5	90L	MJH 2-294-	15	5	200	130	3	52	12	165	8	27.8	24F6	676	288
2.2	100L	MJH 3-294-	18	6	250	180	3	62	15	215	8	31.3	28F6	686	290
3.7	112M	MJH 5-294-	18	6	250	180	3	62	15	215	8	31.3	28F6	686	290

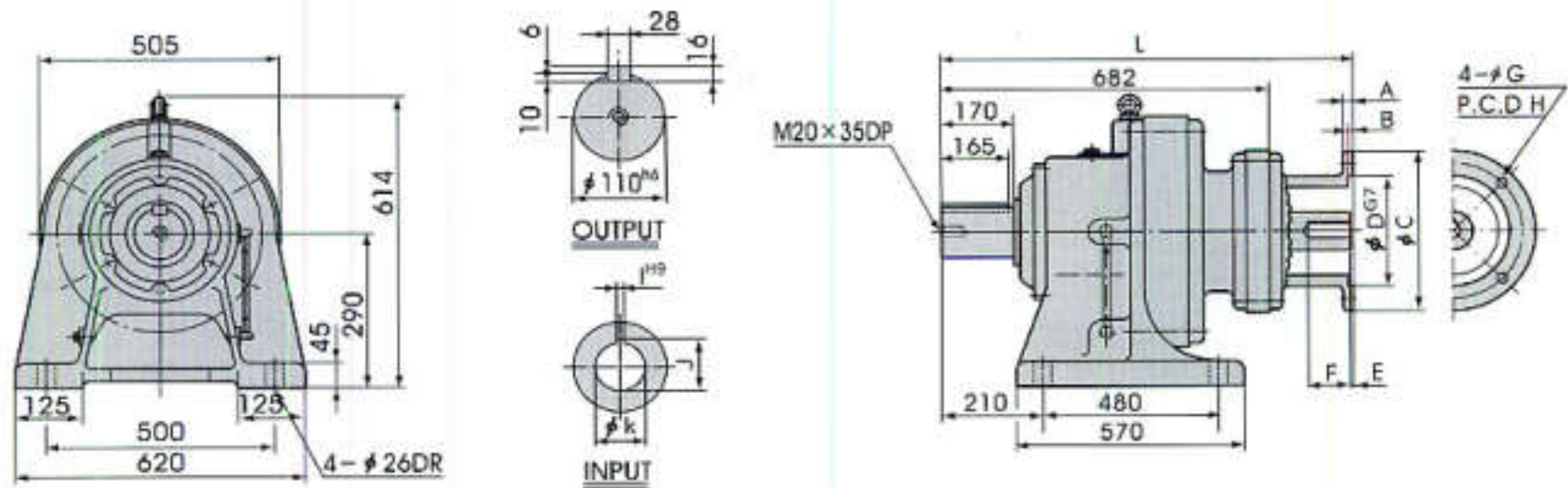
MJH-296



MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
7.5	132M	MJH10-296-	22	6	300	230	4	78	15	265	10	41.3	38F7	730	298

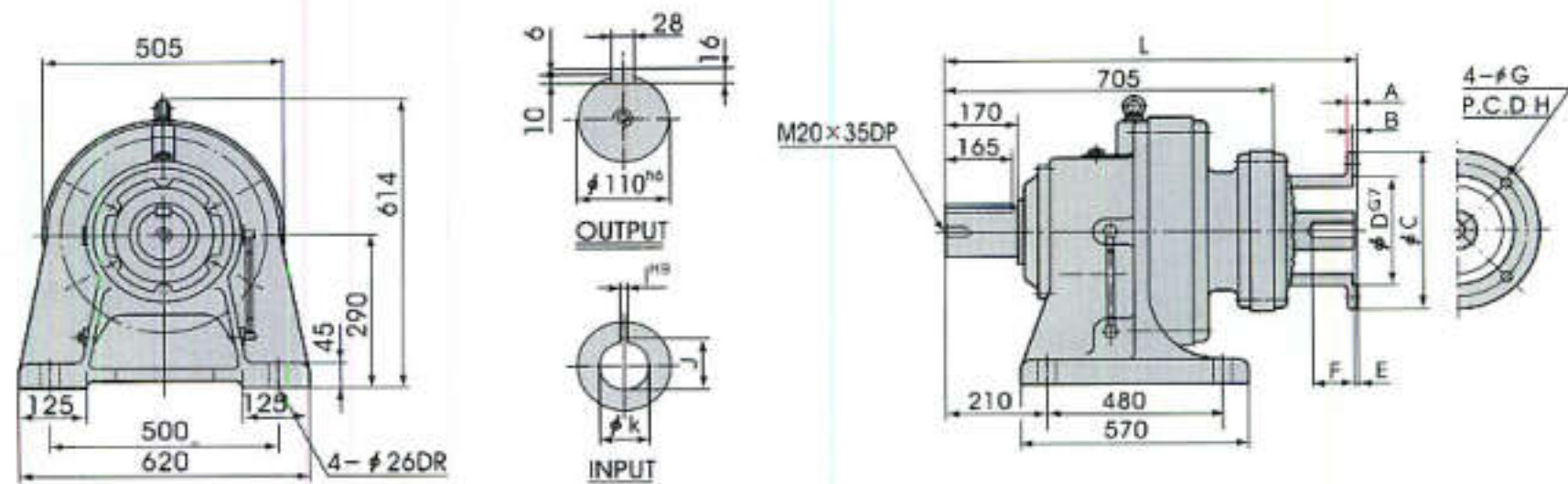
- Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7
2. Key KS B 1311-84 Parallel Key
3. Dimensions and specifications are subjected to change without notice.

MJH-2104



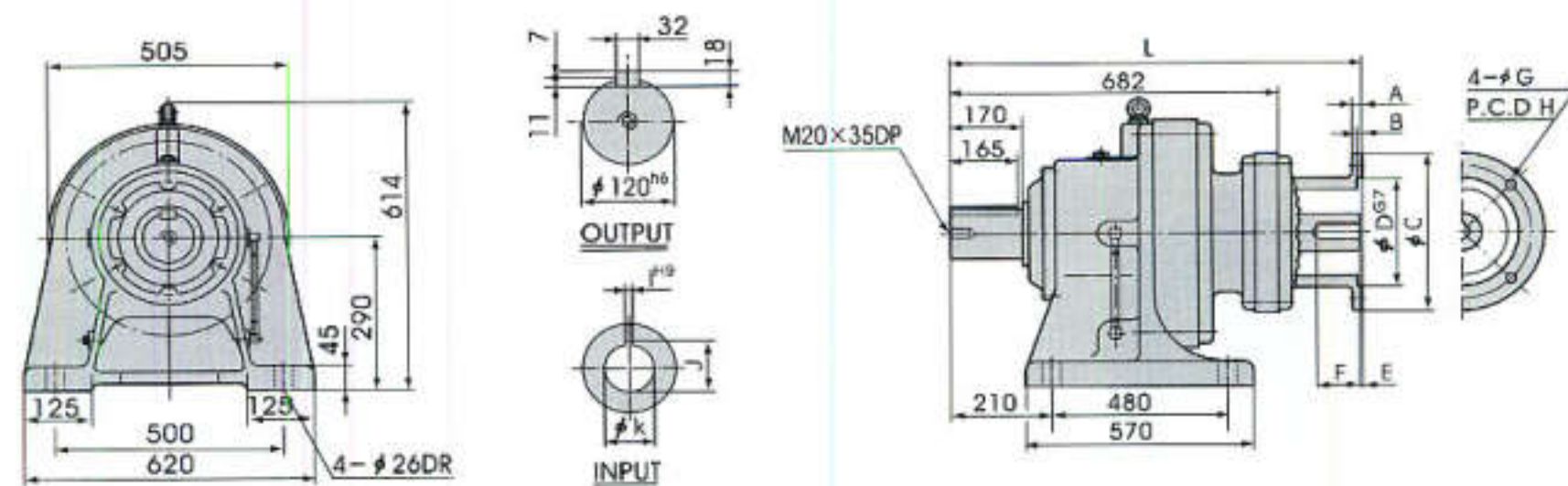
MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
1.5	90L	MJH 2-2104-	15	5	200	130	3	52	12	165	8	27.3	24F6	786	440
2.2	100L	MJH 3-2104-	18	6	250	180	3	62	15	215	8	31.3	28F6	796	442
3.7	112M	MJH 5-2104-	18	6	250	180	3	62	15	215	8	31.3	28F6	796	442

MJH-2106



MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
5.5	132S	MJH 8-2106-	22	6	300	230	4	78	15	265	10	41.3	38F7	834	449
7.5	132M	MJH10-2106-	22	6	300	230	4	78	15	265	10	41.3	38F7	834	449

MJH-2224



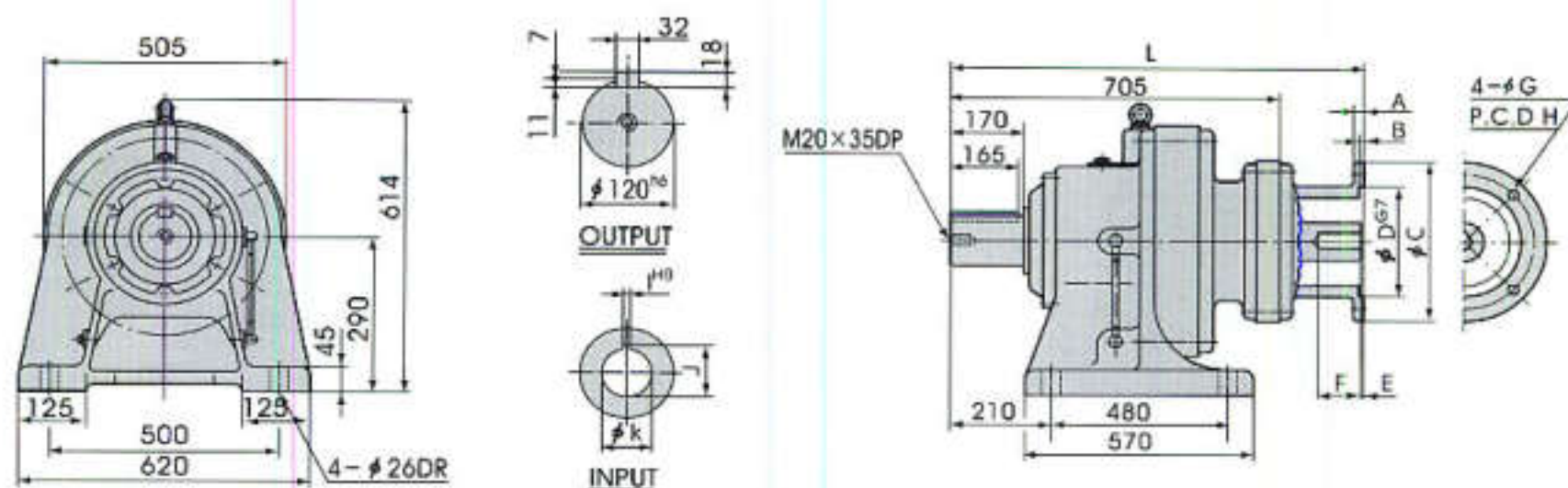
MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
1.5	90L	MJH 2-2224-	15	5	200	130	3	52	12	165	8	27.3	24F6	786	445
2.2	100L	MJH 3-2224-	18	6	250	180	3	62	15	215	8	31.3	28F6	796	447
3.7	112M	MJH 5-2224-	18	6	250	180	3	62	15	215	8	31.3	28F6	796	447

Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

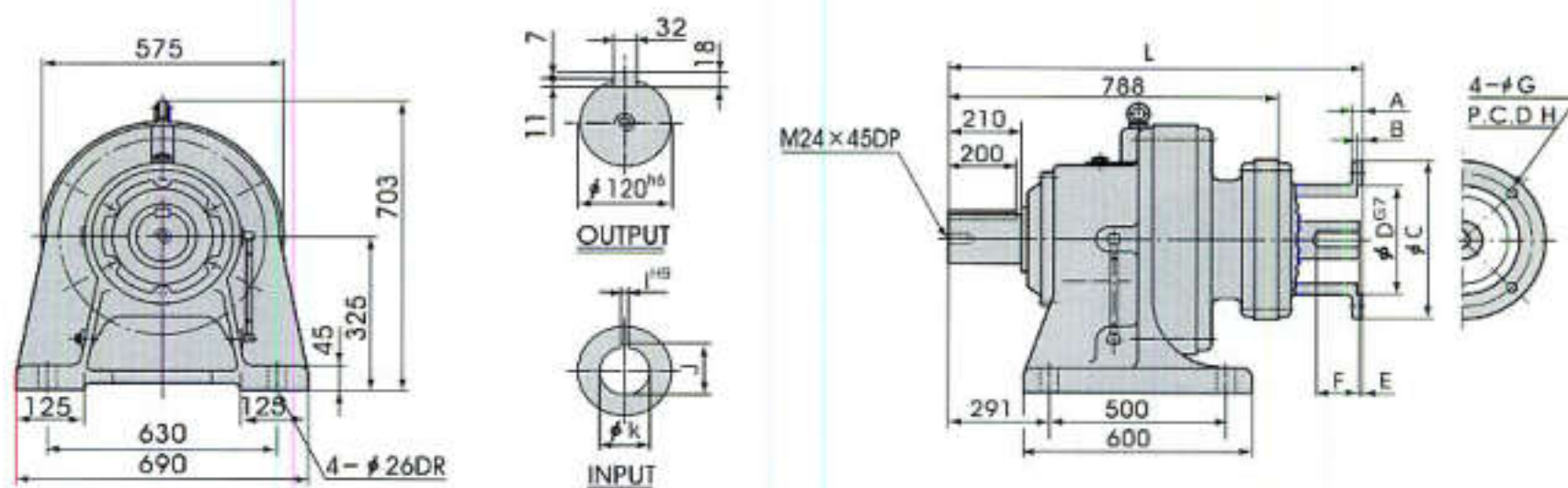
3. Dimensions and specifications are subjected to change without notice.

MJH-2226



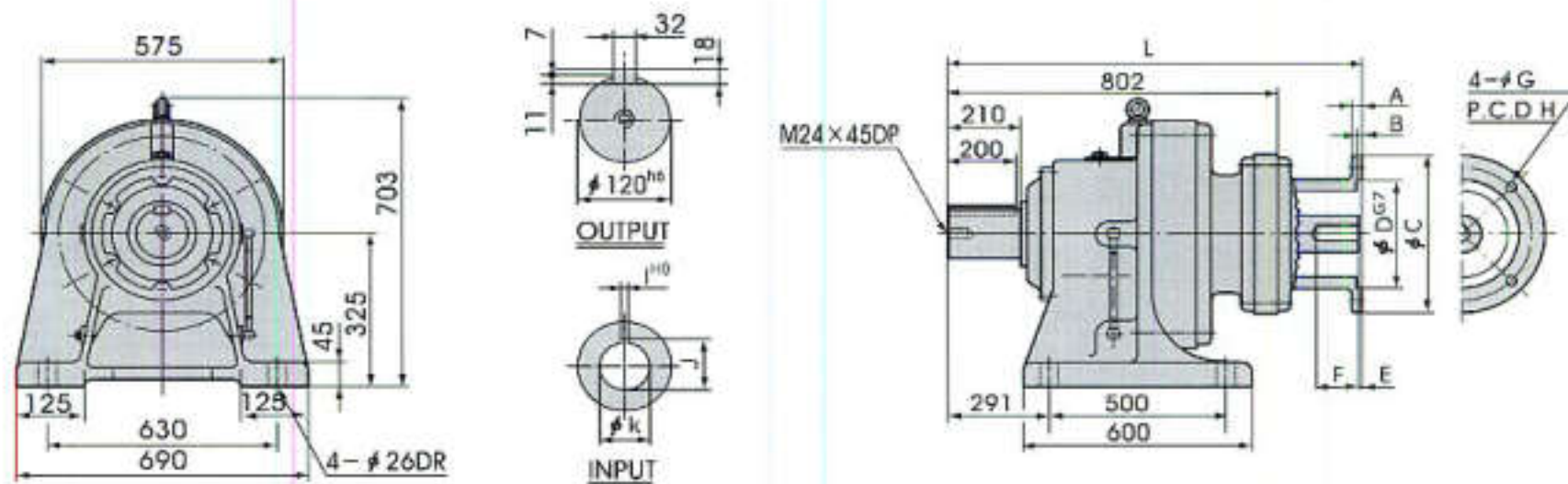
MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
5.5	132S	MJH 8-2226-	22	6	300	230	4	78	15	265	10	41.3	38F7	834	454
7.5	132M	MJH10-2226-	22	6	300	230	4	78	15	265	10	41.3	38F7	834	454

MJH-2116



MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
2.2	100L	MJH 3-2116-	18	6	250	180	3	62	15	215	8	31.3	28F6	900	583
3.7	112M	MJH 5-2116-	18	6	250	180	3	62	15	215	8	31.3	28F6	900	583
5.5	132S	MJH 8-2116-	18	6	300	230	4	78	15	265	10	41.3	38F7	917	588
7.5	132M	MJH10-2116-	18	6	300	230	4	78	15	265	10	41.3	38F7	917	588

MJH-2117



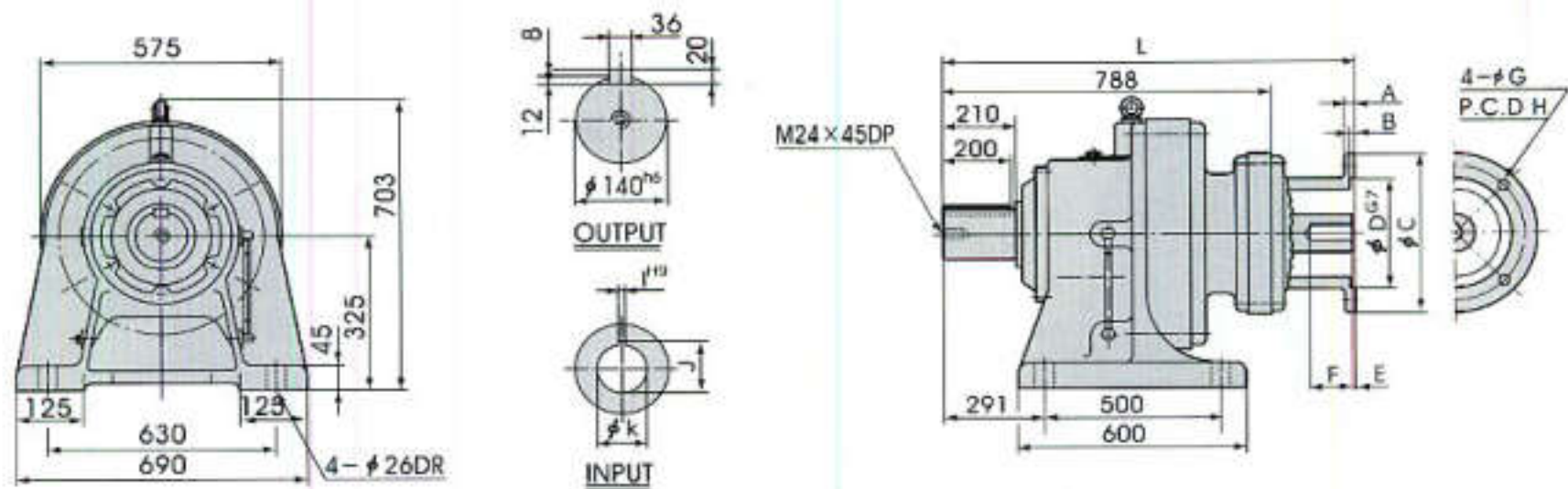
MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
5.5	132S	MJH 8-2117-	22	6	300	230	4	78	15	265	10	41.3	38F7	949	590
7.5	132M	MJH10-2117-	22	6	300	230	4	78	15	265	10	41.3	38F7	949	590
11	160M	MJH15-2117-	22	6	350	250	15	98	19	300	12	45.3	42F7	980	603
15	160L	MJH20-2117-	22	6	350	250	15	98	19	300	12	45.3	42F7	980	603

Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

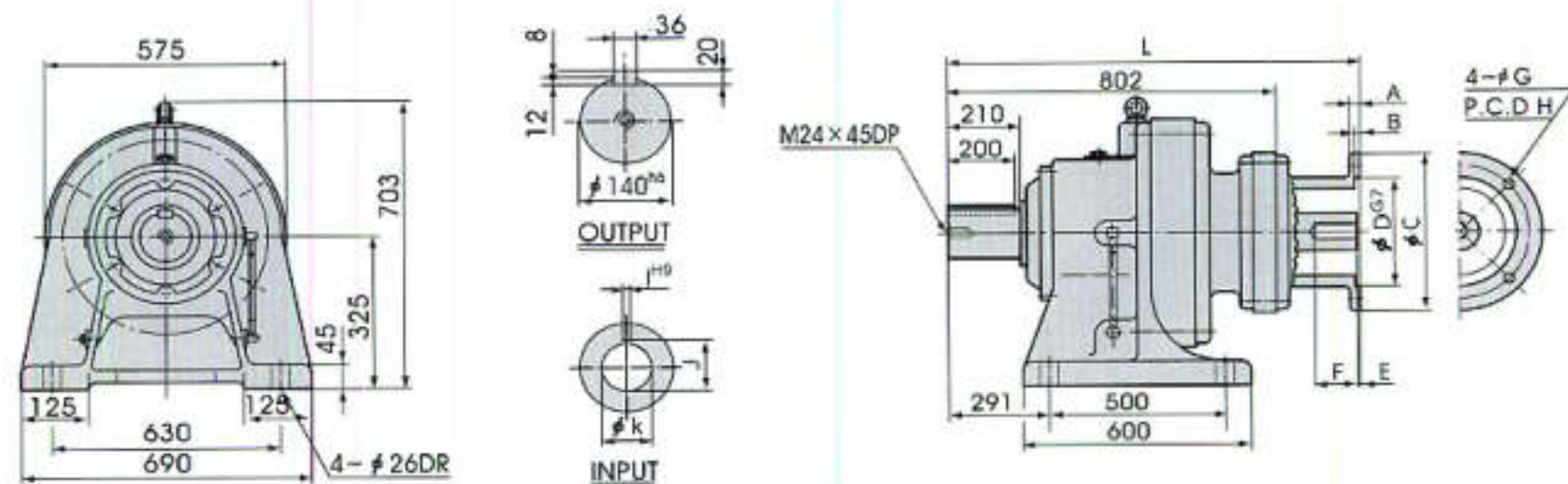
3. Dimensions and specifications are subjected to change without notice.

MJH-2246



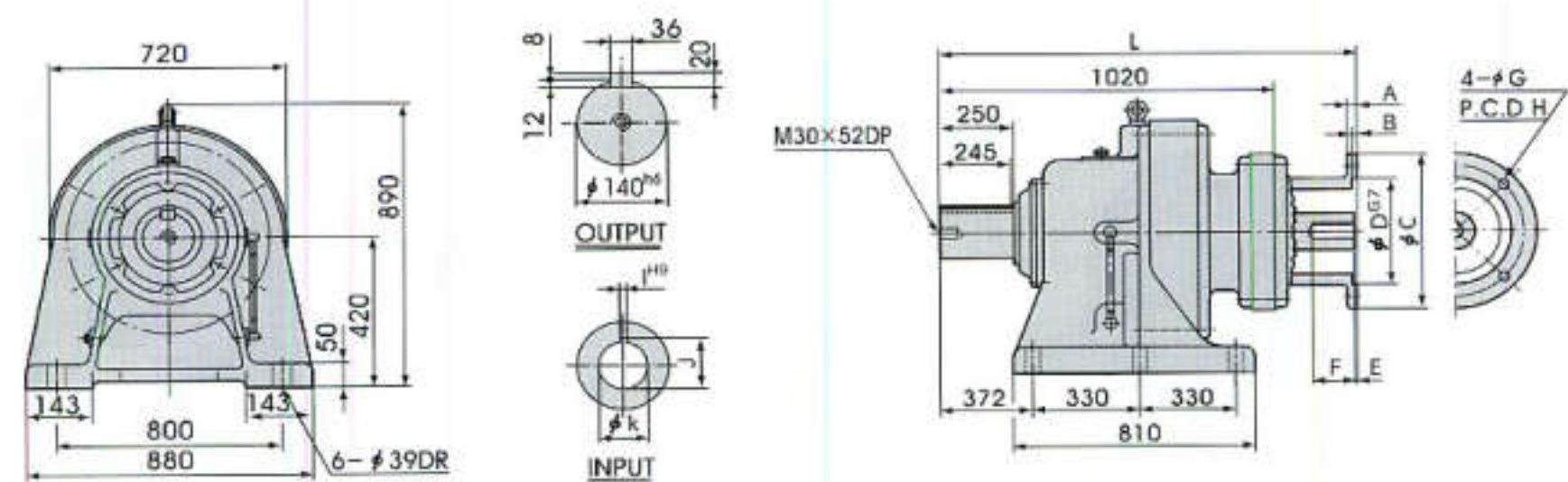
MOTOR			DIMENSIONS												W(kg)
KW	FRAME	MODEL NO.	A	B	C	D	E	F	G	H	I	J	K	L	
3.7	112M	MJH 5-2246-	18	6	250	180	3	62	15	215	8	31.3	28F6	900	593
5.5	132S	MJH 8-2246-	18	6	300	230	4	78	15	265	10	41.3	38F7	917	598
7.5	132M	MJH10-2246-	18	6	300	230	4	78	15	265	10	41.3	38F7	917	598

MJH-2247



MOTOR			DIMENSIONS												W(kg)
KW	FRAME	MODEL NO.	A	B	C	D	E	F	G	H	I	J	K	L	
15	160L	MJH20-2247-	22	6	350	250	15	98	19	300	12	45.3	42F7	980	613

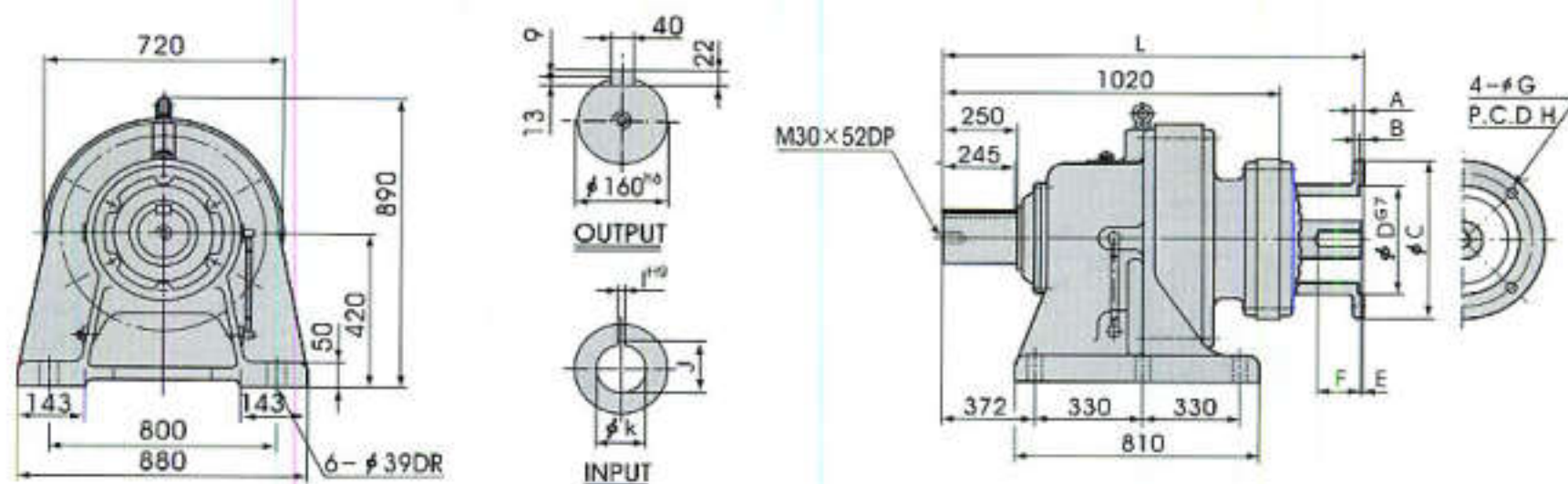
MJH-2128



MOTOR			DIMENSIONS												W(kg)
KW	FRAME	MODEL NO.	A	B	C	D	E	F	G	H	I	J	K	L	
5.5	132S	MJH 8-2128-	20	6	300	230	4	78	15	265	10	41.3	38F7	1162	1212
7.5	132M	MJH10-2128-	20	6	300	230	4	78	15	265	10	41.3	38F7	1162	1212
11	160M	MJH15-2128-	22	6	350	250	15	98	19	300	12	45.3	42F7	1192	1220
15	160L	MJH20-2128-	22	6	350	250	15	98	19	300	12	45.3	42F7	1192	1220

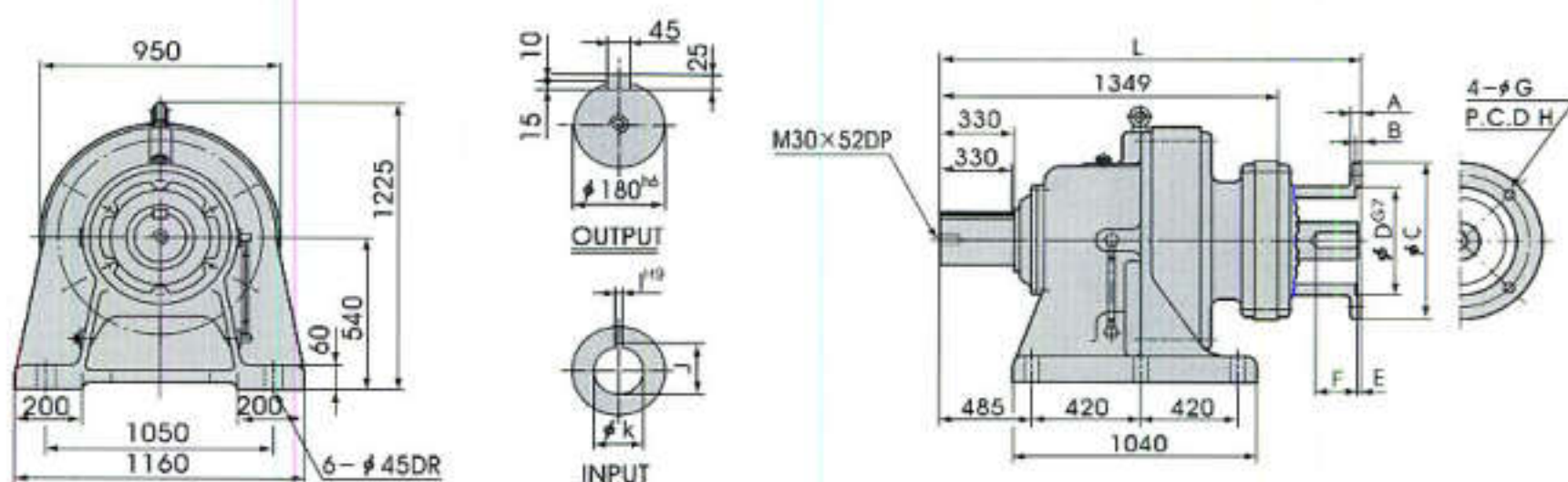
- Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_8 or F_7
2. Key KS B 1311-84 Parallel Key
3. Dimensions and specifications are subjected to change without notice.

MJH-2258



MOTOR			DIMENSIONS												W(kg)
KW	FRAME	MODEL NO.	A	B	C	D	E	F	G	H	I	J	K	L	
7.5	132M	MJH10-2258-	20	6	300	230	4	78	15	265	10	41.3	38F7	1162	1227
11	160M	MJH15-2258-	22	6	350	250	15	98	19	300	12	45.3	42F7	1192	1235
15	160L	MJH20-2258-	22	6	350	250	15	98	19	300	12	45.3	42F7	1192	1235

MJH-2139



MOTOR			DIMENSIONS												W(kg)
KW	FRAME	MODEL NO.	A	B	C	D	E	F	G	H	I	J	K	L	
7.5	132M	MJH10-2139-	20	6	300	230	4	78	15	265	10	41.3	38F7	1492	2553
11	160M	MJH15-2139-	22	6	350	250	15	98	19	300	12	45.3	42F7	1523	2565
15	160L	MJH20-2139-	22	6	350	250	15	98	19	300	12	45.3	42F7	1523	2565
22	180M	MJH30-2139-	22	6	400	300	15	98	19	300	14	51.8	48F7	1523	2572

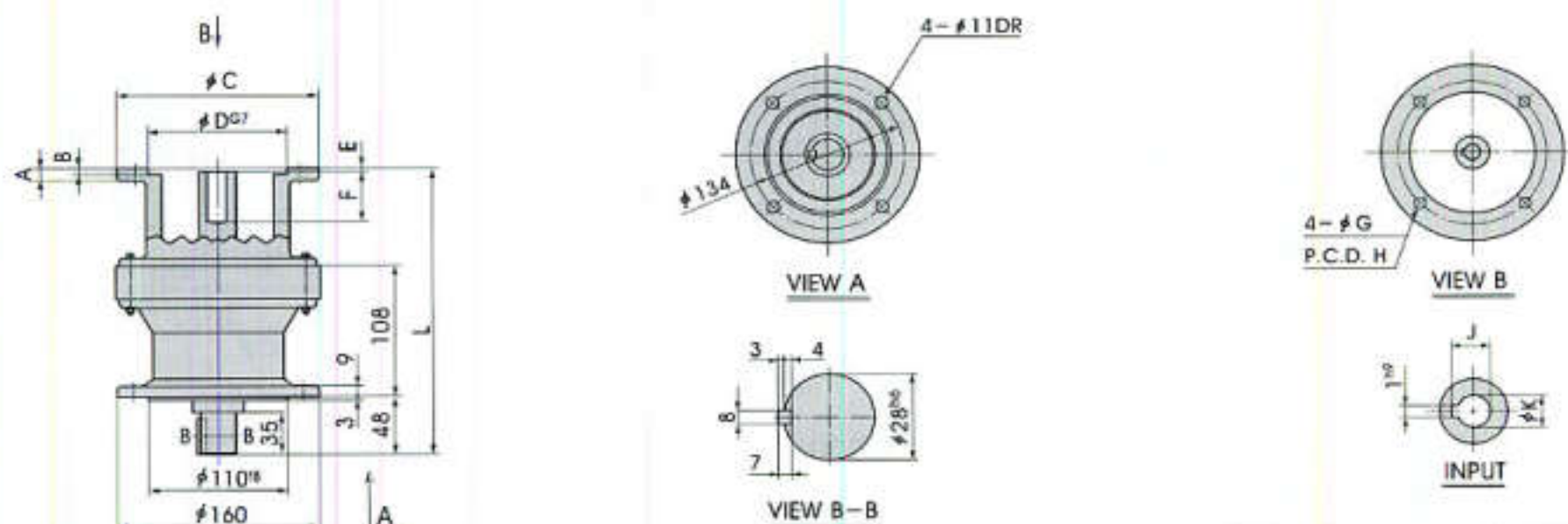
Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

3. Dimensions and specifications are subjected to change without notice.

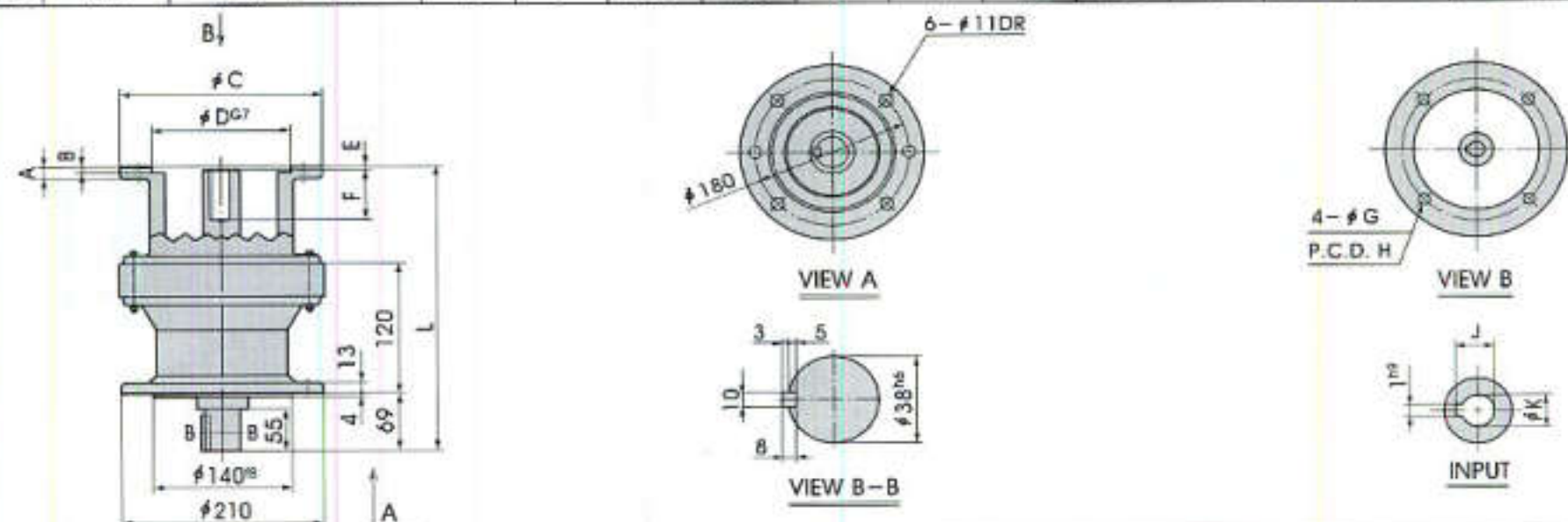
4-6) DIMENSIONS : MJV Single Reduction Type

MJV-102



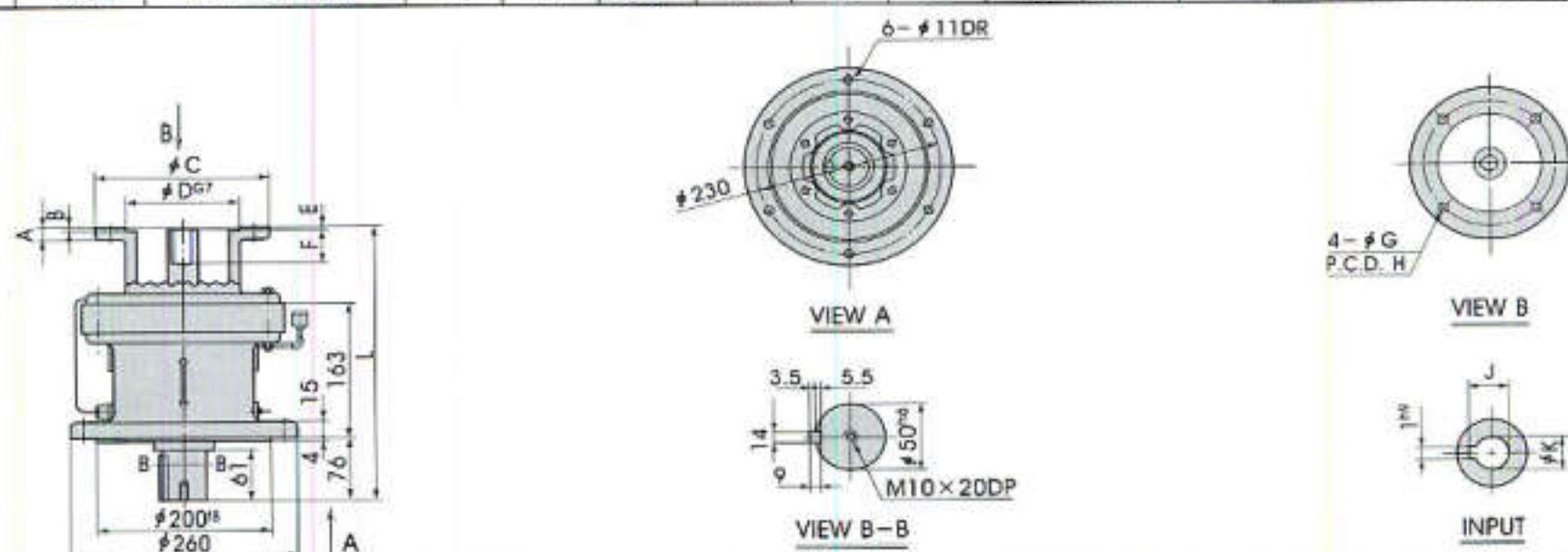
MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.2	71	MJV02-102-	10	5	160	110	3	41	10	130	5	16.3	14F6	237	18
0.4	71	MJV05-102-	10	5	160	110	3	41	10	130	5	16.3	14F6	237	18
0.75	80	MJV 1-102-	10	5	200	130	3	41	12	165	6	21.8	19F6	237	19

MJV-103



MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.4	71	MJV05-103-	10	5	160	110	3	41	10	130	5	16.3	14F6	273	24
0.75	80	MJV 1-103-	10	5	200	130	3	41	12	165	6	21.8	19F6	273	25
1.5	90L	MJV 2-103-	12	5	200	130	3	52	12	165	8	27.3	24F6	284	25
2.2	100L	MJV 3-103-	15	6	250	180	3	62	15	215	8	31.3	28F6	294	27

MJV-104



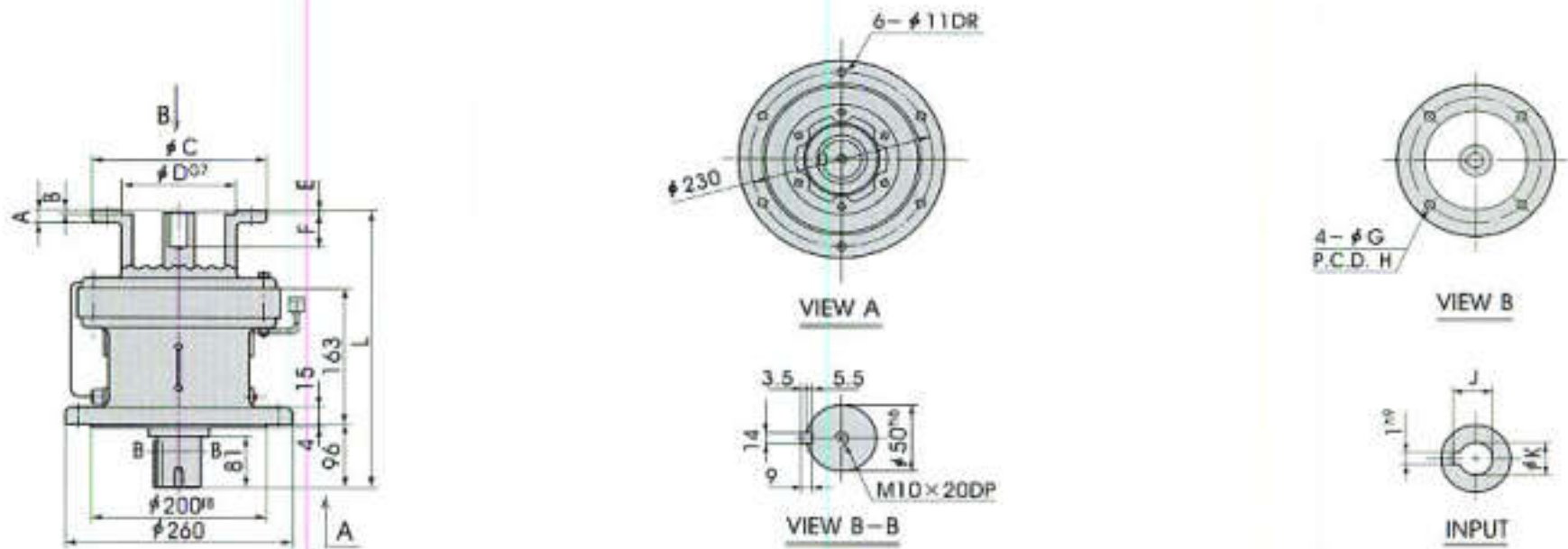
MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.75	80	MJV 1-104-	15	5	200	130	3	41	12	165	6	21.8	19F6	332	45
1.5	90L	MJV 2-104-	15	5	200	130	3	52	12	165	8	27.3	24F6	343	45
2.2	100L	MJV 3-104-	18	6	250	180	3	62	15	215	8	31.3	28F6	353	47
3.7	112M	MJV 5-104-	18	6	250	180	3	62	15	215	8	31.3	28F6	353	47

Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

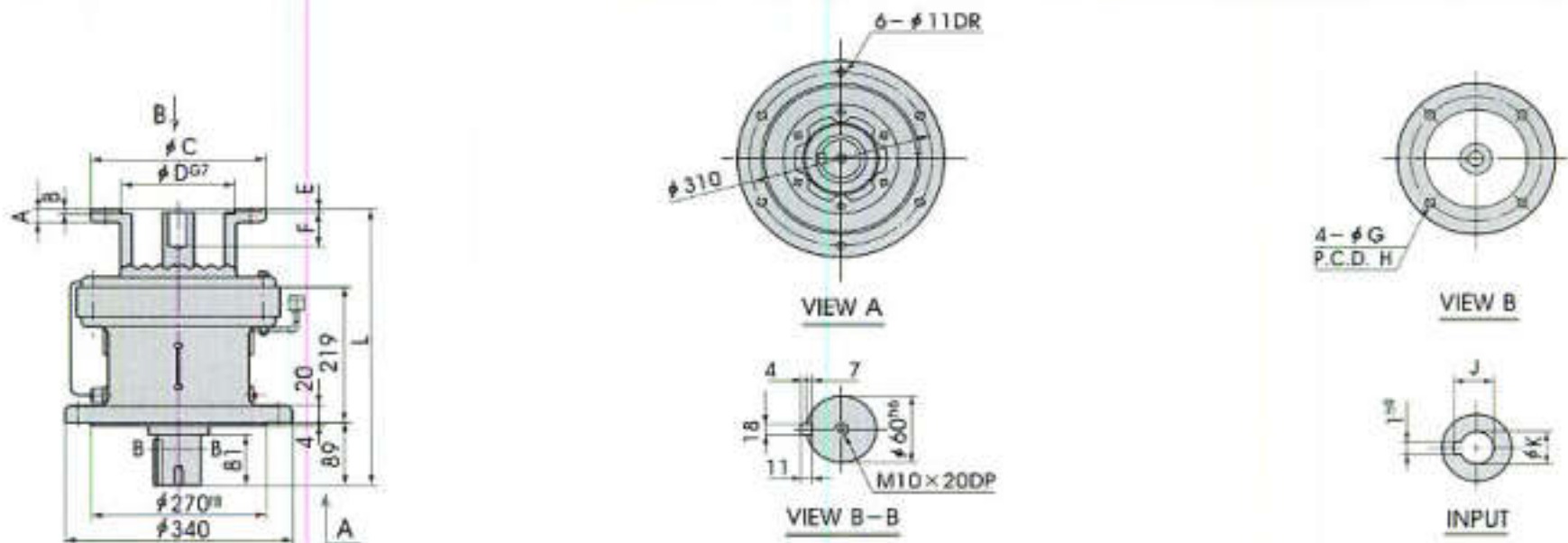
3. Dimensions and specifications are subjected to change without notice.

MJV-105



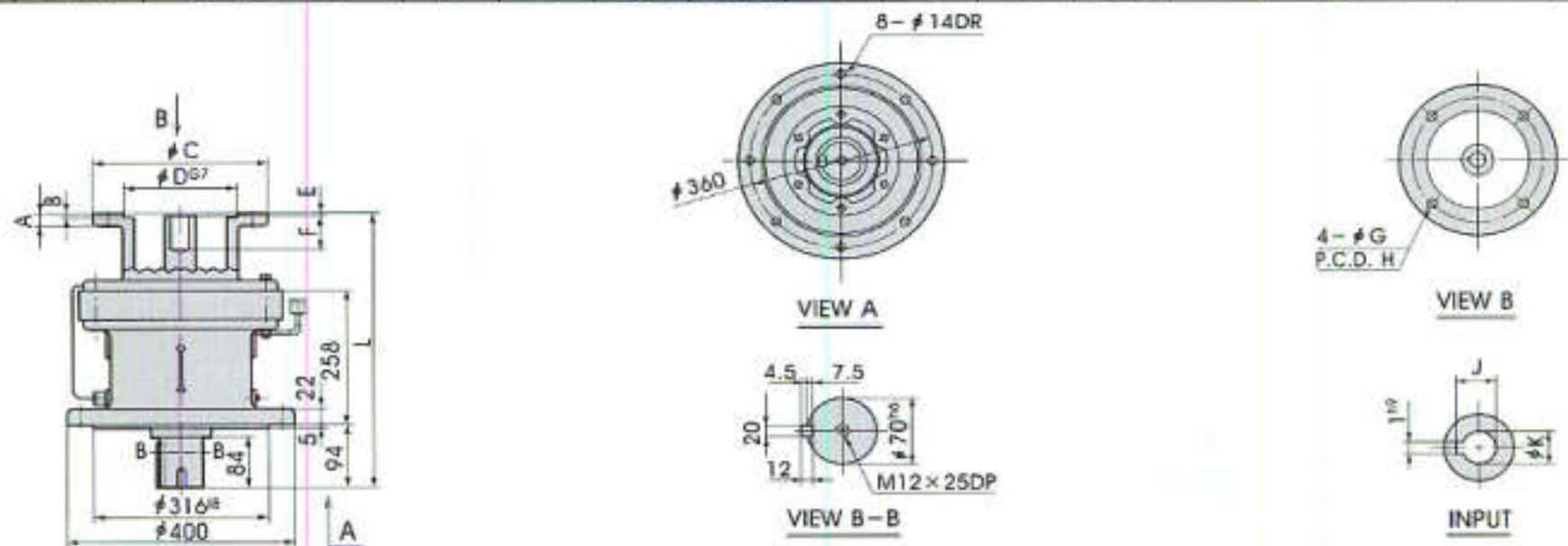
MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
1.5	90L	MJV 2-105-	15	5	200	130	3	52	12	165	8	27.3	24F6	363	47
2.2	100L	MJV 3-105-	18	6	250	180	3	62	15	215	8	31.3	28F6	373	49
3.7	112M	MJV 5-105-	18	6	250	180	3	62	15	215	8	31.3	28F6	373	49

MJV-106



MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
2.2	100L	MJV 3-106-	18	6	250	180	3	62	15	215	8	31.3	28F6	420	88
3.7	112M	MJV 5-106-	18	6	250	180	3	62	15	215	8	31.3	28F6	420	88
5.5	132S	MJV 8-106-	18	6	300	230	4	78	15	265	10	41.3	38F7	437	98
7.5	132M	MJV10-106-	18	6	300	230	4	78	15	265	10	41.3	38F7	437	98

MJV-107



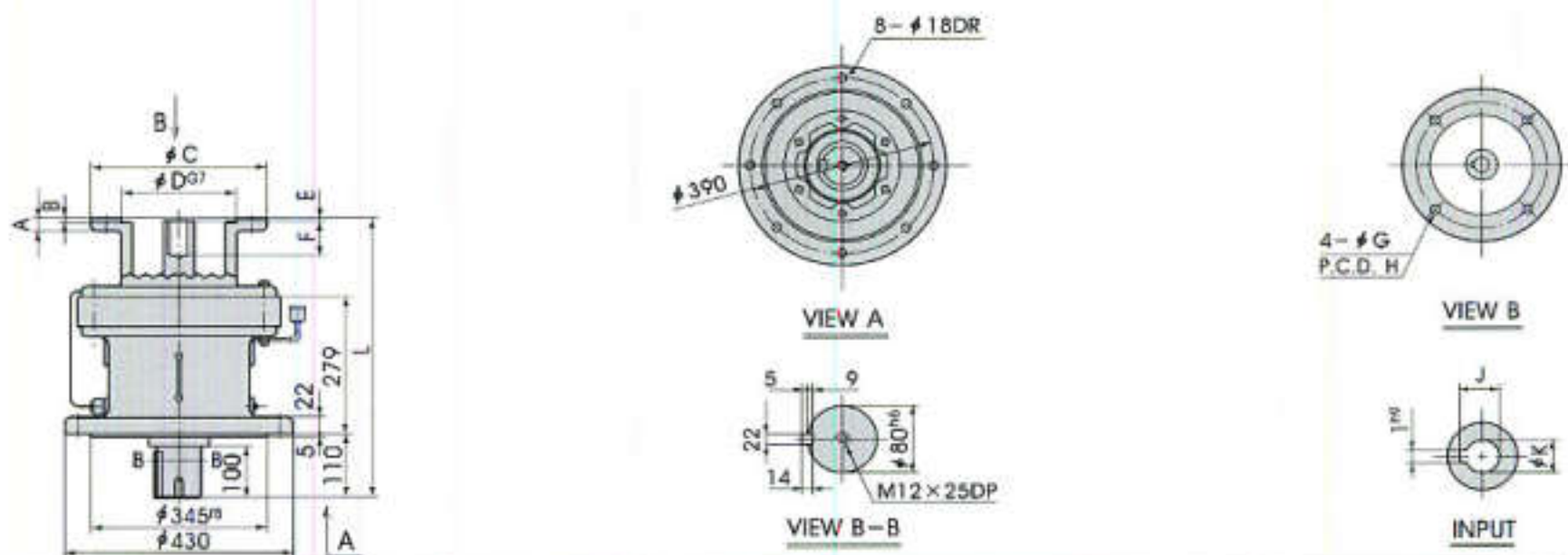
MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
3.7	112M	MJV 5-107-	18	6	250	180	3	62	15	215	8	31.3	28F6	469	120
5.5	132S	MJV 8-107-	22	6	300	230	4	78	15	265	10	41.3	38F7	499	126
7.5	132M	MJV10-107-	22	6	300	230	4	78	15	265	10	41.3	38F7	499	126
11	160M	MJV15-107-	22	6	350	250	15	98	19	300	12	45.3	42F7	530	138
15	160L	MJV20-107-	22	6	350	250	15	98	19	300	12	45.3	42F7	530	138

Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

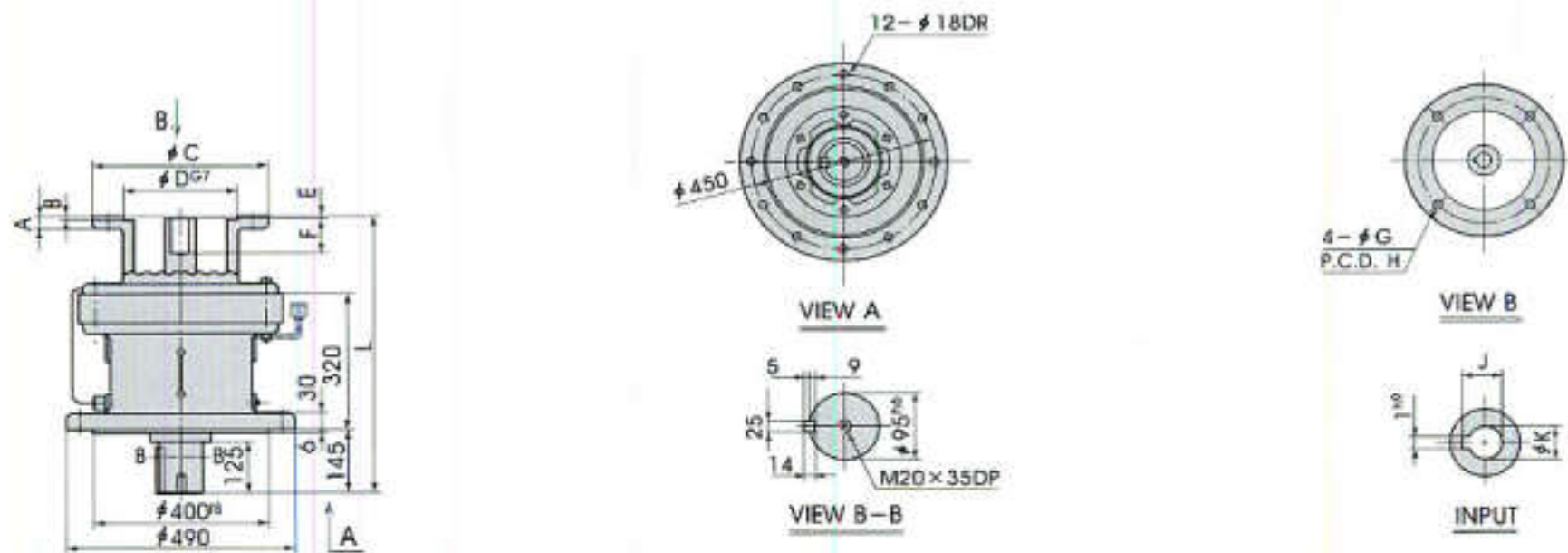
3. Dimensions and specifications are subjected to change without notice.

MJV-108



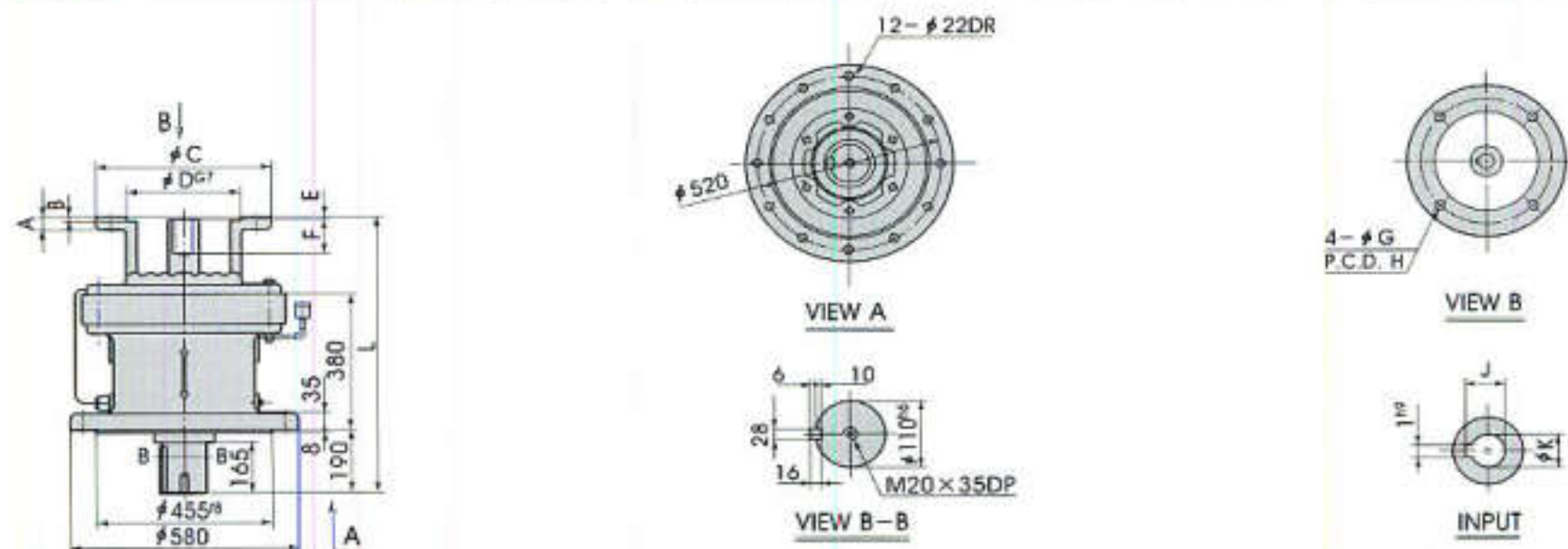
MOTOR			D I M E N S I O N S												W(kg)
KW	FRAME	MODEL NO.	A	B	C	D	E	F	G	H	I	J	K	L	
5.5	132S	MJV 8-108-	20	6	300	230	4	78	15	265	10	41.3	38F7	530	163
7.5	132M	MJV10-108-	20	6	300	230	4	78	15	265	10	41.3	38F7	530	163
11	160M	MJV15-108-	22	6	350	250	15	98	19	300	12	45.3	42F7	561	172
15	160L	MJV20-108-	22	6	350	250	15	98	19	300	12	45.3	42F7	561	172

MJV-109



MOTOR			D I M E N S I O N S												W(kg)
KW	FRAME	MODEL NO.	A	B	C	D	E	F	G	H	I	J	K	L	
7.5	132M	MJV10-109-	20	6	300	230	4	78	15	265	10	41.3	38F7	608	278
11	160M	MJV15-109-	22	6	350	250	15	98	19	300	12	45.3	42F7	639	289
15	160L	MJV20-109-	22	6	350	250	15	98	19	300	12	45.3	42F7	639	289
22	180M	MJV30-109-	22	6	400	300	15	98	19	350	14	51.8	48F7	639	297

MJV-110



MOTOR			D I M E N S I O N S												W(kg)
KW	FRAME	MODEL NO.	A	B	C	D	E	F	G	H	I	J	K	L	
11	160M	MJV15-110-	25	6	350	250	20	95	19	300	12	45.3	42F7	750	394
15	160L	MJV20-110-	25	6	350	250	20	95	19	300	12	45.3	42F7	750	394
22	180M	MJV30-110-	25	6	400	300	20	95	19	350	14	51.8	48F7	750	410
30	180L	MJV40-110-	25	6	400	300	20	95	19	350	16	60	55F7	750	410

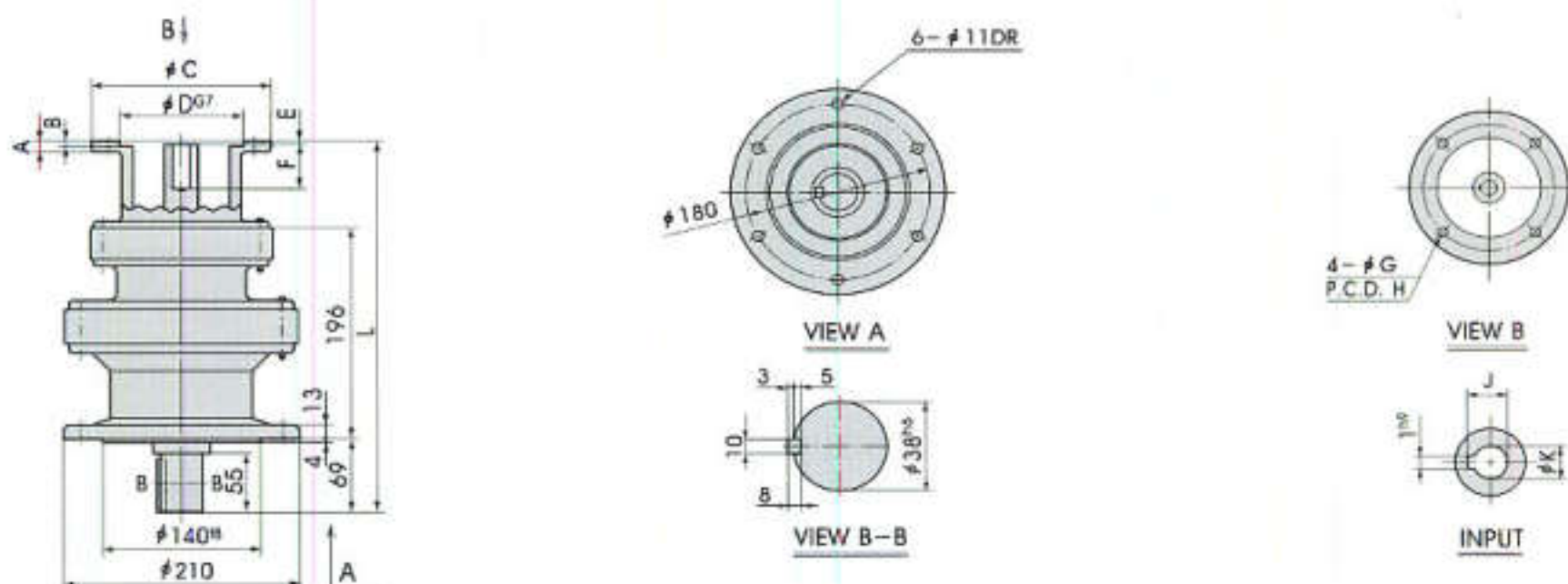
Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_8 or F_7

2. Key KS B 1311-84 Parallel Key

3. Dimensions and specifications are subjected to change without notice.

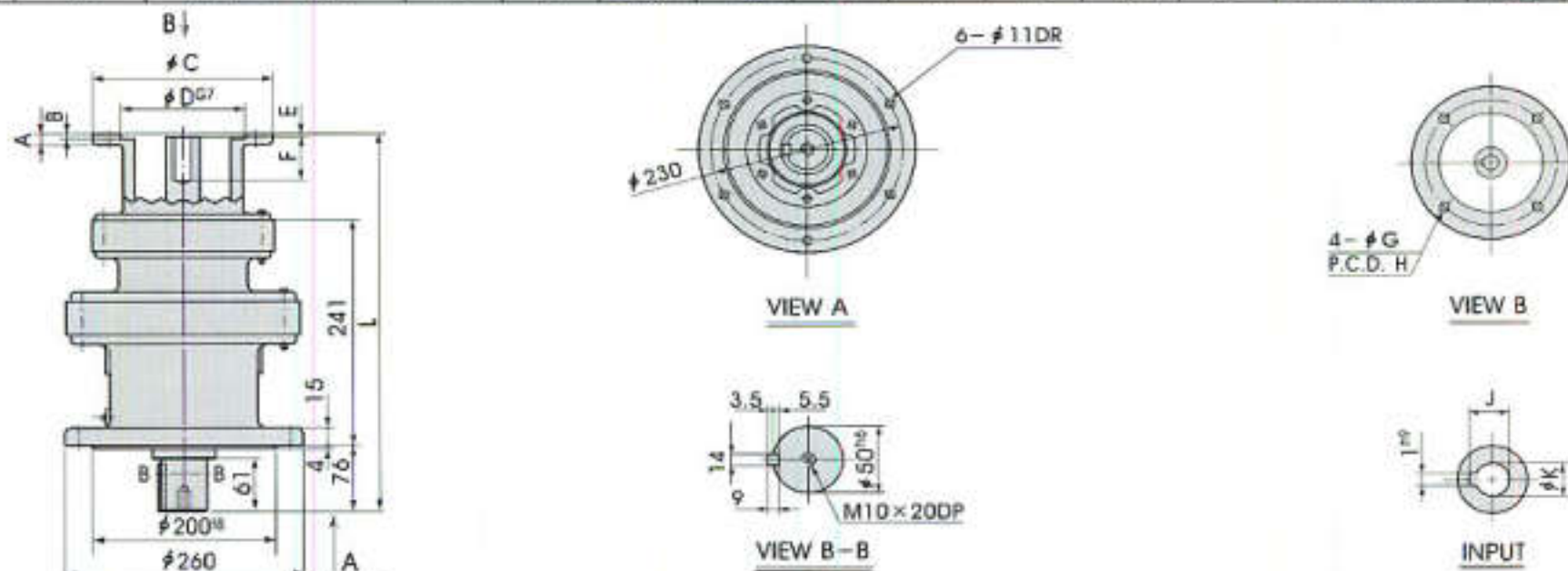
4-7) DIMENSIONS : MJV Double Reduction Type

MJV-232



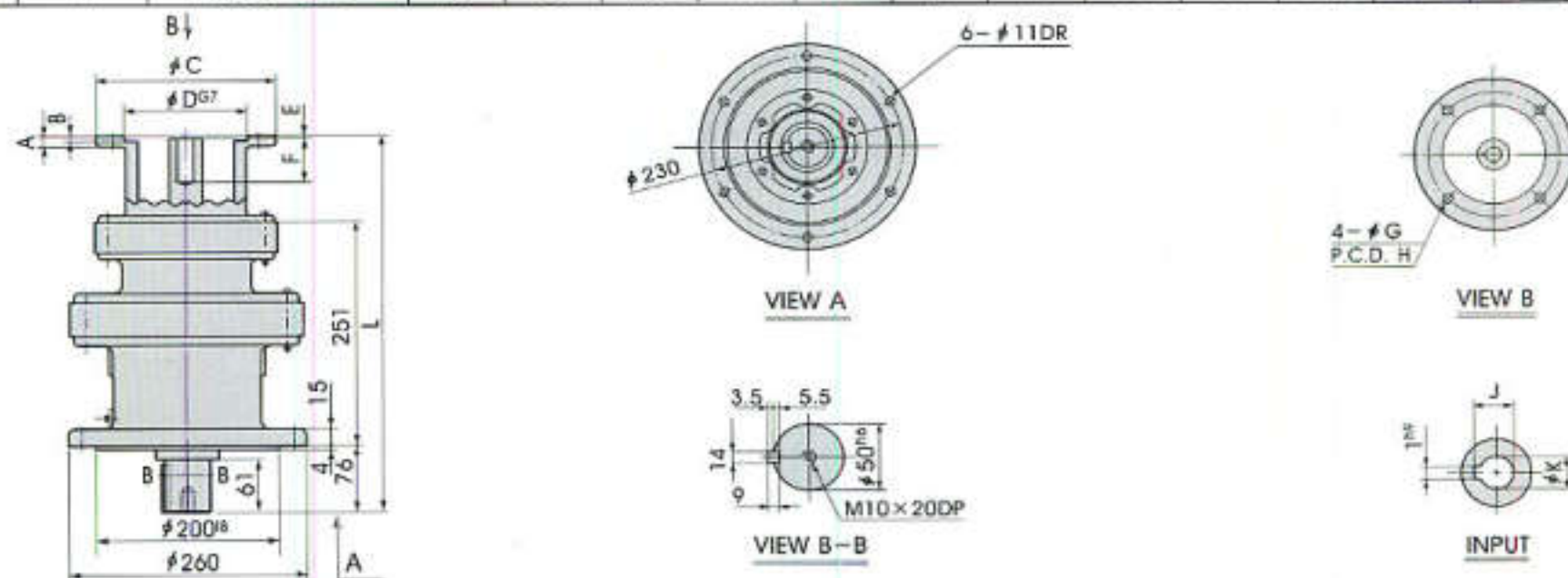
MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.2	71	MJV02-232-	10	5	160	110	3	41	10	130	5	16.3	14F6	346	37
0.4	71	MJV05-232-	10	5	160	110	3	41	10	130	5	16.3	14F6	346	38
0.75	80	MJV 1-232-	10	5	200	130	3	41	12	165	6	21.8	19F6	346	38

MJV-242



MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.2	71	MJV02-242-	10	5	160	110	3	41	10	130	5	16.3	14F6	398	51
0.4	71	MJV05-242-	10	5	160	110	3	41	10	130	5	16.3	14F6	398	51

MJV-243



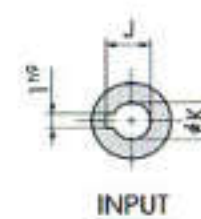
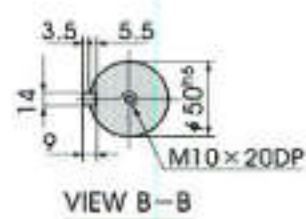
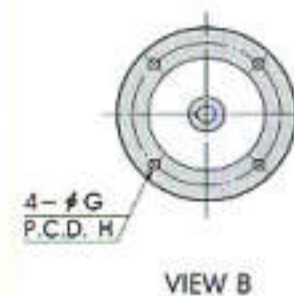
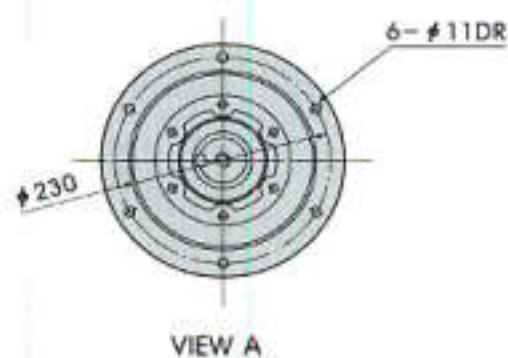
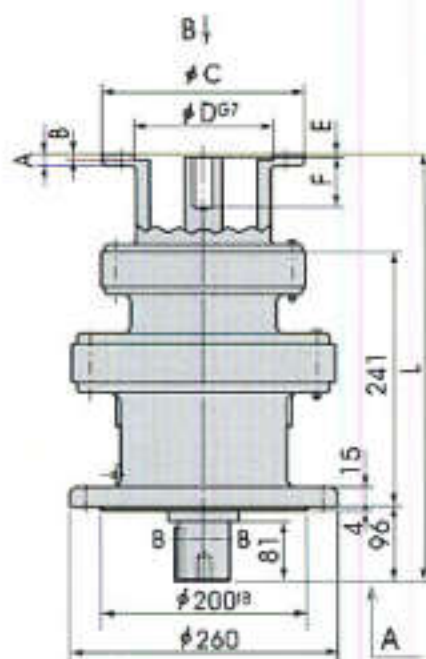
MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.75	80	MJV 1-243-	10	5	200	130	3	41	12	165	6	21.8	19F6	411	55
1.5	90L	MJV 2-243-	10	6	200	130	3	52	12	165	8	27.3	24F6	422	55

Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

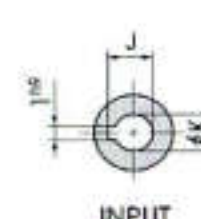
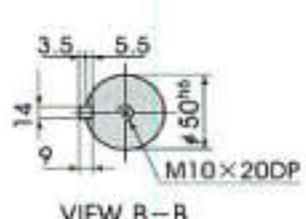
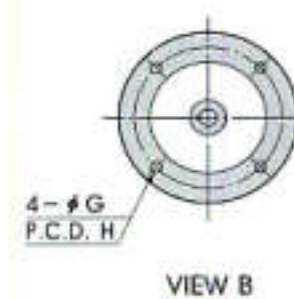
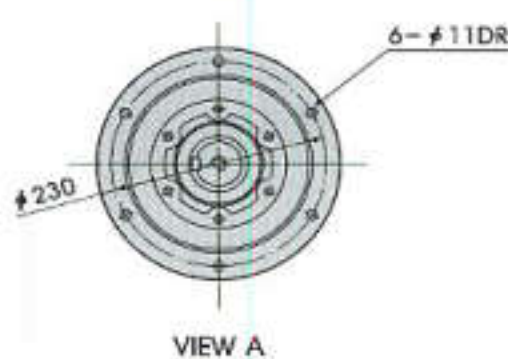
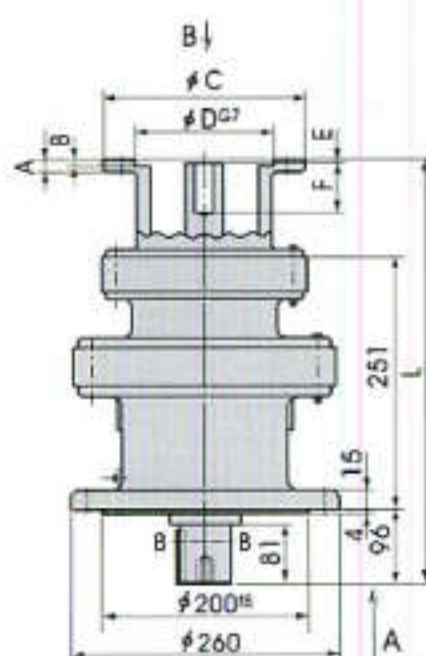
3. Dimensions and specifications are subjected to change without notice.

MJV-252



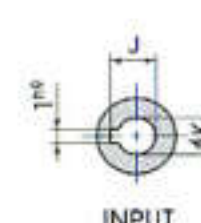
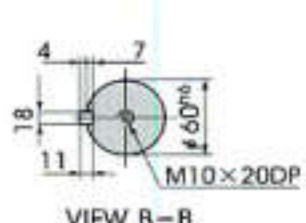
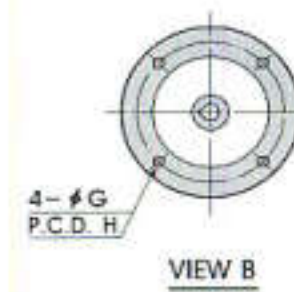
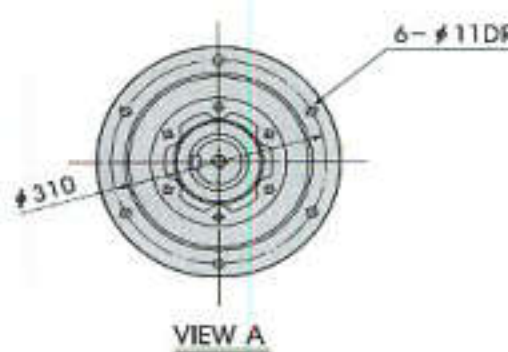
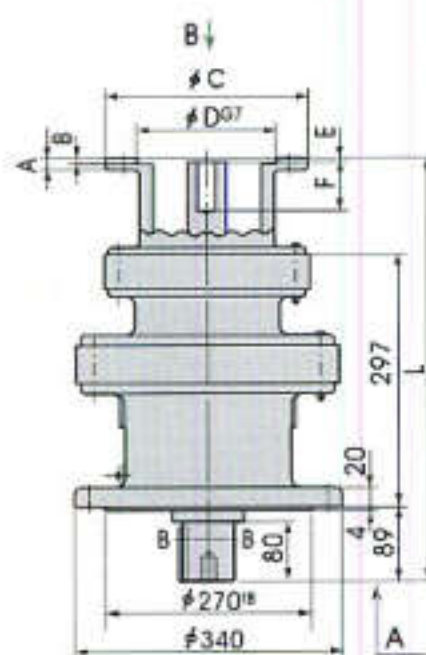
MOTOR			DIMENSIONS												W(kg)
KW	FRAME	MODEL NO.	A	B	C	D	E	F	G	H	I	J	K	L	
0.2	71	MJV02-252-	10	5	160	110	3	41	10	130	5	16.3	14F6	418	52
0.4	71	MJV05-252-	10	5	160	110	3	41	10	130	5	16.3	14F6	418	52

MJV-253



MOTOR			DIMENSIONS												W(kg)
KW	FRAME	MODEL NO.	A	B	C	D	E	F	G	H	I	J	K	L	
0.75	80	MJV 1-253-	10	5	200	130	3	41	12	165	6	21.8	19F6	431	56

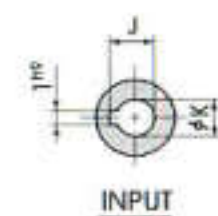
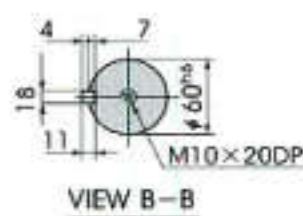
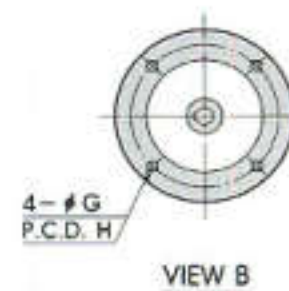
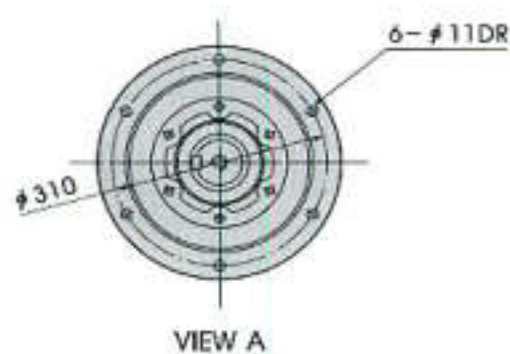
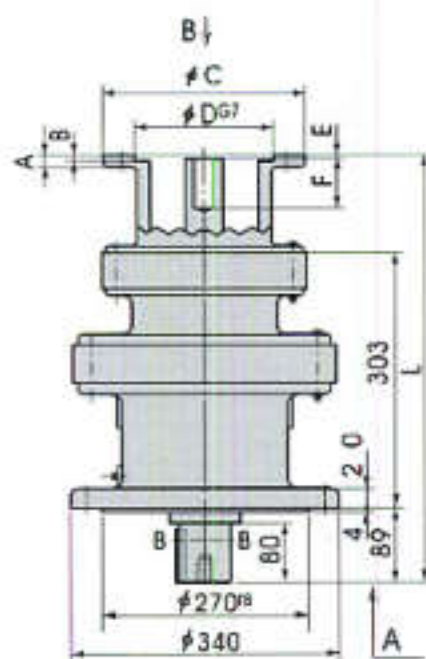
MJV-262



MOTOR			DIMENSIONS												W(kg)
KW	FRAME	MODEL NO.	A	B	C	D	E	F	G	H	I	J	K	L	
0.2	71	MJV02-262-	10	5	160	110	3	41	10	130	5	16.3	14F6	467	101
0.4	71	MJV05-262-	10	5	160	110	3	41	10	130	5	16.3	14F6	467	101

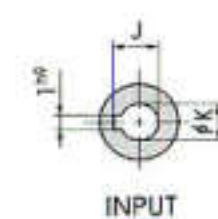
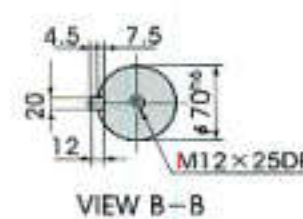
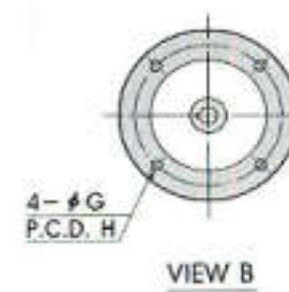
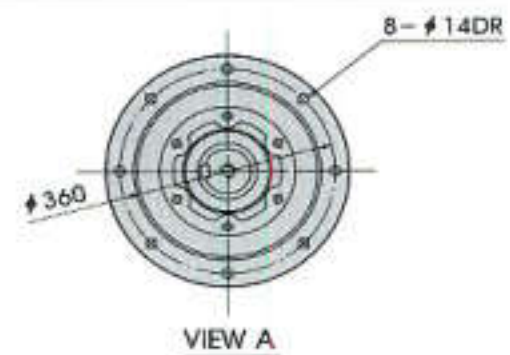
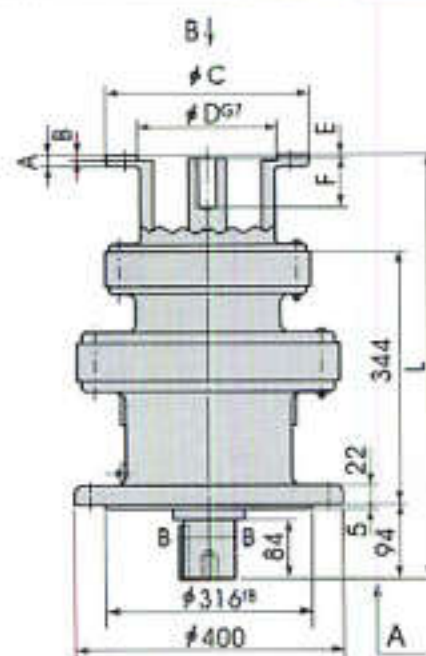
- Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7
2. Key KS B 1311-84 Parallel Key
3. Dimensions and specifications are subjected to change without notice.

MJV-263



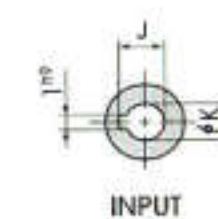
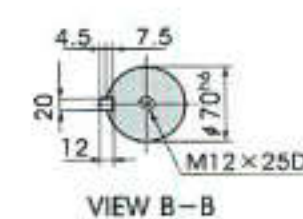
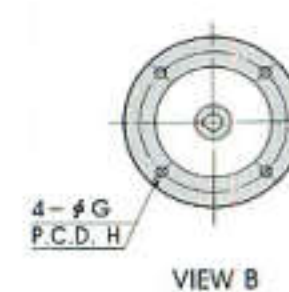
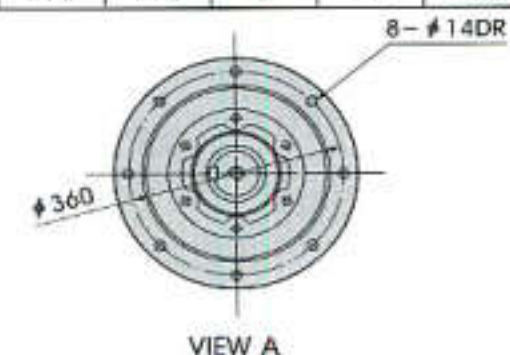
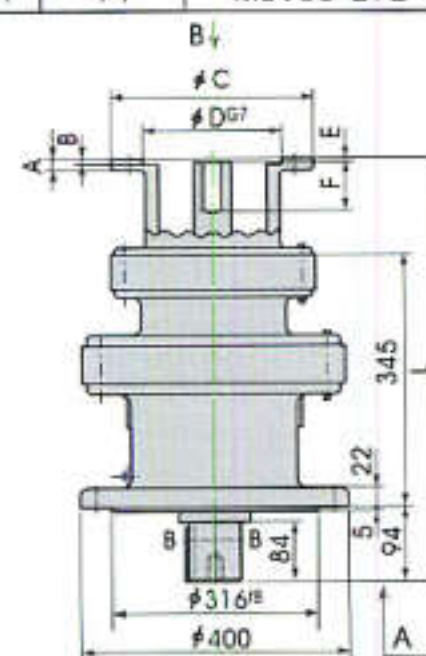
MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.4	71	MJV05-263-	10	5	160	110	3	41	10	130	5	16.3	14F6	476	108
0.75	80	MJV 1-263-	10	5	200	130	3	41	12	165	6	21.8	19F6	476	109
1.5	90L	MJV 2-263-	12	5	200	130	3	52	12	165	8	27.3	24F6	487	109
2.2	100L	MJV 3-263-	15	6	250	180	3	62	15	215	8	31.3	28F6	497	110

MJV-272



MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.2	71	MJV02-272-	10	5	160	110	3	41	10	130	5	16.3	14F6	519	130
0.4	71	MJV05-272-	10	5	160	110	3	41	10	130	5	16.3	14F6	519	130

MJV-273



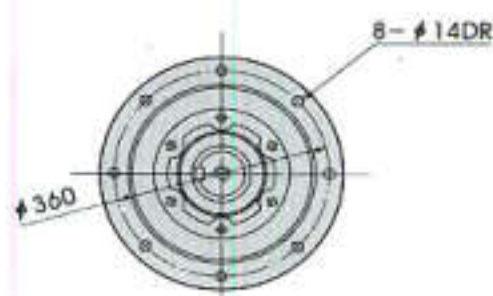
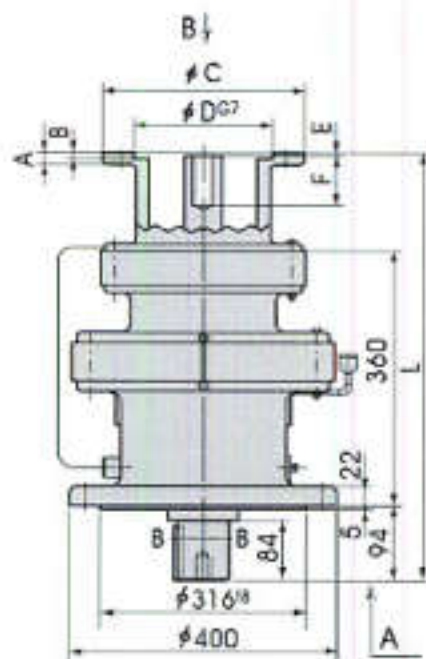
MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.75	80	MJV 1-273-	10	5	200	130	3	41	12	165	6	21.8	19F6	523	142
1.5	90L	MJV 2-273-	12	5	200	130	3	52	12	165	8	27.3	24F6	534	142
2.2	100L	MJV 3-273-	15	6	250	180	3	62	15	215	8	31.3	28F6	544	142

Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

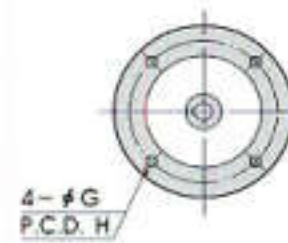
2. Key KS B 1311-84 Parallel Key

3. Dimensions and specifications are subjected to change without notice.

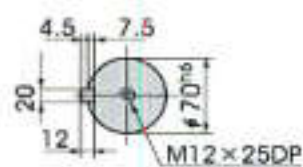
MJV-274



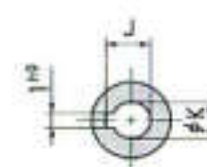
VIEW A



VIEW B



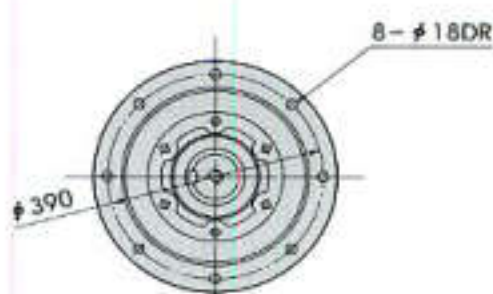
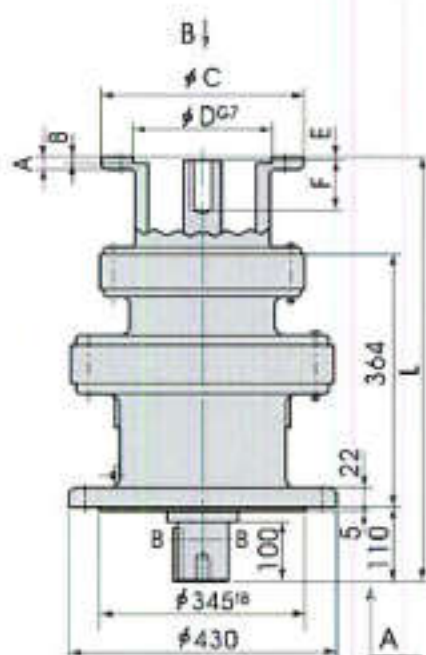
VIEW B-B



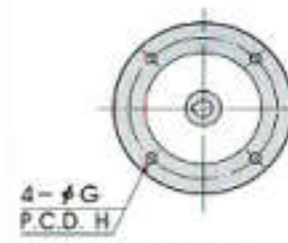
INPUT

MOTOR		MODEL NO.	D I M E N S I O N S													W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L		
3.7	112M	MJV 5-274-	18	6	250	180	3	62	15	215	8	31.3	28F6	568	158	

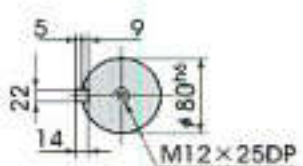
MJV-282



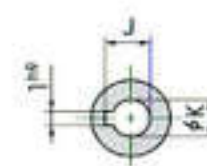
VIEW A



VIEW B



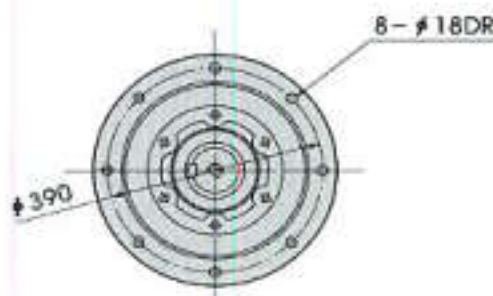
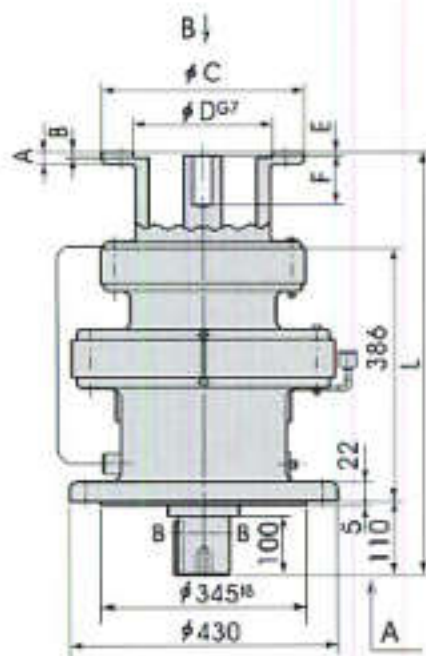
VIEW B-B



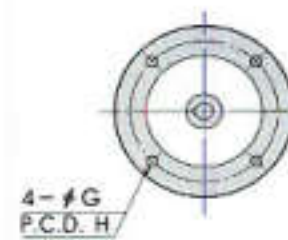
INPUT

MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.4	71	MJV05-282-	10	5	160	110	3	41	10	130	5	16.3	14F6	555	165

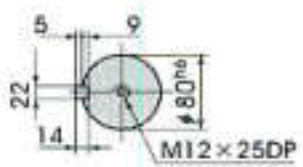
MJV-284



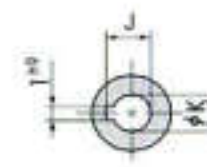
VIEW A



VIEW B



VIEW B-B



INPUT

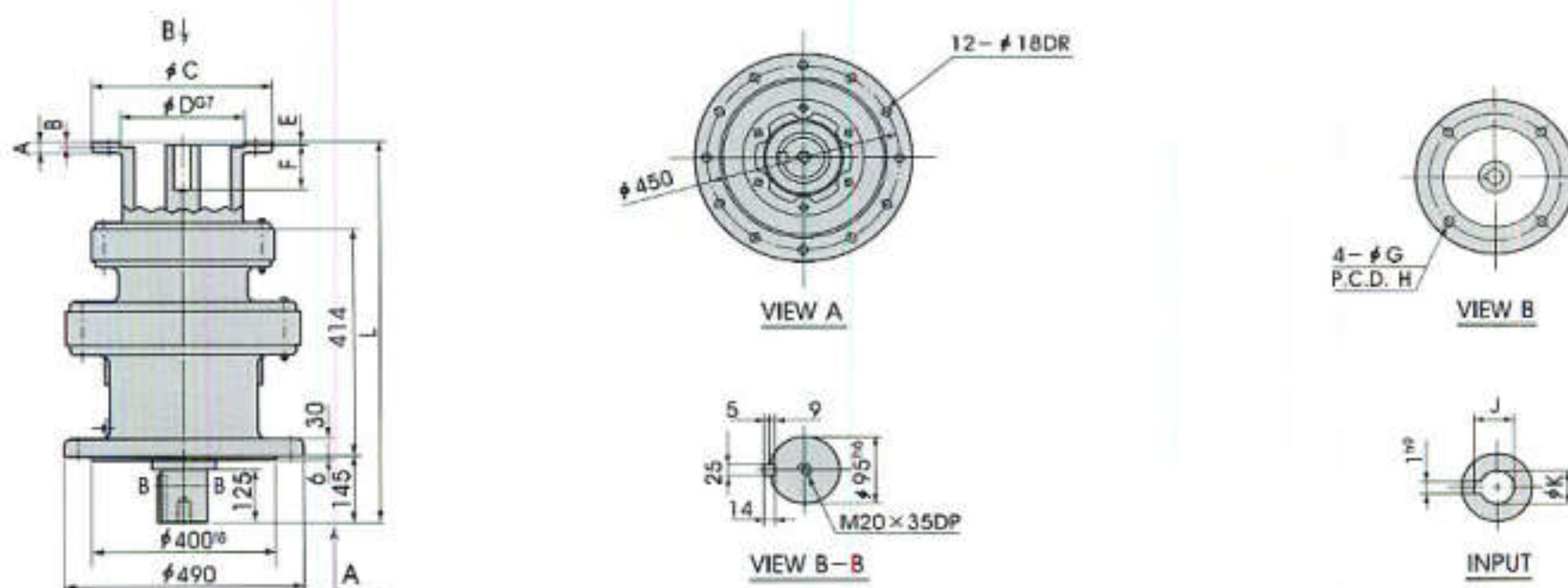
MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.75	80	MJV 1-284-	15	5	200	130	3	41	12	165	6	21.8	19F6	589	189
1.5	90L	MJV 2-284-	15	5	200	130	3	52	12	165	8	27.3	24F6	600	189
2.2	100L	MJV 3-284-	18	6	250	180	3	62	15	215	8	31.3	28F6	610	191
3.7	112M	MJV 5-284-	18	6	250	180	3	62	15	215	8	31.3	28F6	610	191

Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

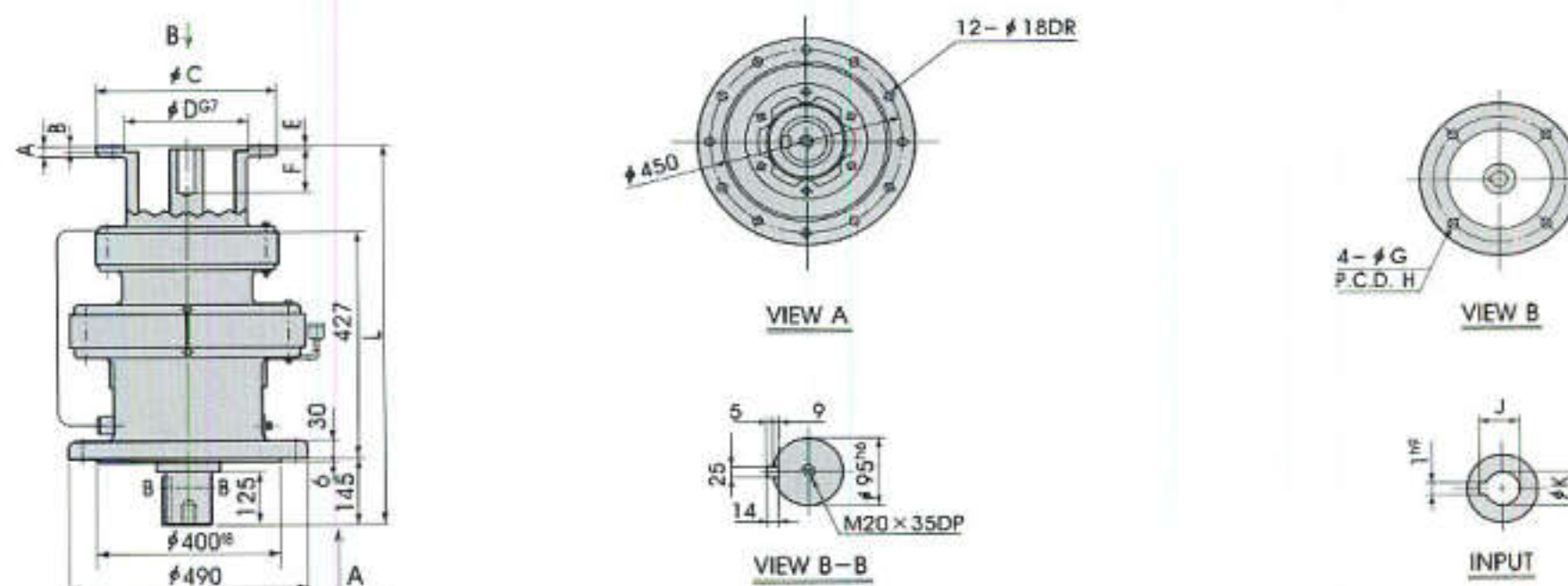
3. Dimensions and specifications are subjected to change without notice.

MJV-293



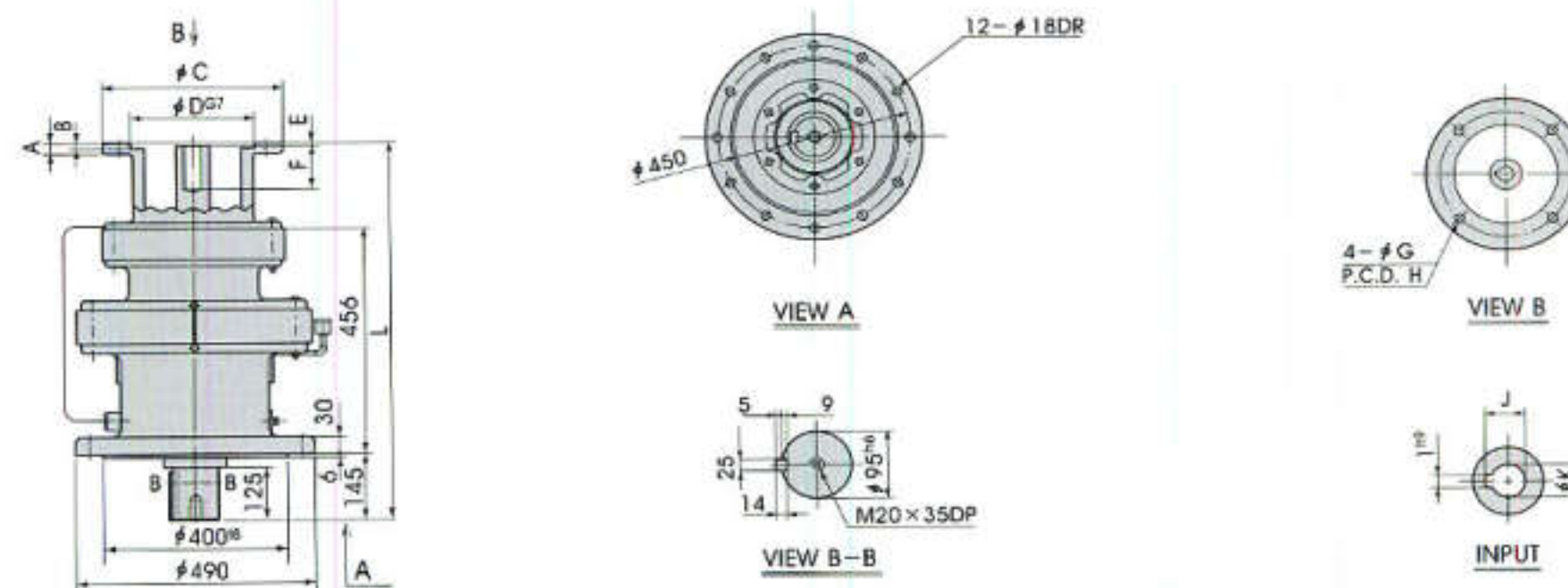
MOTOR		MODEL NO.	D I M E N S I O N S													W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L		
0.75	80	MJV 1-293-	10	5	200	130	3	41	12	165	6	21.8	19F6	643	259	
1.5	90L	MJV 2-293-	12	5	200	130	3	52	12	165	8	27.3	24F6	654	259	

MJV-294



MOTOR		MODEL NO.	D I M E N S I O N S													W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L		
1.5	90L	MJV 2-294-	15	5	200	130	3	52	12	165	8	27.8	24F6	676	268	
2.2	100L	MJV 3-294-	18	6	250	180	3	62	15	215	8	31.3	28F6	686	270	
3.7	112M	MJV 5-294-	18	6	250	180	3	62	15	215	8	31.3	28F6	686	270	

MJV-296



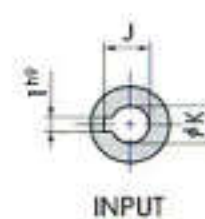
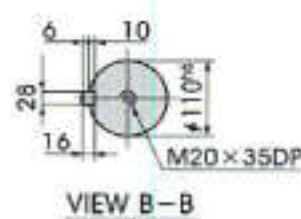
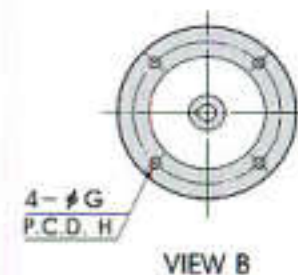
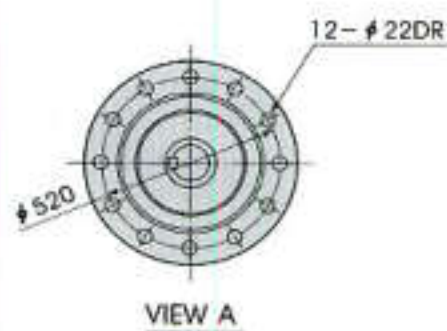
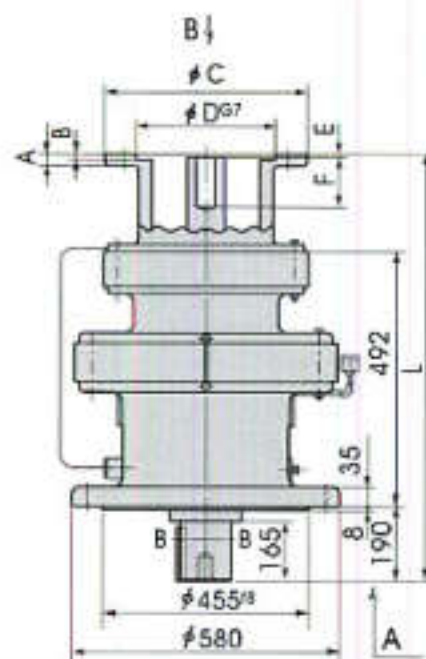
MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
7.5	132M	MJV10-296-	18	6	300	230	4	78	15	265	10	41.3	38F7	730	317

Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

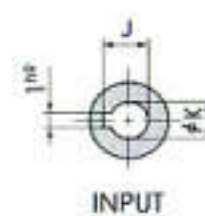
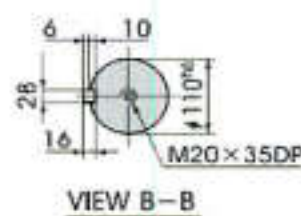
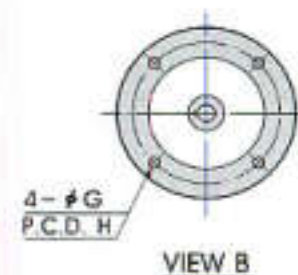
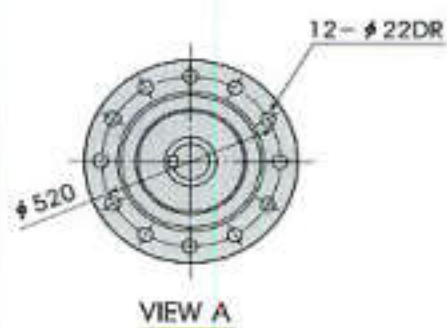
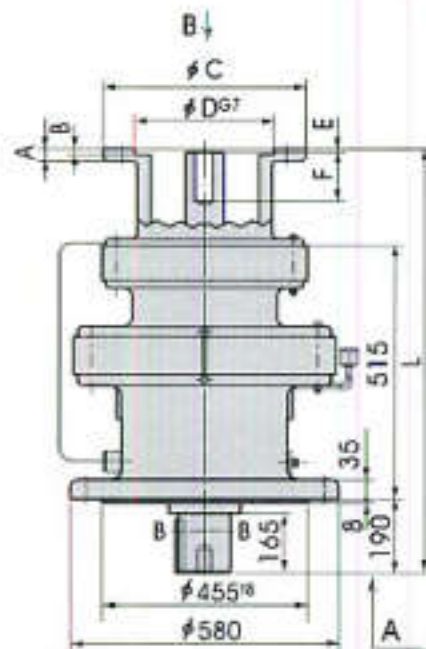
3. Dimensions and specifications are subjected to change without notice.

MJV-2104



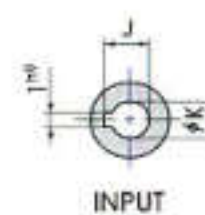
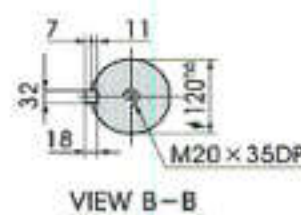
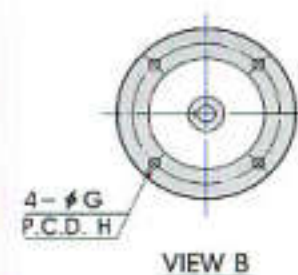
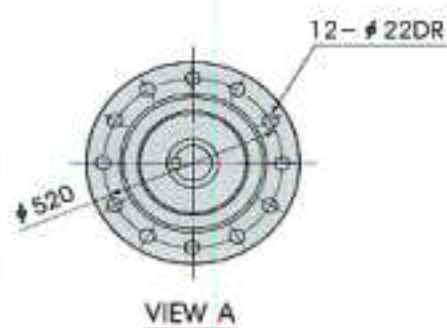
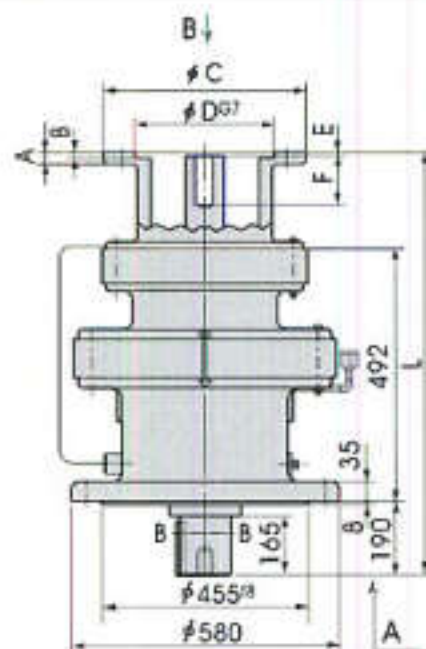
MOTOR			DIMENSIONS												W(kg)
KW	FRAME	MODEL NO.	A	B	C	D	E	F	G	H	I	J	K	L	
1.5	90L	MJV 2-2104-	15	5	200	130	3	52	12	165	8	27.3	24F6	786	422
2.2	100L	MJV 3-2104-	18	6	250	180	3	62	15	215	8	31.3	28F6	796	424
3.7	112M	MJV 5-2104-	18	6	250	180	3	62	15	215	8	31.3	28F6	796	424

MJV-2106



MOTOR			DIMENSIONS												W(kg)
KW	FRAME	MODEL NO.	A	B	C	D	E	F	G	H	I	J	K	L	
5.5	132S	MJV 8-2106-	22	6	300	230	4	78	15	265	10	41.3	38F7	834	435
7.5	132M	MJV10-2106-	22	6	300	230	4	78	15	265	10	41.3	38F7	834	435

MJV-2224



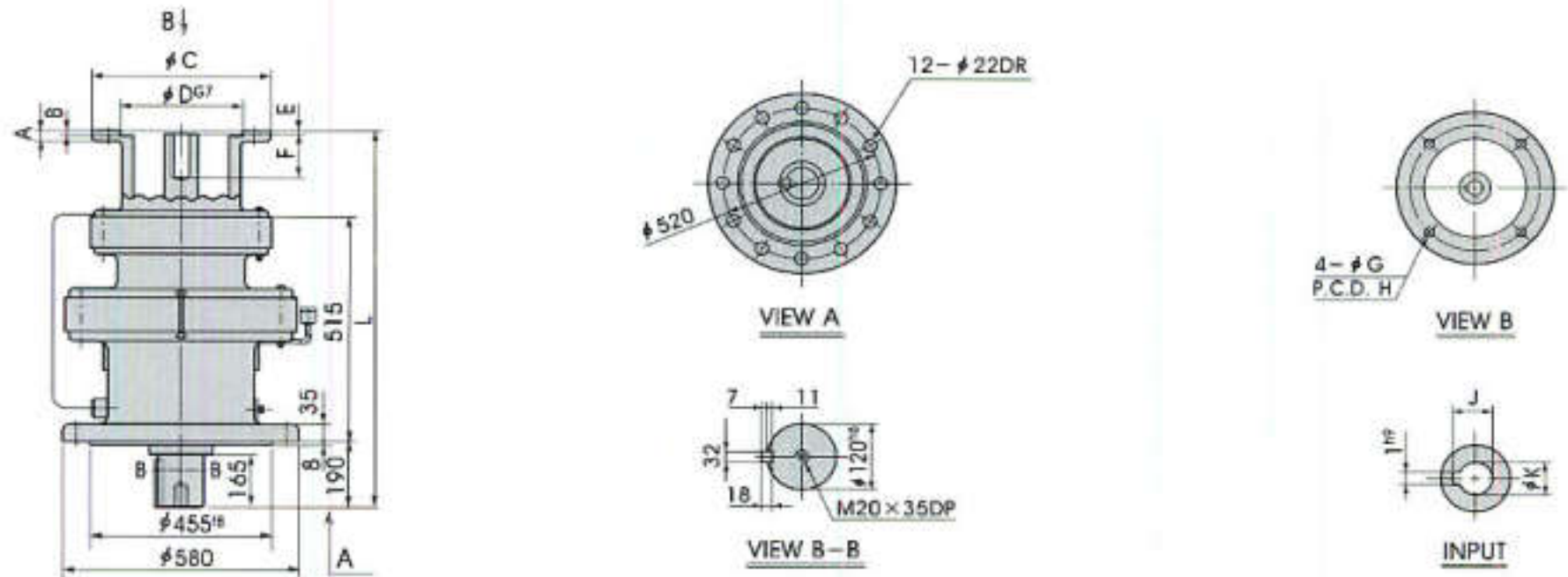
MOTOR			DIMENSIONS												W(kg)
KW	FRAME	MODEL NO.	A	B	C	D	E	F	G	H	I	J	K	L	
1.5	90L	MJV 2-2224-	15	5	200	130	3	52	12	165	8	27.3	24F6	786	427
2.2	100L	MJV 3-2224-	18	6	250	180	3	62	15	215	8	31.3	28F6	796	429
3.7	112M	MJV 5-2224-	18	6	250	180	3	62	15	215	8	31.3	28F6	796	429

Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

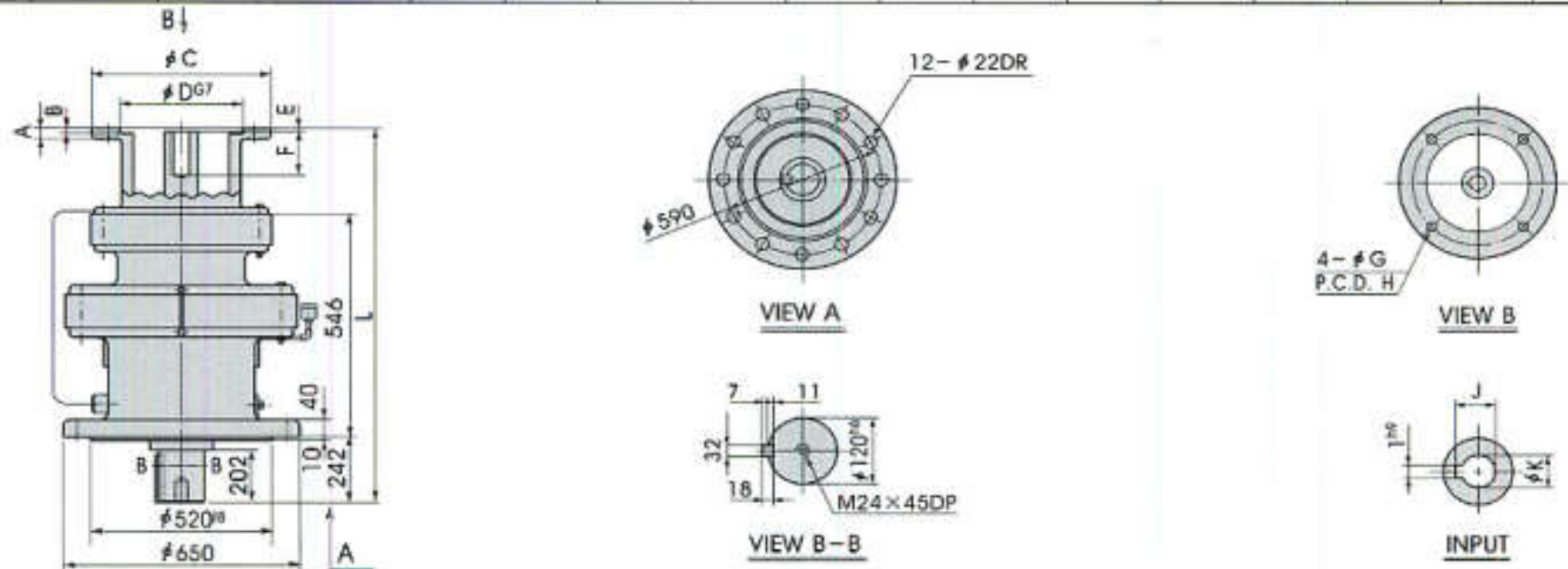
3. Dimensions and specifications are subjected to change without notice.

MJV-2226



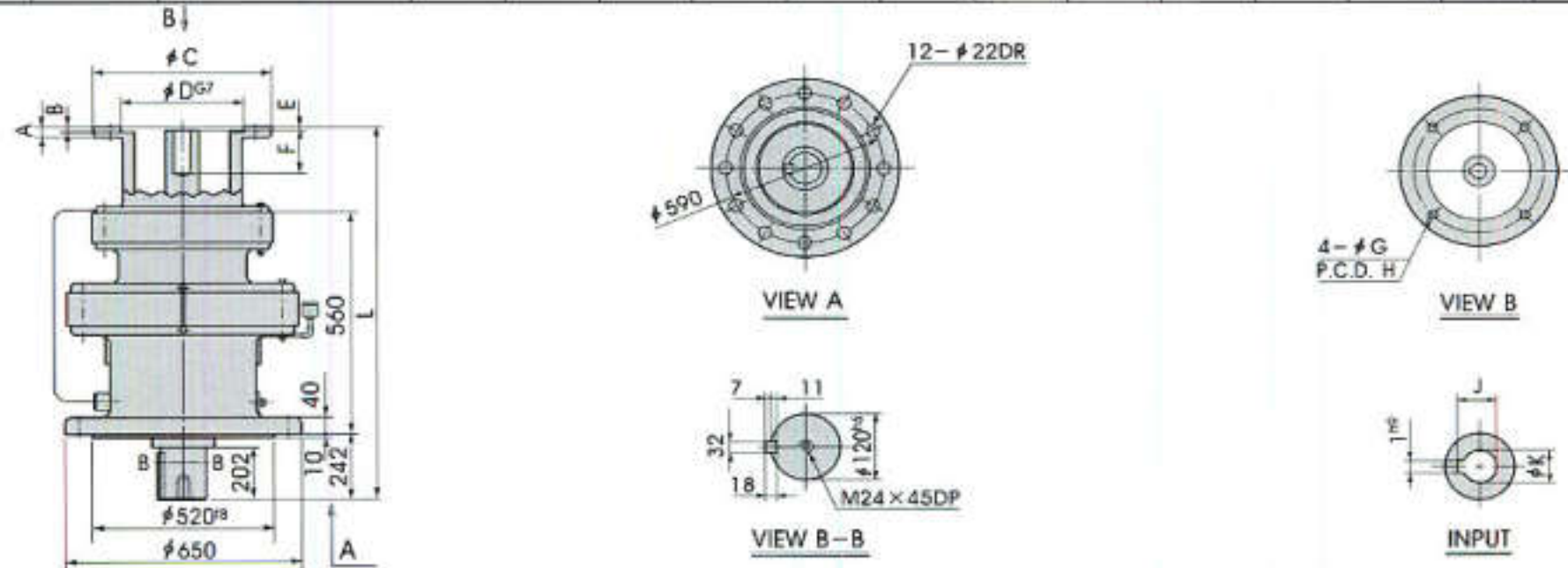
MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
5.5	132S	MJV 8-2226-	22	6	300	230	4	78	15	265	10	41.3	38F7	834	440
7.5	132M	MJV10-2226-	22	6	300	230	4	78	15	265	10	41.3	38F7	834	440

MJV-2116



MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
2.2	100L	MJV 3-2116-	18	6	250	180	3	62	15	215	8	31.3	28F6	900	558
3.7	112M	MJV 5-2116-	18	6	250	180	3	62	15	215	8	31.3	28F6	900	558
5.5	132S	MJV 8-2116-	18	6	300	230	4	78	15	265	10	41.3	38F7	917	563
7.5	132M	MJV10-2116-	18	6	300	230	4	78	15	265	10	41.3	38F7	917	563

MJV-2117



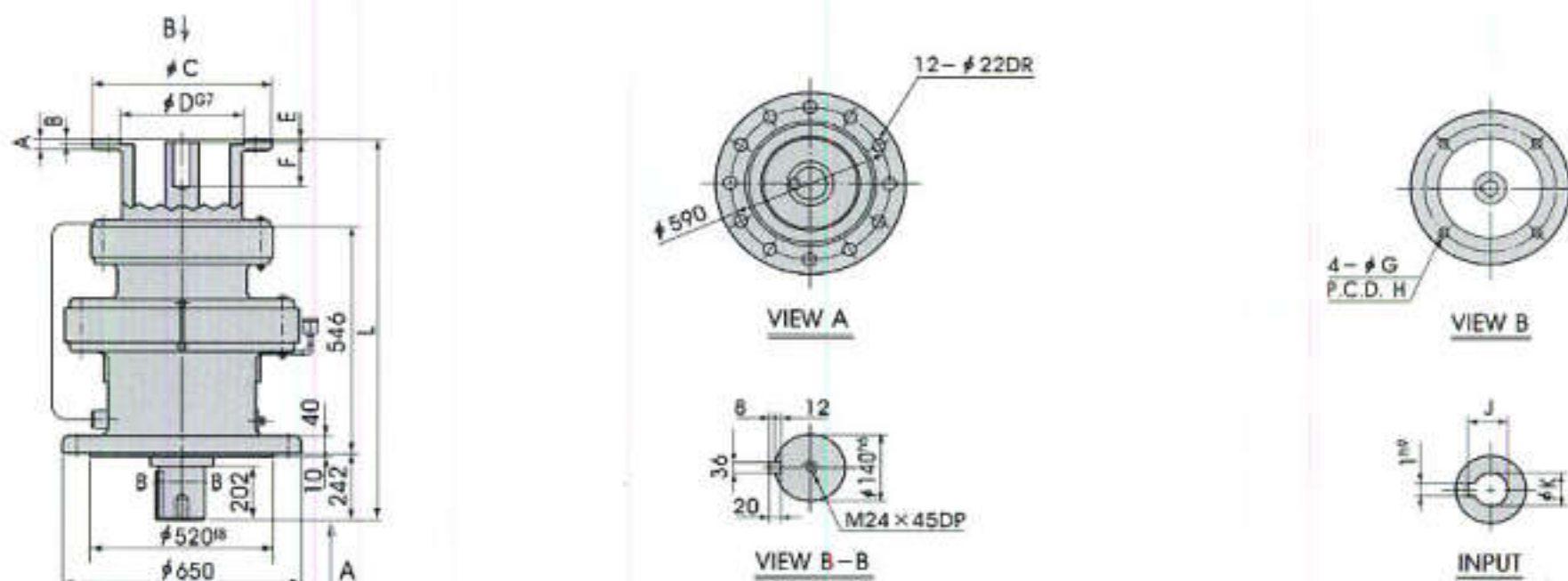
MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
5.5	132S	MJV 8-2117-	22	6	300	230	4	78	15	265	10	41.3	38F7	949	570
7.5	132M	MJV10-2117-	22	6	300	230	4	78	15	265	10	41.3	38F7	949	570
11	160M	MJV15-2117-	22	6	350	250	15	98	19	300	12	45.3	42F7	980	575
15	160L	MJV20-2117-	22	6	350	250	15	98	19	300	12	45.3	42F7	980	575

Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

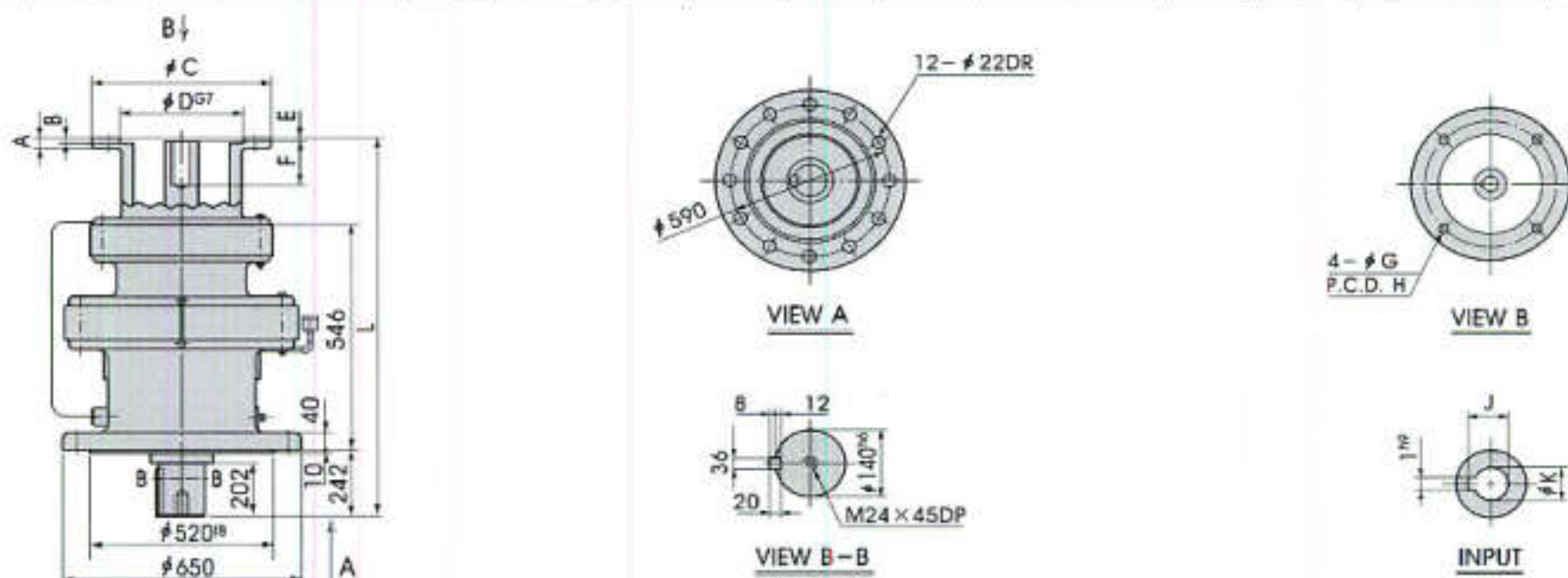
3. Dimensions and specifications are subjected to change without notice.

MJV-2246



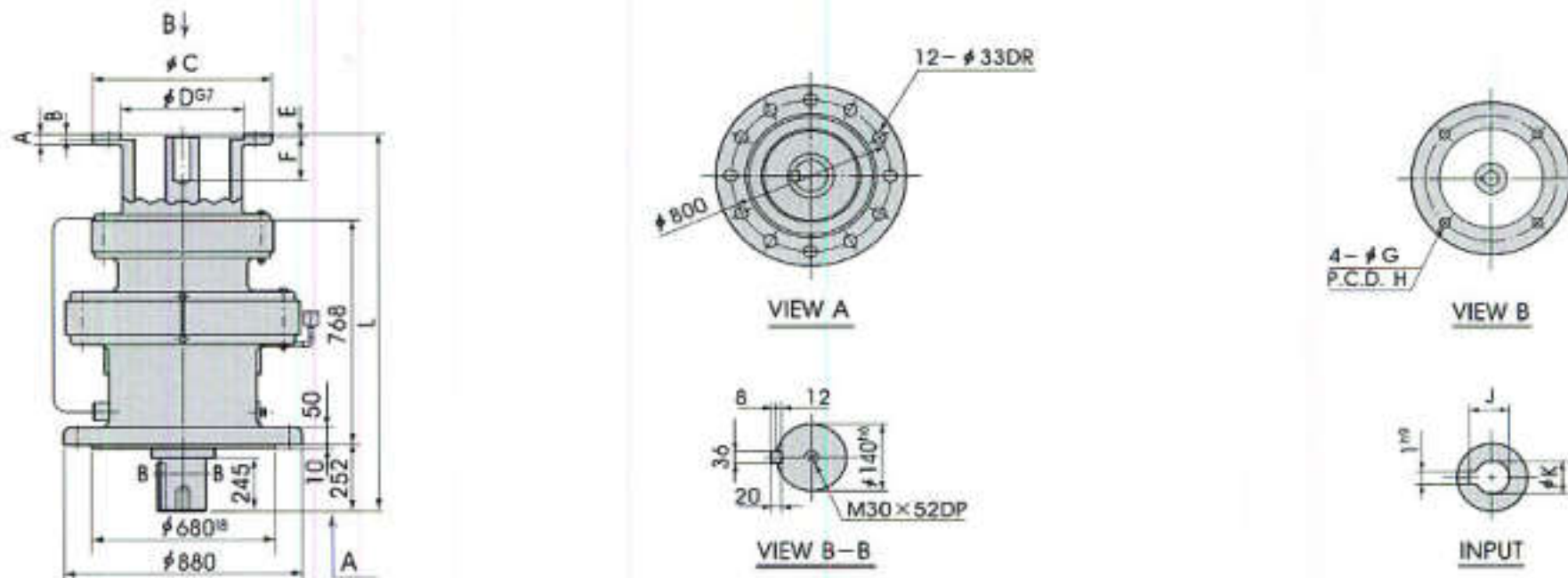
MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
3.7	112M	MJV 5-2246-	18	6	250	180	3	62	15	215	8	31.3	28F6	900	558
5.5	132S	MJV 8-2246-	18	6	300	230	4	78	15	265	10	41.3	38F7	900	573
7.5	132M	MJV10-2246-	18	6	300	230	4	78	15	265	10	41.3	38F7	917	573

MJV-2247



MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
15	160L	MJV20-2247-	22	6	350	250	15	98	19	300	12	45.3	42F7	980	585

MJV-2128



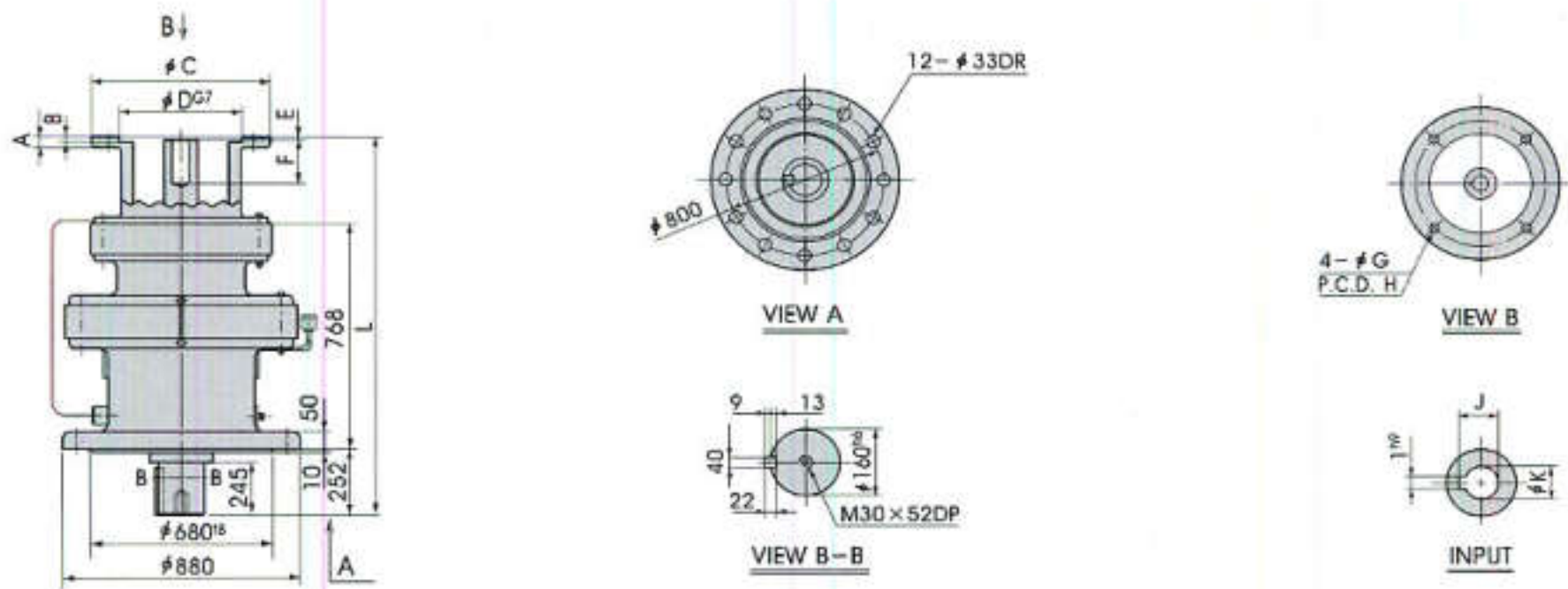
MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
5.5	132S	MJV 8-2128-	20	6	300	230	4	78	15	265	10	41.3	38F7	1162	1094
7.5	132M	MJV10-2128-	20	6	300	230	4	78	15	265	10	41.3	38F7	1162	1094
11	160M	MJV15-2128-	22	6	350	250	15	98	19	300	12	45.3	42F7	1192	1102
15	160L	MJV20-2128-	22	6	350	250	15	98	19	300	12	45.3	42F7	1192	1102

Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

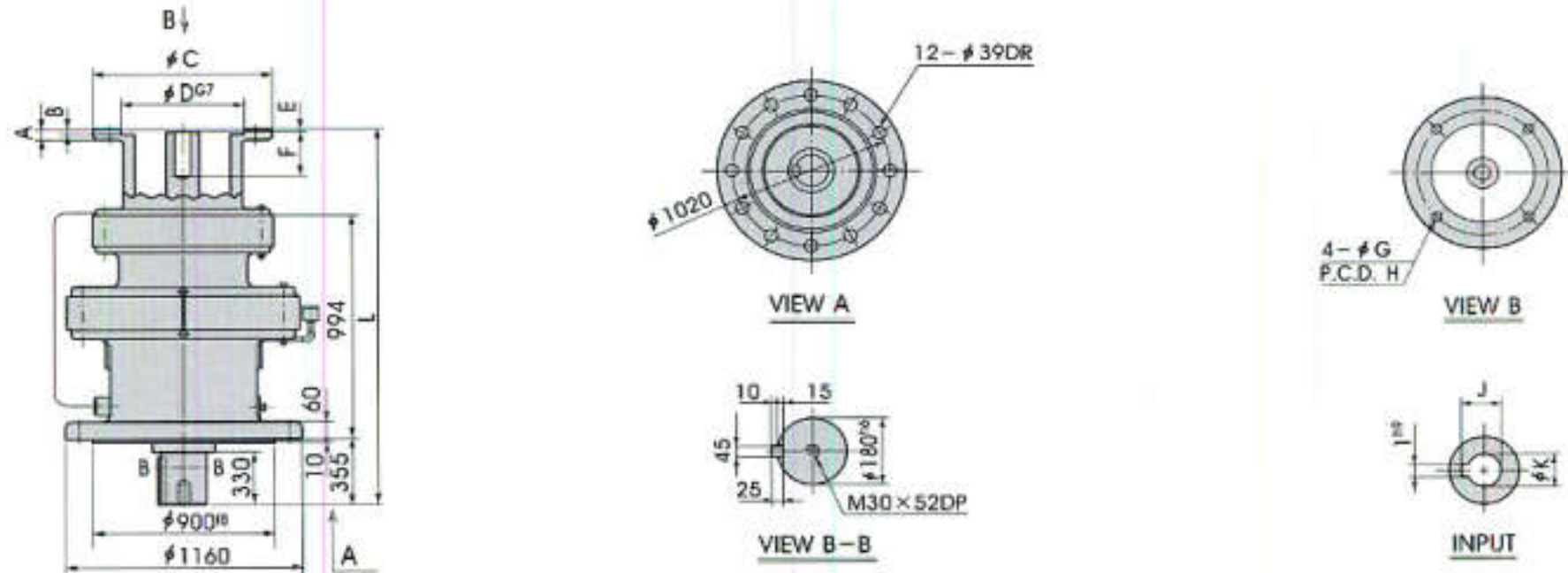
3. Dimensions and specifications are subjected to change without notice.

MJV-2258



MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
7.5	132M	MJV10-2258-	20	6	300	230	4	78	15	265	10	41.3	38F7	1162	1109
11	160M	MJV15-2258-	22	6	350	250	15	98	19	300	12	45.3	42F7	1192	1117
15	160L	MJV20-2258-	22	6	350	250	15	98	19	300	12	45.3	42F7	1192	1117

MJV-2139



MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
7.5	132M	MJV10-2139-	20	6	300	230	4	78	15	265	10	41.3	38F7	1492	2473
11	160M	MJV15-2139-	22	6	350	250	15	98	19	300	12	45.3	42F7	1523	2485
15	160L	MJV20-2139-	22	6	350	250	15	98	19	300	12	45.3	42F7	1523	2485
22	180M	MJV30-2139-	22	6	400	300	15	98	19	300	14	51.8	48F7	1523	2492

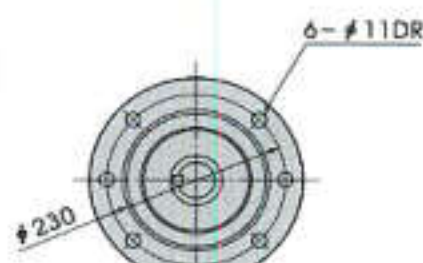
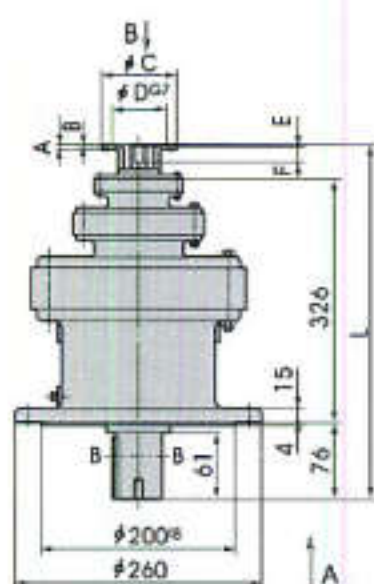
Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

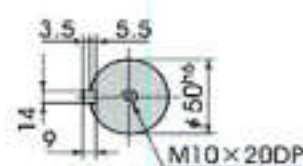
3. Dimensions and specifications are subjected to change without notice.

4-8) DIMENSIONS : MJV Triple Reduction Type

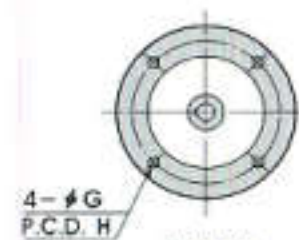
MJV-3432



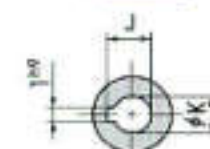
VIEW A



VIEW B-B



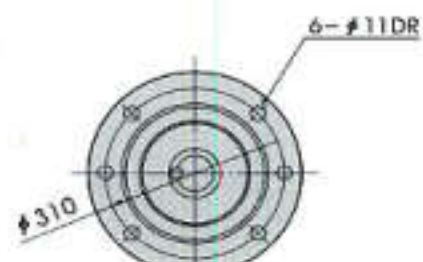
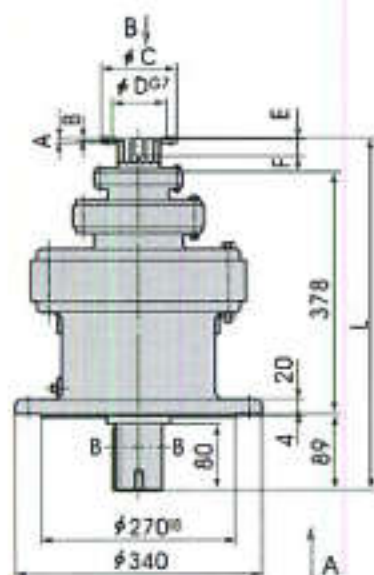
VIEW B



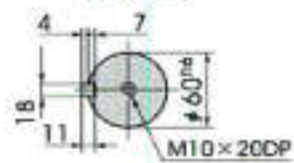
INPUT

MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.2	71	MJV02-3432-	10	5	160	110	3	41	10	130	5	16.3	14F6	483	66
0.4	71	MJV05-3432-	10	5	160	110	3	41	10	130	5	16.3	14F6	483	67

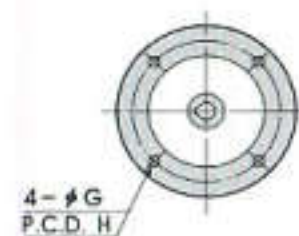
MJV-3632



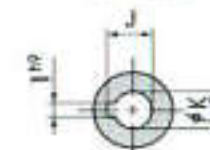
VIEW A



VIEW B-B



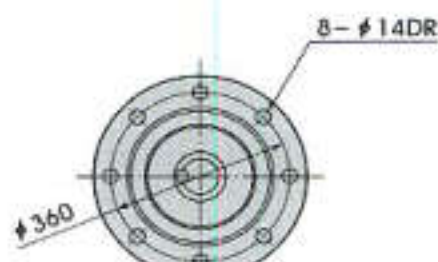
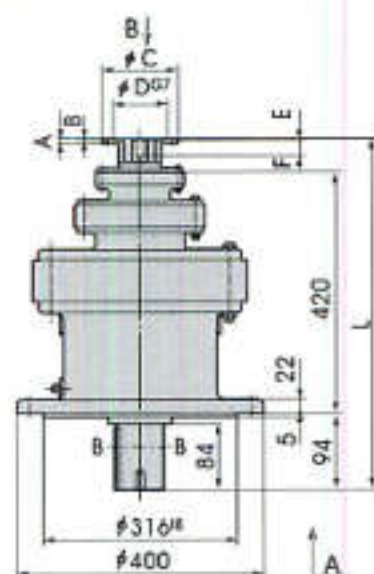
VIEW B



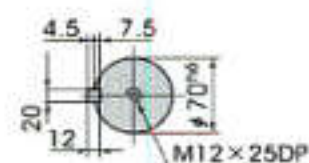
INPUT

MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.2	71	MJV02-3632-	10	5	160	110	3	41	10	130	5	16.3	14F6	548	119
0.4	71	MJV05-3632-	10	5	160	110	3	41	10	130	5	16.3	14F6	548	121

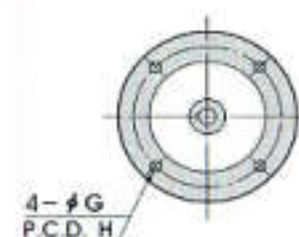
MJV-3732



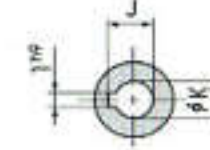
VIEW A



VIEW B-B



VIEW B



INPUT

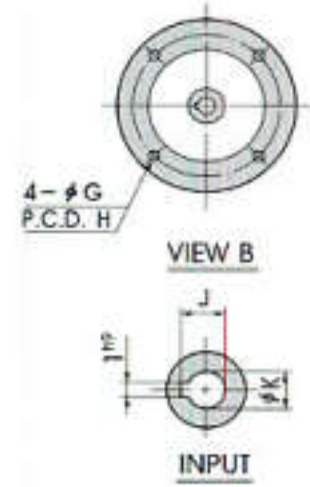
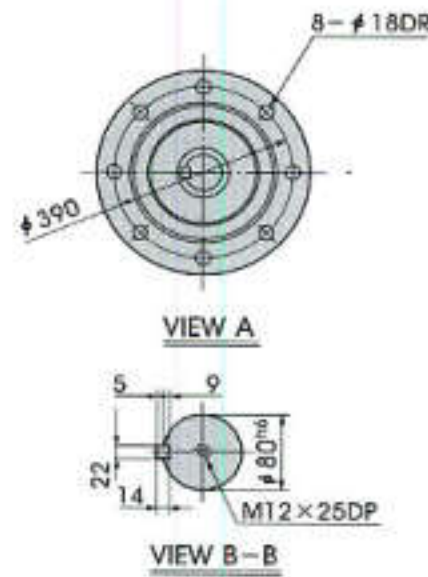
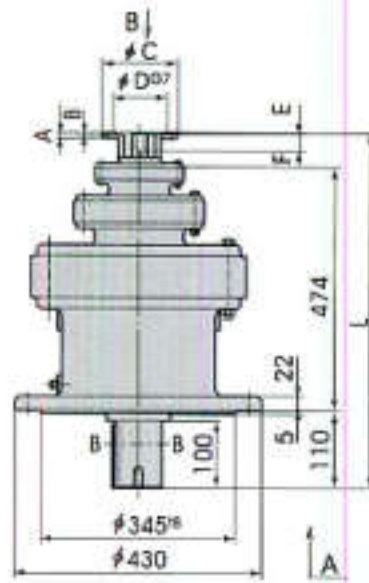
MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.2	71	MJV02-3732-	10	5	160	110	3	41	10	130	5	16.3	14F6	595	139
0.4	71	MJV05-3732-	10	5	160	110	3	41	10	130	5	16.3	14F6	595	140

Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

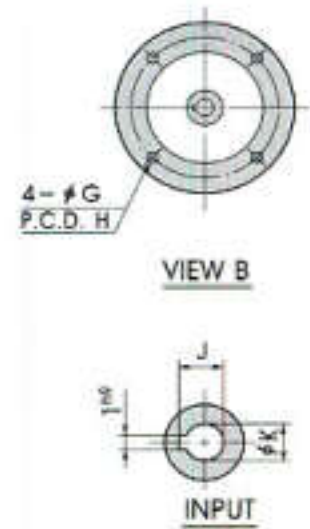
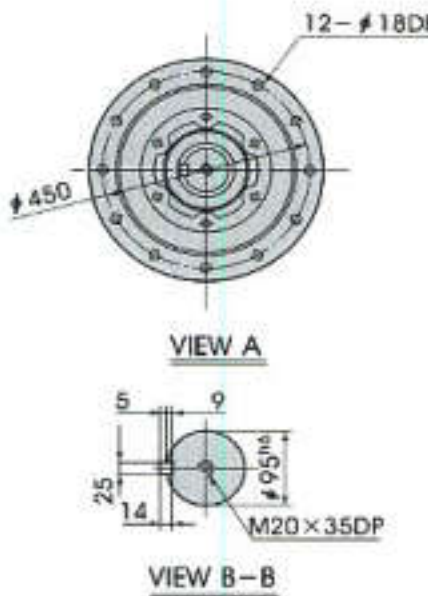
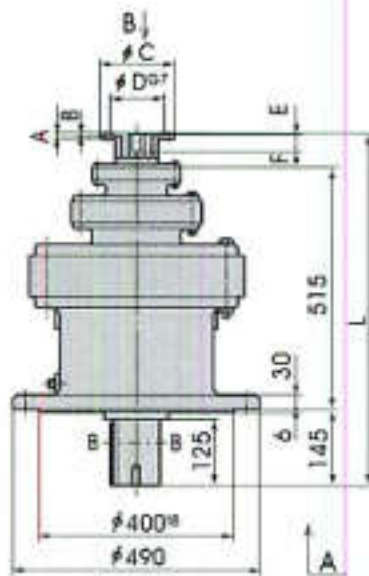
3. Dimensions and specifications are subjected to change without notice.

MJV-3843



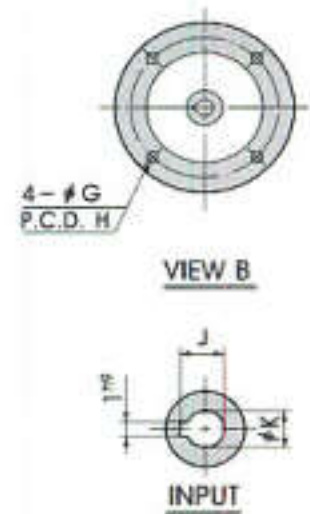
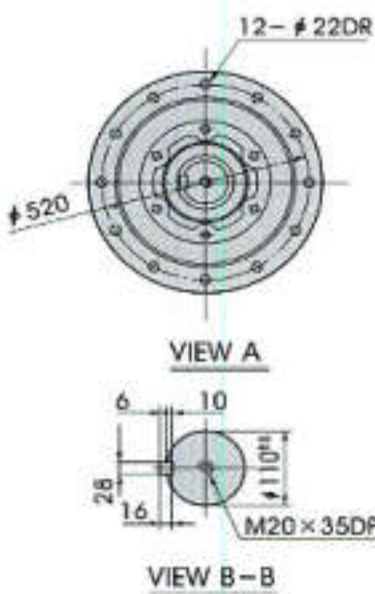
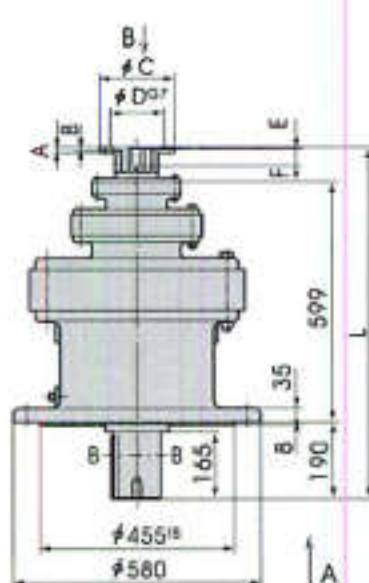
MOTOR		MODEL NO.	D I M E N S I O N S													W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L		
0.4	71	MJV05-3843-	10	5	160	110	3	41	12	130	5	16.3	14F6	668	201	

MJV-3943



MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.4	71	MJV05-3943-	10	5	160	110	3	41	12	130	5	16.3	14F6	744	275
0.75	80	MJV 1-3943-	10	5	200	130	3	41	12	165	6	21.8	19F6	744	276

MJV-31063



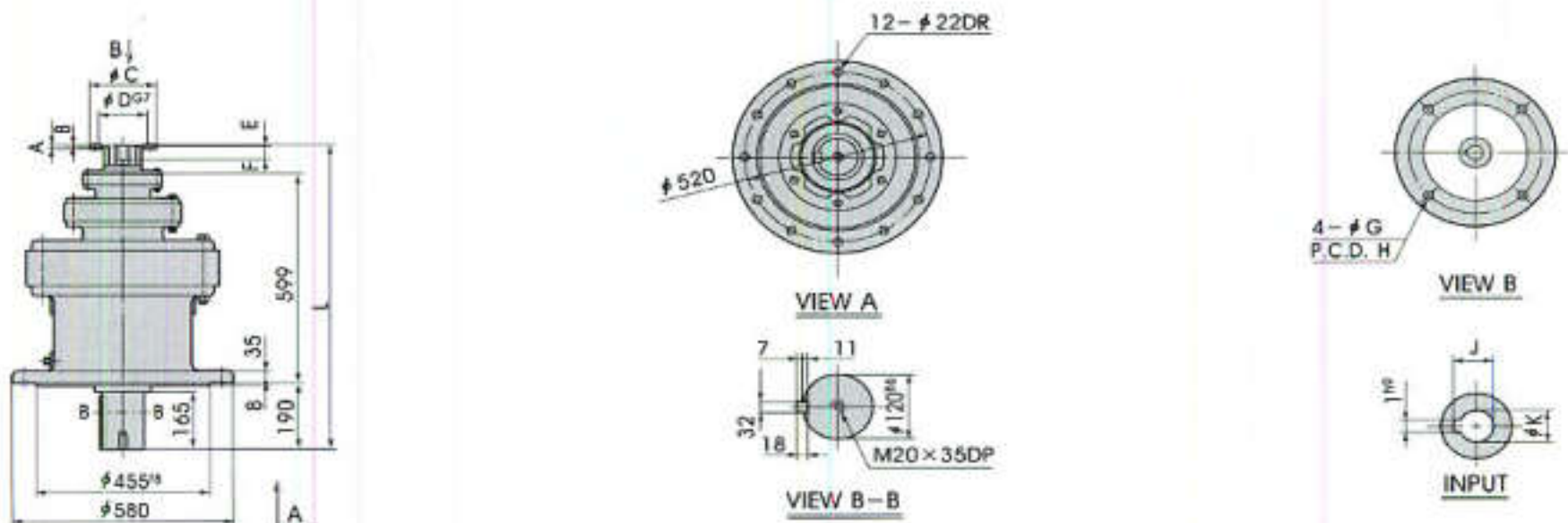
MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.4	71	MJV05-31063-	10	5	160	110	3	41	12	130	5	16.3	14F6	873	456
0.75	80	MJV 1-31063-	10	5	200	130	3	41	12	165	6	21.8	19F6	873	457
1.5	90L	MJV 2-31063-	12	5	200	130	3	52	12	165	8	27.3	24F6	884	457

Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

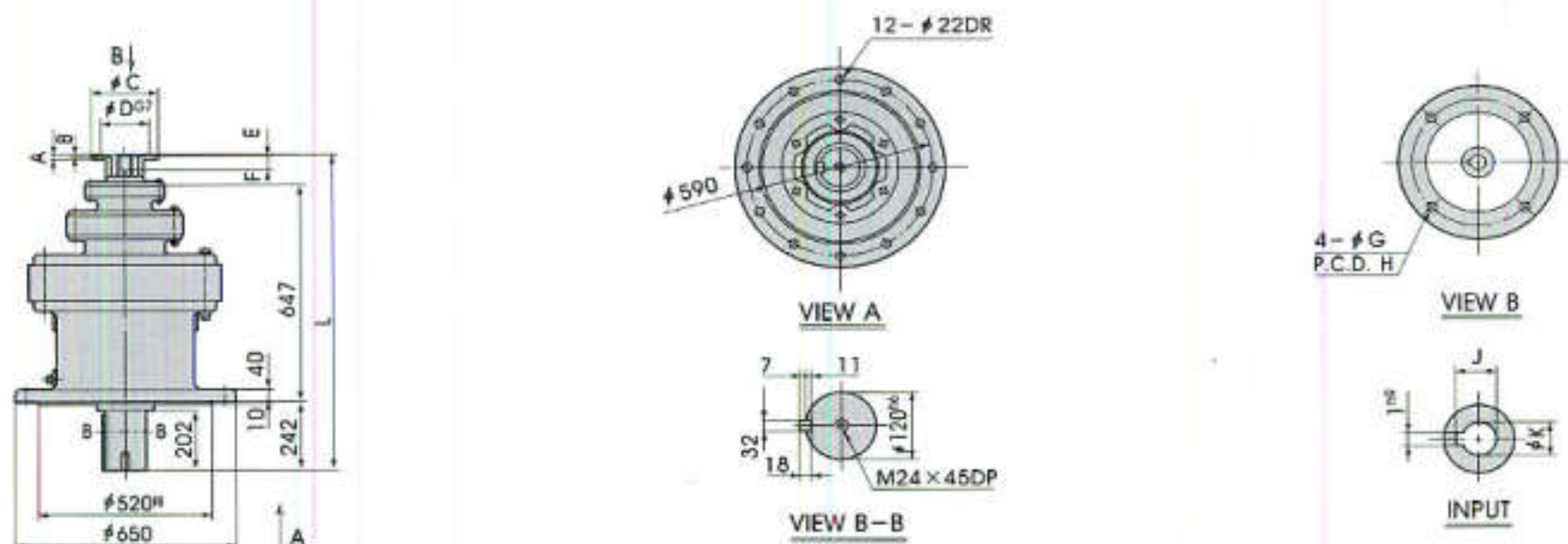
3. Dimensions and specifications are subjected to change without notice.

MJV-32263



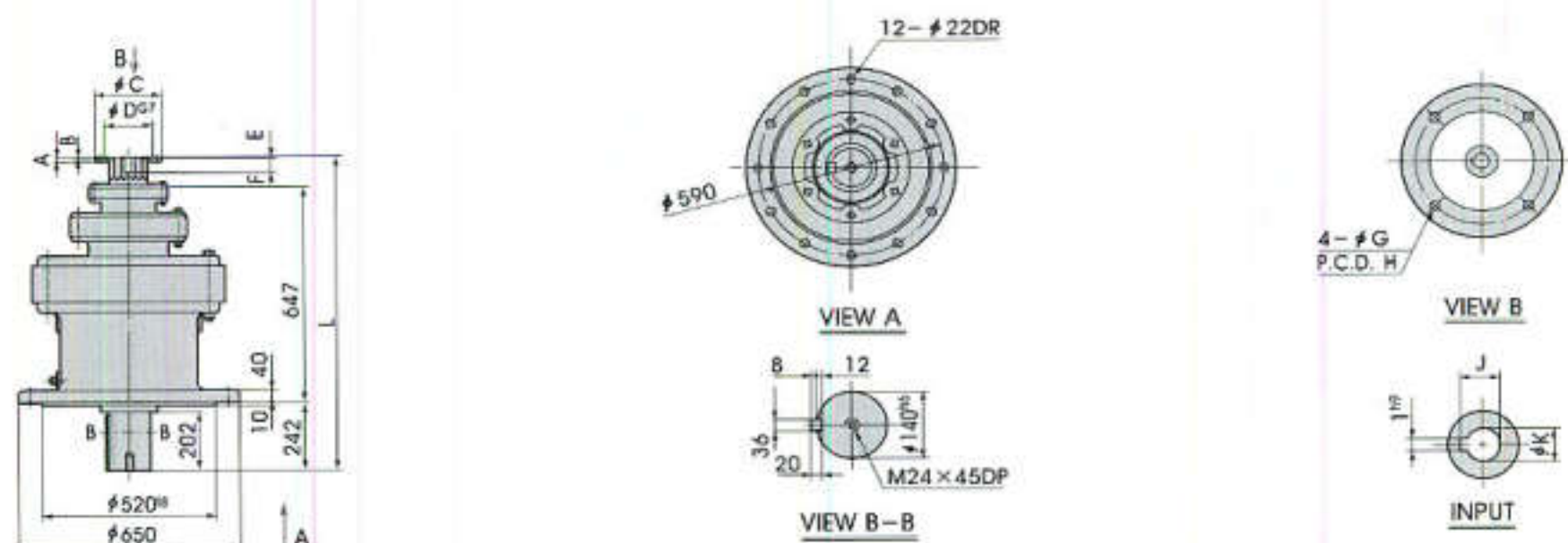
MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.4	71	MJV05-32263-	10	5	160	110	3	41	12	130	5	16.3	14F6	873	461
0.75	80	MJV 1-32263-	10	5	200	130	3	41	12	165	6	21.8	19F6	873	462
1.5	90L	MJV 2-32263-	12	5	200	130	3	52	12	165	8	27.3	24F6	884	462

MJV-31173



MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.4	71	MJV05-31173-	10	5	160	110	3	41	12	130	6	21.8	19	973	570
0.75	80	MJV 1-31173-	10	5	200	130	3	41	12	165	6	21.8	19	973	571
1.5	90L	MJV 2-31173-	12	5	200	130	3	52	12	165	8	27.3	24	984	571

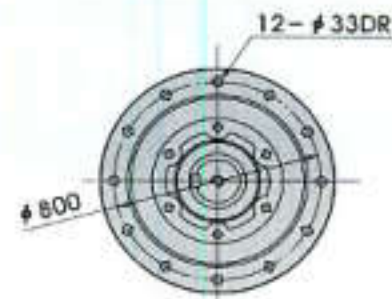
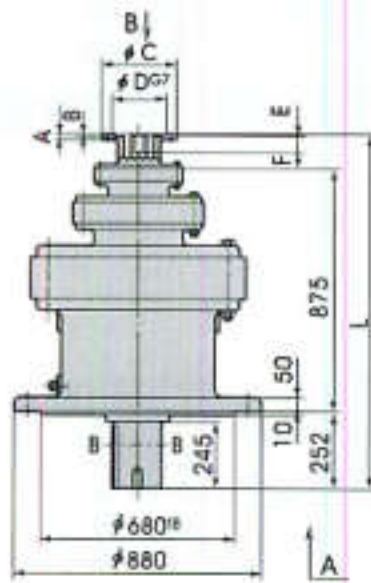
MJV-32473



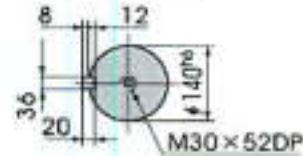
MOTOR		MODEL NO.	D I M E N S I O N S												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.4	71	MJV05-32473-	10	5	160	110	3	41	12	130	6	21.8	19	973	580
0.75	80	MJV 1-32473-	10	5	200	130	3	41	12	165	6	21.8	19	973	581
1.5	90L	MJV 2-32473-	12	5	200	130	3	52	12	165	8	27.3	24	984	581

- Note) 1. Dimension tolerance : Output shaft h_6
 Input shaft F_6 or F_7
 2. Key KS B 1311-84 Parallel Key
 3. Dimensions and specifications are subjected to change without notice.

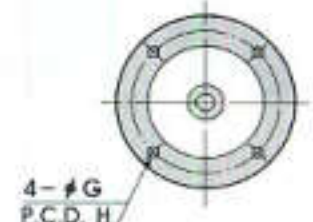
MJV-31284



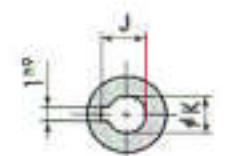
VIEW A



VIEW B-B



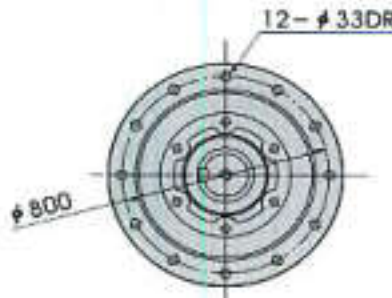
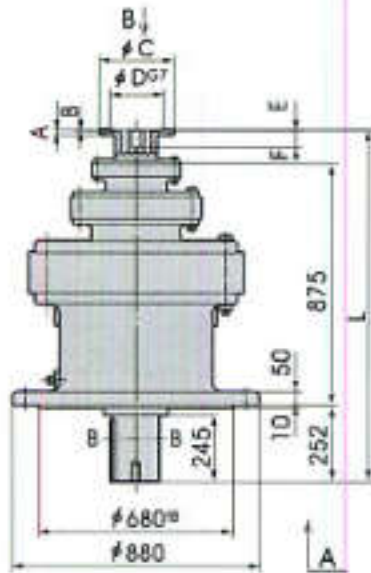
VIEW B



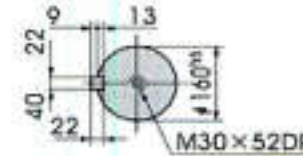
INPUT

MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.75	80	MJV1-31284-	15	5	200	130	3	41	12	165	6	21.8	19F6	1220	1091
1.5	90L	MJV2-31284-	15	5	200	130	3	52	12	165	8	27.3	24F6	1231	1091
2.2	100L	MJV3-31284-	18	6	250	180	3	62	15	215	8	31.3	28F6	1241	1092

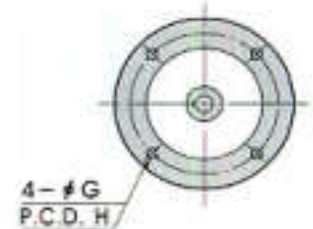
MJV-32584



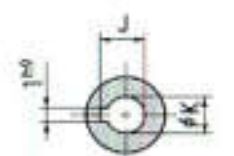
VIEW A



VIEW B-B



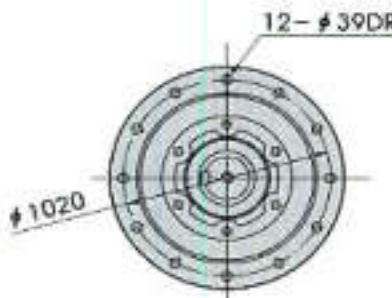
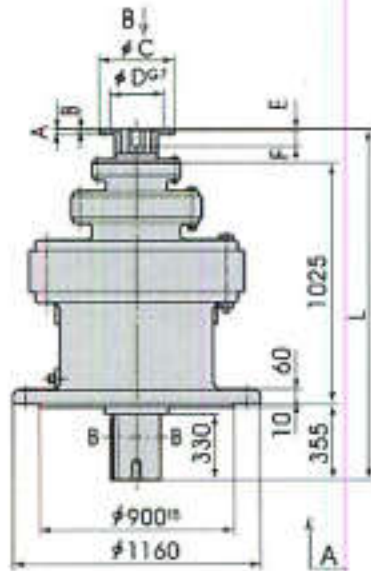
VIEW B



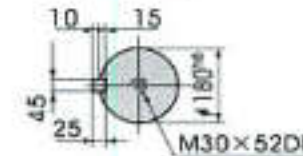
INPUT

MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.75	80	MJV1-32584-	15	5	200	130	3	41	12	165	6	21.8	19F6	1220	1106
1.5	90L	MJV2-32584-	15	5	200	130	3	52	12	165	8	27.3	24F6	1231	1106
2.2	100L	MJV3-32584-	18	6	250	180	3	62	15	215	8	31.3	28F6	1241	1107

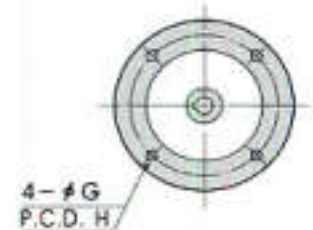
MJV-31394



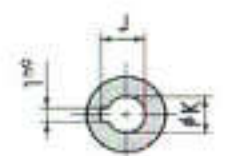
VIEW A



VIEW B-B



VIEW B



INPUT

MOTOR		MODEL NO.	DIMENSIONS												W(kg)
KW	FRAME		A	B	C	D	E	F	G	H	I	J	K	L	
0.75	80	MJV1-31394-	15	5	200	130	3	41	12	165	6	21.8	19F6	1473	2426
1.5	90L	MJV2-31394-	15	5	200	130	3	52	12	165	8	27.3	24F6	1484	2426
2.2	100L	MJV3-31394-	18	6	250	180	3	62	15	215	8	31.3	28F6	1494	2428
3.7	112M	MJ 5-31394-	18	6	250	180	3	62	15	215	8	31.3	28F6	1494	2428

Note) 1. Dimension tolerance : Output shaft h_6
Input shaft F_6 or F_7

2. Key KS B 1311-84 Parallel Key

3. Dimensions and specifications are subjected to change without notice.



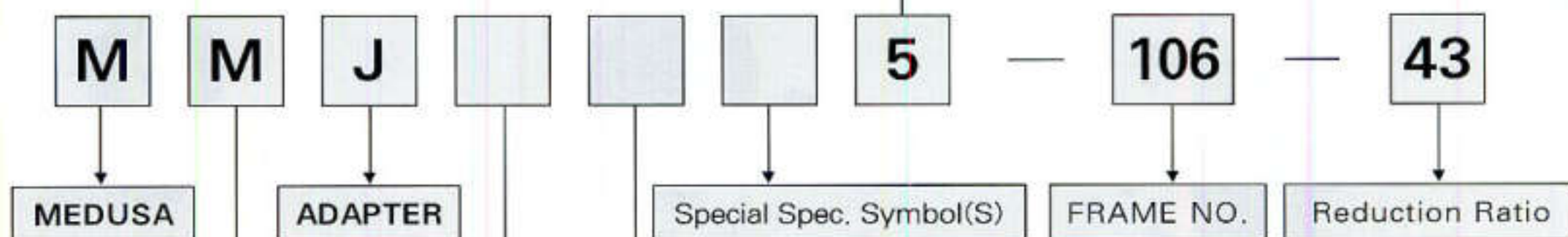
5. GEARED MOTOR (MOTOR 附着型)

* IDENTIFICATION

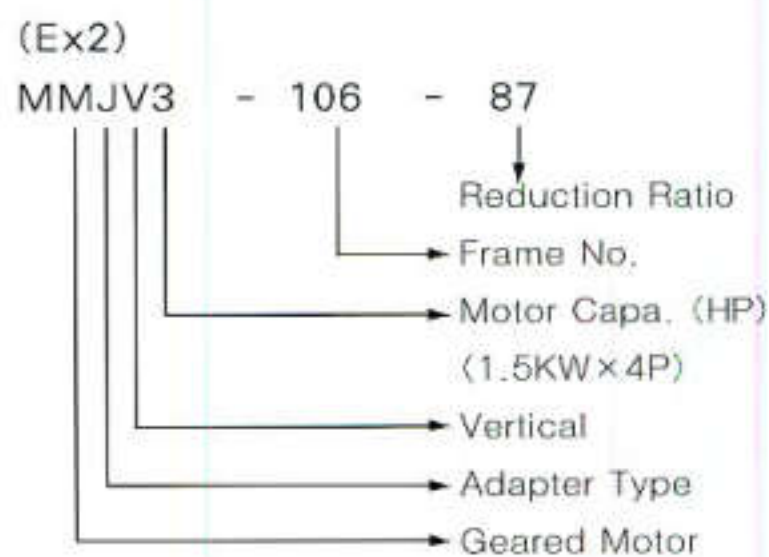
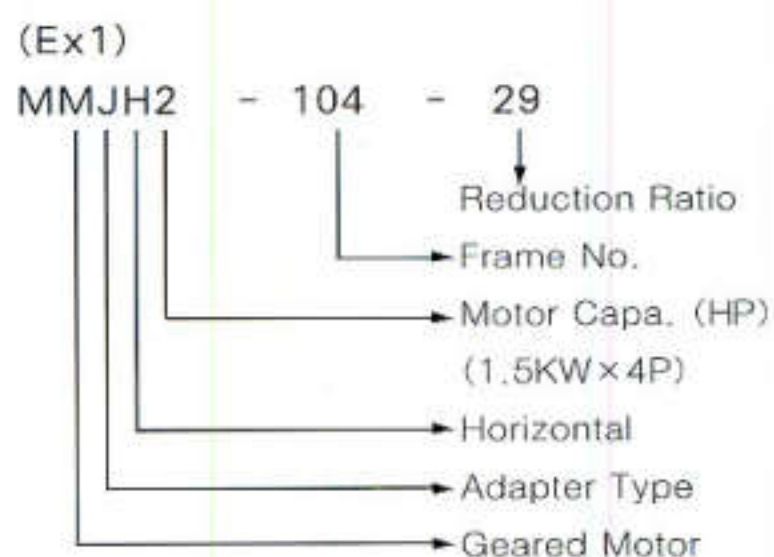
Motor Capacity Symbol

4	Symbol	02	05	1	2	3	5	8	10	15	20	30	40	50
Pole	KW (HP)	0.2 (1/4)	0.4 (1/2)	0.75 (1)	1.5 (2)	2.2 (3)	3.7 (5)	5.5 (7.5)	7.5 (10)	11 (15)	15 (20)	22 (30)	30 (40)	37 (50)

6	Symbol	206	306	406	506	706
Pole	KW (HP)	15 (20)	22 (30)	30 (40)	37 (50)	45 (60)

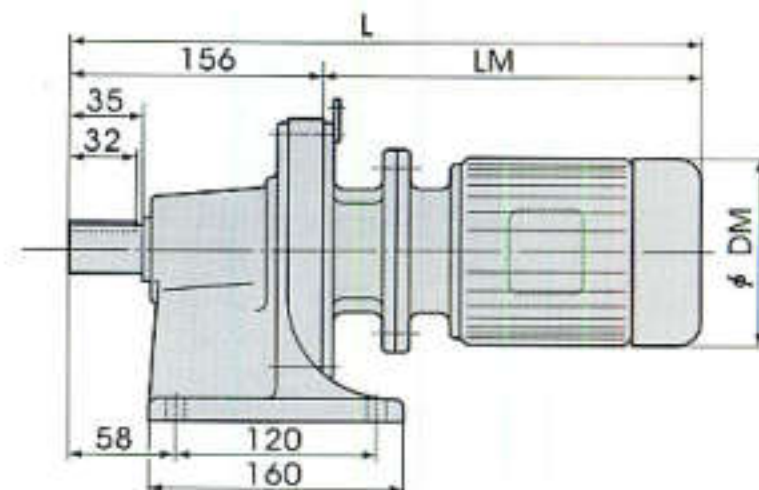
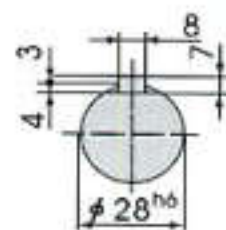
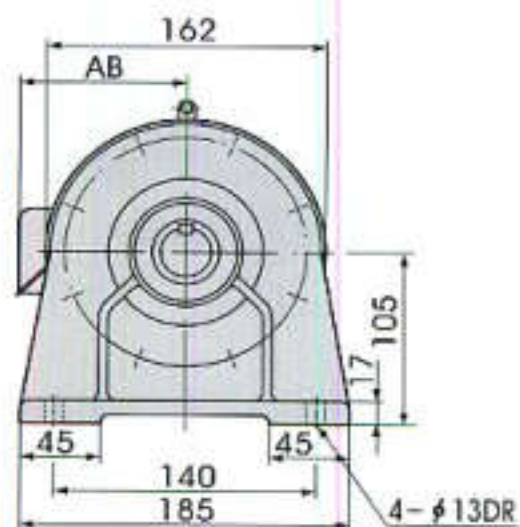


Input power method	Mounting type	Output shaft direction
M (GEARED MOTOR)	H (FOOT MOUNT) V (BASE MOUNT) F (FLANGE MOUNT)	H (HORIZONTAL) V (VERTICAL DOWN) W (VERTICAL UP)



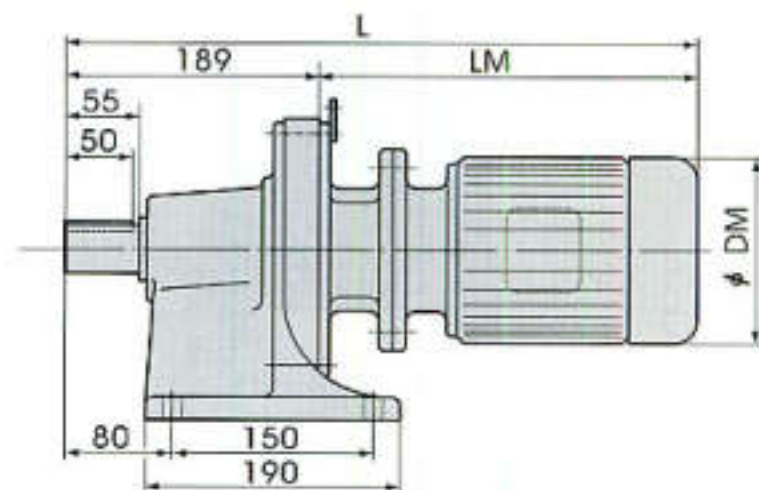
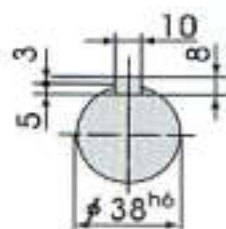
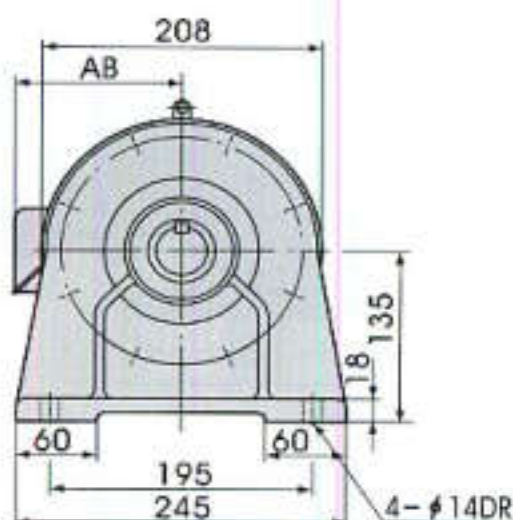
5-1) DIMENSIONS : MMJH Single Reduction Type

MMJH-102



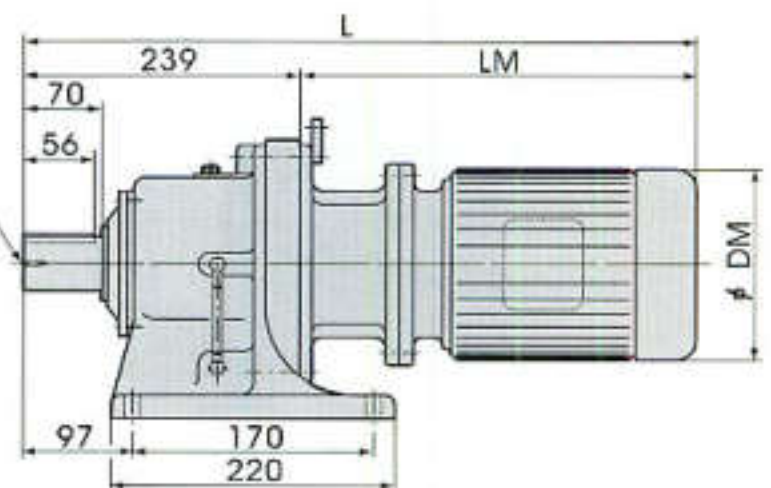
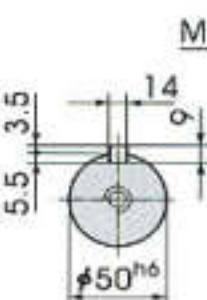
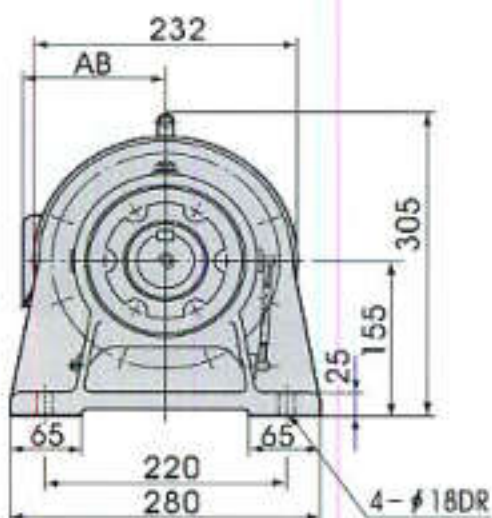
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.2	4	MMJH02-102-	465	309	146	124	26	565	409	148	124	29
0.4	4	MMJH05-102-	452	296	148	140	28	552	396	148	140	32
0.75	4	MMJH 1-102-	496	340	180	135	33	596	440	180	135	37

MMJH-103



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.4	4	MMJH05-103-	488	299	148	140	38	588	399	148	140	42
0.75	4	MMJH 1-103-	532	343	180	135	44	632	443	180	135	48
1.5	4	MMJH 2-103-	594	405	199	150	57	694	505	199	150	62
2.2	4	MMJH 3-103-	639	450	220	160	69	739	550	220	160	77

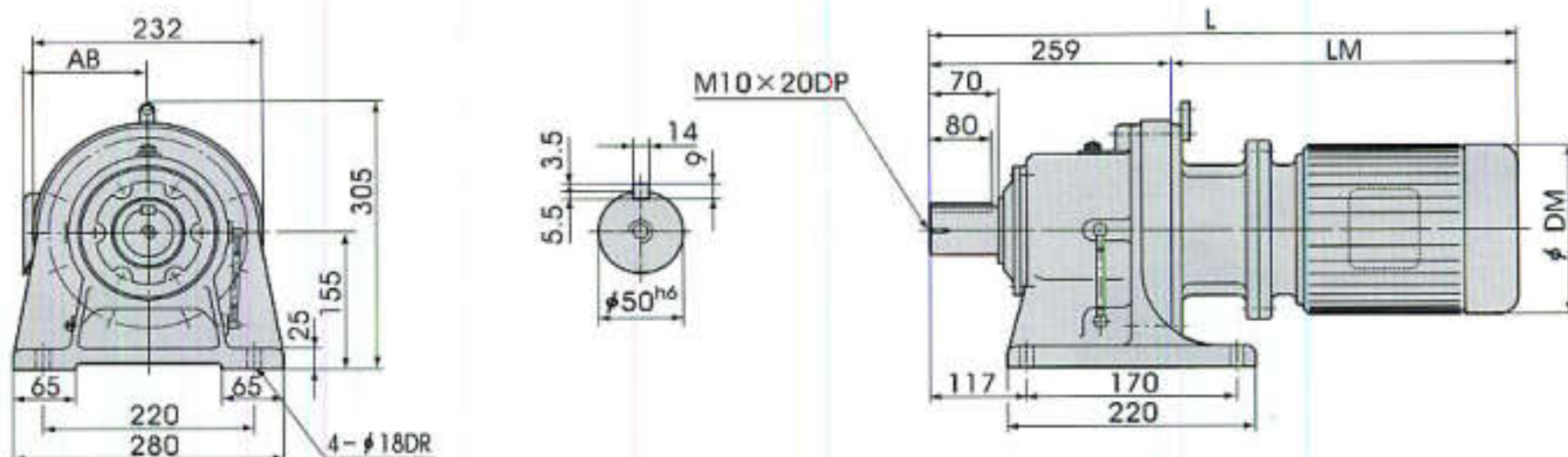
MMJH-104



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.75	4	MMJH 1-104-	591	352	180	135	61	691	452	180	135	65
1.5	4	MMJH 2-104-	653	414	199	150	74	753	514	199	150	79
2.2	4	MMJH 3-104-	698	459	220	160	88	798	559	220	160	96
3.7	4	MMJH 5-104-	683	444	244	180	96	813	574	244	180	105

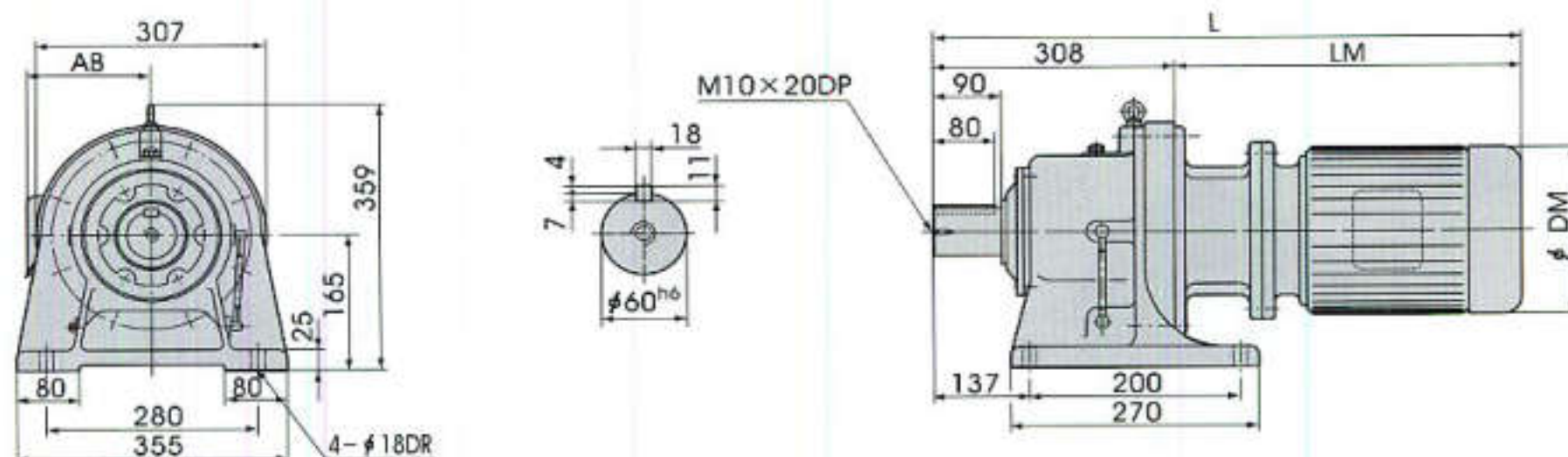
- Note) 1. Electric motor closed type, 3 phase induction motor(Dimensions are differ with manufacturers each other)
 2. Dimension tolerance : Output shaft h_6
 3. Key KS B 1311-84 Parallel Key
 4. Dimensions and specifications are subjected to change without notice.

MMJH-105



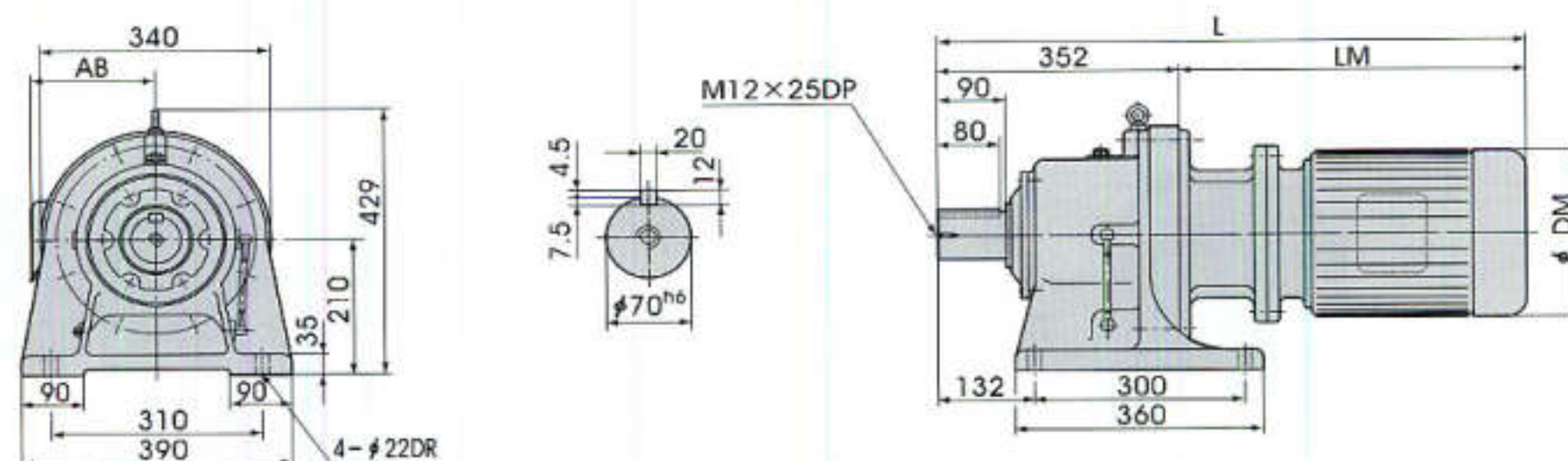
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
1.5	4	MMJH 2-105-	673	414	199	150	76	773	514	199	150	81
2.2	4	MMJH 3-105-	718	459	220	160	90	818	559	220	160	98
3.7	4	MMJH 5-105-	703	444	244	180	98	833	574	244	180	107

MMJH-106



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
2.2	4	MMJH 3-106-	765	457	220	160	125	865	557	220	160	133
3.7	4	MMJH 5-106-	750	442	244	180	129	880	572	244	180	138
5.5	4	MMJH 8-106-	819	511	284	200	162	949	641	284	200	173
7.5	4	MMJH10-106-	857	549	284	200	171	987	679	284	200	182

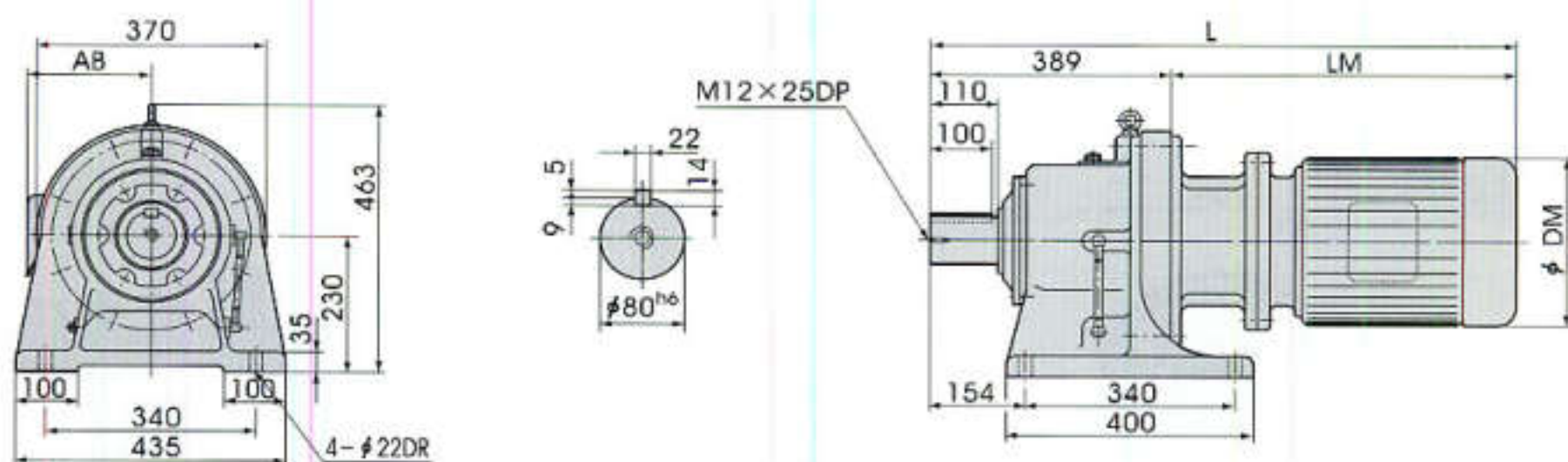
MMJH-107



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
3.7	4	MMJH 5-107-	799	447	244	180	165	929	577	244	180	174
5.5	4	MMJH 8-107-	881	529	284	200	197	1011	659	284	200	208
7.5	4	MMJH10-107-	919	567	284	200	204	1049	697	284	200	215
11	4	MMJH15-107-	1004	652	337	266	263	1134	782	337	266	278
15	4	MMJH20-107-	1048	696	337	266	271	1178	826	337	266	286

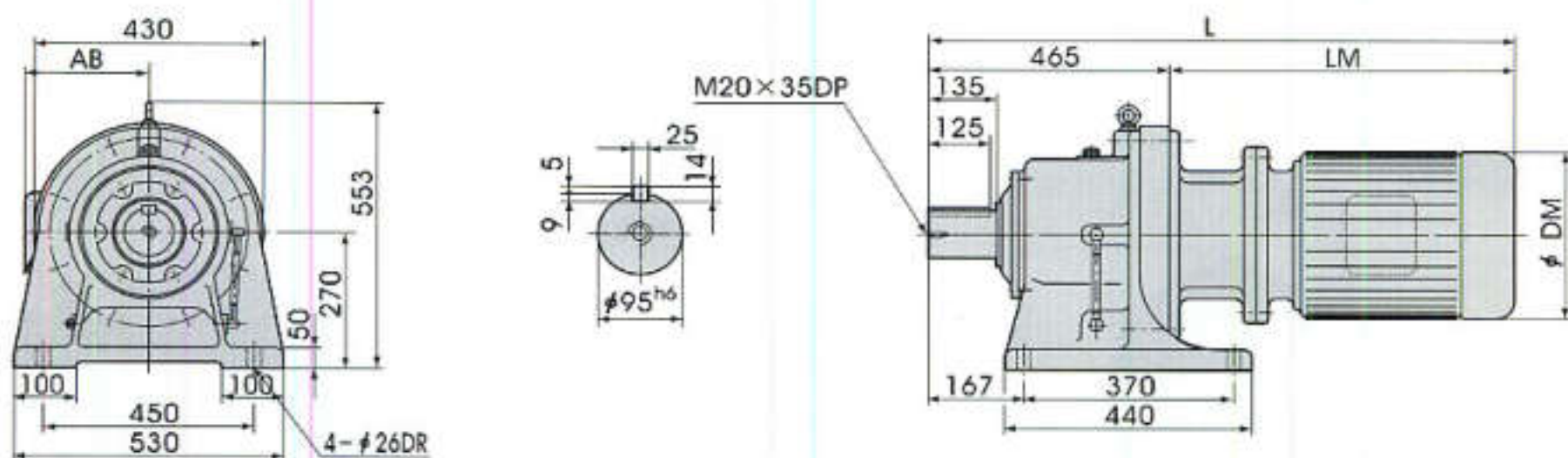
- Note) 1. Electric motor closed type, 3 phase induction motor(Dimensions are differ with manufacturers each other)
 2. Dimension tolerance : Output shaft h_6
 3. Key KS B 1311-84 Parallel Key
 4. Dimensions and specifications are subjected to change without notice.

MMJH-108



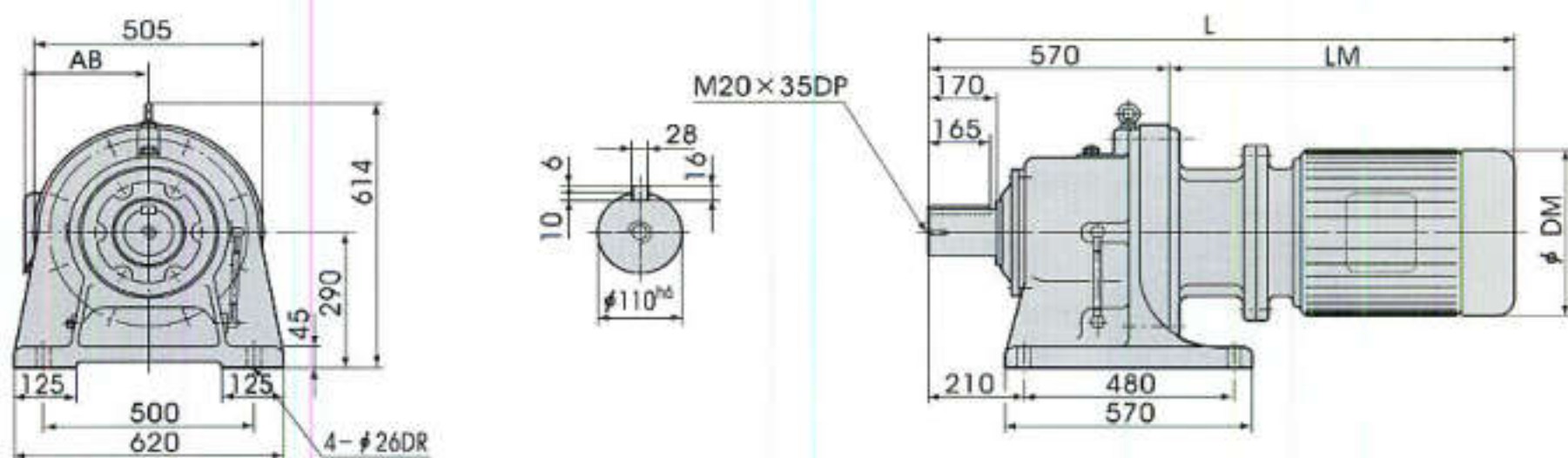
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
5.5	4	MMJH 8-108-	912	523	284	200	242	1042	653	284	200	253
7.5	4	MMJH10-108-	950	561	284	200	249	1080	691	284	200	260
11	4	MMJH15-108-	1035	646	337	266	305	1165	776	337	266	320
15	4	MMJH20-108-	1079	690	337	266	307	1209	820	337	266	328

MMJH-109



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
7.5	4	MMJH10-109-	1028	563	284	200	362	1158	693	284	200	373
11	4	MMJH15-109-	1113	648	337	266	421	1243	778	337	266	436
15	4	MMJH20-109-	1157	692	337	266	429	1287	822	337	266	444
22	4	MMJH30-109-	1197	732	374	288	445	1357	892	374	288	466

MMJH-110

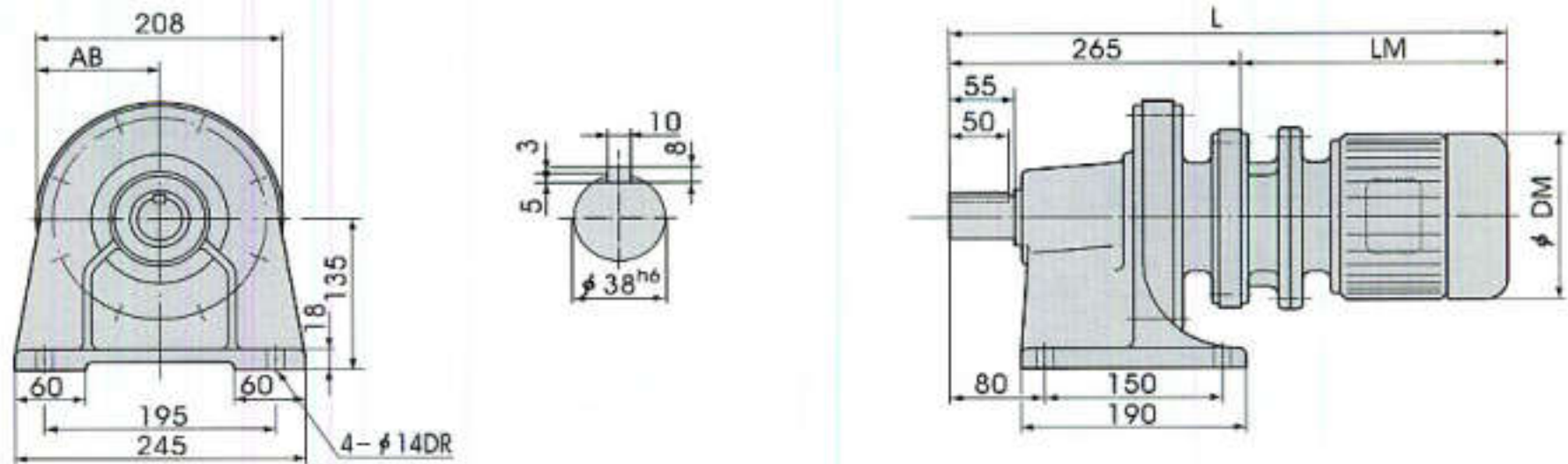


MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
11	4	MMJH15-110-	1224	654	337	266	552	1354	784	337	266	572
15	4	MMJH20-110-	1268	698	337	266	560	1398	828	337	266	580
22	4	MMJH30-110-	1308	738	374	288	591	1468	898	374	288	618
30	4	MMJH40-110-	1346	776	374	288	607	1506	936	374	288	634

- Note) 1. Electric motor closed type, 3 phase induction motor(Dimensions are differ with manufacturers each other)
2. Dimension tolerance : Output shaft h₆
3. Key KS B 1311-84 Parallel Key
4. Dimensions and specifications are subjected to change without notice.

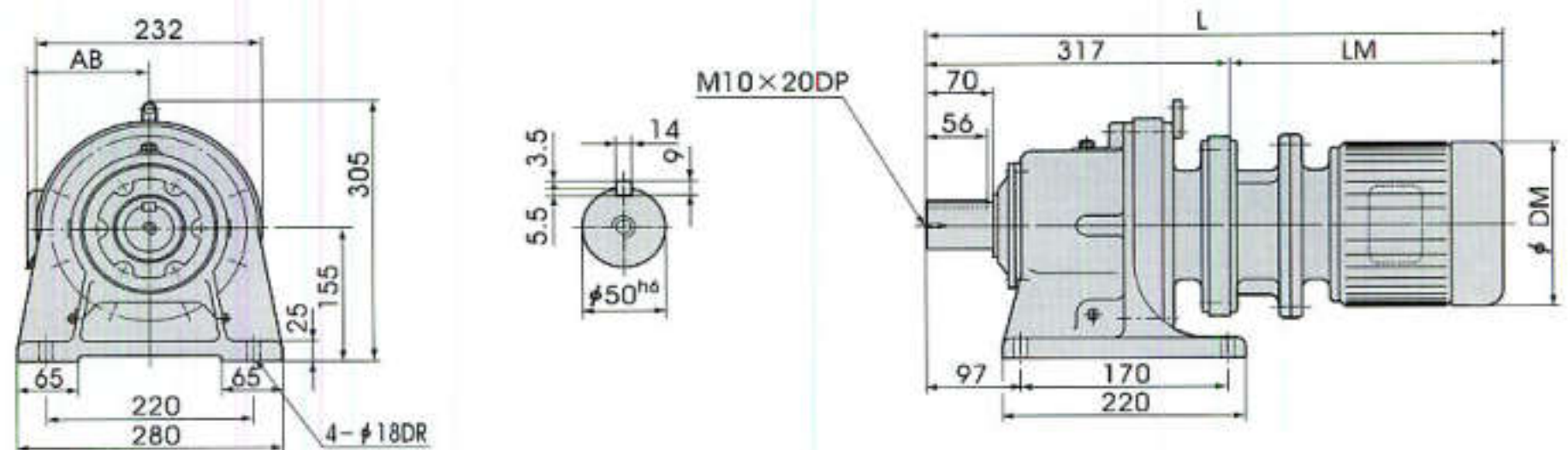
5-2) DIMENSIONS : MMJH Double Reduction Type

MMJH-232



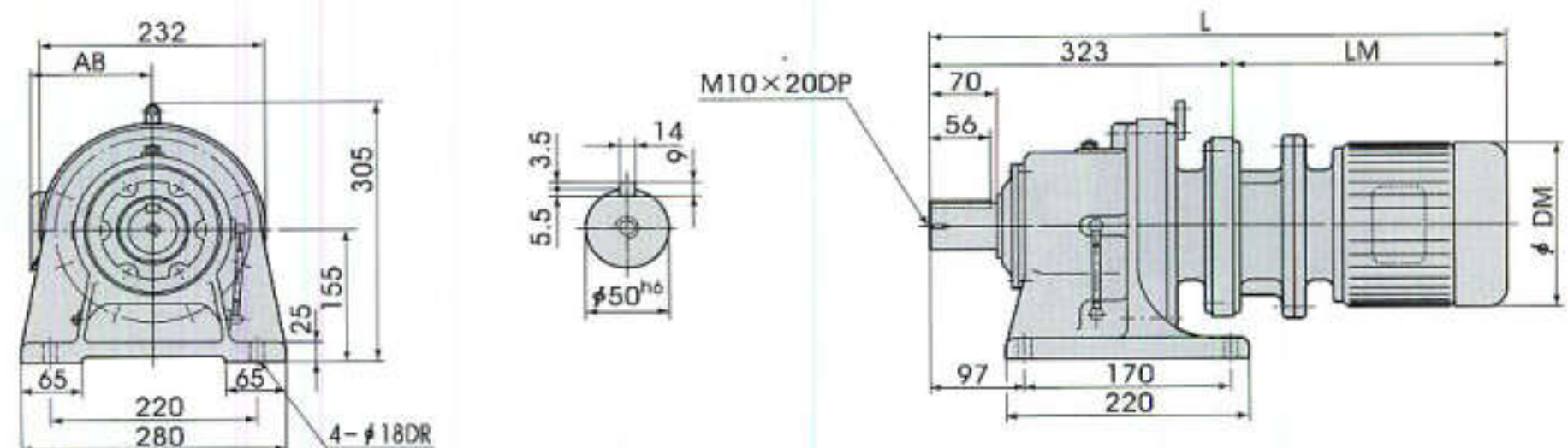
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.2	4	MMJH02-232-	574	309	148	124	51	674	409	148	124	54
0.4	4	MMJH05-232-	561	296	148	140	53	661	396	148	140	57
0.75	4	MMJH 1-232-	605	340	180	135	56	705	440	180	135	60

MMJH-242



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.2	4	MMJH02-242-	626	309	148	124	65	726	409	148	124	68
0.4	4	MMJH05-242-	613	296	148	140	67	713	396	148	140	71

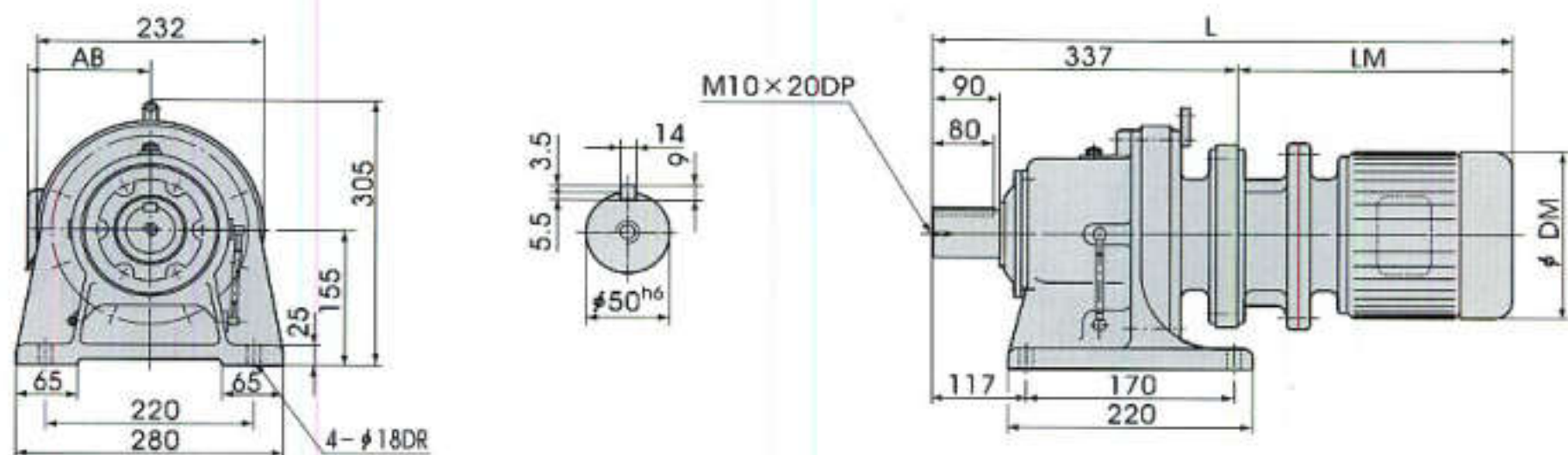
MMJH-243



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.75	4	MMJH 1-243-	670	343	180	135	71	770	443	180	135	75
1.5	4	MMJH 2-243-	732	405	199	150	84	832	505	199	150	89

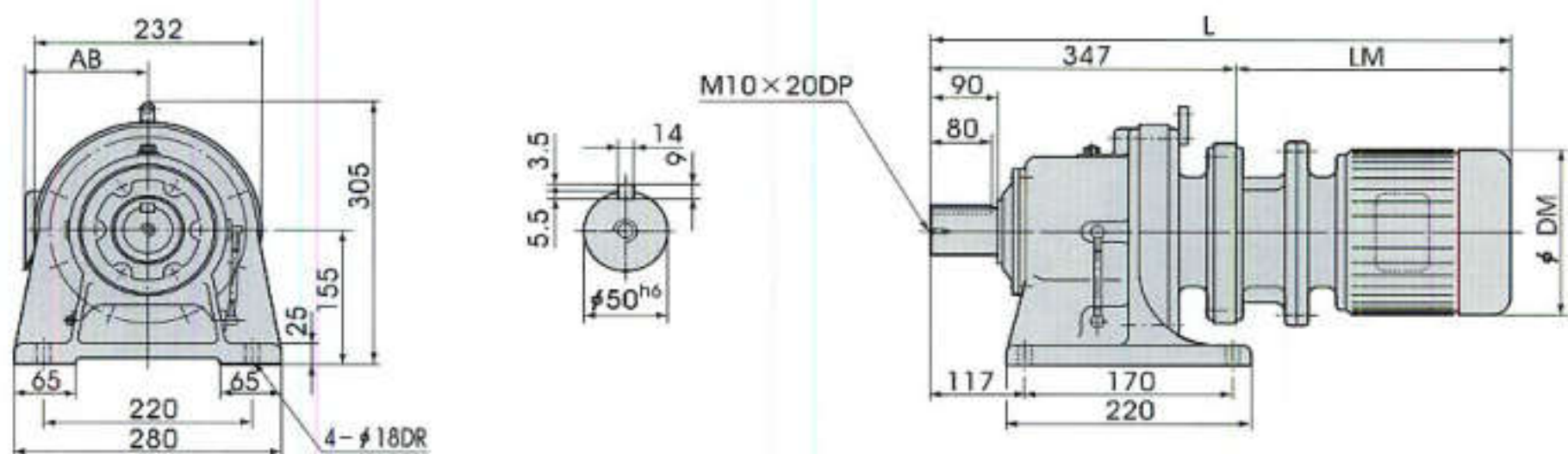
- Note) 1. Electric motor closed type, 3 phase induction motor (Dimensions are different with manufacturers each other)
 2. Dimension tolerance : Output shaft h_6
 3. Key KS B 1311-84 Parallel Key
 4. Dimensions and specifications are subjected to change without notice.

MMJH-252



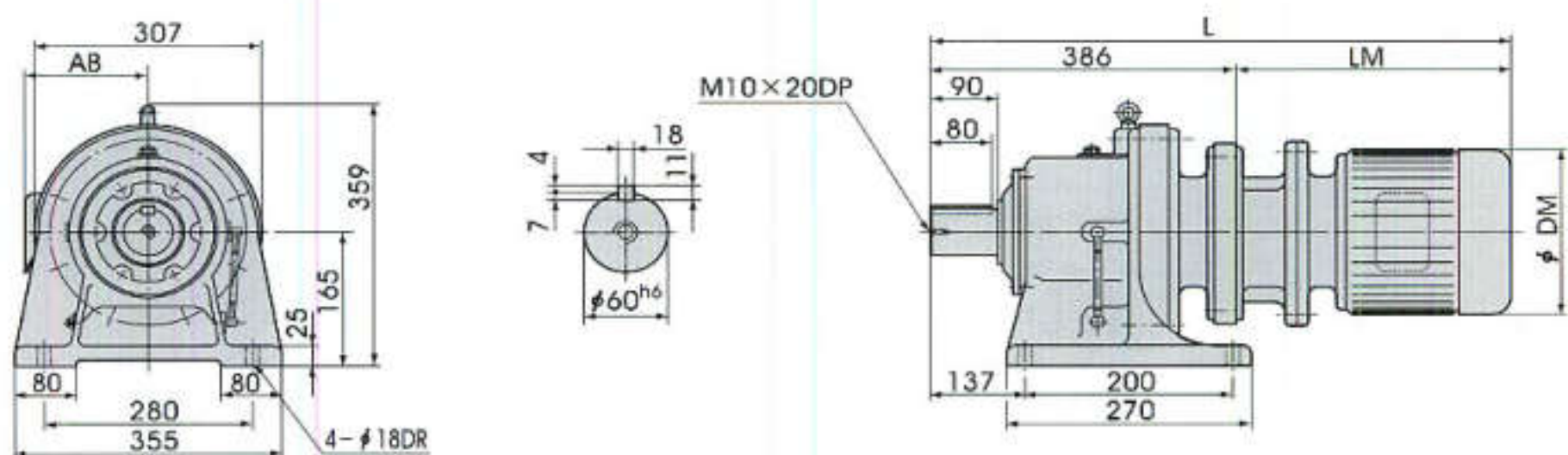
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.2	4	MMJH02-252-	646	309	148	124	66	746	409	148	124	69
0.4	4	MMJH05-252-	633	296	148	140	68	733	396	148	140	72

MMJH-253



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.75	4	MMJH①-253-	690	343	180	135	76	790	443	180	135	80

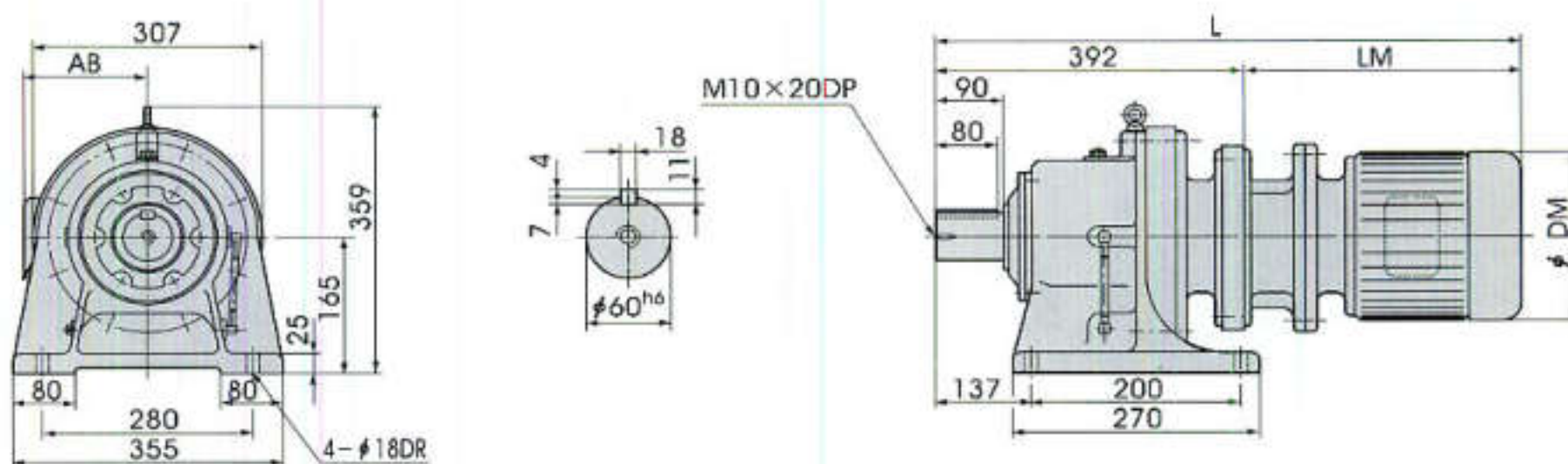
MMJH-262



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.2	4	MMJH02-262-	695	309	148	124	105	795	409	148	124	108
0.4	4	MMJH05-262-	682	296	148	140	107	782	396	148	140	111

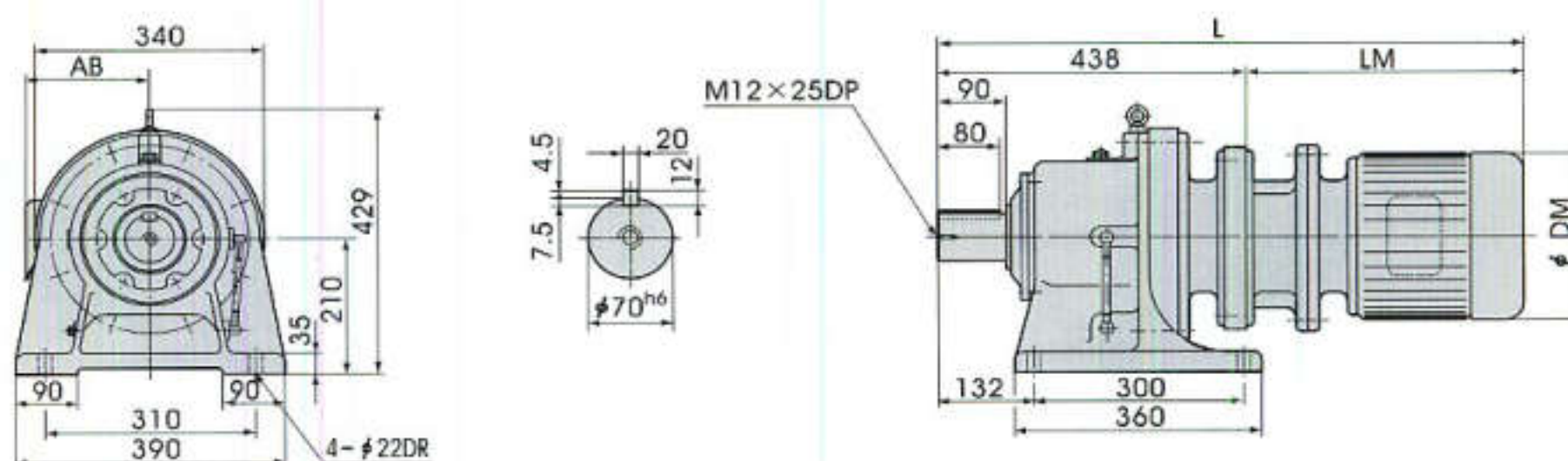
- Note) 1. Electric motor closed type, 3 phase induction motor (Dimensions are different with manufacturers each other)
 2. Dimension tolerance : Output shaft h₆
 3. Key KS B 1311-84 Parallel Key
 4. Dimensions and specifications are subjected to change without notice.

MMJH-263



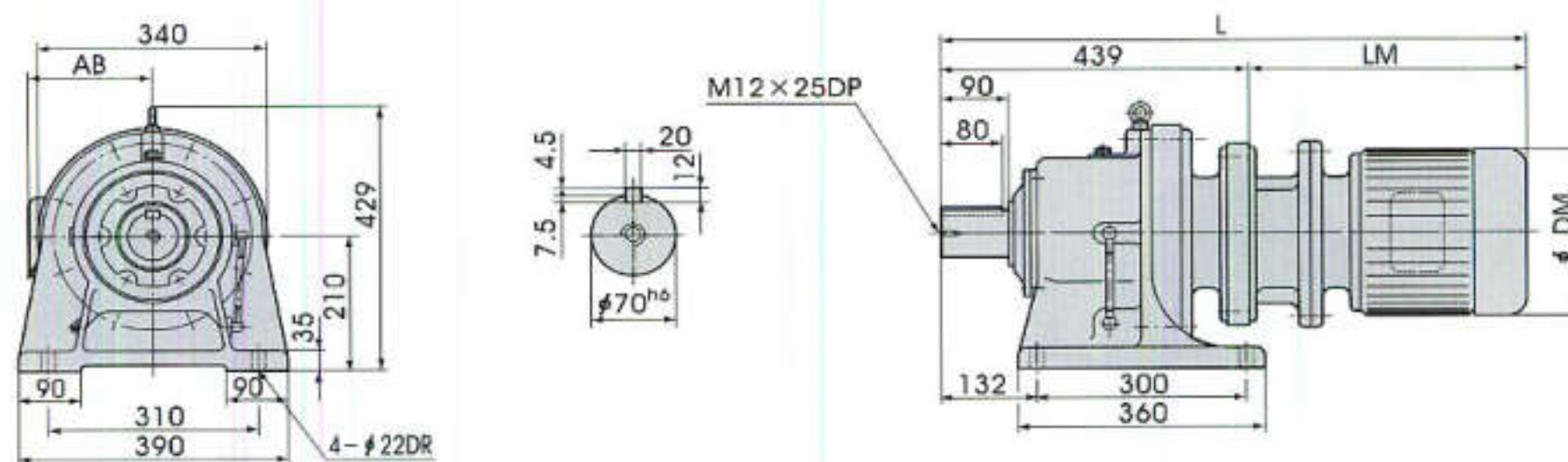
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.4	4	MMJH05-263-	691	299	148	140	114	791	339	148	140	119
0.75	4	MMJH 1-263-	735	343	180	135	119	835	443	180	135	123
1.5	4	MMJH 2-263-	797	405	199	150	136	897	505	199	150	141
2.2	4	MMJH 3-263-	842	450	220	160	153	942	550	200	160	161

MMJH-272



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.2	4	MMJH02-272-	747	309	148	124	140	847	409	148	124	143
0.4	4	MMJH05-272-	734	296	148	140	142	834	396	148	140	146

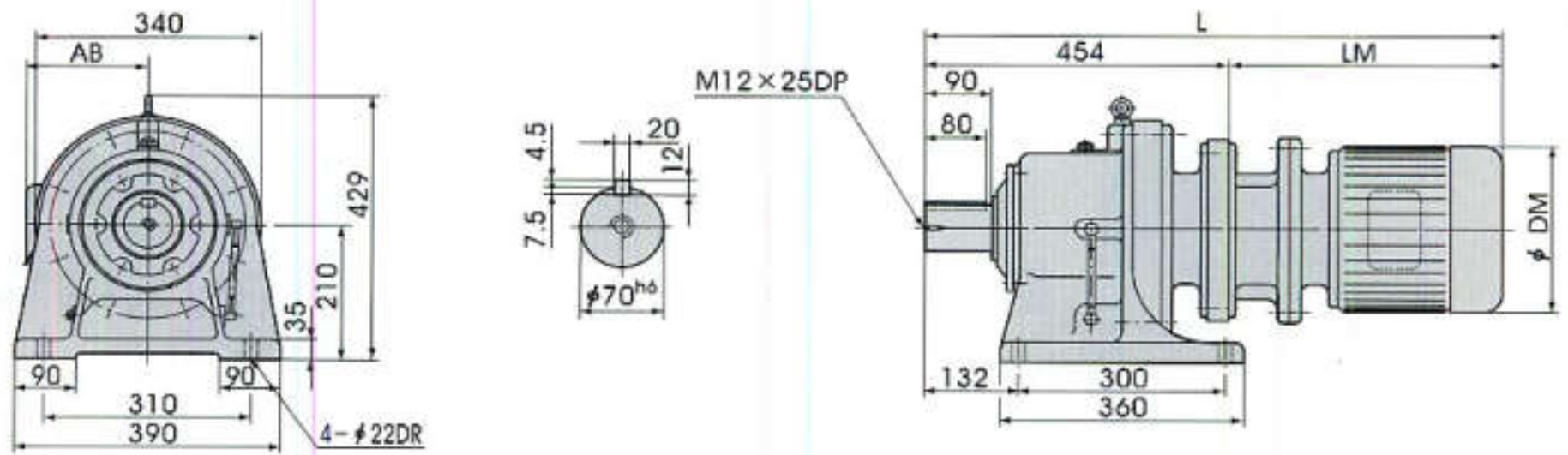
MMJH-273



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.75	4	MMJH 1-273-	782	343	180	135	155	882	443	180	135	159
1.5	4	MMJH 2-273-	844	405	199	150	171	944	505	199	150	175
2.2	4	MMJH 3-273-	889	450	220	160	188	989	550	220	160	196

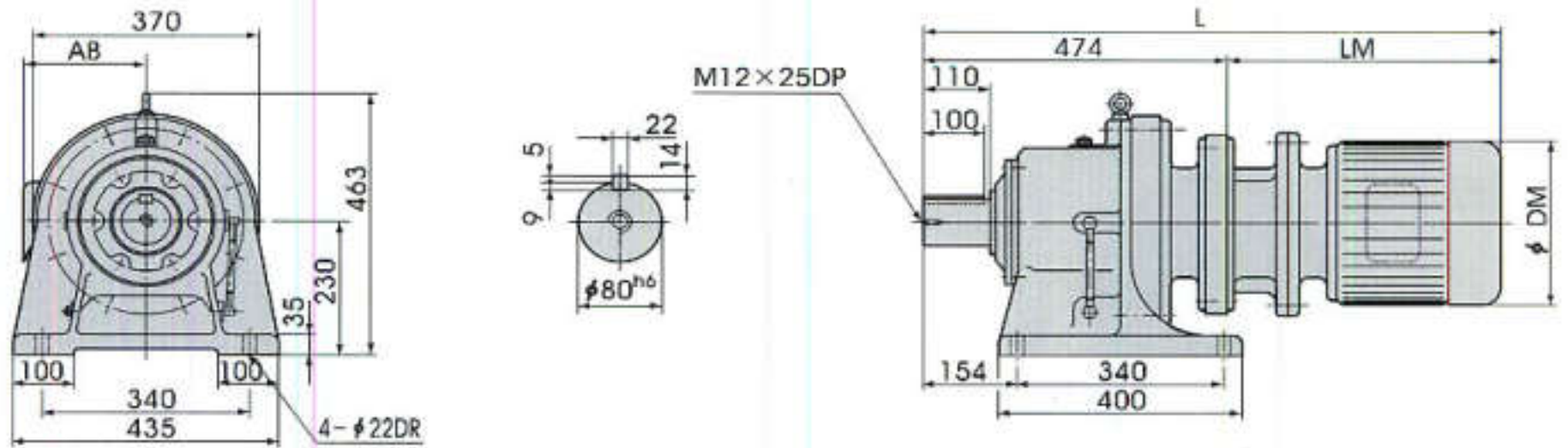
- Note) 1. Electric motor closed type, 3 phase induction motor (Dimensions are different with manufacturers each other)
2. Dimension tolerance : Output shaft h_6
3. Key KS B 1311-84 Parallel Key
4. Dimensions and specifications are subjected to change without notice.

MMJH-274



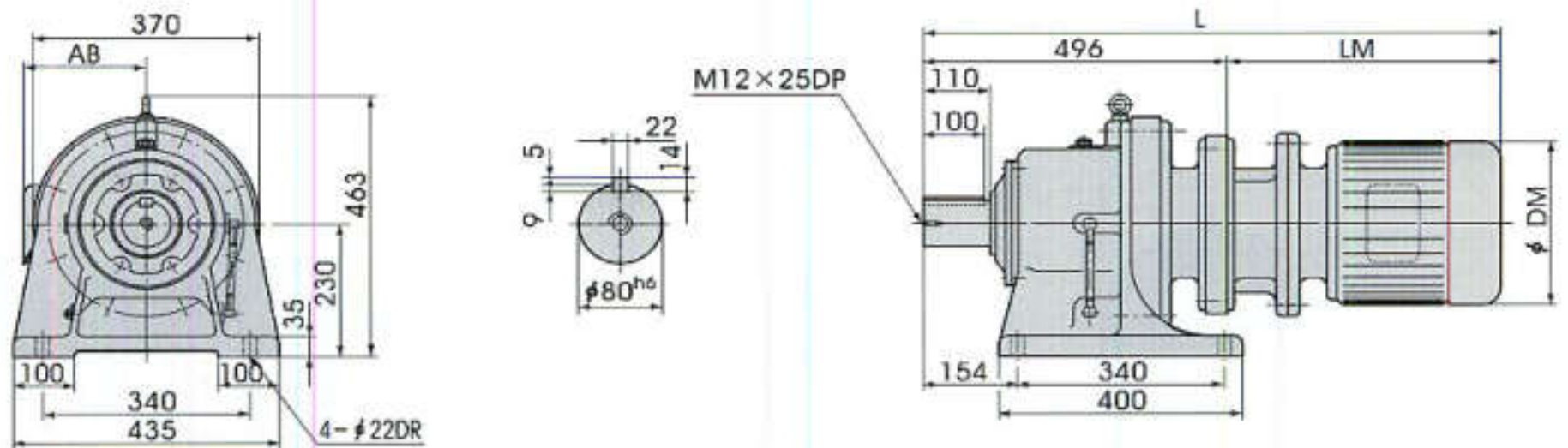
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
3.7	4	MMJH 5-274-	898	444	244	180	203	1028	574	244	180	212

MMJH-282



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.2	4	MMJH02-282-	783	309	148	124	184	883	409	148	124	187
0.4	4	MMJH05-282-	770	296	148	140	186	870	396	148	140	190

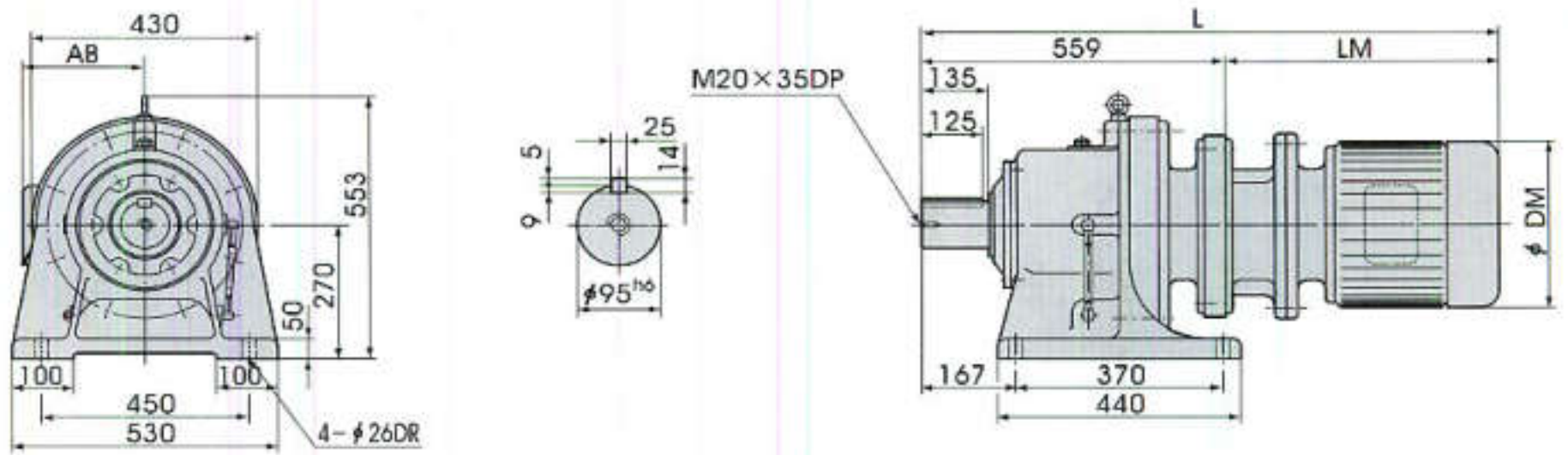
MMJH-284



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.75	4	MMJH 1-284-	848	352	180	135	218	948	452	180	135	222
1.5	4	MMJH 2-284-	910	414	199	150	231	1010	514	199	150	236
2.2	4	MMJH 3-284-	955	459	220	160	249	1055	559	220	160	257
3.7	4	MMJH 5-284-	940	444	244	180	253	1070	574	244	180	262

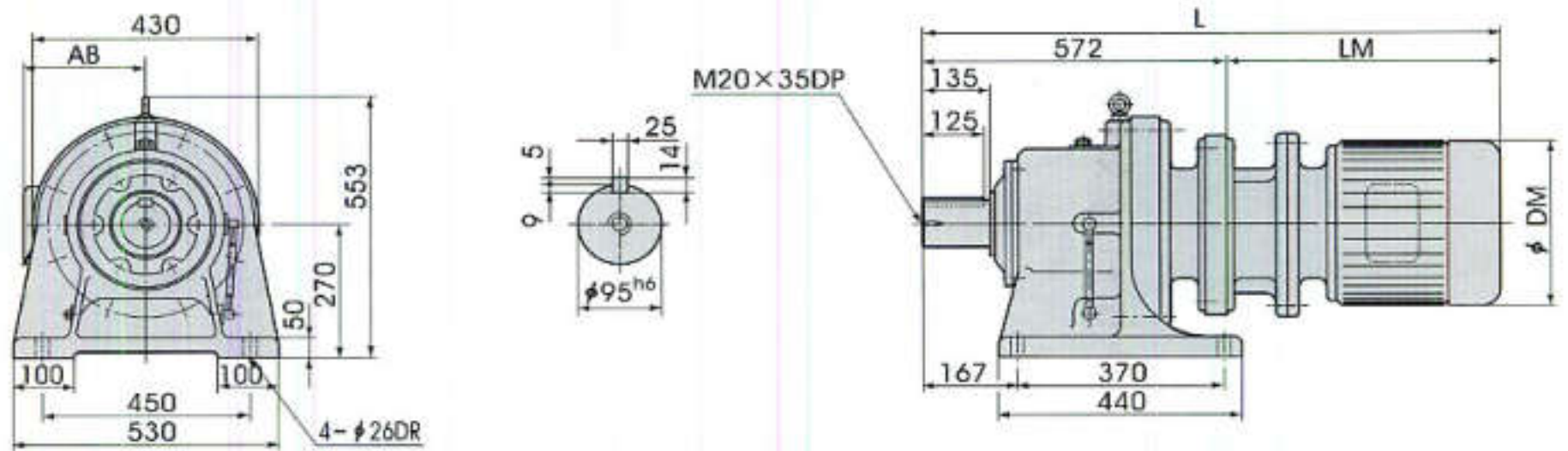
- Note) 1. Electric motor closed type, 3 phase induction motor(Dimensions are differ with manufacturers each other)
2. Dimension tolerance : Output shaft h₆
3. Key KS B 1311-84 Parallel Key
4. Dimensions and specifications are subjected to change without notice.

MMJH-293



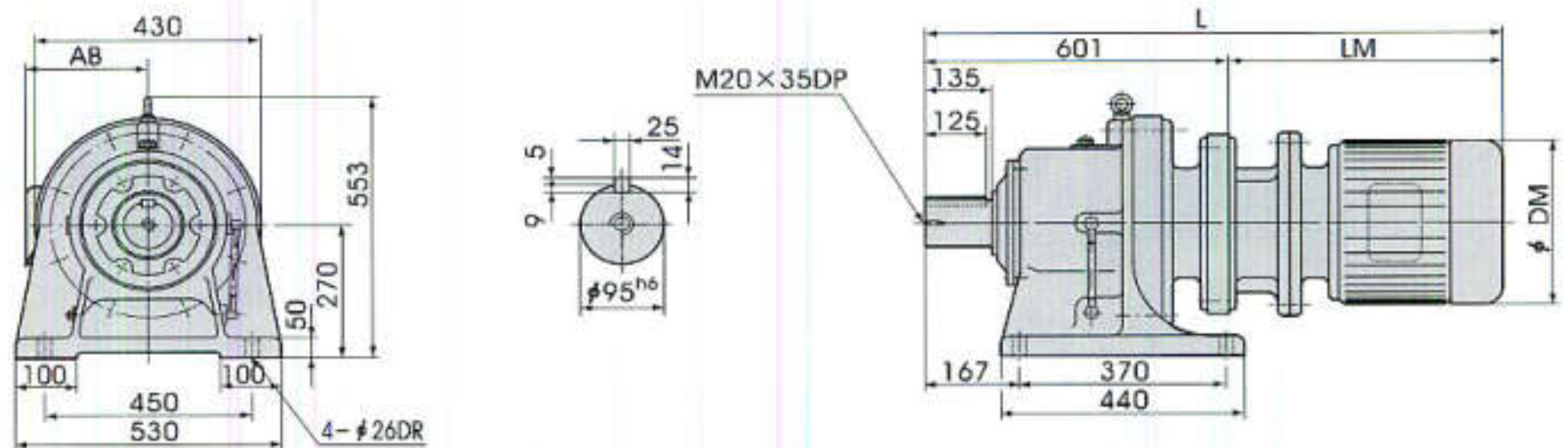
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.75	4	MMJH 1-293-	902	343	180	135	294	1002	443	180	135	298
1.5	4	MMJH 2-293-	964	405	199	150	312	1064	505	199	150	317

MMJH-294



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
1.5	4	MMJH 2-294-	986	414	199	150	320	1086	514	199	150	325
2.2	4	MMJH 3-294-	1031	459	220	160	338	1131	559	220	160	346
3.7	4	MMJH 5-294-	1016	444	244	180	342	1146	574	244	180	351

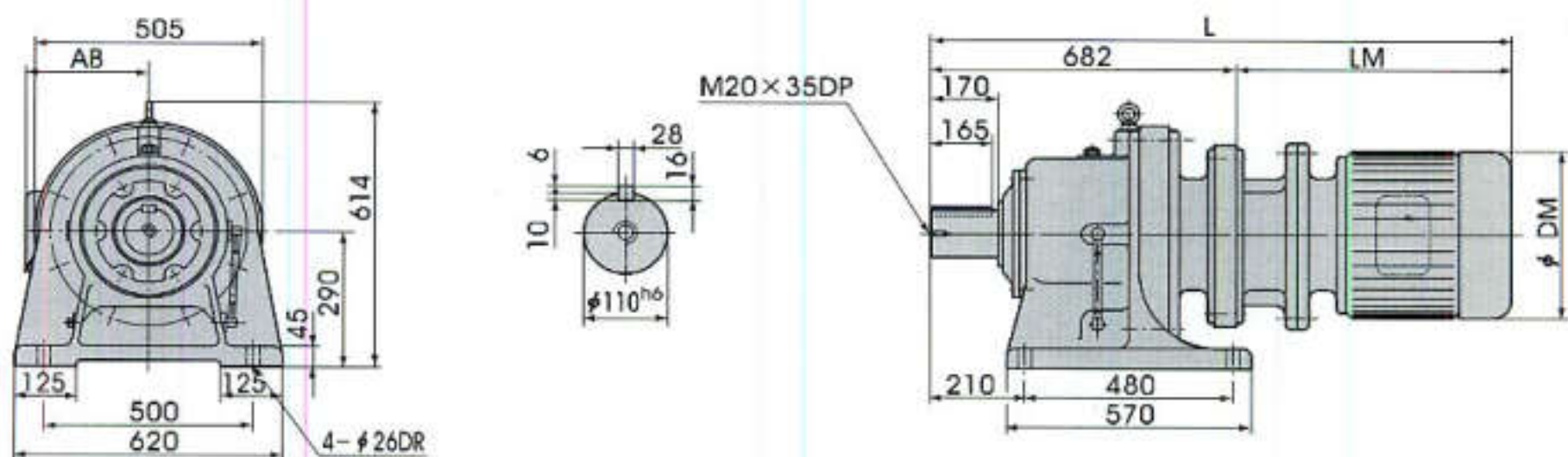
MMJH-296



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
7.5	4	MMJH10-296-	1150	549	284	200	385	1280	679	284	200	396

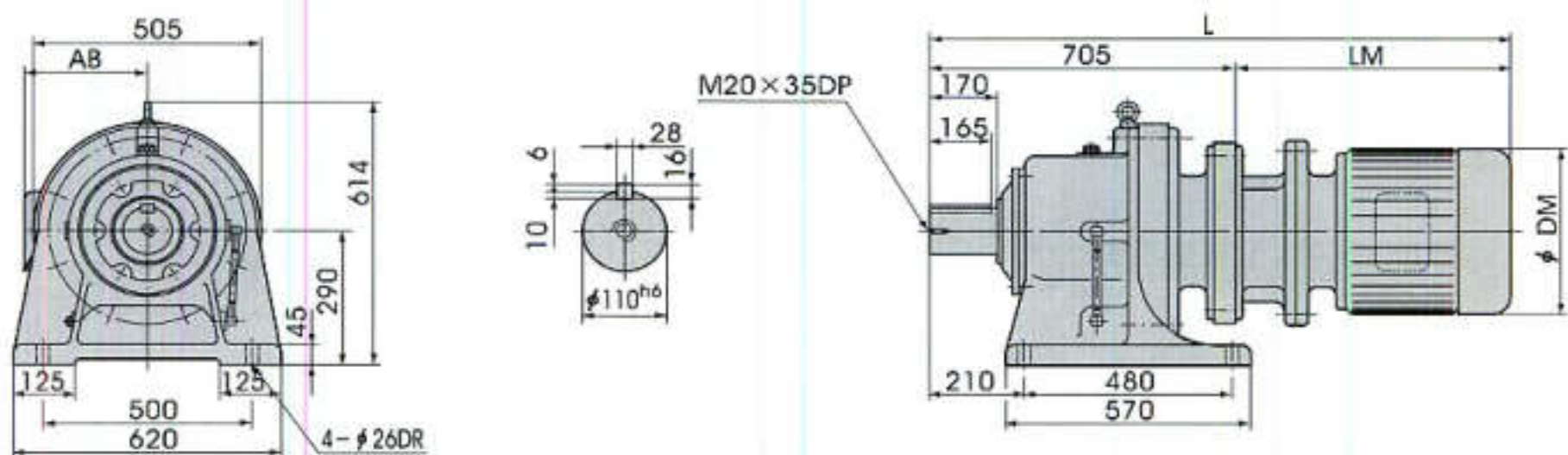
- Note) 1. Electric motor closed type, 3 phase induction motor(Dimensions are differ with manufacturers each other)
2. Dimension tolerance : Output shaft h₆
3. Key KS B 1311-84 Parallel Key
4. Dimensions and specifications are subjected to change without notice.

MMJH-2104



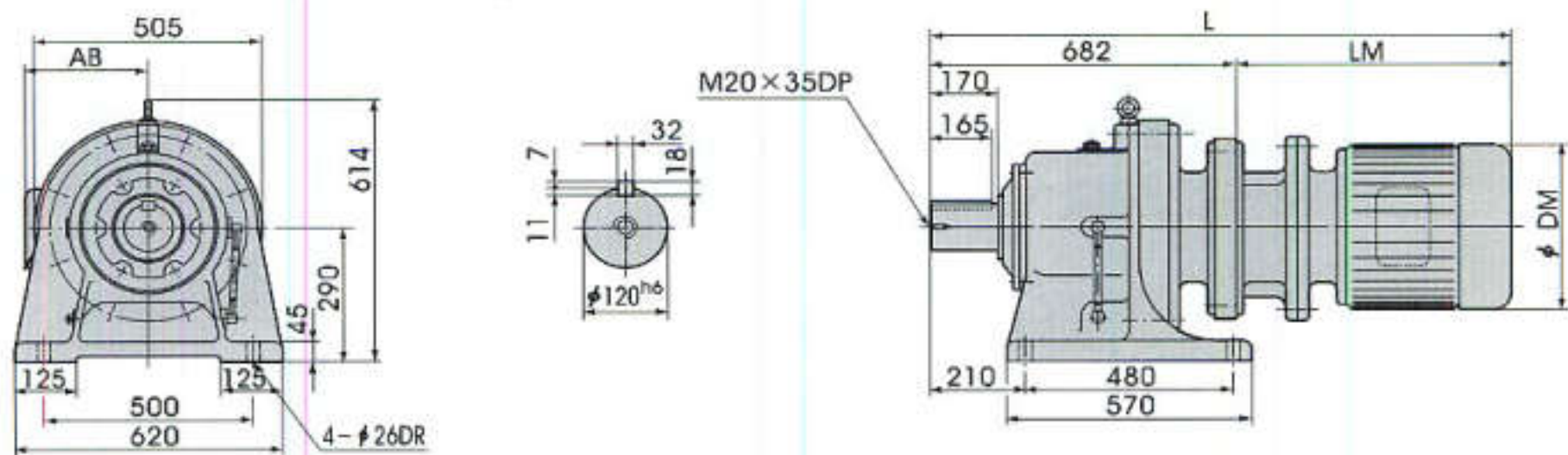
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
1.5	4	MMJH2-2104-	1096	414	199	150	472	1196	514	199	150	477
2.2	4	MMJH3-2104-	1141	459	220	160	490	1424	559	220	160	498
3.7	4	MMJH5-2104-	1126	444	244	180	494	1256	574	244	180	503

MMJH-2106



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
5.5	4	MMJH 8-2106-	1216	511	284	200	529	1346	641	284	200	540
7.5	4	MMJH10-2106-	1254	549	284	200	536	1384	679	284	200	547

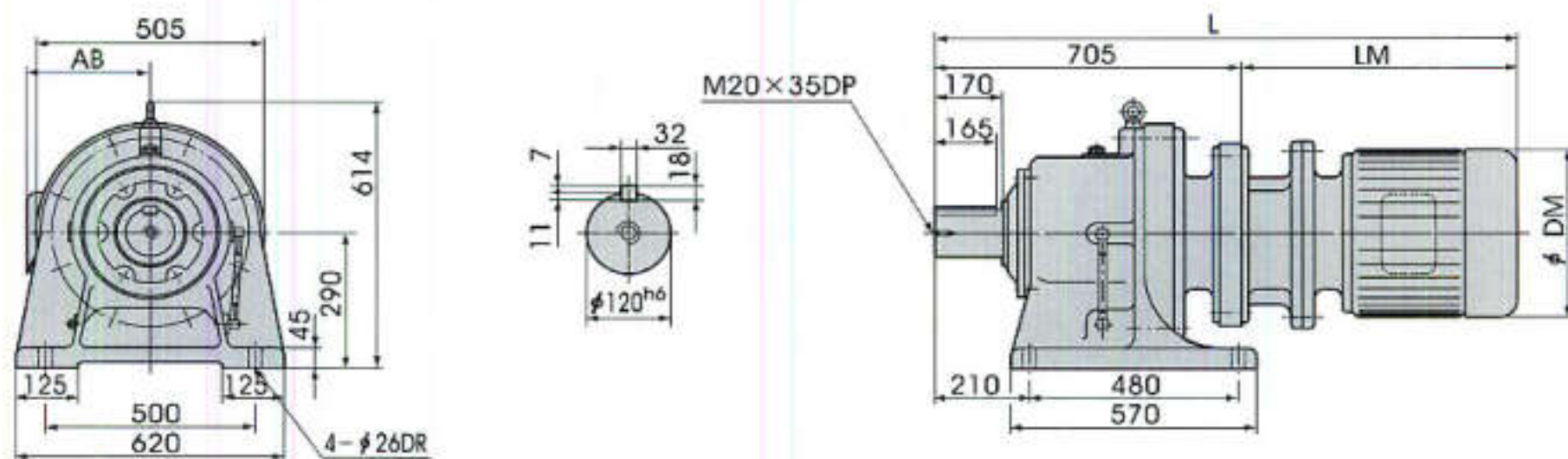
MMJH-2224



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
1.5	4	MMJH2-2224-	1096	414	199	150	477	1196	514	199	150	482
2.2	4	MMJH3-2224-	1141	459	220	160	495	1241	559	220	160	503
3.7	4	MMJH5-2224-	1126	444	244	180	499	1256	574	244	180	508

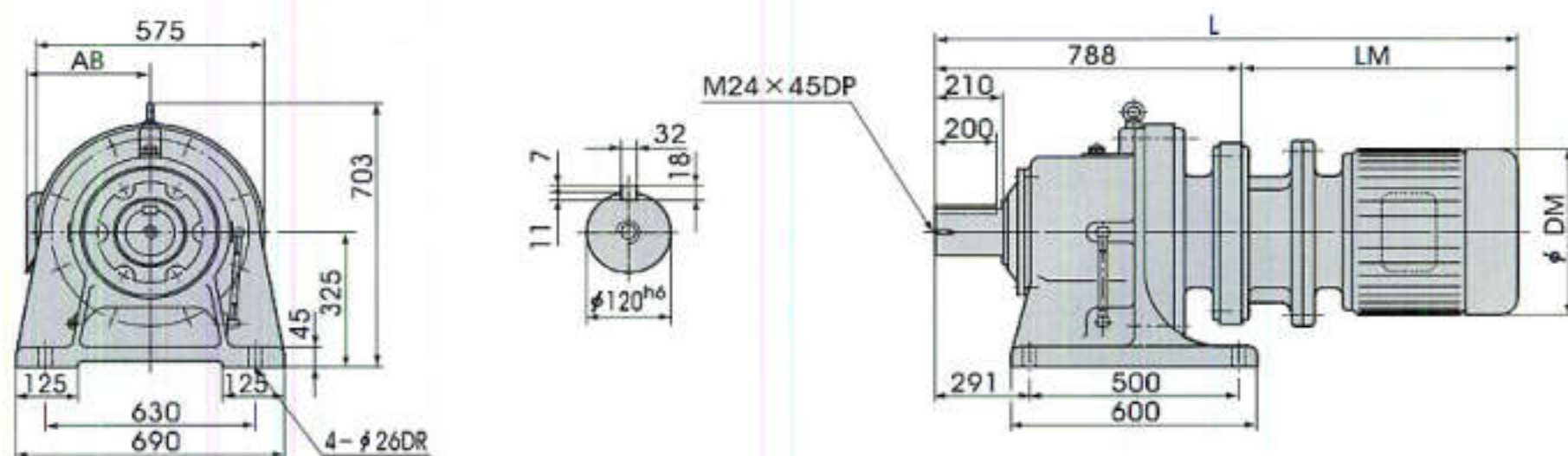
- Note) 1. Electric motor closed type, 3 phase induction motor (Dimensions are differ with manufacturers each other)
2. Dimension tolerance : Output shaft h₆
3. Key KS B 1311-84 Parallel Key
4. Dimensions and specifications are subjected to change without notice.

MMJH-2226



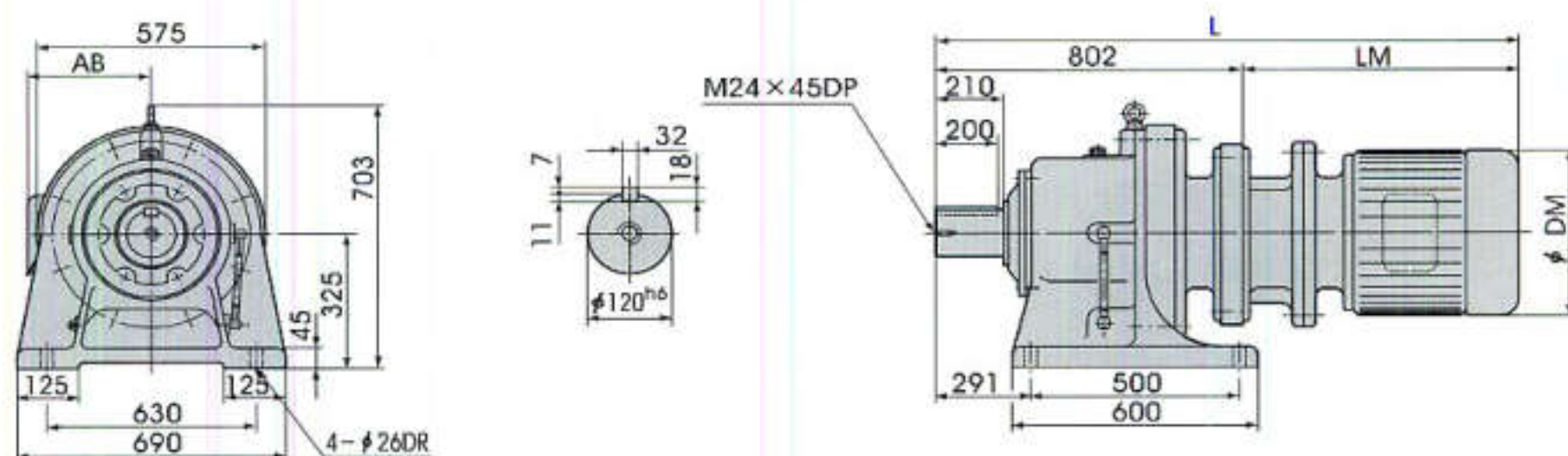
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
5.5	4	MMJH 8-2226-	1216	511	284	200	534	1346	641	284	200	545
7.5	4	MMJH10-2226-	1254	549	284	200	541	1384	679	284	200	552

MMJH-2116



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
2.2	4	MMJH 3-2116-	1245	457	220	160	631	1345	557	220	160	638
3.7	4	MMJH 5-2116-	1230	442	244	180	635	1360	572	244	180	644
5.5	4	MMJH 8-2116-	1299	511	284	200	663	1429	641	284	200	674
7.5	4	MMJH10-2116-	1337	549	284	200	670	1467	679	284	200	681

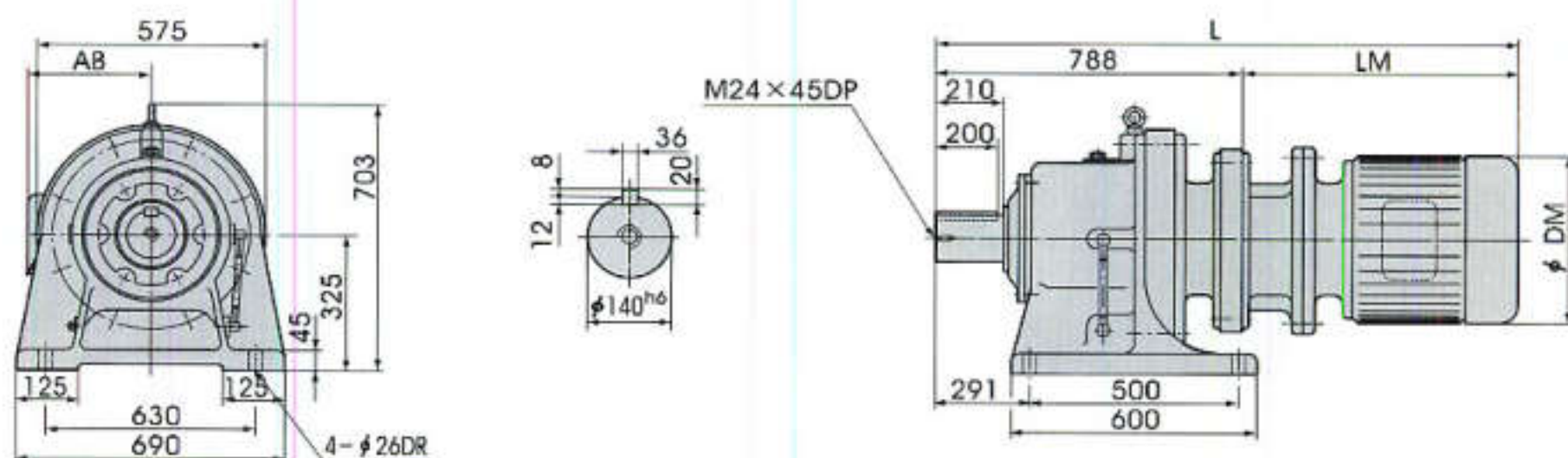
MMJH-2117



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
5.5	4	MMJH 8-2117-	1331	529	284	200	670	1461	659	284	200	681
7.5	4	MMJH10-2117-	1369	567	284	200	677	1499	697	284	200	688
11	4	MMJH15-2117-	1454	652	337	266	741	1584	782	337	266	760
15	4	MMJH20-2117-	1498	696	337	266	749	1628	826	337	266	768

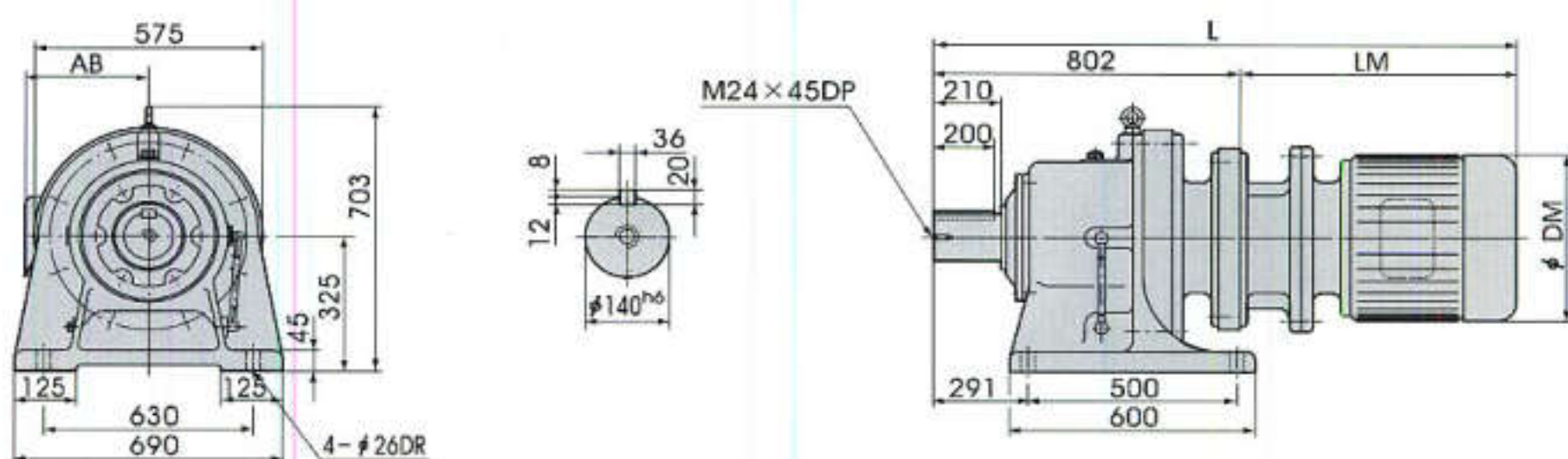
- Note) 1. Electric motor closed type, 3 phase induction motor (Dimensions are different with manufacturers each other)
 2. Dimension tolerance : Output shaft h_6
 3. Key KS B 1311-84 Parallel Key
 4. Dimensions and specifications are subjected to change without notice.

MMJH-2246



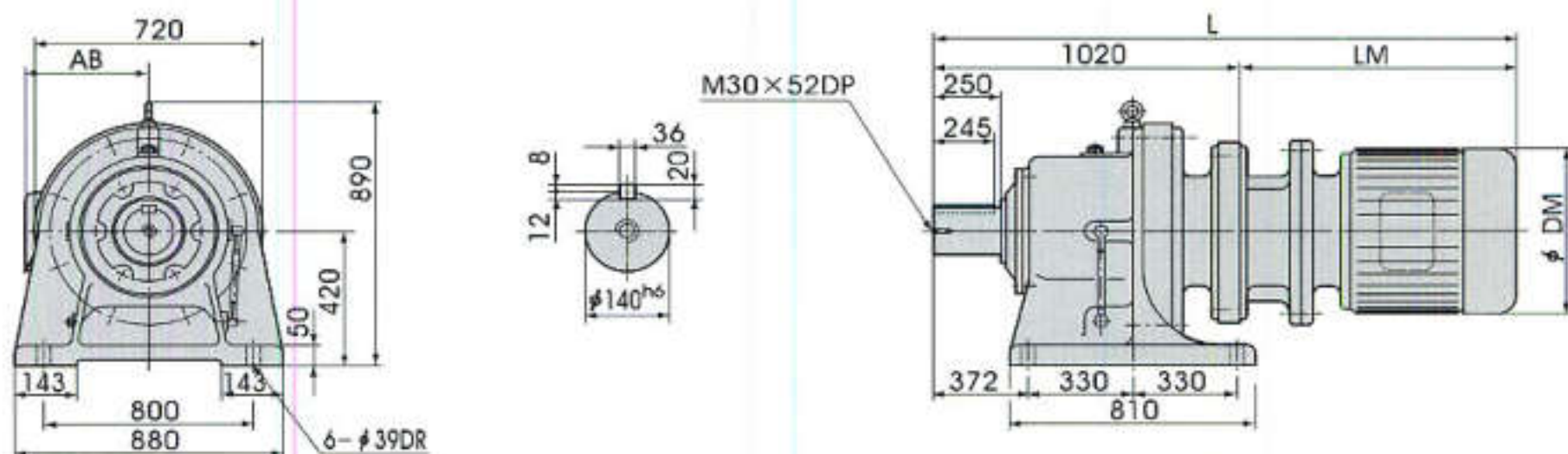
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
3.7	4	MMJH 5-2246-	1230	442	244	180	645	1360	572	244	180	654
5.5	4	MMJH 8-2246-	1299	511	284	200	673	1429	641	284	200	684
7.5	4	MMJH10-2246-	1337	549	284	200	680	1467	679	284	200	691

MMJH-2247



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
15	4	MMJH20-2247-	1498	696	337	266	759	1628	826	337	266	778

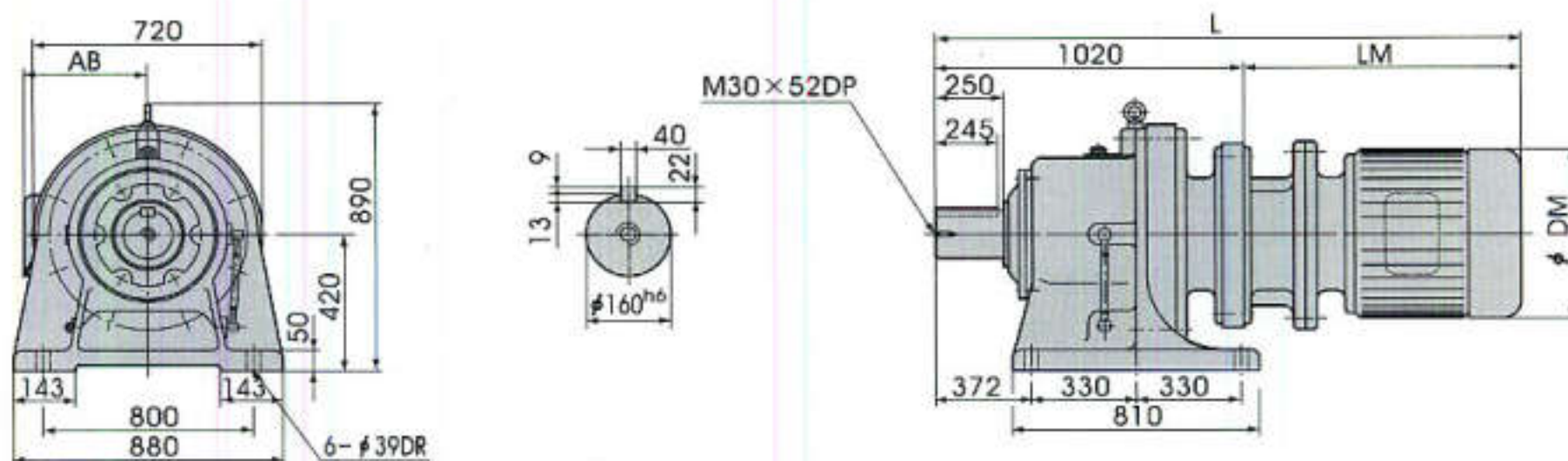
MMJH-2128



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
5.5	4	MMJH 8-2128-	1543	523	284	200	1292	1673	653	284	200	1303
7.5	4	MMJH10-2128-	1581	561	284	200	1299	1711	691	284	200	1310
11	4	MMJH15-2128-	1666	646	337	266	1358	1796	776	337	266	1377
15	4	MMJH20-2128-	1710	690	337	266	1366	1840	820	337	266	1385

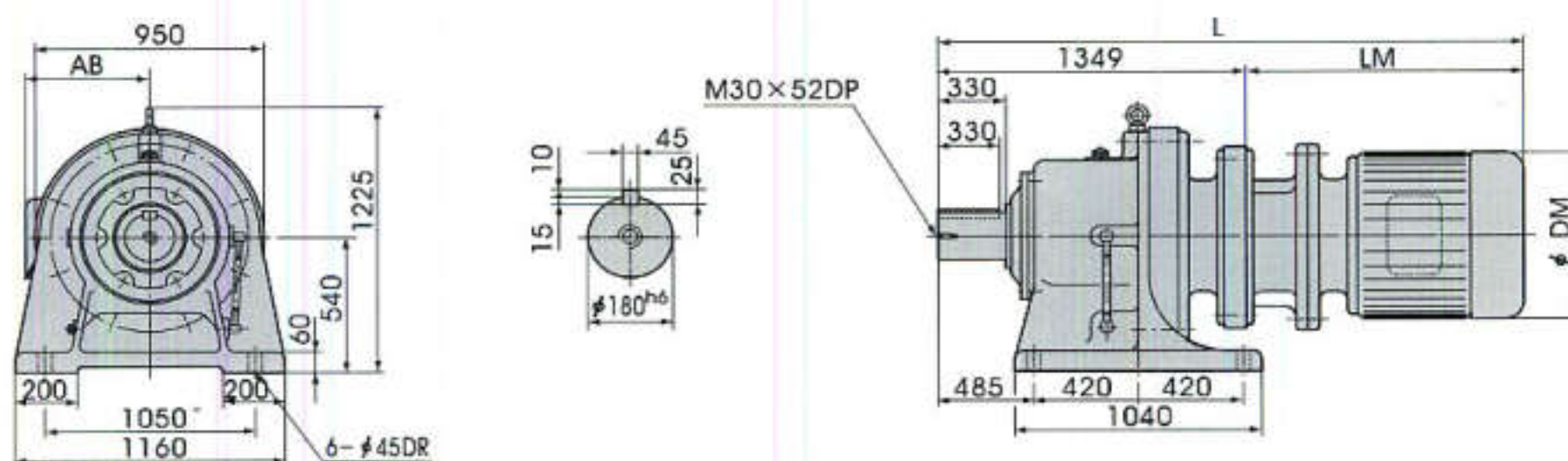
- Note) 1. Electric motor closed type, 3 phase induction motor (Dimensions are different with manufacturers each other)
2. Dimension tolerance : Output shaft h₆
3. Key KS B 1311-84 Parallel Key
4. Dimensions and specifications are subjected to change without notice.

MMJH-2258



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
7.5	4	MMJH10-2258-	1581	561	284	200	1307	1711	691	284	200	1325
11	4	MMJH15-2258-	1666	646	337	266	1314	1796	776	337	266	1392
15	4	MMJH20-2258-	1710	690	337	266	1381	1840	820	337	266	1400

MMJH-2139

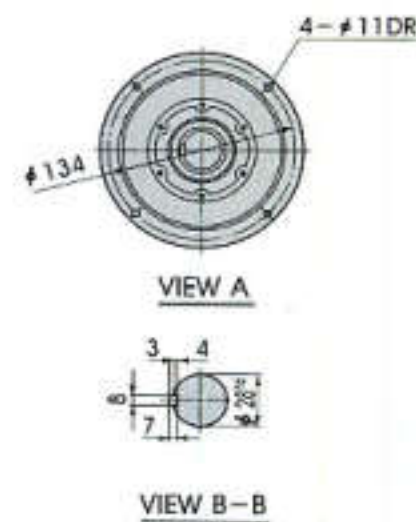
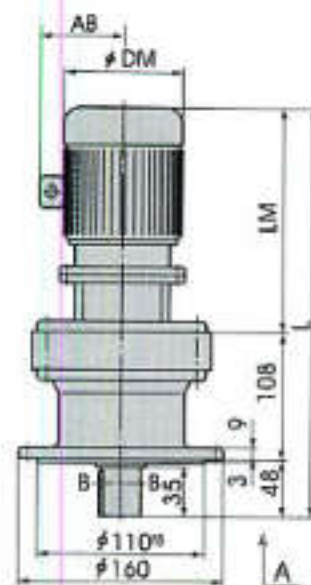


MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
7.5	4	MMJH10-2139-	1912	563	284	200	2640	2042	693	284	200	2651
11	4	MMJH15-2139-	1997	648	337	266	2703	2127	778	337	266	2718
15	4	MMJH20-2139-	2041	692	337	266	2711	2171	822	337	266	2726
22	4	MMJH30-2139-	2081	732	374	288	2726	2241	892	374	288	2747

Note) 1. Electric motor closed type, 3 phase induction motor(Dimensions are differ with manufacturers each other)
2. Dimension tolerance : Output shaft h_6
3. Key KS B 1311-84 Parallel Key
4. Dimensions and specifications are subjected to change without notice.

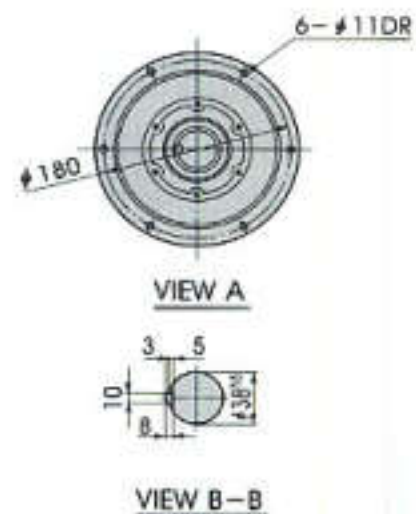
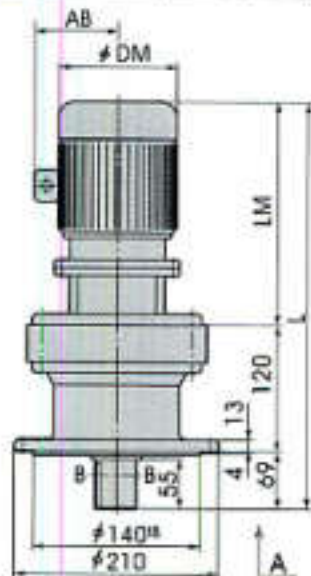
5-3) DIMENSIONS : MMJV Single Reduction Type

MMJV-102



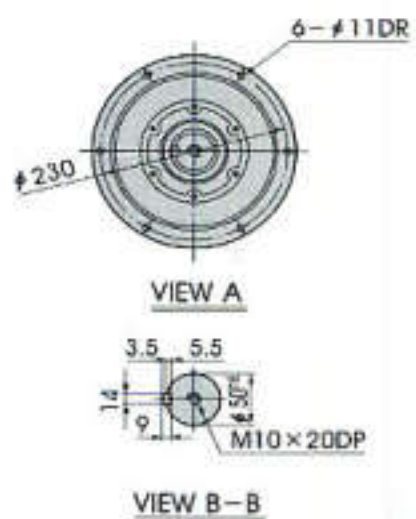
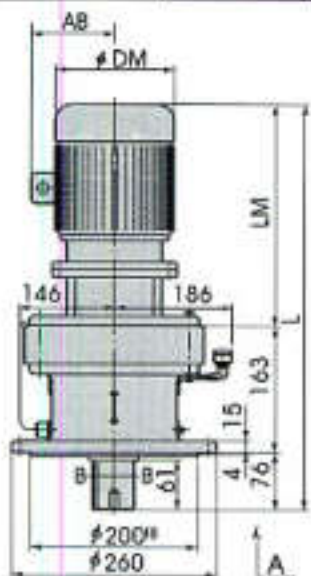
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.2	4	MMJV02-102-	465	309	148	124	27	565	409	148	124	30
0.4	4	MMJV05-102-	452	296	148	140	29	552	396	148	140	33
0.75	4	MMJV 1-102-	496	340	180	135	35	596	440	180	135	39

MMJV-103



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.4	4	MMJV05-103-	488	299	148	140	33	588	399	148	140	37
0.75	4	MMJV 1-103-	532	343	180	135	36	632	443	180	135	40
1.5	4	MMJV 2-103-	594	405	199	150	57	694	505	199	150	62
2.2	4	MMJV 3-103-	639	450	220	160	75	739	550	220	160	82

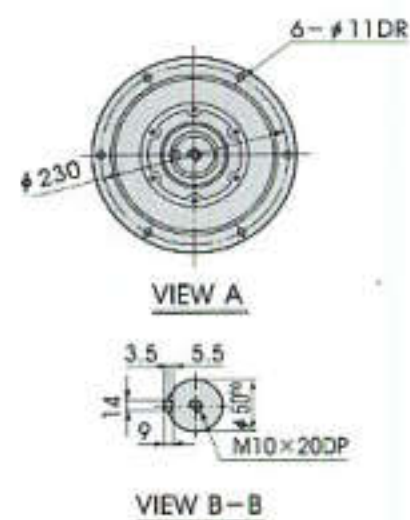
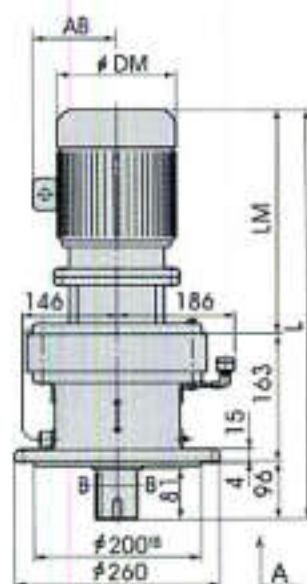
MMJV-104



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.75	4	MMJV 1-104-	591	352	180	135	61	691	452	180	135	65
1.5	4	MMJV 2-104-	653	414	199	150	77	753	514	199	150	82
2.2	4	MMJV 3-104-	698	459	220	160	95	798	559	220	160	102
3.7	4	MMJV 5-104-	683	444	244	180	99	813	574	244	180	108

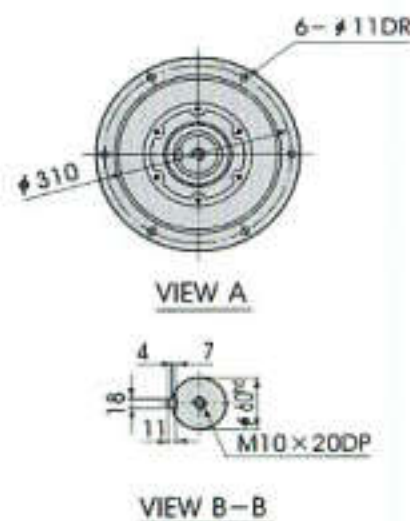
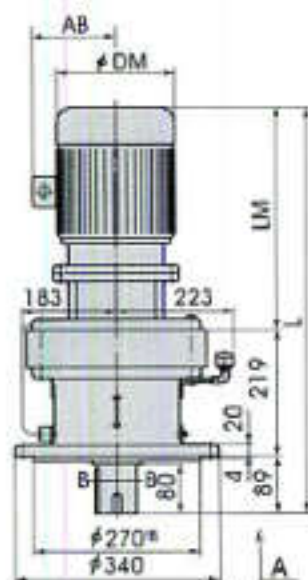
- Note) 1. Electric motor closed type, 3 phase induction motor(Dimensions are differ with manufacturers each other)
 2. Dimension tolerance : Output shaft h_8
 3. Key KS B 1311-84 Parallel Key
 4. Dimensions and specifications are subjected to change without notice.

MMJV-105



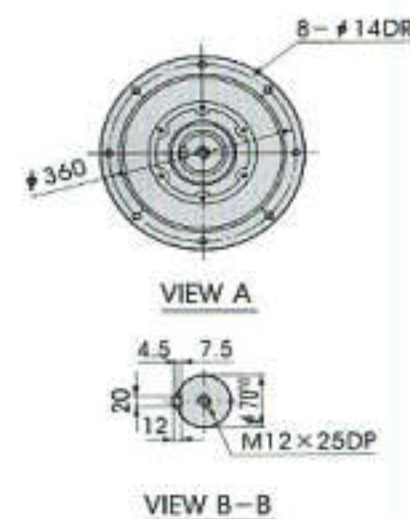
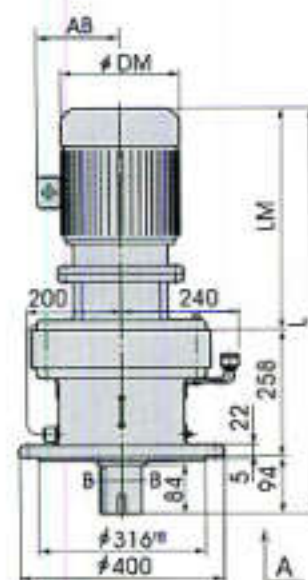
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
1.5	4	MMJV 2-105-	673	414	199	150	79	773	514	199	150	84
2.2	4	MMJV 3-105-	718	459	220	160	97	818	559	220	160	104
3.7	4	MMJV 5-105-	703	444	244	180	101	833	574	244	180	110

MMJV-106



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
2.2	4	MMJV 3-106-	765	457	220	160	136	865	557	220	160	143
3.7	4	MMJV 5-106-	750	442	244	180	140	880	572	244	180	149
5.5	4	MMJV 8-106-	819	511	284	200	178	949	641	284	200	189
7.5	4	MMJV10-106-	857	549	284	200	185	987	679	284	200	196

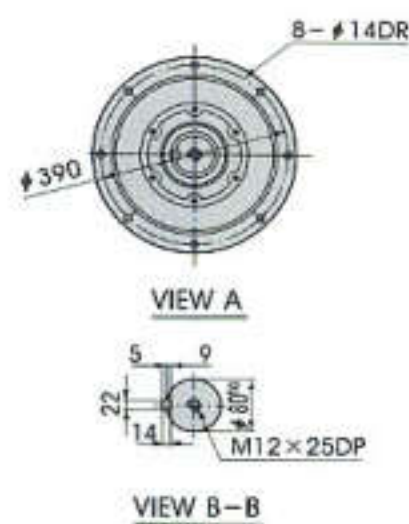
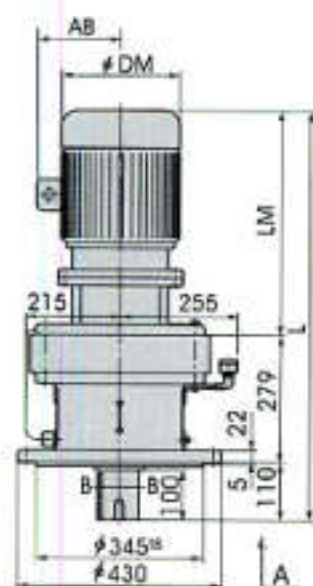
MMJV-107



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
3.7	4	MMJV 5-107-	799	447	244	180	172	929	577	244	180	181
5.5	4	MMJV 8-107-	881	529	284	200	186	1011	659	284	200	195
7.5	4	MMJV10-107-	919	567	284	200	193	1049	697	284	200	204
11	4	MMJV15-107-	1004	652	337	266	256	1134	782	337	266	271
15	4	MMJV20-107-	1048	696	337	266	264	1178	826	337	266	279

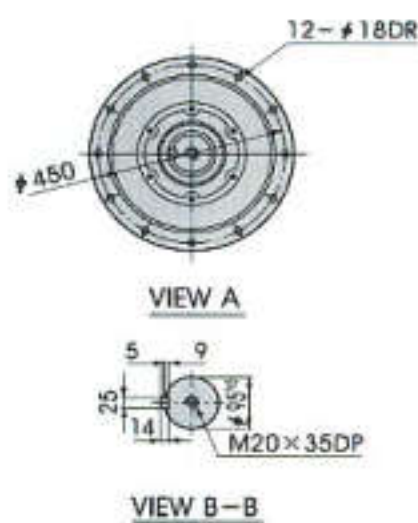
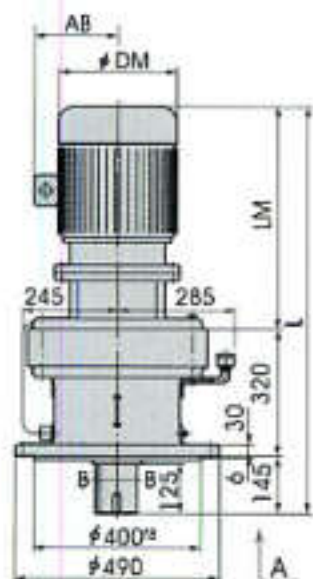
- Note) 1. Electric motor closed type, 3 phase induction motor(Dimensions are differ with manufacturers each other)
2. Dimension tolerance : Output shaft h₆
3. Key KS B 1311-84 Parallel Key
4. Dimensions and specifications are subjected to change without notice.

MMJV-108



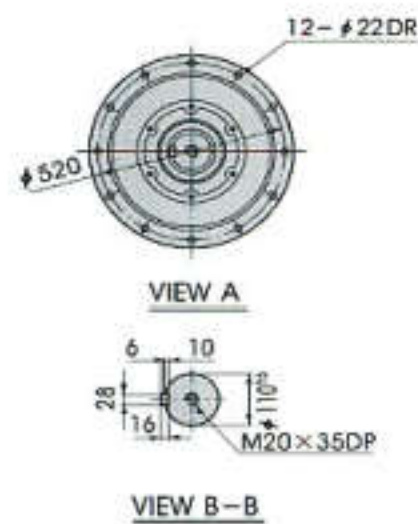
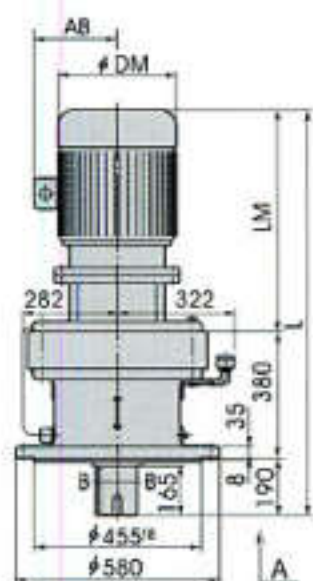
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
5.5	4	MMJV 8-108-	912	523	284	200	243	1042	653	284	200	254
7.5	4	MMJV10-108-	950	561	284	200	250	1080	691	284	200	261
11	4	MMJV15-108-	1035	646	337	266	310	1165	776	337	266	329
15	4	MMJV20-108-	1079	690	337	266	318	1209	820	337	266	337

MMJV-109



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
7.5	4	MMJV10-109-	1028	563	284	200	365	1158	693	284	200	376
11	4	MMJV15-109-	1113	648	337	266	427	1243	778	337	266	446
15	4	MMJV20-109-	1157	692	337	266	435	1287	822	337	266	462
22	4	MMJV30-109-	1197	732	374	288	458	1357	892	374	288	485

MMJV-110

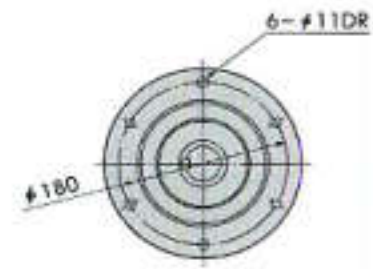
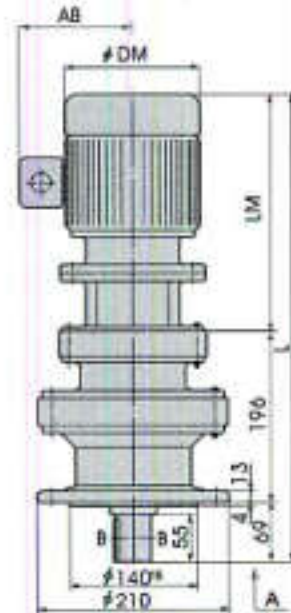


MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
11	4	MMJV15-110-	1224	654	337	266	532	1354	784	337	266	552
15	4	MMJV20-110-	1268	698	337	266	540	1398	828	337	266	560
22	4	MMJV30-110-	1308	738	374	288	571	1468	898	374	288	598
30	4	MMJV40-110-	1346	776	374	288	587	1506	936	374	288	614

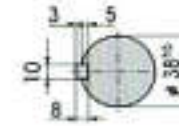
- Note) 1. Electric motor closed type, 3 phase induction motor(Dimensions are differ with manufacturers each other)
 2. Dimension tolerance : Output shaft h_8
 3. Key KS B 1311-84 Parallel Key
 4. Dimensions and specifications are subjected to change without notice.

5-4) DIMENSIONS : MMJV Double Reduction Type

MMJV-232



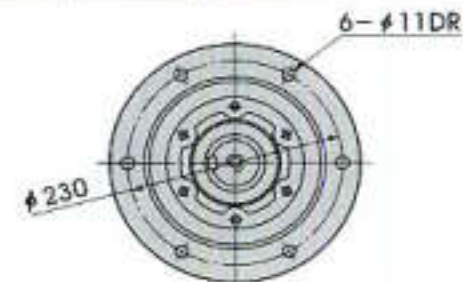
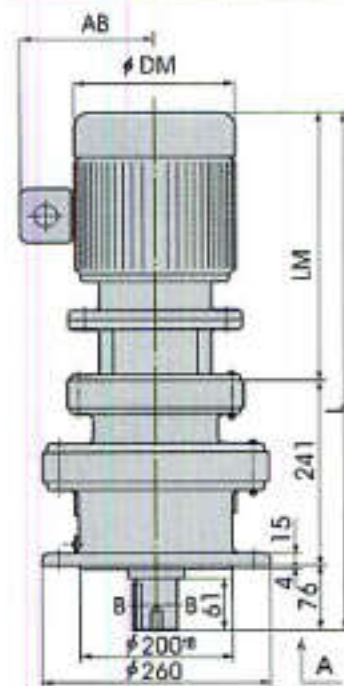
VIEW A



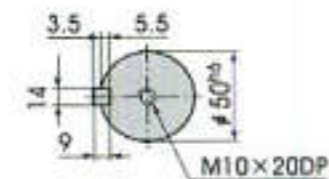
VIEW B-B

MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.2	4	MMJV02-232-	574	309	148	124	49	674	409	148	124	49
0.4	4	MMJV05-232-	561	296	148	140	49	661	396	148	140	52
0.75	4	MMJV 1-232-	605	340	180	135	54	705	440	180	135	58

MMJV-242



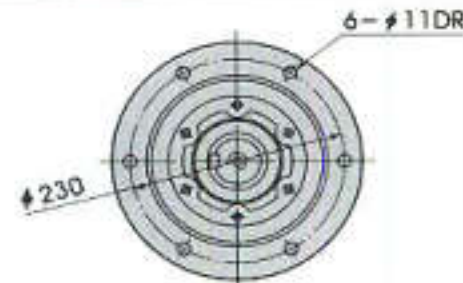
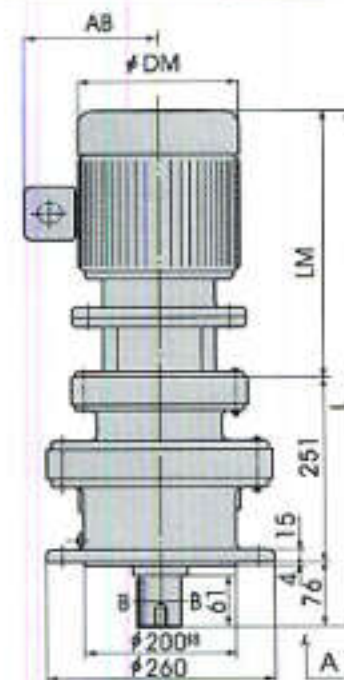
VIEW A



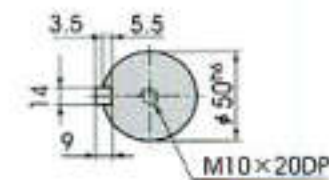
VIEW B-B

MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.2	4	MMJV02-242-	626	309	148	124	59	726	409	148	124	62
0.4	4	MMJV05-242-	613	296	148	140	62	713	396	148	140	65

MMJV-243



VIEW A

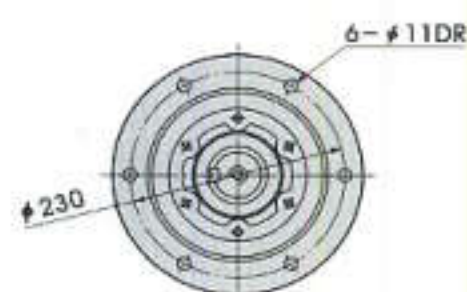
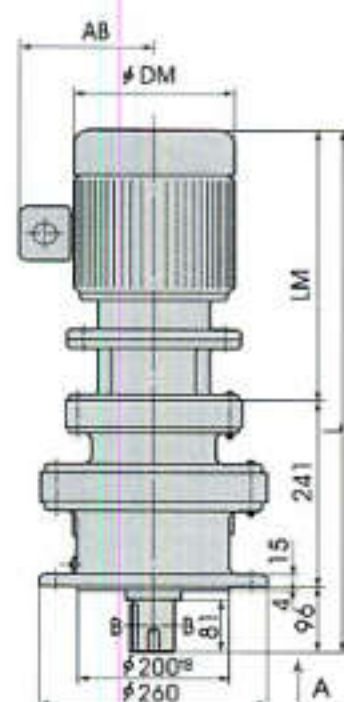


VIEW B-B

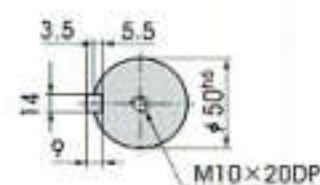
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.75	4	MMJV 1-243-	670	343	180	135	71	770	443	180	135	75
1.5	4	MMJV 2-243-	732	405	199	150	89	832	505	199	150	94

- Note) 1. Electric motor closed type, 3 phase induction motor(Dimensions are differ with manufacturers each other)
 2. Dimension tolerance : Output shaft h_8
 3. Key KS B 1311-84 Parallel Key
 4. Dimensions and specifications are subjected to change without notice.

MMJV-252



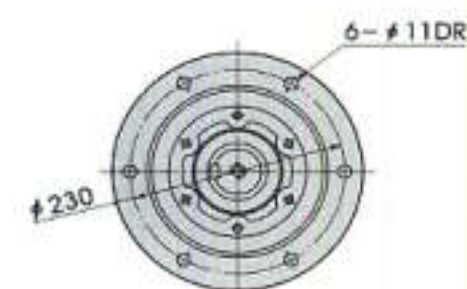
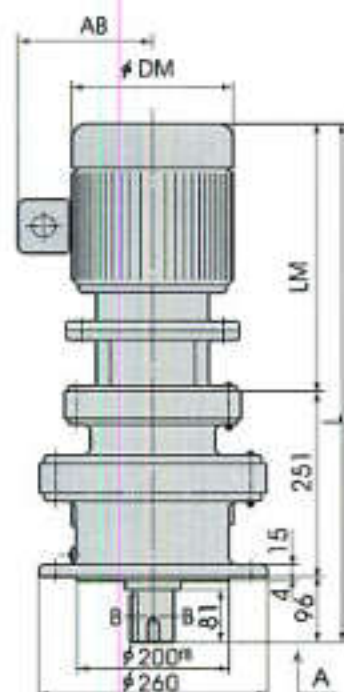
VIEW A



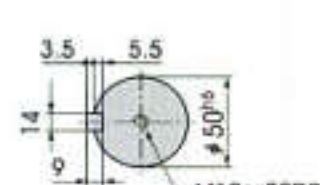
VIEW B-B

MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.2	4	MMJV02-252-	646	309	148	124	61	746	409	148	124	64
0.4	4	MMJV05-252-	633	296	148	140	63	733	396	148	140	66

MMJV-253



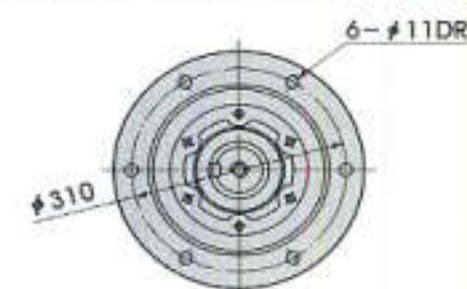
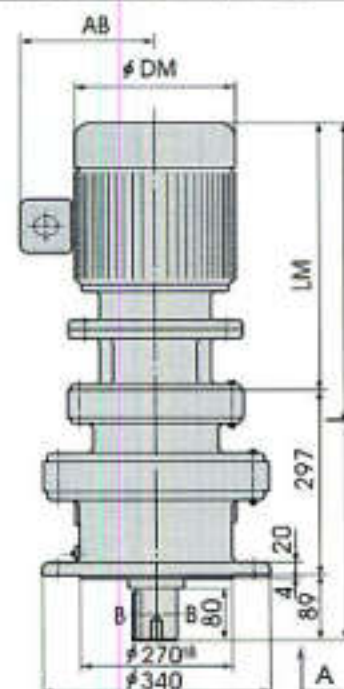
VIEW A



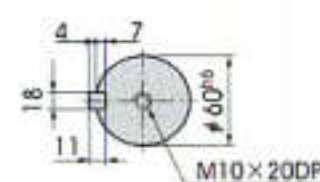
VIEW B-B

MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.75	4	MMJV 1-253-	690	343	180	135	76	790	443	180	135	76

MMJV-262



VIEW A



VIEW B-B

MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.2	4	MMJV02-262-	695	309	148	124	110	795	409	148	124	113
0.4	4	MMJV05-262-	682	296	148	140	112	782	396	148	140	115

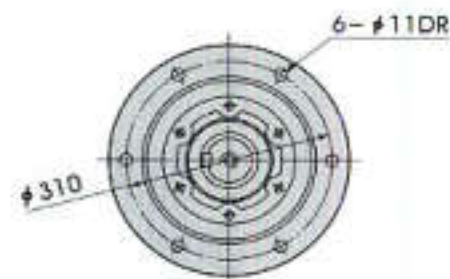
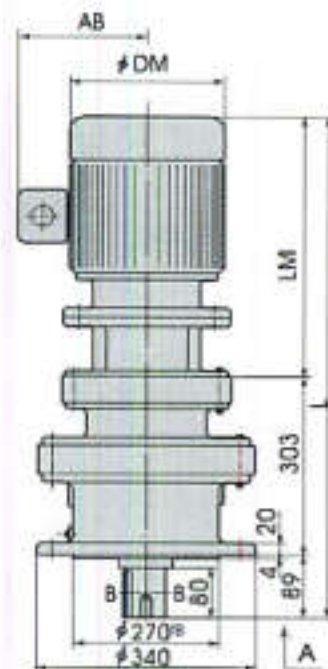
Note) 1. Electric motor closed type, 3 phase induction motor(Dimensions are differ with manufacturers each other)

2. Dimension tolerance : Output shaft h_6

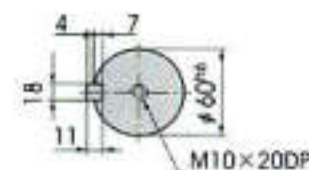
3. Key KS B 1311-84 Parallel Key

4. Dimensions and specifications are subjected to change without notice.

MMJV-263



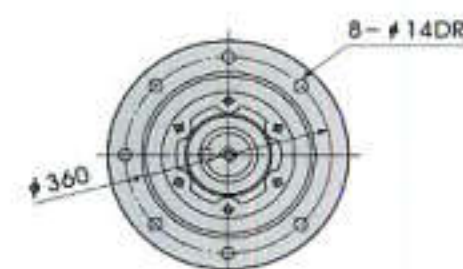
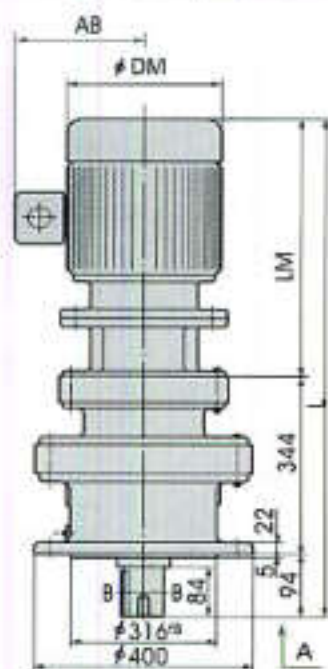
VIEW A



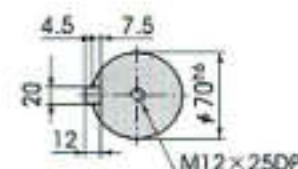
VIEW B-B

MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.4	4	MMJV05-263-	691	299	148	140	120	791	339	148	140	124
0.75	4	MMJV 1-263-	735	343	180	135	125	835	443	180	135	129
1.5	4	MMJV 2-263-	797	405	199	150	141	897	505	199	150	146
2.2	4	MMJV 3-263-	842	450	220	160	158	942	550	200	160	165

MMJV-272



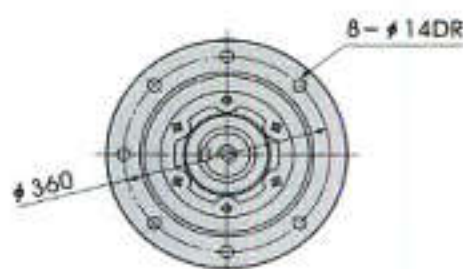
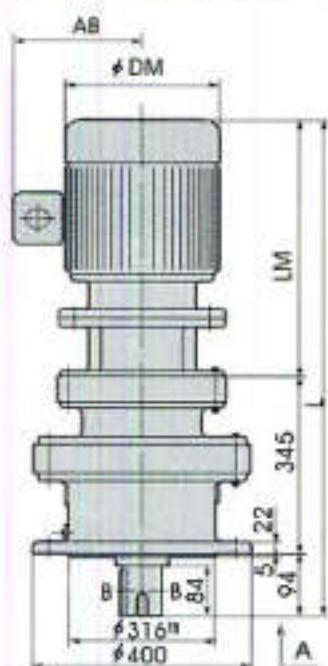
VIEW A



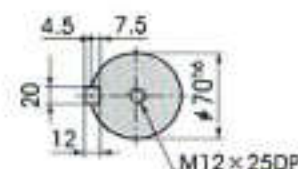
VIEW B-B

MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.2	4	MMJV02-272-	747	309	148	124	139	847	409	148	124	143
0.4	4	MMJV05-272-	734	296	148	140	141	834	396	148	140	145

MMJV-273



VIEW A

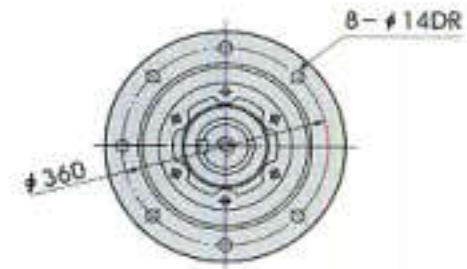
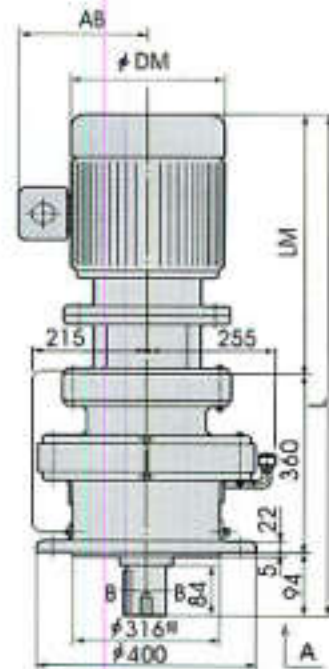


VIEW B-B

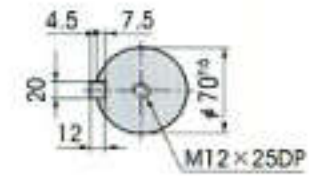
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.75	4	MMJV 1-273-	782	343	180	135	155	882	443	180	135	155
1.5	4	MMJV 2-273-	844	405	199	150	174	944	505	199	150	179
2.2	4	MMJV 3-273-	889	450	220	160	191	989	550	220	160	198

- Note) 1. Electric motor closed type, 3 phase induction motor(Dimensions are differ with manufacturers each other)
2. Dimension tolerance : Output shaft h₈
3. Key KS B 1311-84 Parallel Key
4. Dimensions and specifications are subjected to change without notice.

MMJV-274



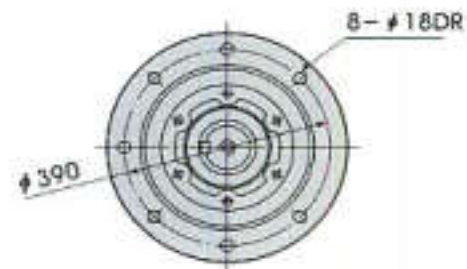
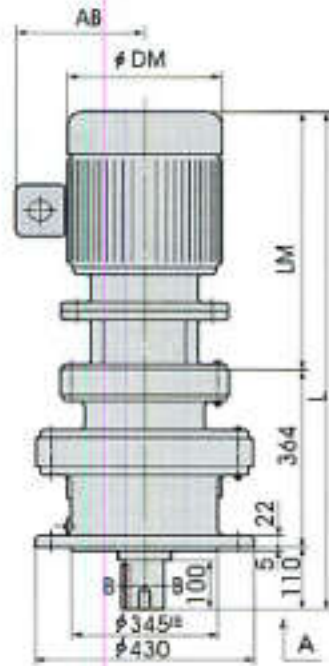
VIEW A



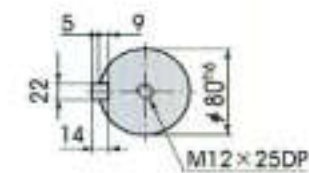
VIEW B-B

MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
3.7	4	MMJV 5-274-	898	444	244	180	210	1028	574	244	180	219

MMJV-282



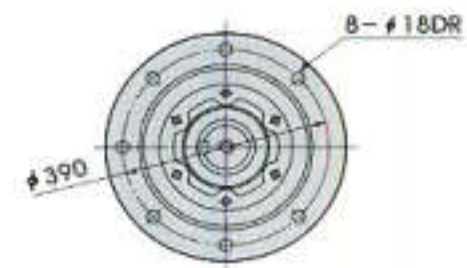
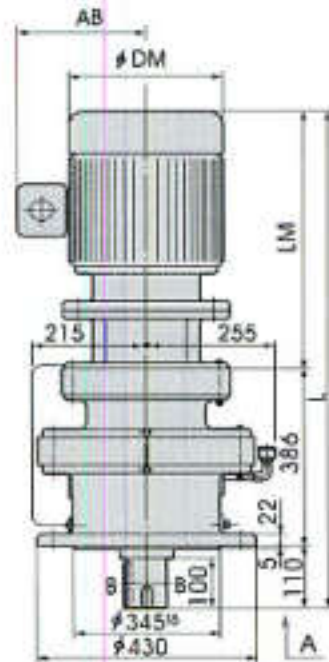
VIEW A



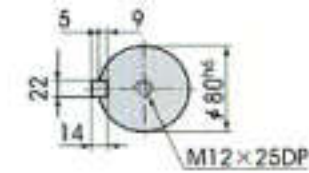
VIEW B-B

MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.4	4	MMJV05-282-	770	296	148	140	182	870	396	148	140	186

MMJV-284



VIEW A

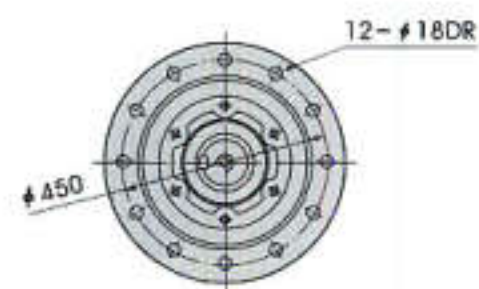
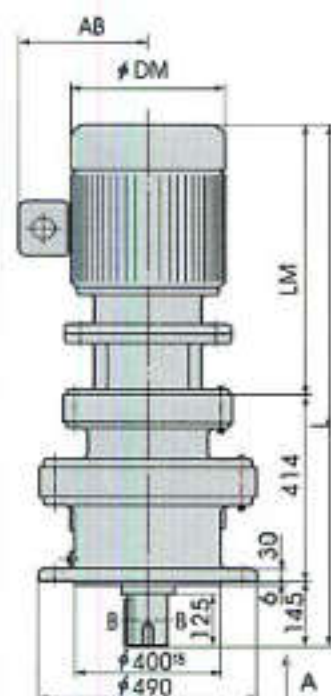


VIEW B-B

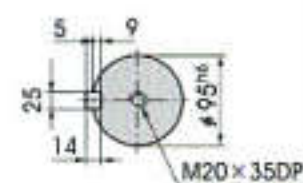
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.75	4	MMJV 1-284-	848	352	180	135	220	948	452	180	135	222
1.5	4	MMJV 2-284-	910	414	199	150	224	1010	514	199	150	229
2.2	4	MMJV 3-284-	955	459	220	160	238	1055	559	220	160	246
3.7	4	MMJV 5-284-	940	444	244	180	246	1070	574	244	180	255

- Note) 1. Electric motor closed type, 3 phase induction motor(Dimensions are differ with manufacturers each other)
 2. Dimension tolerance : Output shaft h₆
 3. Key KS B 1311-84 Parallel Key
 4. Dimensions and specifications are subjected to change without notice.

MMJV-293



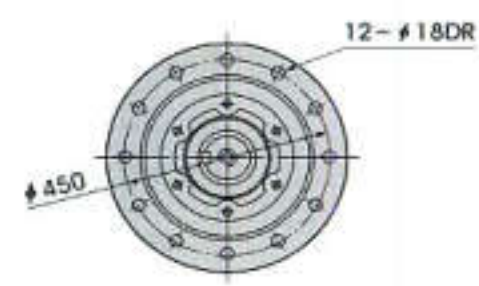
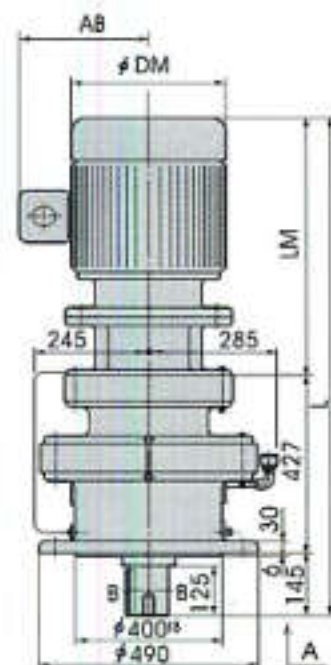
VIEW A



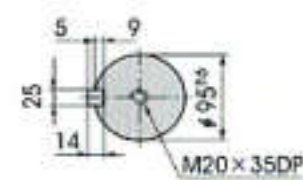
VIEW B-B

MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.75	4	MMJV 1-293-	902	343	180	135	274	1002	443	180	135	278
1.5	4	MMJV 2-293-	964	405	199	150	291	1064	505	199	150	296

MMJV-294



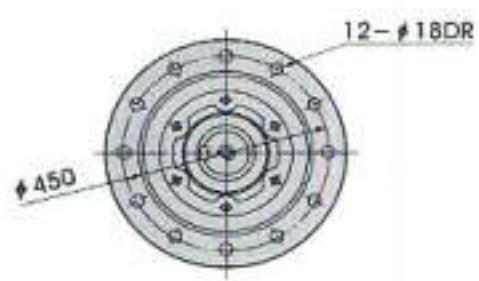
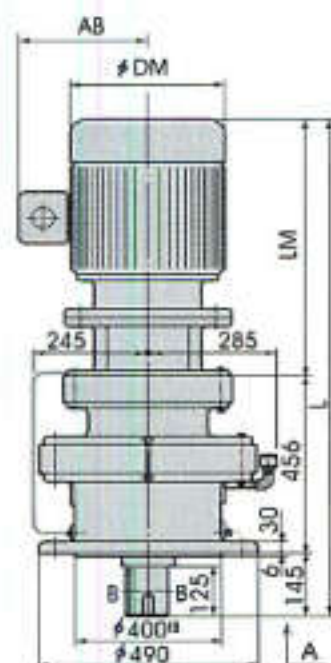
VIEW A



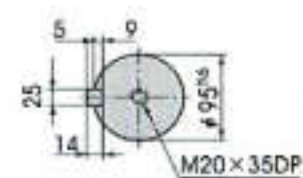
VIEW B-B

MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
1.5	4	MMJV 2-294-	986	414	199	150	304	1086	514	199	150	308
2.2	4	MMJV 3-294-	1031	459	220	160	318	1131	559	220	160	325
3.7	4	MMJV 5-294-	1016	444	244	180	322	1146	574	244	180	331

MMJV-296



VIEW A

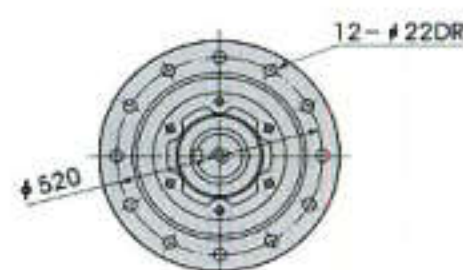
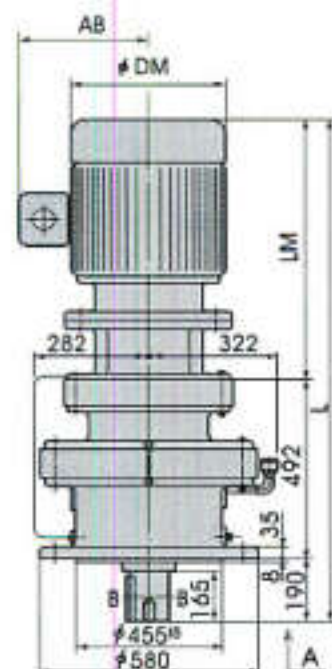


VIEW B-B

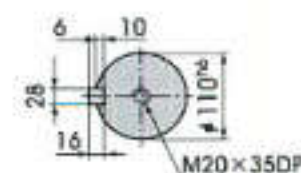
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
7.5	4	MMJV10-296-	1150	549	284	200	404	1280	679	284	200	415

- Note) 1. Electric motor closed type, 3 phase induction motor(Dimensions are differ with manufacturers each other)
 2. Dimension tolerance : Output shaft h_6
 3. Key KS B 1311-84 Parallel Key
 4. Dimensions and specifications are subjected to change without notice.

MMJV-2104



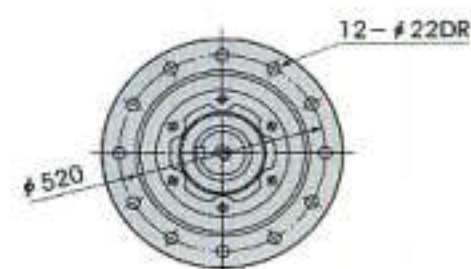
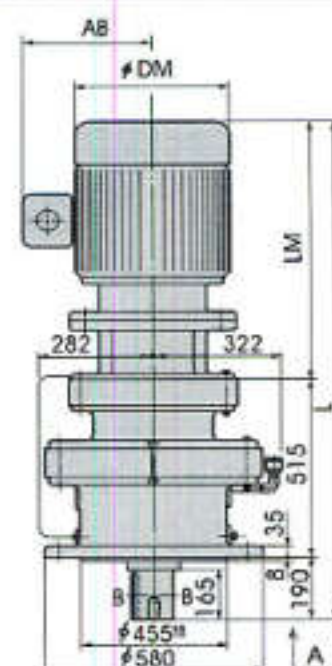
VIEW A



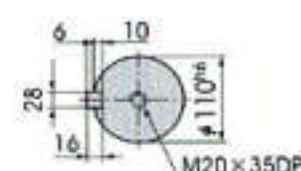
VIEW B-B

MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
1.5	4	MMJV2-2104-	1096	414	199	150	454	1196	514	199	150	459
2.2	4	MMJV3-2104-	1141	459	220	160	472	1424	559	220	160	479
3.7	4	MMJV5-2104-	1126	444	244	180	476	1256	574	244	180	485

MMJV-2106



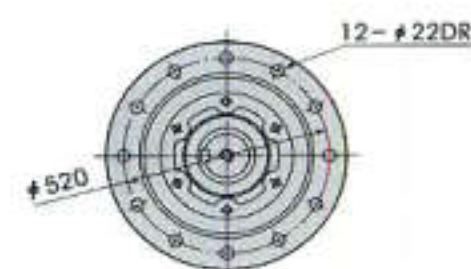
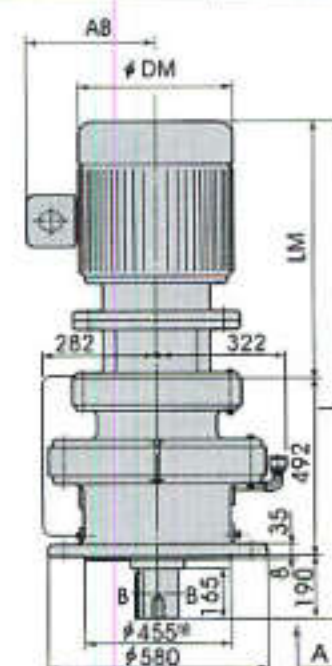
VIEW A



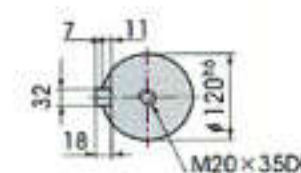
VIEW B-B

MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
5.5	4	MMJV 8-2106-	1216	511	284	200	515	1346	641	284	200	526
7.5	4	MMJV10-2106-	1254	549	284	200	522	1384	679	284	200	533

MMJV-2224



VIEW A

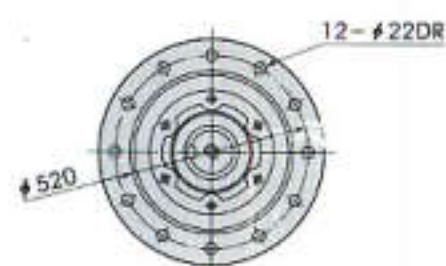
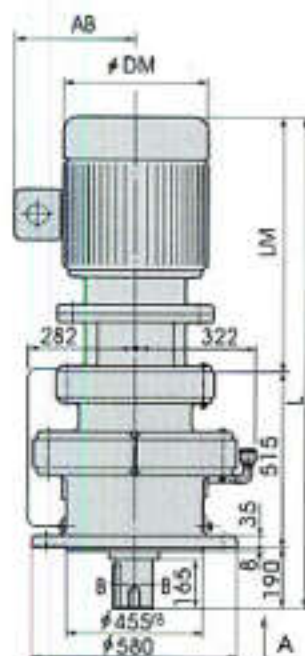


VIEW B-B

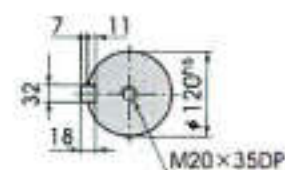
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
1.5	4	MMJV2-2224-	1096	414	199	150	459	1196	514	199	150	464
2.2	4	MMJV3-2224-	1141	459	220	160	477	1241	559	220	160	484
3.7	4	MMJV5-2224-	1126	444	244	180	481	1256	574	244	180	490

- Note) 1. Electric motor closed type, 3 phase induction motor(Dimensions are differ with manufacturers each other)
2. Dimension tolerance : Output shaft h₆
3. Key KS B 1311-84 Parallel Key
4. Dimensions and specifications are subjected to change without notice.

MMJV-2226



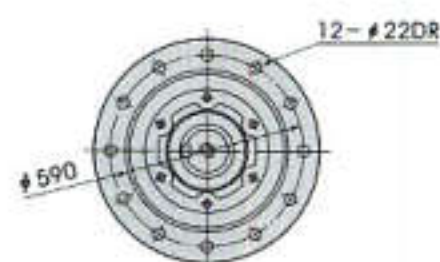
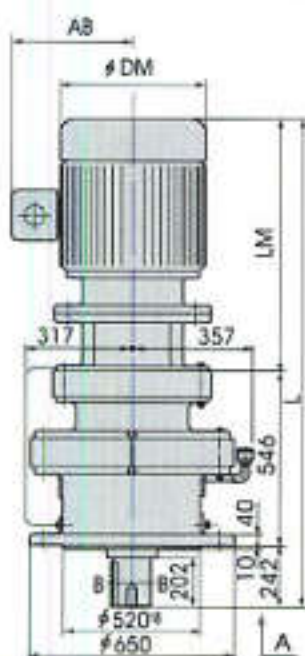
VIEW A



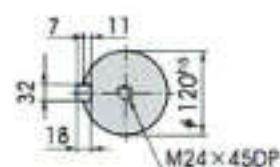
VIEW B-B

MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
5.5	4	MMJV 8-2226-	1216	511	284	200	520	1346	641	284	200	531
7.5	4	MMJV10-2226-	1254	549	284	200	527	1384	679	284	200	538

MMJV-2116



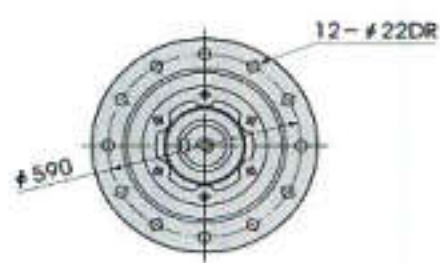
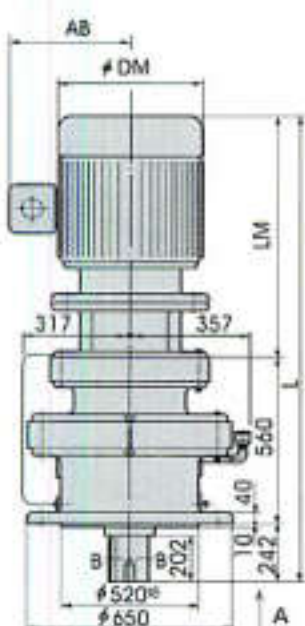
VIEW A



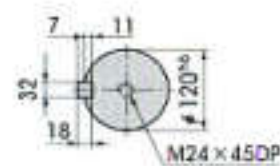
VIEW B-B

MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
2.2	4	MMJV 3-2116-	1245	457	220	160	606	1345	557	220	160	613
3.7	4	MMJV 5-2116-	1230	442	244	180	610	1360	572	244	180	619
5.5	4	MMJV 8-2116-	1299	511	284	200	643	1429	641	284	200	654
7.5	4	MMJV10-2116-	1337	549	284	200	650	1467	679	284	200	661

MMJV-2117



VIEW A

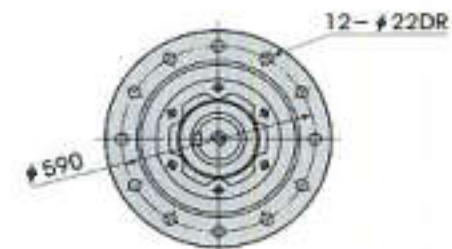
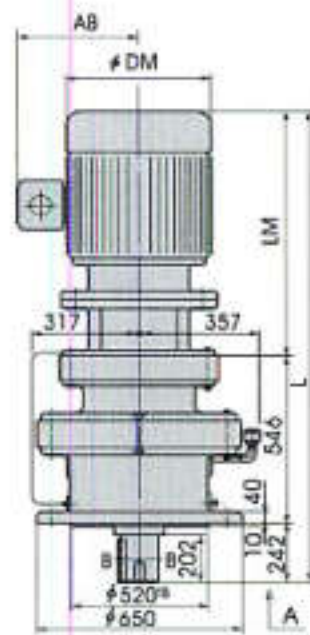


VIEW B-B

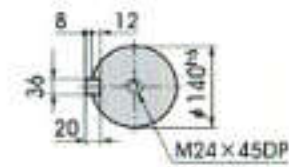
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
5.5	4	MMJV 8-2117-	1331	529	284	200	650	1461	659	284	200	659
7.5	4	MMJV10-2117-	1369	567	284	200	657	1499	697	284	200	668
11	4	MMJV15-2117-	1454	652	337	266	713	1584	782	337	266	732
15	4	MMJV20-2117-	1498	696	337	266	721	1628	826	337	266	740

- Note) 1. Electric motor closed type, 3 phase induction motor(Dimensions are differ with manufacturers each other)
 2. Dimension tolerance : Output shaft h₆
 3. Key KS B 1311-84 Parallel Key
 4. Dimensions and specifications are subjected to change without notice.

MMJV-2246



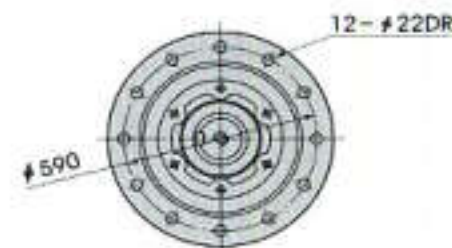
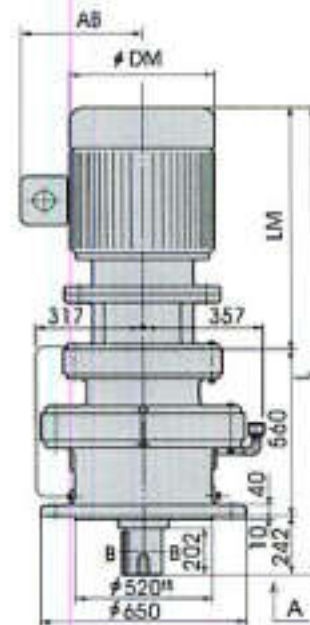
VIEW A



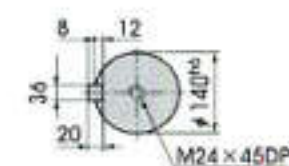
VIEW B-B

MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
3.7	4	MMJV 5-2246-	1230	442	244	180	620	1360	572	244	180	629
5.5	4	MMJV 8-2246-	1299	511	284	200	653	1429	641	284	200	664
7.5	4	MMJV10-2246-	1337	549	284	200	660	1467	679	284	200	671

MMJV-2247



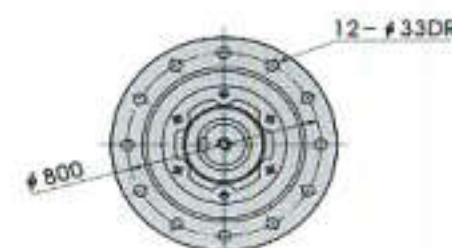
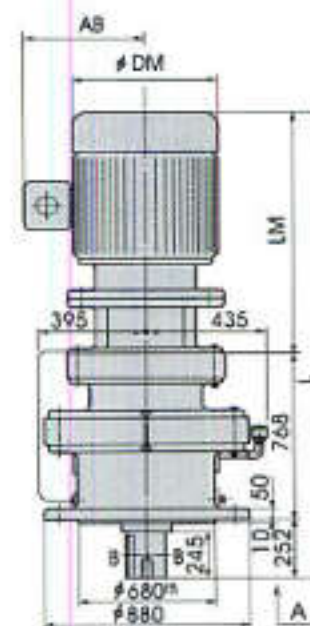
VIEW A



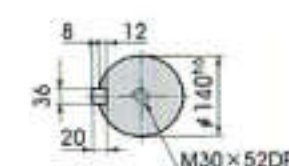
VIEW B-B

MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
15	4	MMJV20-2247-	1498	696	337	266	731	1628	826	337	266	750

MMJV-2128



VIEW A

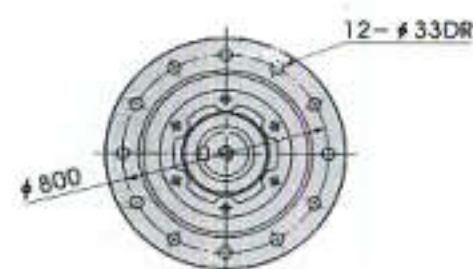
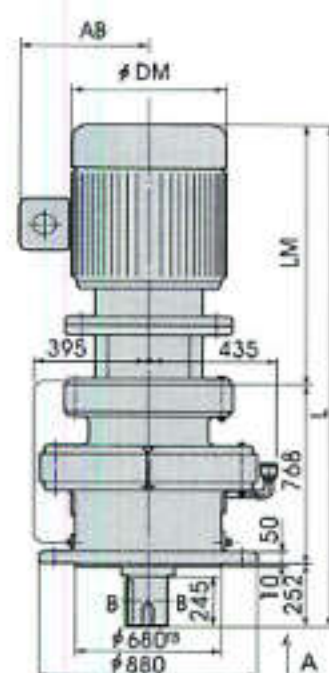


VIEW B-B

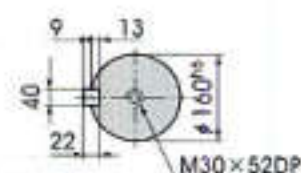
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
5.5	4	MMJV 8-2128-	1543	523	284	200	1174	1673	653	284	200	1185
7.5	4	MMJV10-2128-	1581	561	284	200	1181	1711	691	284	200	1192
11	4	MMJV15-2128-	1666	646	337	266	1240	1796	776	337	266	1259
15	4	MMJV20-2128-	1710	690	337	266	1248	1840	820	337	266	1267

- Note) 1. Electric motor closed type, 3 phase induction motor(Dimensions are differ with manufacturers each other)
2. Dimension tolerance : Output shaft h_8
3. Key KS B 1311-84 Parallel Key
4. Dimensions and specifications are subjected to change without notice.

MMJV-2258



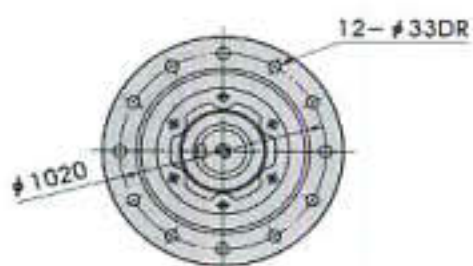
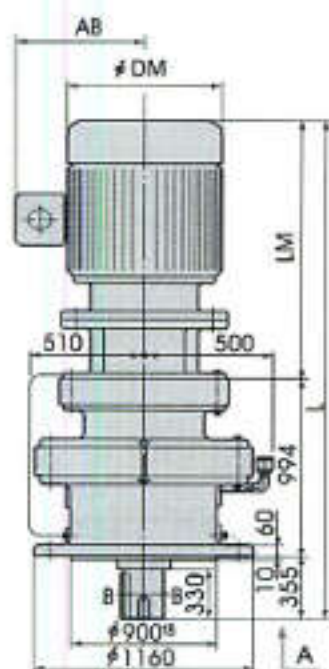
VIEW A



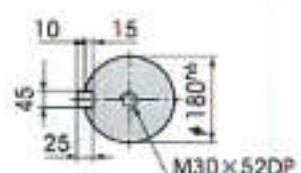
VIEW B-B

MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
7.5	4	MMJV10-2258-	1581	561	284	200	1196	1711	691	284	200	1217
11	4	MMJV15-2258-	1666	646	337	266	1255	1796	776	337	266	1274
15	4	MMJV20-2258-	1710	690	337	266	1263	1840	820	337	266	1282

MMJV-2139



VIEW A



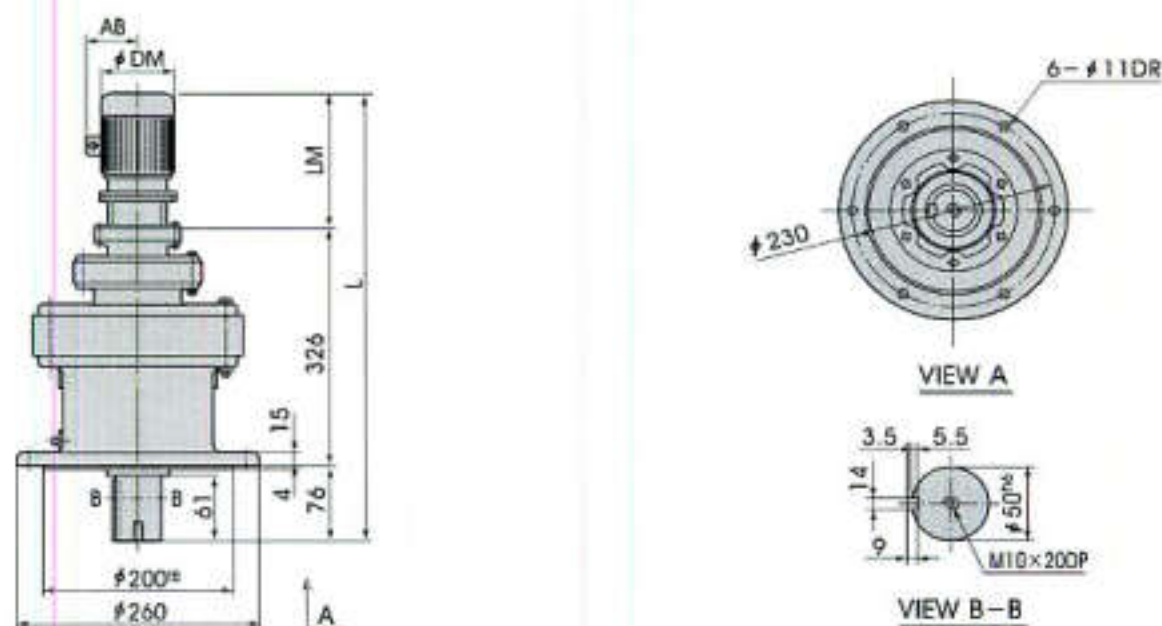
VIEW B-B

MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
7.5	4	MMJV10-2139-	1912	563	284	200	2560	2042	693	284	200	2571
11	4	MMJV15-2139-	1997	648	237	266	2623	2127	778	337	266	2638
15	4	MMJV20-2139-	2041	692	337	266	2631	2171	822	337	266	2646
22	4	MMJV30-2139-	2081	732	374	288	2646	2241	892	374	288	2667

- Note) 1. Electric motor closed type, 3 phase induction motor(Dimensions are differ with manufacturers each other)
2. Dimension tolerance : Output shaft h₆
3. Key KS B 1311-84 Parallel Key
4. Dimensions and specifications are subjected to change without notice.

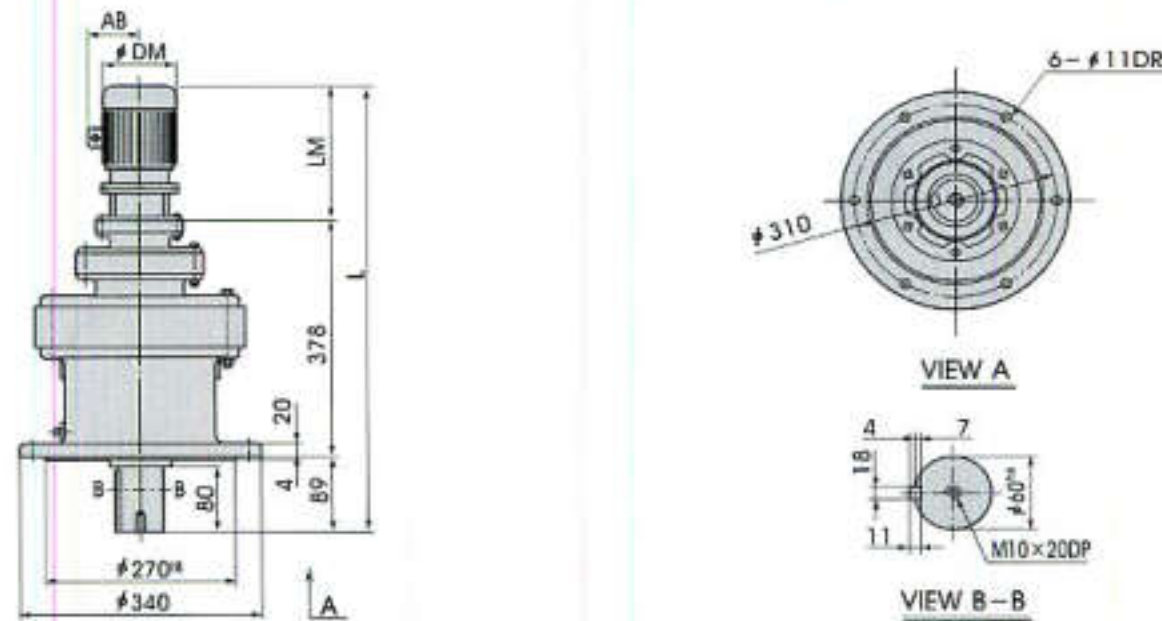
5-5) DIMENSIONS : MMJV Triple Reduction Type

MMJV-3432



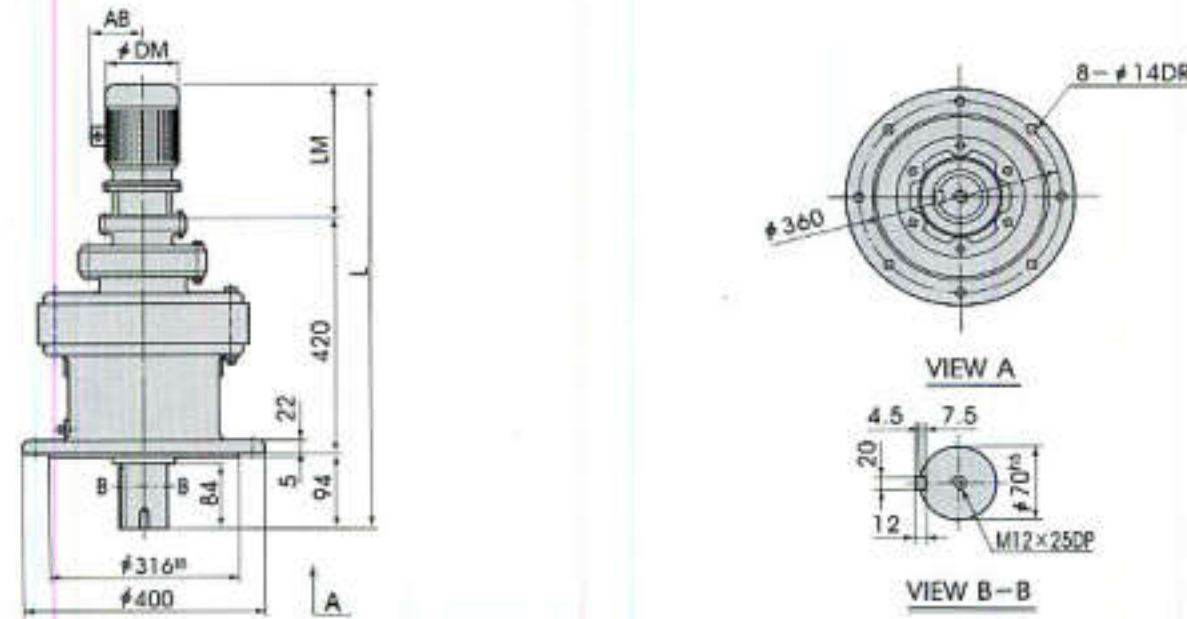
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.2	4	MMJV02-3432-	711	309	148	124	75	811	409	148	124	78
0.4	4	MMJV15-3432-	698	296	148	140	78	798	396	148	140	82

MMJV-3632



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.2	4	MMJV02-3632-	776	309	148	124	128	876	409	148	124	131
0.4	4	MMJV15-3632-	763	296	148	140	132	863	396	148	140	136

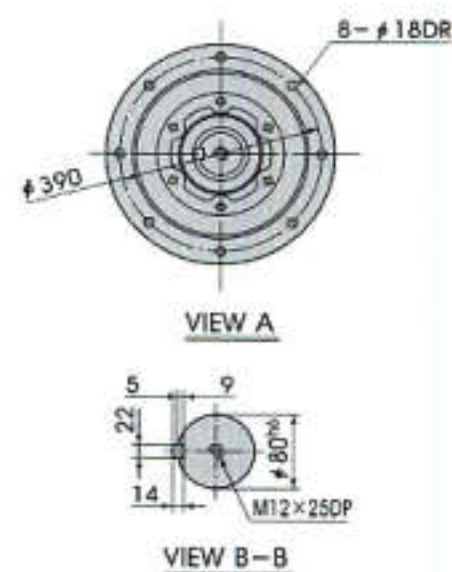
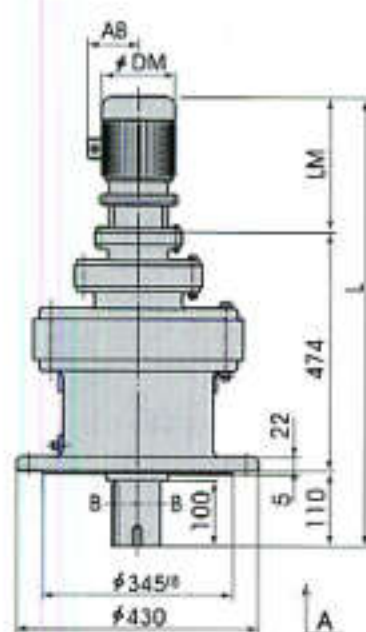
MMJV-3732



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.2	4	MMJV02-3732-	823	309	148	124	148	923	409	148	124	151
0.4	4	MMJV15-3732-	810	296	148	140	151	910	396	148	140	155

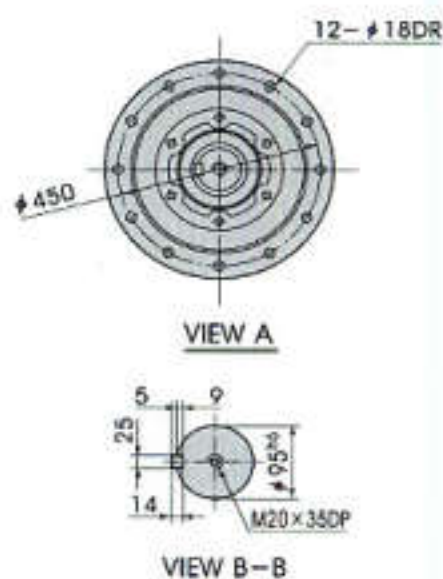
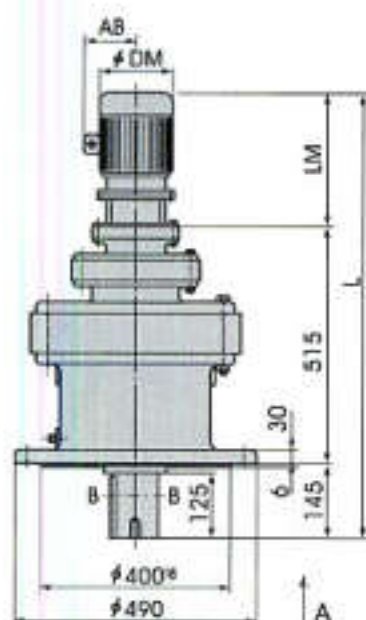
Note) 1. Electric motor closed type, 3 phase induction motor(Dimensions are differ with manufacturers each other)
2. Dimension tolerance : Output shaft h₈
3. Key KS B 1311-84 Parallel Key
4. Dimensions and specifications are subjected to change without notice.

MMJV-3843



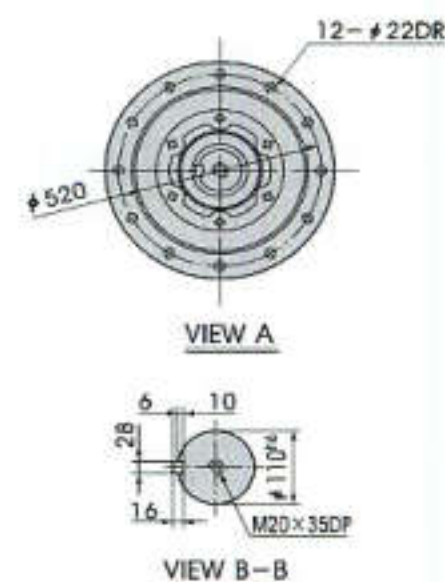
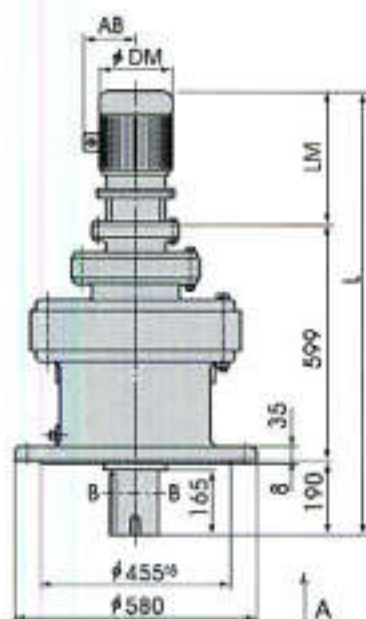
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.4	4	MMJV05-3843-	883	299	148	140	212	983	399	148	140	216

MMJV-3943



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.4	4	MMJV05-3943-	959	299	148	140	286	1059	399	148	140	290
0.75	4	MMJV 1-3943-	1003	343	180	135	291	1103	443	180	135	295

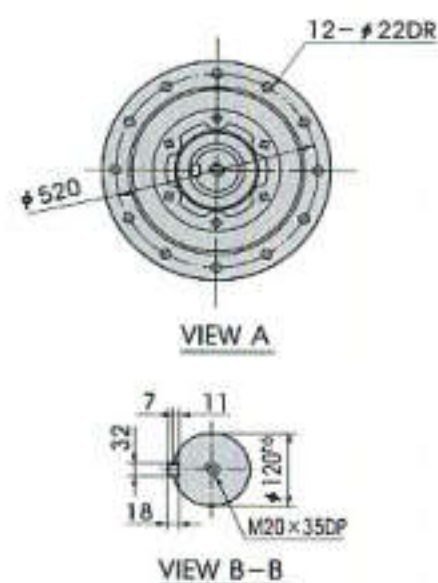
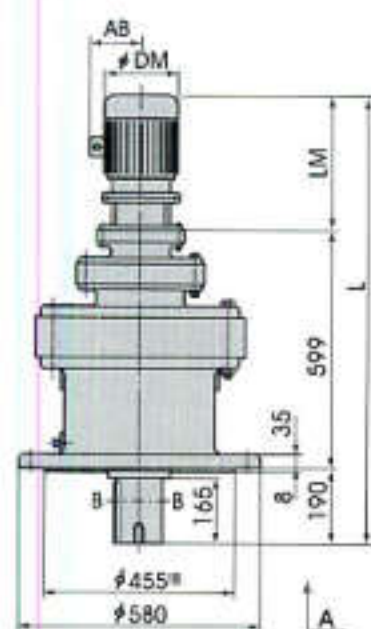
MMJV-31063



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.4	4	MMJV05-31063-	1088	299	148	140	467	1188	399	148	140	471
0.75	4	MMJV 1-31063-	1132	343	180	135	472	1232	443	180	135	476
1.5	4	MMJV 2-31063-	1194	405	199	150	489	1294	505	199	150	494

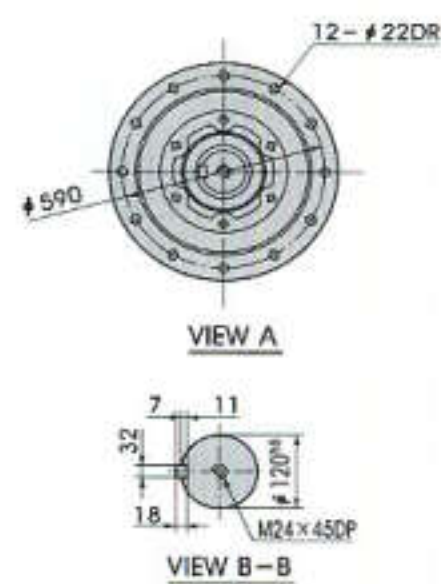
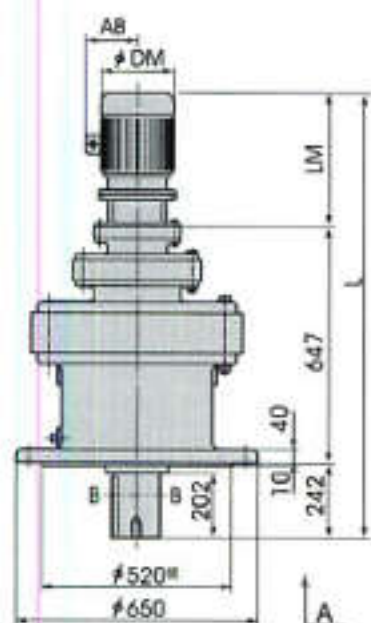
- Note) 1. Electric motor closed type, 3 phase induction motor(Dimensions are differ with manufacturers each other)
 2. Dimension tolerance : Output shaft h_8
 3. Key KS B 1311-84 Parallel Key
 4. Dimensions and specifications are subjected to change without notice.

MMJV-32263



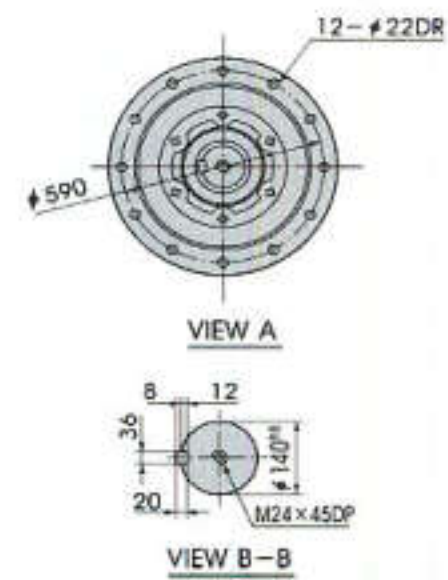
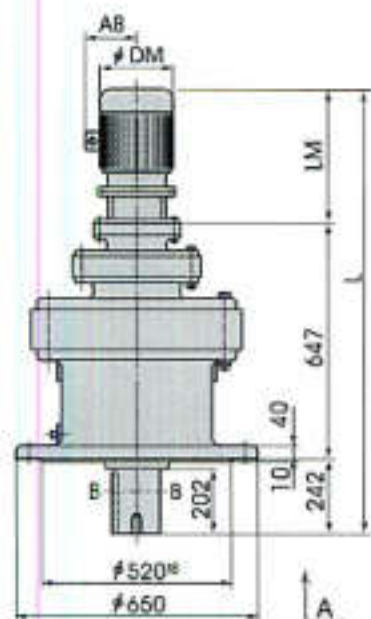
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.4	4	MMJV05-32263-	1088	299	148	140	472	1188	399	148	140	476
0.75	4	MMJV 1-32263-	1132	343	180	135	477	1232	443	180	135	481
1.5	4	MMJV 2-32263-	1194	405	199	150	494	1294	505	199	150	495

MMJV-31173



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.4	4	MMJV05-31173-	1188	299	148	140	581	1288	399	148	140	585
0.75	4	MMJV 1-31173-	1232	343	180	135	586	1332	443	180	135	590
1.5	4	MMJV 2-31173-	1294	405	199	150	603	1394	505	199	150	608

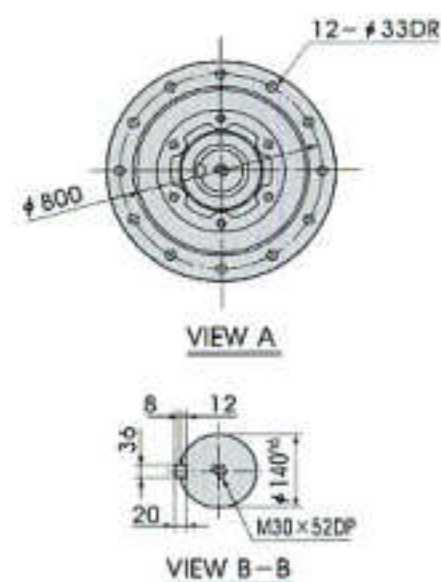
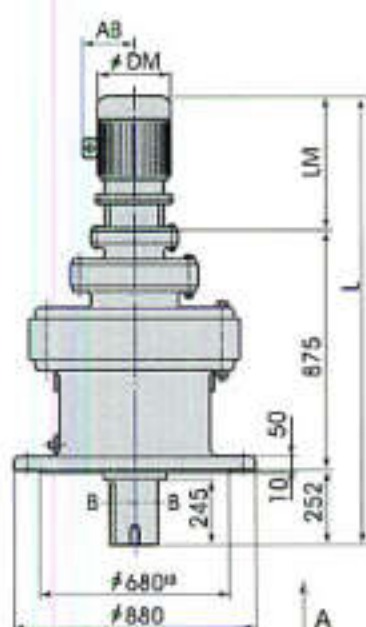
MMJV-32473



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.4	4	MMJV05-32473-	1188	299	148	140	591	1288	399	148	140	595
0.75	4	MMJV 1-32473-	1232	343	180	135	596	1332	443	180	135	600
1.5	4	MMJV 2-32473-	1294	405	199	150	613	1394	505	199	150	618

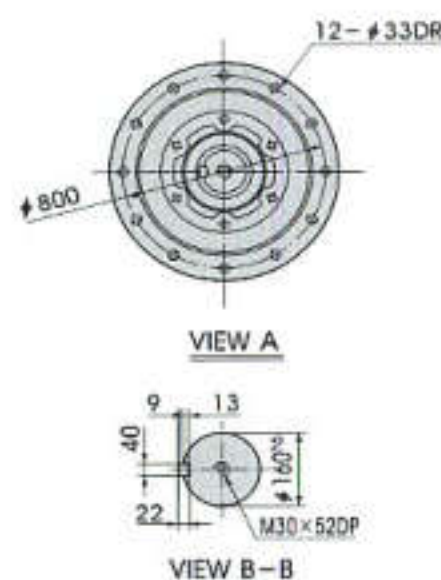
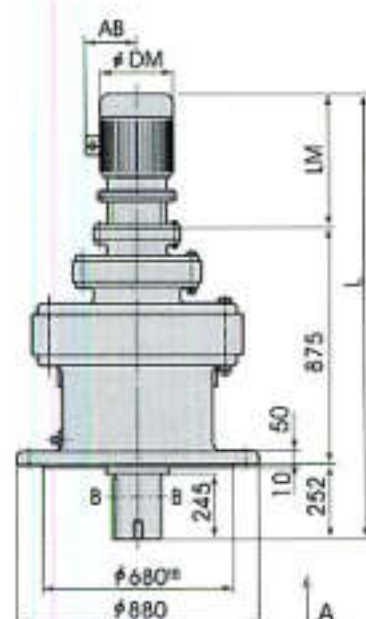
- Note) 1. Electric motor closed type, 3 phase induction motor(Dimensions are differ with manufacturers each other)
2. Dimension tolerance : Output shaft h₆
3. Key KS B 1311-84 Parallel Key
4. Dimensions and specifications are subjected to change without notice.

MMJV-31284



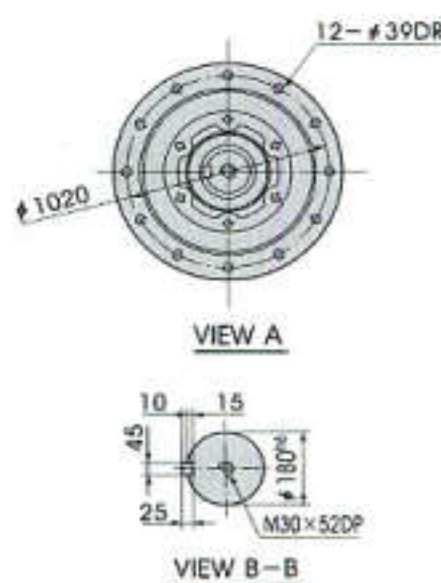
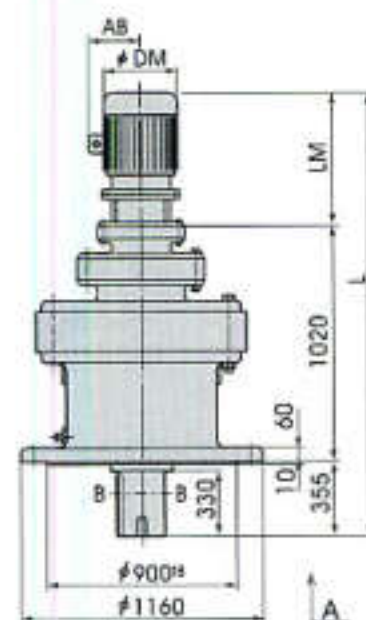
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.75	4	MMJV1-31284-	1479	352	180	135	1107	1579	452	180	135	1111
1.5	4	MMJV2-31284-	1541	414	199	150	1123	1641	514	199	150	1128
2.2	4	MMJV3-31284-	1586	459	220	160	1140	1686	559	220	160	1147

MMJV-32584



MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.75	4	MMJV1-32584-	1479	352	180	135	1122	1579	452	180	135	1126
1.5	4	MMJV2-32584-	1541	414	199	150	1138	1641	514	199	150	1143
2.2	4	MMJV3-32584-	1586	459	220	160	1155	1686	559	220	160	1162

MMJV-31394



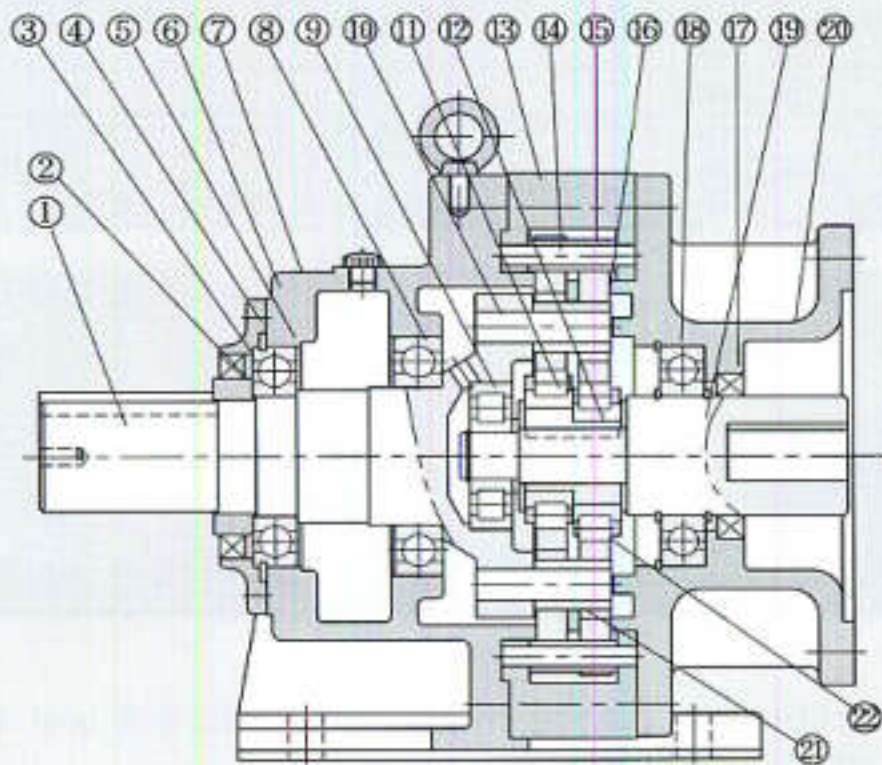
MOTOR		MODEL NO.	With Standard Motor					With Standard Motor & Brake				
KW	FRAME		L	LM	DM	AB	W(kg)	L	LM	DM	AB	W(kg)
0.75	4	MMJV1-31394-	1732	352	180	135	2456	1832	452	284	200	2460
1.5	4	MMJV2-31394-	1794	414	199	150	2458	1894	514	337	266	2463
2.2	4	MMJV3-31394-	1839	459	220	160	2476	1939	559	337	266	2484
3.7	4	MMJV5-31394-	1824	444	244	180	2480	1954	574	374	288	2489

- Note) 1. Electric motor closed type, 3 phase induction motor(Dimensions are differ with manufacturers each other)
2. Dimension tolerance : Output shaft h₆
3. Key KS B 1311-84 Parallel Key
4. Dimensions and specifications are subjected to change without notice.

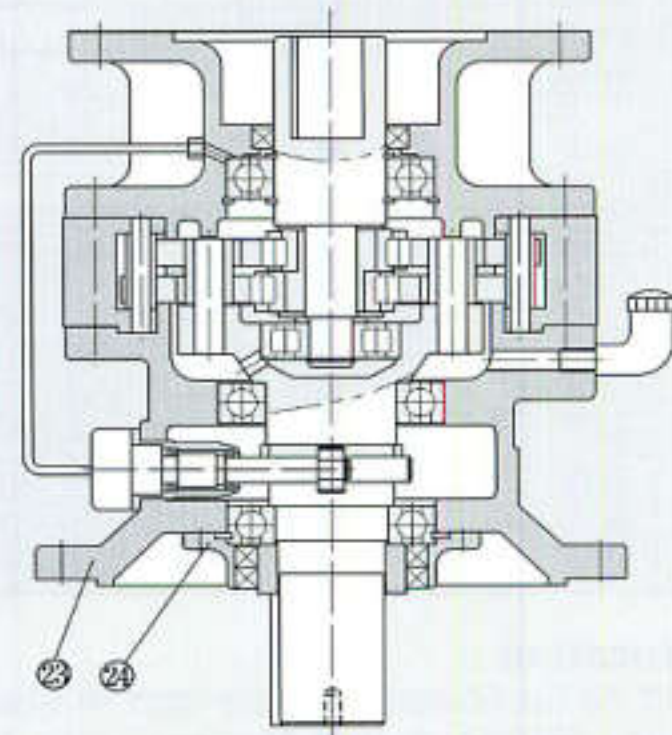


6. STRUCTURE (構造圖)

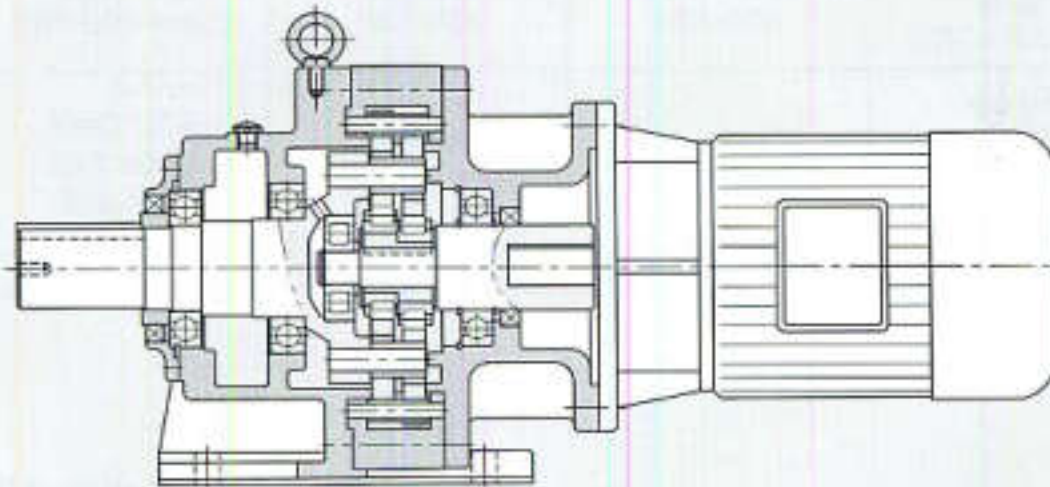
〈Fig 1〉 **MJH**(Single, Line power, Horizontal)



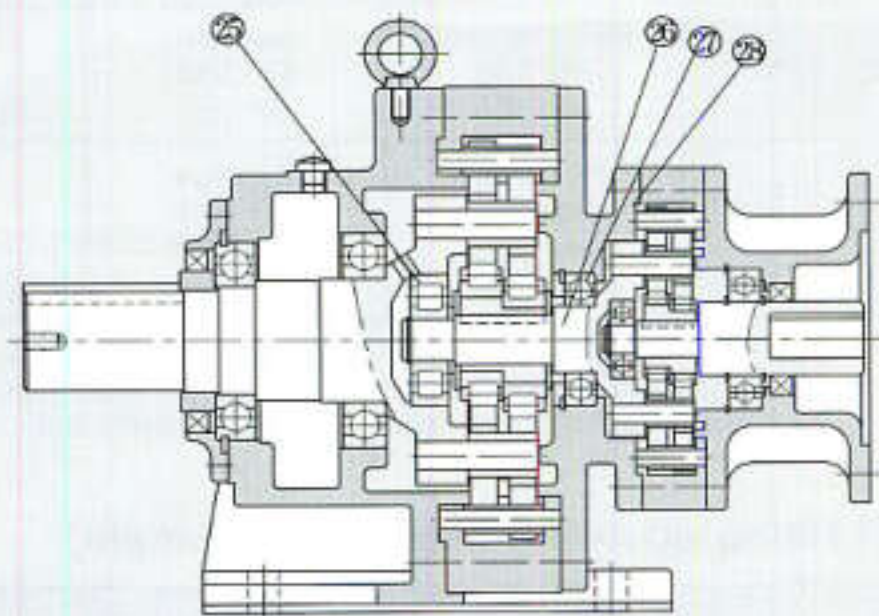
〈Fig 2〉 **MJV**(Single, Line power, Vertical)



〈Fig 3〉 **MMJH**(Single, Geared Motor, Horizontal)



〈Fig 4〉 **MJH**(Double, Line power, Horizontal)



〈Table 9〉 Main Parts

No.	Part Name	No.	Part Name	No.	Part Name	No.	Part Name
1	Slow Speed Shaft	8	Ball Bearing	15	Ring Gear Pin	22	Cycloid Disc
2	Collar	9	Roller Bearing	16	Slow Speed Shaft Roller	23	Base
3	Oil Seal	10	Slow Speed Shaft Pin	17	Oil Seal	24	Gland
4	Slow Speed End Cap	11	Roller Bearing	18	Ball Bearing	25	Roller Bearing
5	Ball Bearing	12	Eccentric	19	Hollow Input Shaft	26	Intermediate Shaft
6	Gasket	13	Ring Gear Housing	20	Adapter	27	Ball Bearing
7	Case	14	Ring Gear Roller	21	Spacer Ring	28	Intermediate Cover



7. LUBRICATION (潤滑)

1) Lubrication Method

<Table 10>

Single Reduction	FRAME		102	103	104	105	106	107	108	109	110	122	111	124	112	125	113						
	Horizontal		Grease			Oil bath																	
	Vertical		Grease			Oil pump																	
Double Reduction	FRAME		232	242	252	262	272	282	243	253	263	273	284	293	2104	2224	2116	2246	2128	2139			
	TYPE		232	242	252	262	272	282	243	253	263	274	284	294	2106	2226	2117	2247	2258				
	Horizontal		Grease						Oil bath														
	Vertical	(Ratio)	Grease						Oil pump														
		121-493																					
		595-841																					
		957-1015																					
		1225-2523																					
	2537-3045																						
	3481-7569																						

2) Oil Lubrication

The oil in oil lubricated models and drained at the time of shipment. please make sure to fill the unit with oil between Maximum and Minimum line of the oil gauge prior to commencing operation.

Recommending oil(Mild EP oil)

<Table 11>

Ambient Temp	Gulf Oil	Esso Oil	Mobil Oil	Shell Oil	Caltex Oil	Daphne Oil
-10℃~5℃	EP Lubricant HD 68	Spartan EP 68	Mobil gear 626 (ISO VG 68)	Omala Oil 68		DN. Cear Lube 68
0℃~35℃	EP Lubricant HD 100 HD 150	Spartan EP 100 EP 150	Mobil gear 627 629 (ISO VG 100 150)	Omala Oil 100 150	Meropa 100 150	DN. Cear Lube 100 150
30℃~50℃	EP Lubricant HD 220 HD 320 HD 460	Spartan EP 220 EP 320 EP 460	Mobil gear 630 632 633 634 (ISO VG 220~460)	Omala Oil 220 320 460	Meropa 220 320 460	DN. Cear Lube 220 320 460

Note : 1. For use in winter or relatively low ambient temperature, use the lower viscosity oil specified for each ambient temperature range.
2. For consistent use in ambient temperatures other than 0℃~40℃, please consult us.
3. Please consult us if you use a speed changed motor or a brake with vertical type.

3) Oil filling quantity, liters(Approximate)

<Table 12>

Single Reduction	Frame No.	104	105	106	107	108	109	110	122	111	124	112	125	113	
	Horizontal	1.2	1.2	1.6	2.0	2.2	2.9	11	11	15	15	32	32	61	
	Vertical	0.8	0.8	1.6	1.8	2.5	4.4	7.8	7.8	15	15	30	30	58	
Double Reduction	Frame No.	243 253	263A 263B	273A 273B	274	284A 284B	293A 293B	294A 294B	296	2104A 2104B 2224	2106A 2106B 2226	2116A 2116B 2246	2217A 2247	2128A 2128B 2258	2139A 2139B
	Horizontal	1.3	1.6	2.0	2.1	2.2	2.9	2.9	3.0	11	11	15	15	37	62
	Vertical	0.8	1.6	2.4	2.4	3.6	6.4	6.6	6.6	11	11	18	18	30	73

4) Grease Lubrication

The grease for grease lubricated models is filled at factory prior to shipment. It may be used without replenishment.

<Table 13>

Ambient Temperature(℃)	Shell Oil	Esso Oil	Caltex Oil	Mobil Oil	Daphne Oil
-10℃ ~ 50℃	Alvania Grease 2	Crown No. 2	Multifak EP 2	LUX 2	DN. Bearing Grease 2

Note : 1. Avoid to use grease mixed with two different brand.
2. Medusa Drive is filled with Daphne Oil at factory prior to shipment.
3. For the widely fluctuating temperature or ambient temperature other than as stipulated in table or other special conditions. Please consult us what is required in advance.



8. ALLOWABLE OVERHUNG LOAD

When a sprocket, sheave, or gear is mounted on the slow speed shaft, or on the high speed shaft of a reducer, an overhung load is applied on the shaft. It is necessary to check whether the shafts of medusa drive speed reducers allow the overhung load.

Calculate the overhung load with the formula below :

Overhung Load :

$$P \leq \frac{P_o}{L_f \cdot C_f \cdot F_s} = (\text{kgf})$$

P_r : Actual Overhung Load(kgf)

P_o : Permissible Overhung Load(kgf)

L_f : Load location factor(Table 16)

C_f : Load connection factor(Table 14)

F_s : Load Nature factor(Table 2)

〈Table 14〉 Load connection factor

Connection Type	C_f
Chain	1
Gear or Pinion	1.25
V-Belt	1.5
Flat-Belt	2.5

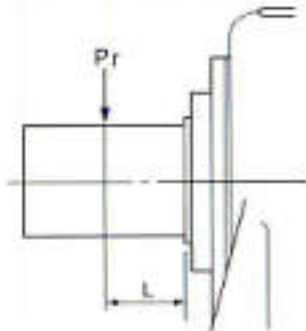
Permissible Slow Speed Shaft Overhung Load P_o (kgf)

〈Table 15〉

Frame Size		Output RPM																							
Single	Double	~1	2	3	4	5	6	8	10	15	20	25	30	35	40	50	60	80	100	125	150	200	250	300	
102	—	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	331	311	283	263	248	
103	232	880	880	880	880	880	880	880	880	880	880	880	880	880	880	880	834	758	704	653	614	558	518	486	
104	242, 243	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1290	1210	1150	1100	1020	963	875	813	754	710	645	599	564	
105	252, 253	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1460	1400	1310	1240	1140	1060	994	941	863	808	764
106	262, 263	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	1980	1880	1800	1680	1580	1430	1330	1230	1160	1050	976	919	
107	272, 273, 274	2800	2800	2800	2800	2800	2800	2800	2800	2800	2660	2480	2330	2210	2110	1960	1850	1680	1560	1450	1360	1240	1150	1080	
108	282, 283	3800	3800	3800	3800	3800	3800	3800	3800	3800	3580	3330	3130	2960	2840	2640	2480	2250	2090	1940	1830	1680	—	—	
109	293, 294, 296	5300	5300	5300	5300	5300	5300	5300	5300	5300	5000	4650	4380	4150	3980	3690	3480	3150	2930	2710	2560	2330	—	—	
110	2104, 2106	8780	8780	8780	8780	8780	8780	8780	8780	8460	7760	7260	6880	6560	6300	5900	5590	5130	4790	4480	4240	3890	—	—	
122	2224, 2226	14800	14800	14400	13300	12400	11700	10800	10100	8900	8160	7640	7240	6900	6640	6200	5880	5390	5040	4710	4460	4100	—	—	
111	2116, 2117	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
124	2246, 2247	21200	21200	20000	18400	17100	16300	14900	14000	12400	11300	10500	10000	9580	9200	8610	8150	7480	6990	6540	—	—	—	—	
112	2128, 2129	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
125	2258, 2259	26300	26300	24500	22500	21000	19500	18300	17000	15100	13900	13000	12300	11700	11300	10500	9960	9140	8550	8000	—	—	—	—	
113	2139	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	—	—	—	—	—	—	—	—	

Slow speed shaft Load Location Factor L_f

〈Table 16〉

Frame Size		Distance From Collar Surface L(mm)																									
Single	Double	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200	225	250	275	300		
102	—	0.82	0.91	1.00	1.29	1.59	1.88	—	—	—	—	—	—	—	—	—	—	—	—								
103	232	—	0.82	0.87	0.92	0.97	1.08	1.25	1.42	1.59	1.76	—	—	—	—	—	—	—	—								
104	242, 243	—	—	0.83	0.87	0.92	0.96	1.00	1.13	1.25	1.38	1.38	1.88	—	—	—	—	—	—								
105	252, 253	—	—	—	0.66	0.73	0.80	0.87	0.93	1.00	1.10	1.30	1.50	1.70	1.90	—	—	—	—								
106	262, 263	—	—	—	0.83	0.87	0.90	0.93	0.97	1.00	1.11	1.32	1.53	1.75	1.96	—	—	—	—								
107	272, 273, 274	—	—	—	0.86	0.89	0.92	0.94	0.97	1.00	1.11	1.32	1.53	1.75	1.96	—	—	—	—								
108	282, 283	—	—	—	—	0.85	0.87	0.90	0.93	0.95	0.98	1.09	1.26	1.43	1.60	1.78	—	—	—								
109	293, 294, 296	—	—	—	—	—	0.85	0.87	0.89	0.91	0.93	0.97	1.04	1.18	1.32	1.46	1.75	—	—								
110	2104, 2106	—	—	—	—	—	—	—	0.70	0.73	0.77	0.84	0.91	0.98	1.05	1.13	1.27	1.41	1.56		—	—	—	—	—	—	—
122	2224, 2226	—	—	—	—	—	—	—	0.86	0.88	0.90	0.93	0.96	0.99	1.02	1.06	1.12	1.19	1.25	—	—	—	—	—	—	—	
111	2116, 2117	—	—	—	—	—	—	—	0.83	0.84	0.86	0.89	0.92	0.94	0.97	1.00	1.06	1.11	1.17	1.23	1.29	—	—	—	—	—	
124	2246, 2247	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
112	2128, 2129	—	—	—	—	—	—	—	—	—	0.83	0.85	0.88	0.90	0.93	0.95	1.00	1.05	1.10	1.22	1.36	1.52	1.69	—	—	—	
125	2258, 2259	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
113	2139	—	—	—	—	—	—	—	—	—	—	—	—	0.67	0.71	0.75	0.82	0.90	0.98	1.09	1.21	1.35	1.50	1.65	1.79	—	

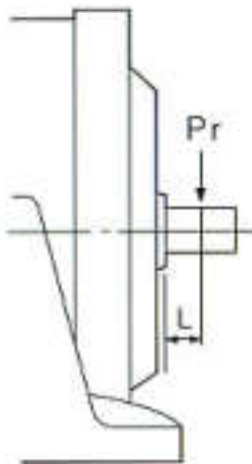
Permissible High Speed Shaft Overhung Load $P_o(\text{kgf})$

<Table 17>

Frame Size		Ratio	Shaft Speed RPM						
Single	Double		1800	1500	1200	1000	900	750	600
102	232, 242, 252	6~17, 25~71, 119	30	30	30	30	30	30	30
	262, 272, 282	21~87	20	20	20	20	25	25	30
103	243, 253, 263	6~17	60	70	75	80	90	90	90
	273, 293	21~87	55	45	50	55	60	90	90
104	274, 284, 294	6~17	140	140	140	155	165	175	190
	2104, 2224	21	130	130	130	140	150	160	180
105	—	11~17	140	140	140	155	165	175	190
		21~87	130	130	130	140	150	160	180
106	296, 2106, 2226	8~25, 51, 59	180	180	200	210	220	220	220
	2116, 2246	29~43, 71, 87	110	120	130	140	140	160	180
107	2117, 2247	11~87	210	210	230	230	240	250	270
108	2128, 2258	11~87	280	260	280	300	310	340	350
109	2129, 2259, 2139	11~25	310	310	330	360	370	400	400
		29~87	270	260	290	300	320	340	370
110	—	11~87	585	520	555	625	645	695	740
111,122	—	11~87	675	590	610	655	675	710	765
112,124	—	11~87			1130	1030	1030	1080	1140
125	—	11~87			1200	1100	1150	1250	1340
113	—	29~87			1500	1500	1500	1500	1500

High Speed Shaft Load Location Factor L_f

<Table 18>

Frame Size		Distance From Collar Surface L(mm)																							
Single	Double	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200				
102	232, 242, 252 262, 272, 282	0.86	0.96	1.20	1.59	2.00	2.38	—	—	—	—	—	—	—	—	—	—		—	—	—	—			
103	243, 253, 263 273, 293	—	0.81	0.93	1.14	1.41	1.67	1.96	2.22	—	—	—	—	—	—	—	—								
104	274, 284, 294 2104, 2224	—	0.78	0.89	1.00	1.23	1.45	1.69	1.92	2.13	—	—	—	—	—	—	—								
105	—	—	0.78	0.89	1.00	1.23	1.45	1.69	1.92	2.13	—	—	—	—	—	—	—								
106	296, 2106, 2226 2116, 2246	—	0.92	0.95	0.98	1.05	1.18	1.28	1.41	1.52	1.64	1.85	—	—	—	—	—								
107	2117, 2247	—	—	0.93	0.96	0.99	1.05	1.16	1.28	1.39	1.49	1.72	1.92	2.17	—	—	—								
108	2128, 2258	—	—	—	0.93	0.96	0.99	1.05	1.15	1.25	1.35	1.56	1.75	1.96	2.17	—	—								
109	2129, 2259, 2139	—	—	—	0.93	0.95	0.98	1.00	1.09	1.16	1.25	1.41	1.59	1.75	1.92	2.08	—								
110	—	—	—	—	—	0.93	0.95	0.98	1.00	1.03	1.08	1.19	1.29	1.40	1.51	1.61	1.82								
111,122	—	—	—	—	—	0.94	0.96	0.98	1.00	1.02	1.04	1.08	1.14	1.24	1.33	1.42	1.60								
112,124	—	—	—	—	—	0.91	0.92	0.94	0.96	0.98	0.99	1.07	1.15	1.24	1.33	1.42	1.59	—					—	—	—
125	—	—	—	—	—	—	—	0.92	0.93	0.94	0.96	0.99	1.03	1.09	1.16	1.22	1.34	1.47					1.60	1.72	—
113	—	—	—	—	—	—	—	—	—	0.93	0.94	0.97	0.99	1.04	1.14	1.22	1.39	1.56					1.72	1.92	2.08

APPLICATION INFORMATION SHEET

Serial No. :

For our proper selection of MEDUSA DRIVE, We need following information. Please fill in _____ and tick ☐

1. Company Name : _____

Address : _____ Phone : _____

Your Name : _____ Issue Date : _____

2. Application

a) Name or type of Driven machine : _____

b) Purpose of driven machine : _____

c) What of driven machine does the drive unit drive? : _____

3. Driven Machine

a) Operation hours per day : ☐ continuous _____ hours, ☐ intermittent _____ hours.

b) Nature of load : ☐ uniform, ☐ moderate shock, ☐ heavy shock.

c) Running net KW or torque required at input of driven machine :

_____ KW (_____ HP), or _____ kg f-m (_____ in-lbs)

d) Frequent start-stop or reversing? ☐ Yes, ☐ No

If yes, _____ times / min, running : _____ sec., standstill _____ sec.

4. MEDUSA DRIVE required

a) Model No. (If known) : _____

b) Quantity required : _____

c) Required type : ☐ speed reducer, ☐ geared motor, ☐ others :

d) If geared motor is required, motor type required : _____ KW(HP), _____ V, _____ P, _____ Hz, _____ Phase.

e) Output Torque require : _____ kgf-m

5. Output of MEDUSA DRIVE

a) Required output speed : _____ rpm, Reduction Ratio(i) = $1/$ _____.

b) Connection method : ☐ coupling, ☐ chain sprocket, ☐ spur or helical gear, ☐ bevel gear
others : _____ (pitch dia. _____ mm(_____ in))

c) Overhung load : _____ kg at _____ mm from collar surface of MEDUSA DRIVE.

d) Thrust load _____ kg.

6. Input of MEDUSA DRIVE other than geared motor type

a) Motor type : _____ (_____ Kw at _____ rpm)

Maximum torque _____ kgf-m

Rated torque _____ kgf-m

b) If brake equipped, braking torque _____ kgf-m

c) Connection method : ☐ flexible coupling, ☐ pulley, ☐ chain sprocket, ☐ spur or helical gear,
☐ bevel gear, ☐ others : _____

d) Input speed of MEDUSA DRIVE : _____ rpm

7. Mounting Position of MEDUSA DRIVE(see page 5)

a) Mounting Type : ☐ foot mount, ☐ flange mount, ☐ base mount, ☐ special base mount.

b) Output shaft direction : ☐ horizontal, ☐ vertical-downward, ☐ vertical-upward, ☐ inclined _____
degree from horizontal plane(output shaft : ☐ upward, ☐ down)

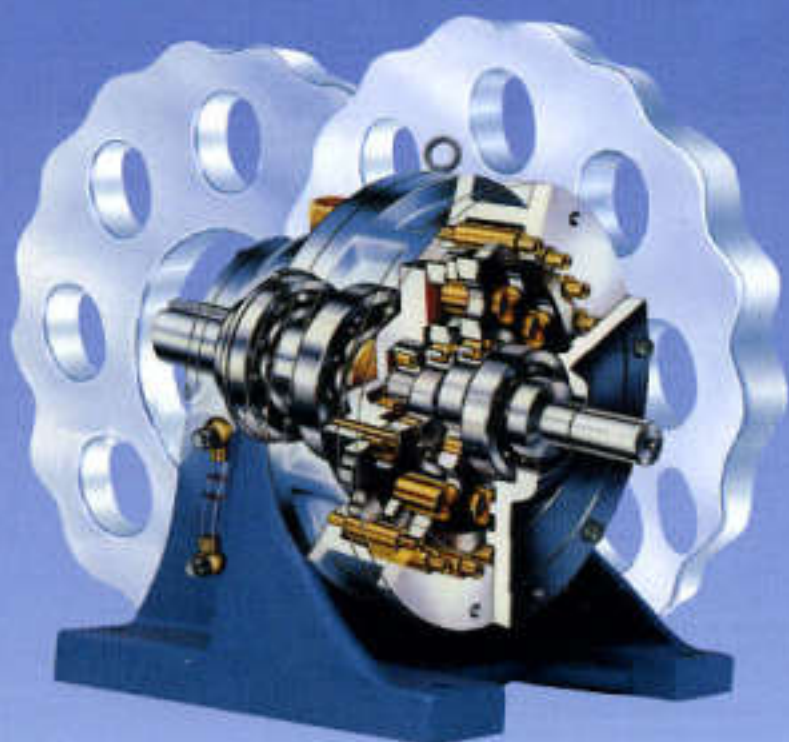
8. Environmental Conditions

a) Ambient temperature _____ °C

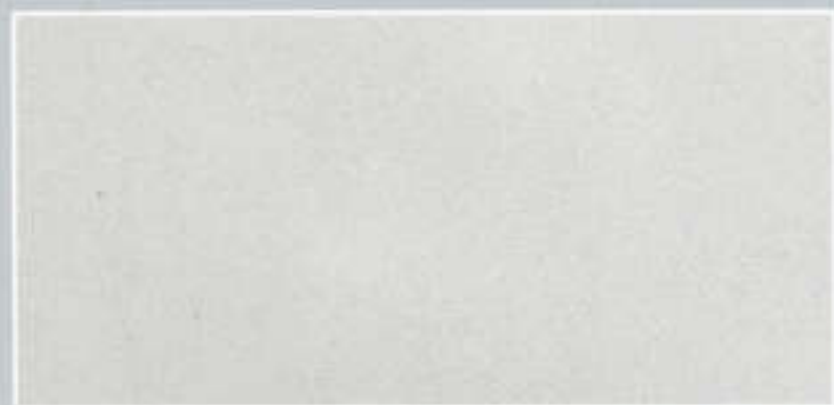
b) Humidity _____ %

c) Installing location : ☐ indoor, ☐ outdoor

d) Ambient atmosphere _____ ☐ corrosive, ☐ explosive, ☐ dusty.



우리 나라 합동 감속기



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Power Transmission Manufacturer

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