

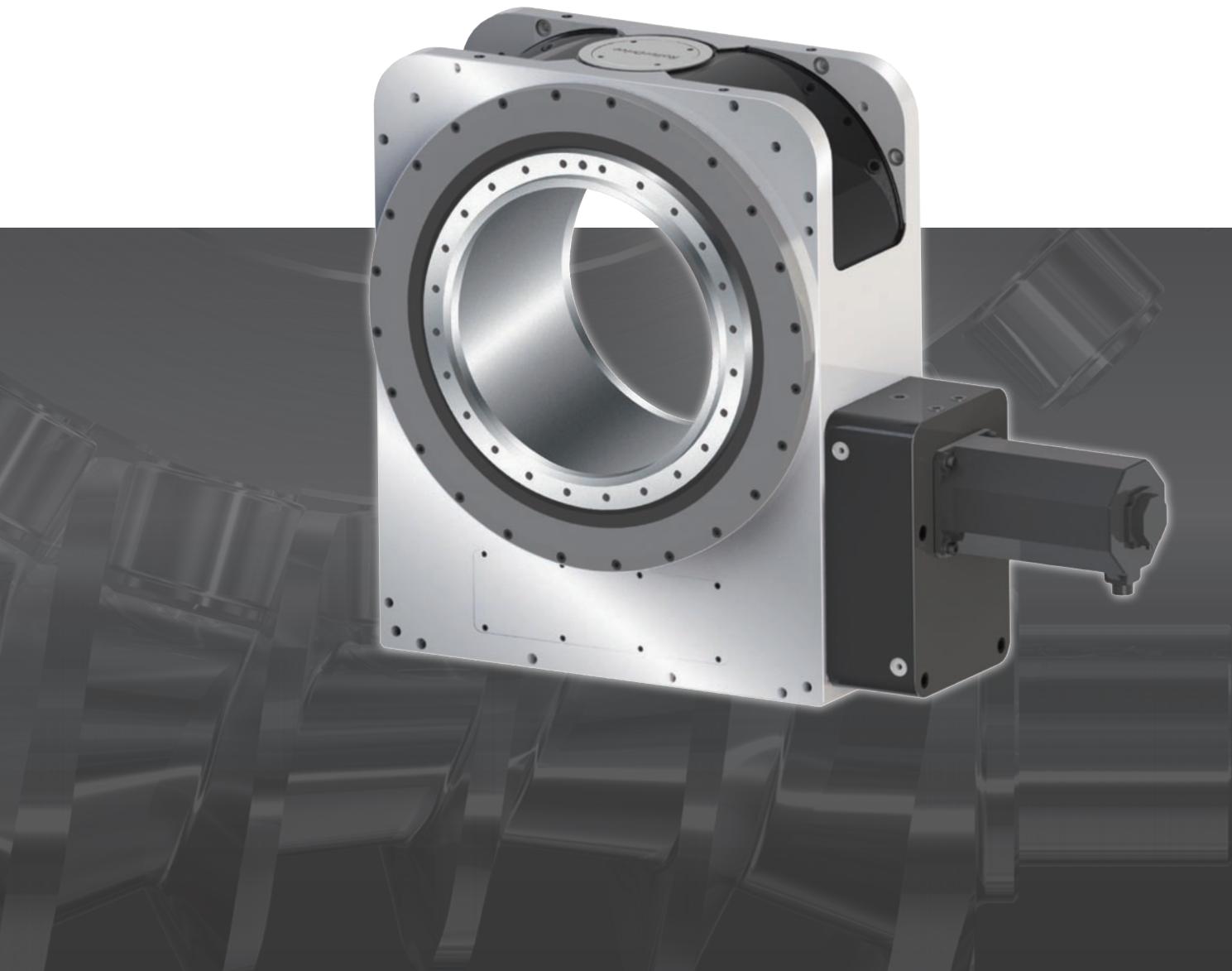


Universal Positioning Unit

RollerDrive[®]

RU series

RU160, 200, 250, 315, 400, 500



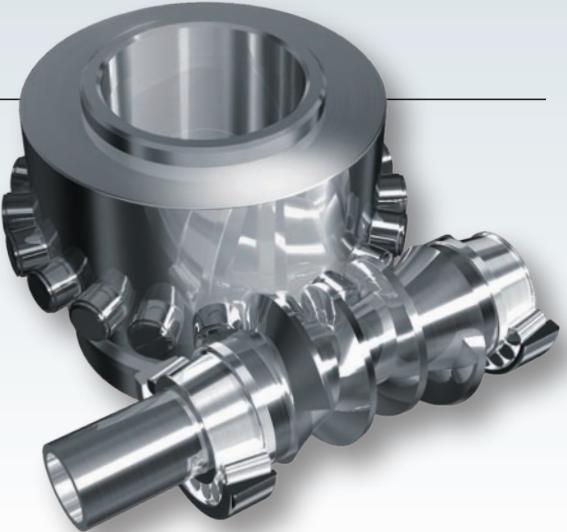
The ZERO-Backlash Technology

A mechanism developed through the pursuit of outstanding functionality and performance.

Superior movement achieved with zero-backlash technology

In FA equipment, motion control using servo systems is a crucial element which greatly affects equipment performance. Naturally, equipment specifications and performance are designed assuming that the expected motion is attained, but if there are factors such as backlash, insufficient rigidity or control instability in the motion control section, then output motion will deviate from input control commands, and it will be difficult to attain the expected performance.

With the RollerDrive RU Series, a servomotor is mechanically reduced while maintaining powerful torque, rigidity and stability. An output motion faithful to input control commands can be attained by achieving zero-backlash with our unique preloaded mechanism. This is a revolutionary FA motion control unit, which combines rolling transmission for high-efficiency and elimination of wear, an orthogonal layout of input and output axes for greater compactness, and standard features like a large diameter hollow shaft for greater ease-of-use.



Theory of Operation

The RollerDrive is a positioner that uses the roller gear cam mechanism, one of the finest motion control mechanisms available. The unit is constructed from an input shaft and a turret (output shaft) that is assembled with roller followers.

The roller followers are preloaded against a screw-like input shaft to eliminate backlash.

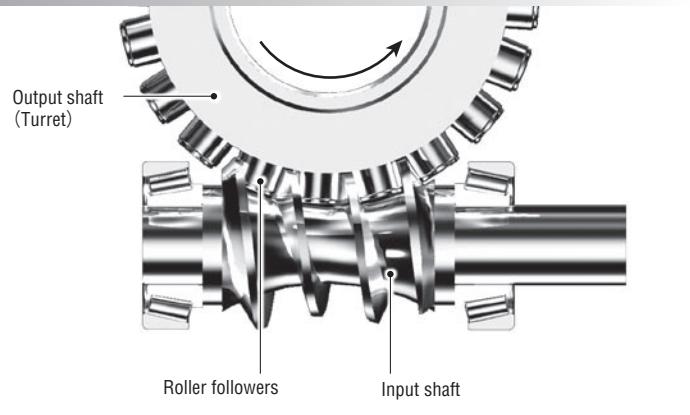
Our proprietary adjustment mechanism provides optimum preload.

The roller followers in the turret use internal roller bearings to transfer torque while rotating.

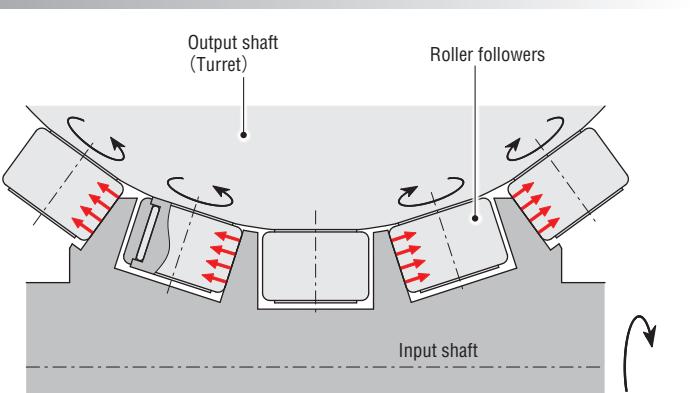
This mechanism ensures zero backlash, precision, and efficiency while preventing wear. It also provides long-term, consistent accuracy.

The servomotor drive delivers unparalleled, ultimate motion control.

Roller gear cam mechanism

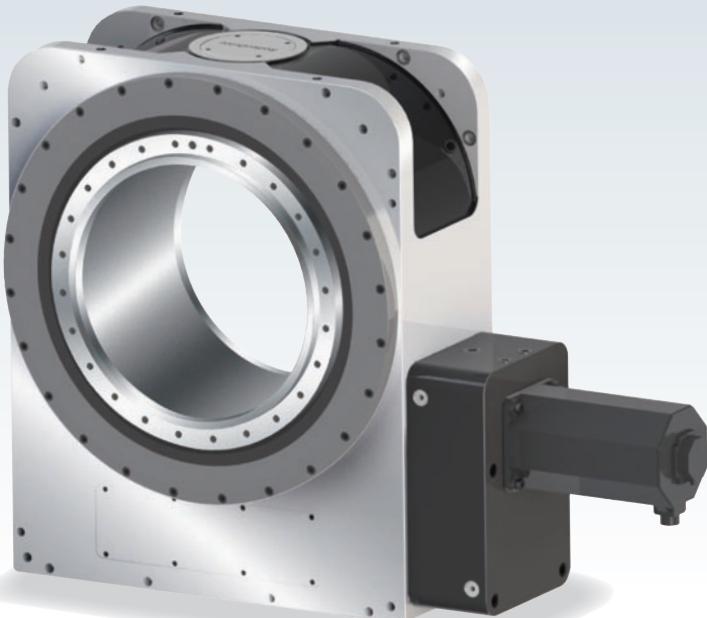


Preload mechanism



RollerDrive® RU series

All-Purpose Model for Various Applications



Feature

1

Heavy-duty drive with a compact motor

Our product lineup includes high gear ratio reducers that use proprietary reducer gears to deliver heavy torque using a small servomotor.

Feature

2

High rigidity

The internal structure was redesigned with a cast iron housing and heavy-duty output bearing for high rigidity.

Feature

3

Flexible Servomotor Options

Compatible with a wide range of servomotor sizes (for each brand). Servomotors are coupling-mounted for installation. Easy to install even for first-time users.

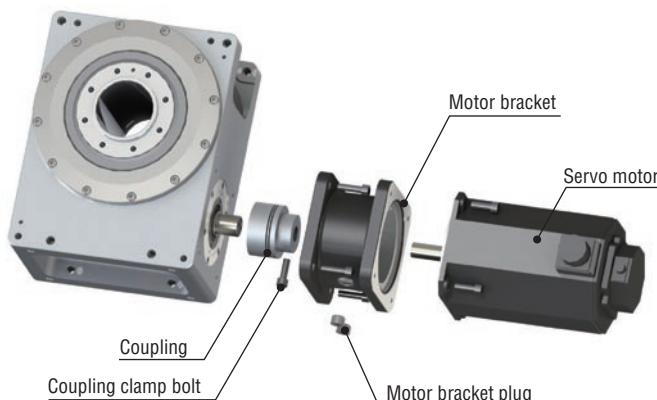
Feature

4

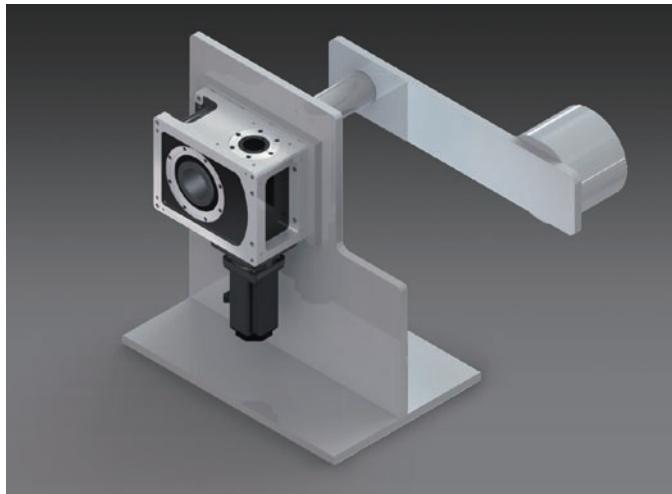
Suitable for Use in Harsh Environments

We offer a water-proof and dust-proof option that uses a special seal for protection against washdown and dust-prone environments.

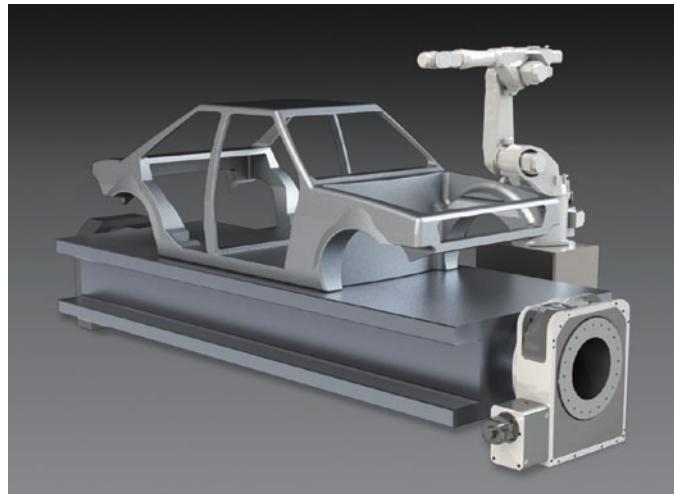
Motor mount (Standard gear ratio model)



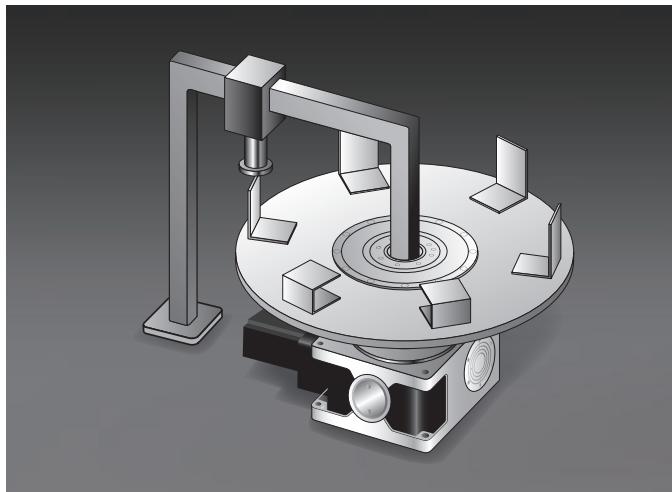
Applications



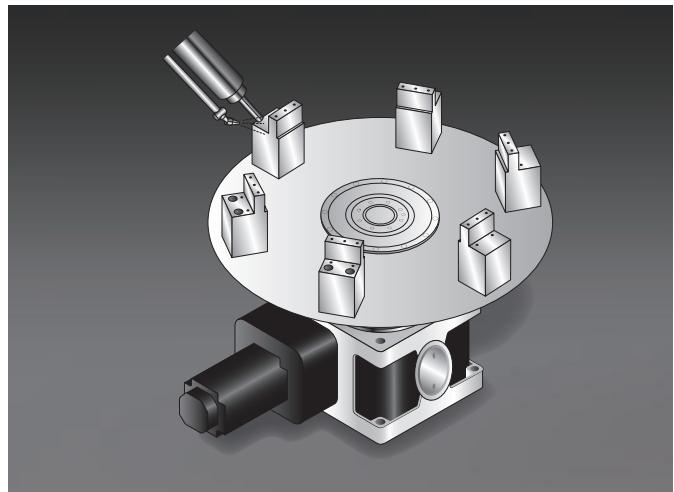
Oscillating Work with Off-Center Loads



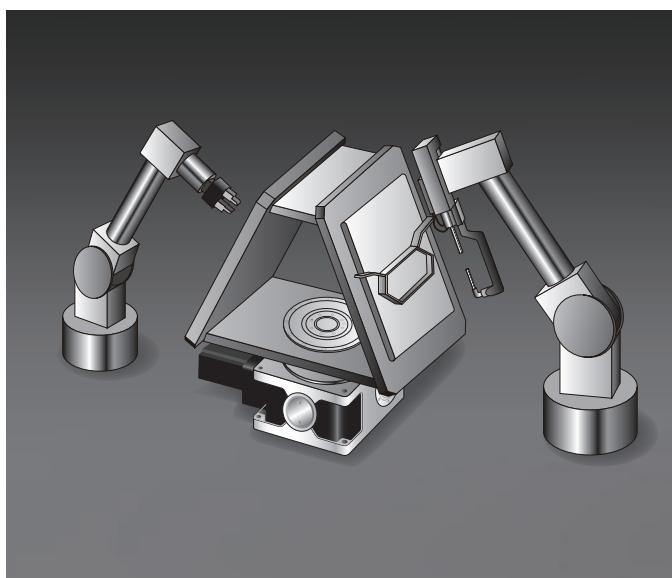
Automotive Welding and Assembly Process



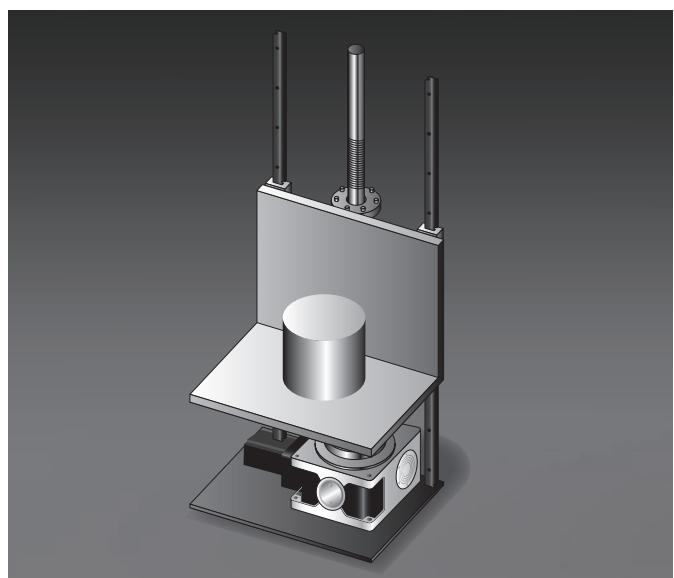
Using the Hollow Shaft for Crimping



Boring Machine



Rotary Positioner for Welding Machines



Vertical Ball Screw Drive

Model Code

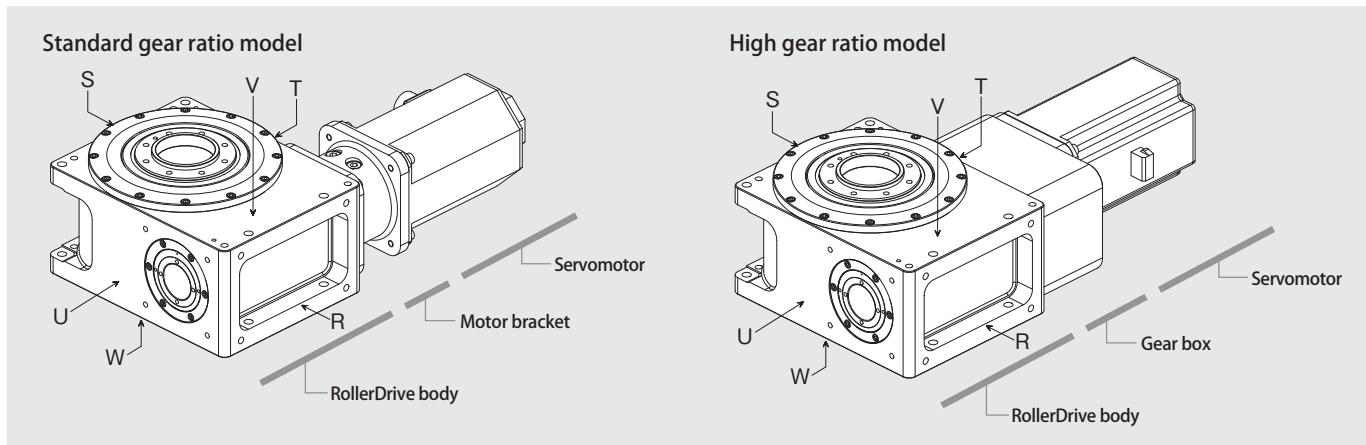
Model Code

RU 160 - 24 GT - AR-A

① ② ③ ④ ⑤ ⑥ ⑦

① Model	② Size	③ Gear ratio	④ Lubrication and mounting position	⑤ Servomotor position	⑥ Attachment code	⑦ Waterproof and dustproof option
RU RUX (High accuracy type)	160	24、72	Grease lubrication (RU160 and RU200 only) G: All positions are available Oil lubrication 1・2・3・4・5・6 See Oil lubrication mounting position code	T : Standard Mounts on right side U : Mounts on left side	A R : With attachment (Standard gear ratio only available on models RU160 to RU250) Position of access hole (Access hole only on side S for high gear ratio models) Attachment code 0 0 : Without attachment (Standard gear ratio models only) See Dimensions Diagrams for each size. → P.7~18	Blank: None A: Include
	200	30、90				
	250	30、100				
	315	32、120				
	400	36、120				
	500	40、150				

RollerDrive Surfaces



※ Shown with sevo motor on "T" surface

Oil lubrication mounting position code

1	2	3	4	5	6

W surface on bottom V surface on bottom U surface on bottom T surface on bottom R surface on bottom S surface on bottom

Position of access hole

R	S	V	W

Toward R surface Toward S surface Toward V surface Toward W surface

RollerDrive Specifications

Capacity Table for Oil Lubrication Figures in parenthesis are for grease lubrication.

サイズ		RU160		RU200		RU250		RU315		RU400		RU500				
Gear ratio			24	72	30	90	30	100	32	120	36	120	40	150		
Max Acceleration Torque start/stop		N·m	1,730 (1,410)			2,170 (1,760)			6,250		8,710		15,530		26,090	
Static rated output torque		N·m	2,400			3,090			8,140		11,720		21,290		34,950	
Maximum output speed ^{*1}		min ⁻¹	100 (60)			65 (40)			40		30		25		20	
Rated output speed ^{*1}		min ⁻¹	30 (25)			25 (20)			20		15		13		12	
Internal moment of inertia at the input shaft ^{*2}		×10 ⁻² kg·m ²	0.57 [0.41]	0.26	0.68 [0.52]	0.36	3.44 [3.28]	0.71	[6.97]	1.27	[20.56]	2.94	[28.91]	3.55		
Angular transmission accuracy	Standard accuracy model	arcsec or less	40													
	High accuracy model	arcsec or less	20													
Angular repeatability accuracy	Standard accuracy model	arcsec or less	±5													
	High accuracy model	arcsec or less	±3													
Output shaft axial runout (Side V)	Standard accuracy model	μm or less	10													
	High accuracy model	μm or less	3					5								
Output shaft radial runout (Side V)	Standard accuracy model	μm or less	10													
	High accuracy model	μm or less	3					5								
Allowable axial load output shaft		N	55,000		63,000		130,000		140,000		160,000		180,000			
Allowable radial load output shaft		N	43,000		48,000		95,000		110,000		135,000		150,000			
Allowable moment load output shaft		N·m	9,700		16,000		38,000		65,000		110,000		200,000			
Weight		kg	140	155	180	200	380	425	660	705	985	1,066	1,585	1,715		

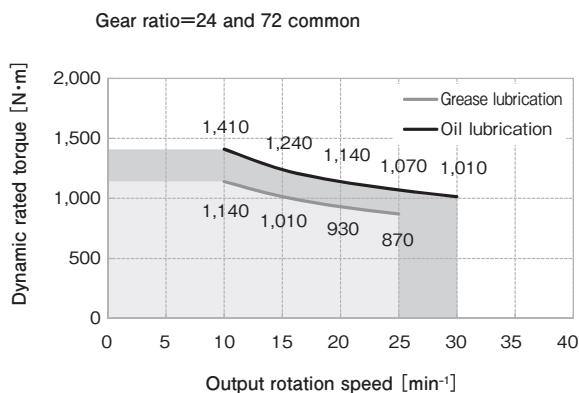
*1 If you want to rotate the output continuously for 360° or more, please contact us in advance.

*2 Figures in brackets [] are for standard gear ratio models without the attachment.

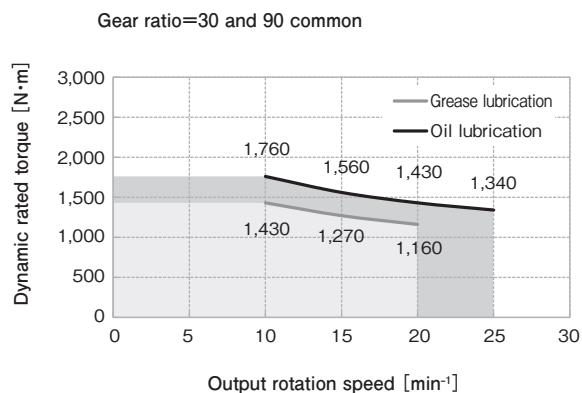
Dynamic Rated Output Torque

The dynamic rated output torque is the load torque for which an expected service life of 12,000 hours or greater is ensured. The dynamic rated output torque is dependent on the output rotation speed.

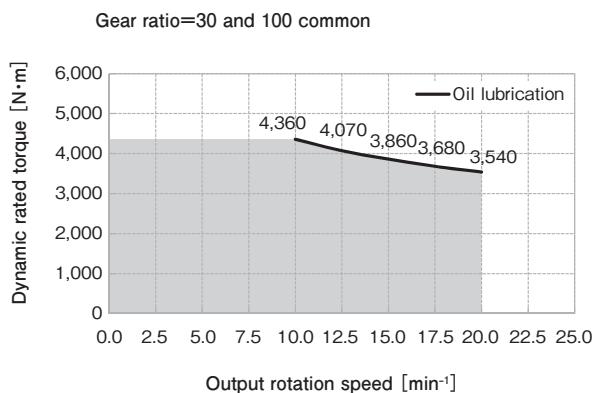
RU160



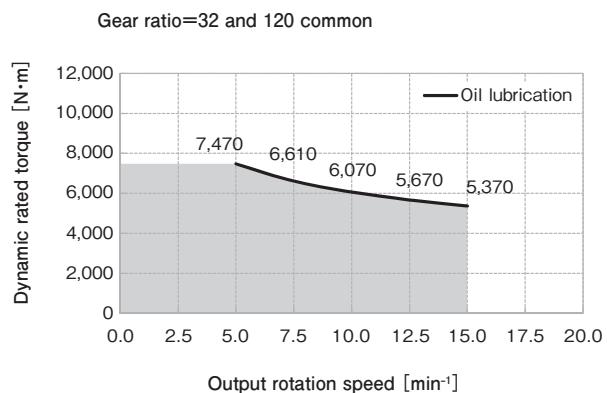
RU200



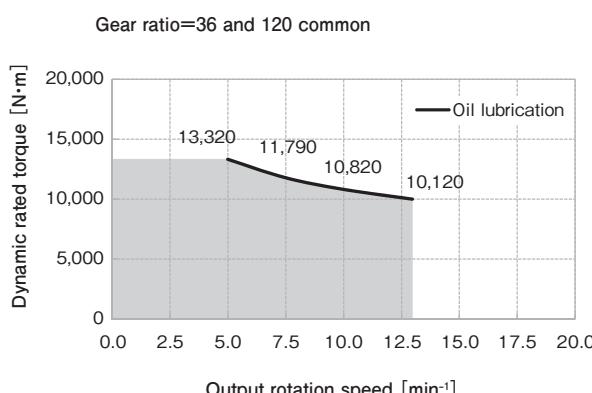
RU250



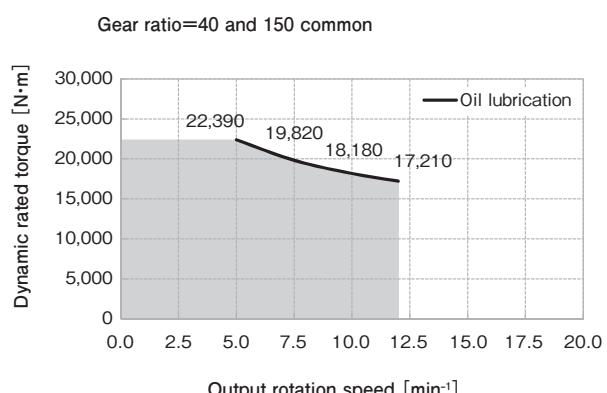
RU315



RU400



RU500

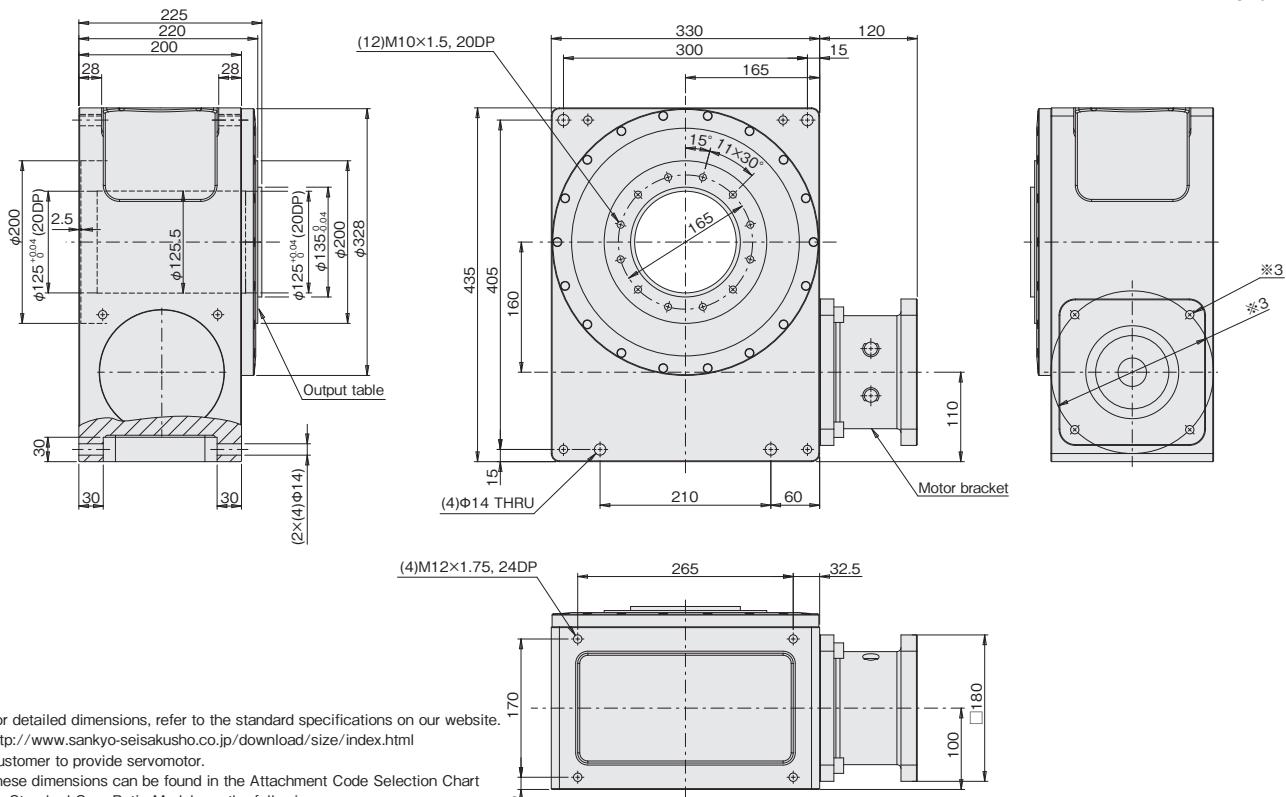


RU160 Dimensions

Standard Gear Ratio Model Dimension Drawings (Gear ratio=24)

RU160

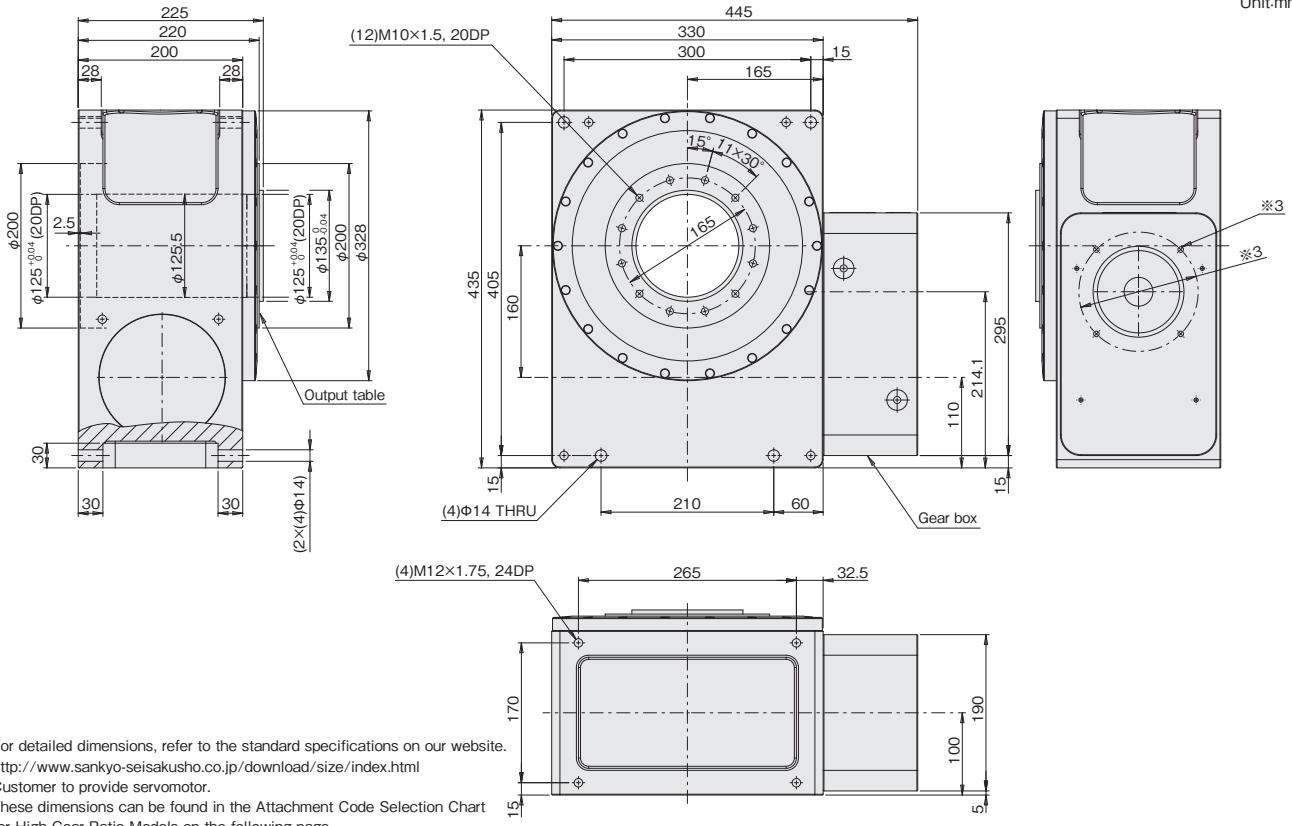
Unit:mm



High Gear Ratio Model Dimension Drawings (Gear ratio=72)

RU160

Unit:mm

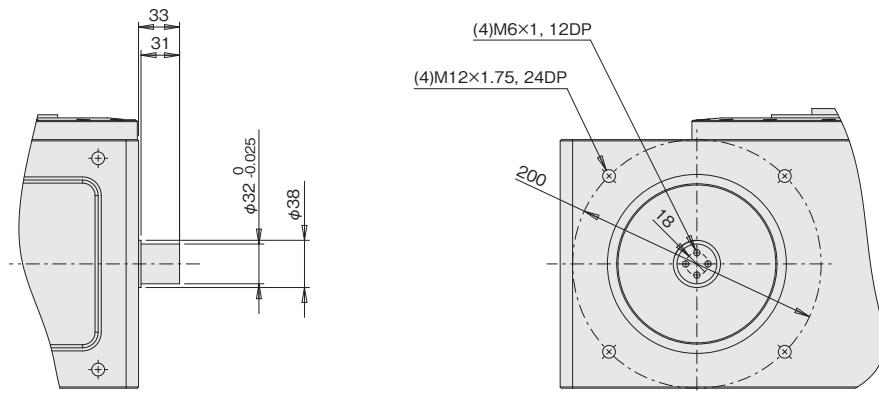


RU160 Dimensions

Input Shaft Detailed Drawing Standard Gear Ratio Models [Gear ratio=24] Without Attachment

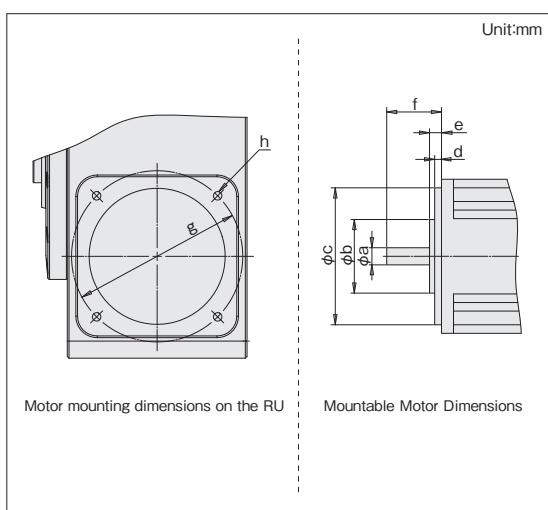
RU160

Unit:mm



Attachment Code Selection Chart Standard Gear Ratio Models [Gear ratio=24] With Attachment **RU160**

Check the dimensions for a to h in the diagram below, and choose the proper attachment code.

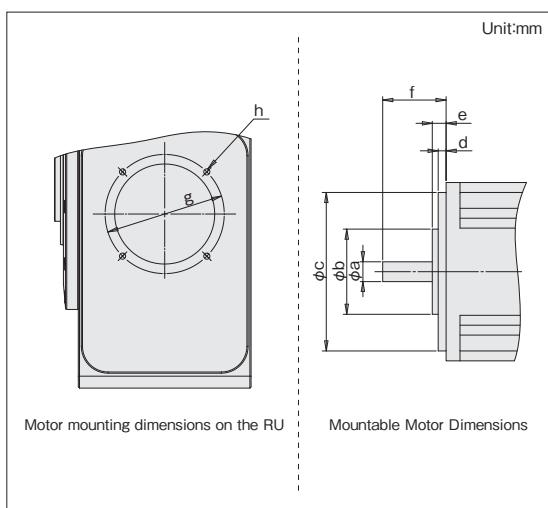


Attachment code	a	b	c	d	e	f	g	h	Max motor torque
A□	$\phi 35^{+0.010}_0$	Less than $\phi 90$	$\phi 114.3$	Less than 7	Less than 47.8	79~80	200	(4)M12x1.75, 20DP	160N·m
	$\phi 35^{-0.016}_0$								
B□	$\phi 42^{+0.010}_0$								

※1 The most common servomotors suitable for these models are given on page 19.

Attachment Code Selection Chart High Gear Ratio Models [Gear ratio=72] With Attachment **RU160**

Check the dimensions for a to h in the diagram below, and choose the proper attachment code.



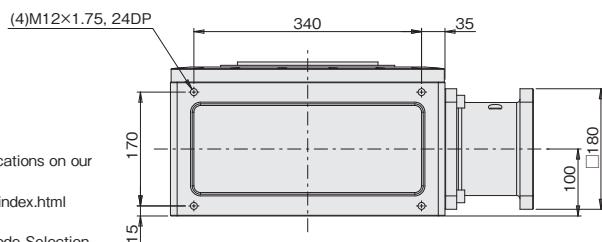
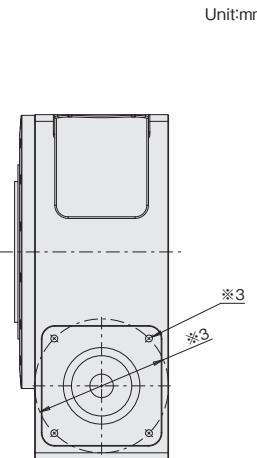
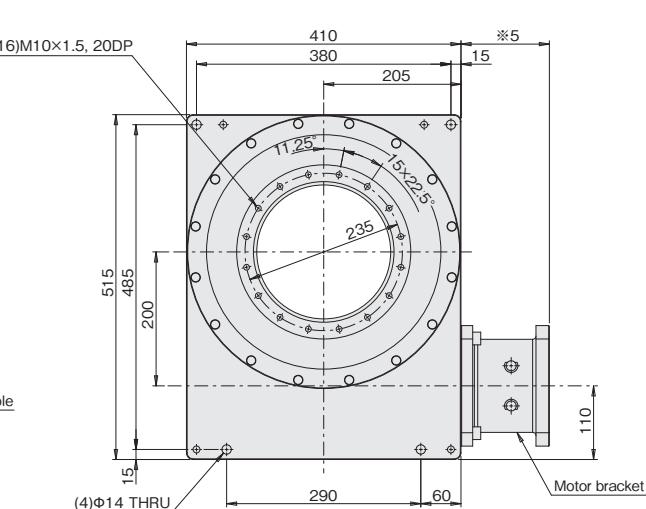
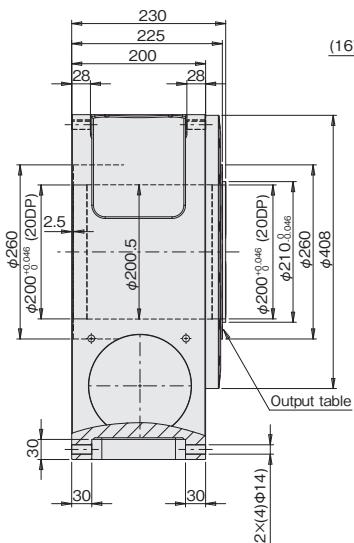
Attachment code	a	b	c	d	e	f	g	h	Max motor torque
AS	$\phi 24^{+0.010}_0$	Less than $\phi 100$	$\phi 110$	Less than 10	Less than 12	40~65	145	(4)M8x1.25, 16DP	80N·m
BS	$\phi 28^{+0.010}_0$								
CS	$\phi 35^{+0.010}_0$								
DS	$\phi 35^{-0.016}_0$								

※1 The most common servomotors suitable for these models are given on pages 20 to 21.

RU200 Dimensions

Standard Gear Ratio Model Dimension Drawings (Gear ratio=30)

RU200



Attachment code	*5 Dimensions
A <input type="checkbox"/>	132
B <input type="checkbox"/>	
C <input type="checkbox"/>	166

※1 For detailed dimensions, refer to the standard specifications on our website.
<http://www.sankyo-seisakusho.co.jp/download/size/index.html>

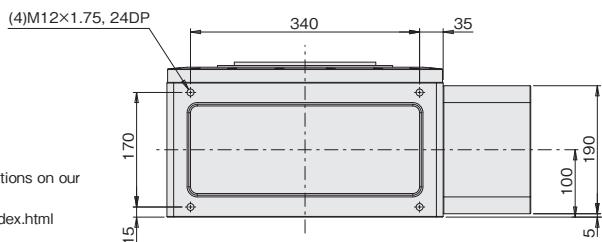
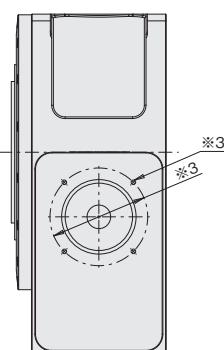
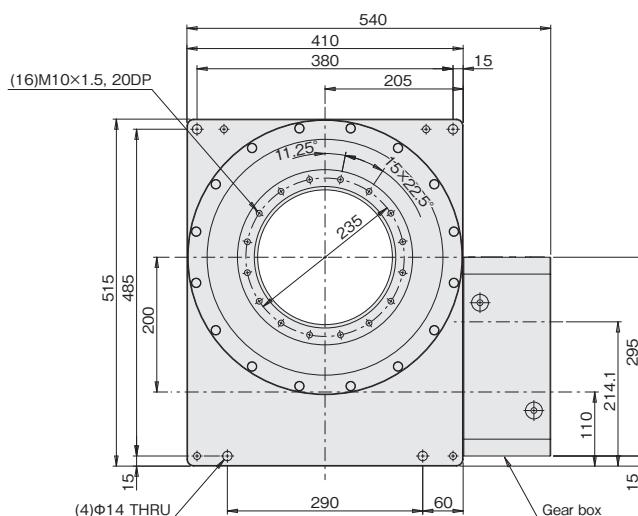
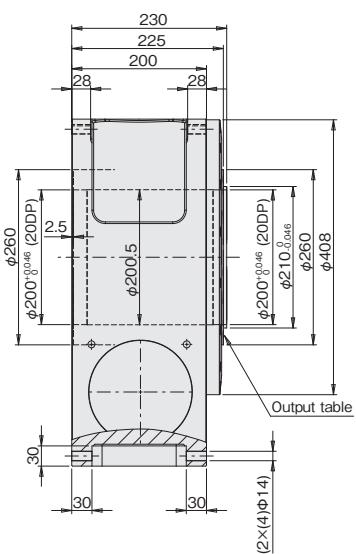
※2 Customer to provide servomotor.

※3 These dimensions can be found in the Attachment Code Selection Chart for Standard Gear Ratio Models on the following page.

※4 Use the product code to specify the position of the access hole in the motor bracket. (Refer to P.4)

High Gear Ratio Model Dimension Drawings (Gear ratio=90)

RU200



※1 For detailed dimensions, refer to the standard specifications on our website.
<http://www.sankyo-seisakusho.co.jp/download/size/index.html>

※2 Customer to provide servomotor.

※3 These dimensions can be found in the Attachment Code Selection Chart for High Gear Ratio Models on the following page.

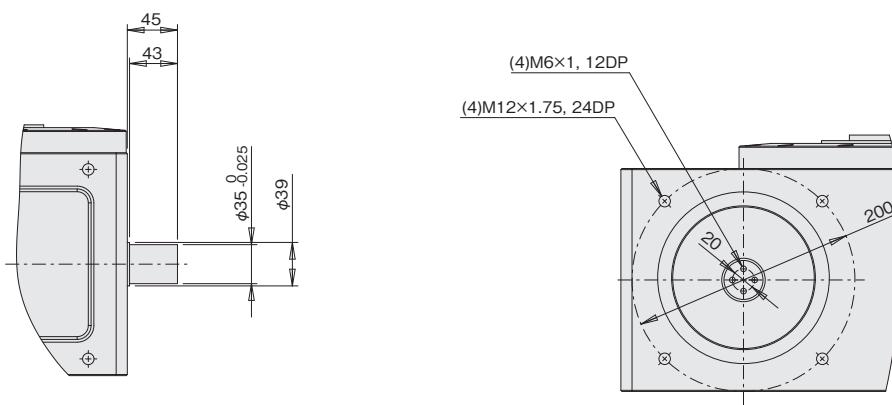
※4 The access hole for the gear box is located on side S. (Refer to P.4)

RU200 Dimensions

Input Shaft Detailed Drawing Standard Gear Ratio Models [Gear ratio=30] Without Attachment

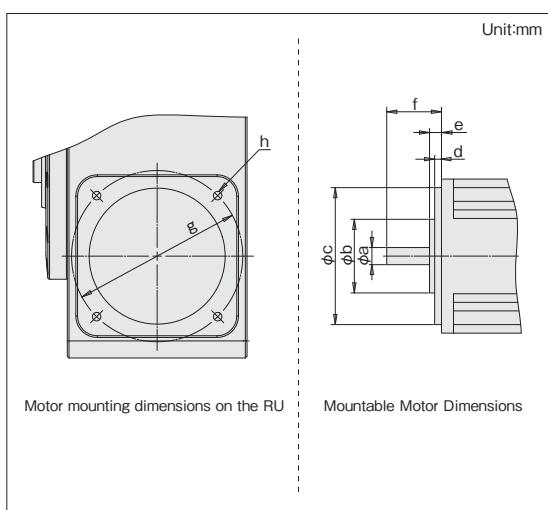
RU200

Unit:mm



Attachment Code Selection Chart Standard Gear Ratio Models [Gear ratio=30] With Attachment **RU200**

Check the dimensions for a to h in the diagram below, and choose the proper attachment code.

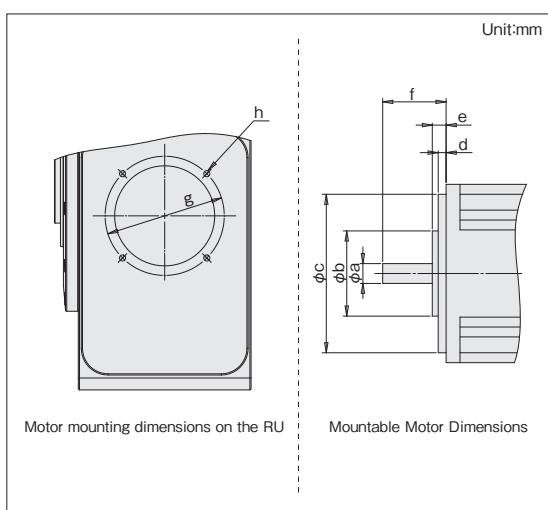


Attachment code	a	b	c	d	e	f	g	h	Max motor torque
A□	$\phi 35^{+0.010}_0$	Less than $\phi 90$	$\phi 114.3$	Less than 7	Less than 47.8	79~80	200	(4)M12x1.75, 20DP	160N·m
	$\phi 35^{-0.016}_0$								
B□	$\phi 42^{+0.010}_0$				Less than 81.8	112~113			
C□	$\phi 42^{-0.016}_0$								

※1 The most common servomotors suitable for these models are given on pages 22 to 23.

Attachment Code Selection Chart High Gear Ratio Models [Gear ratio=90] With Attachment **RU200**

Check the dimensions for a to h in the diagram below, and choose the proper attachment code.



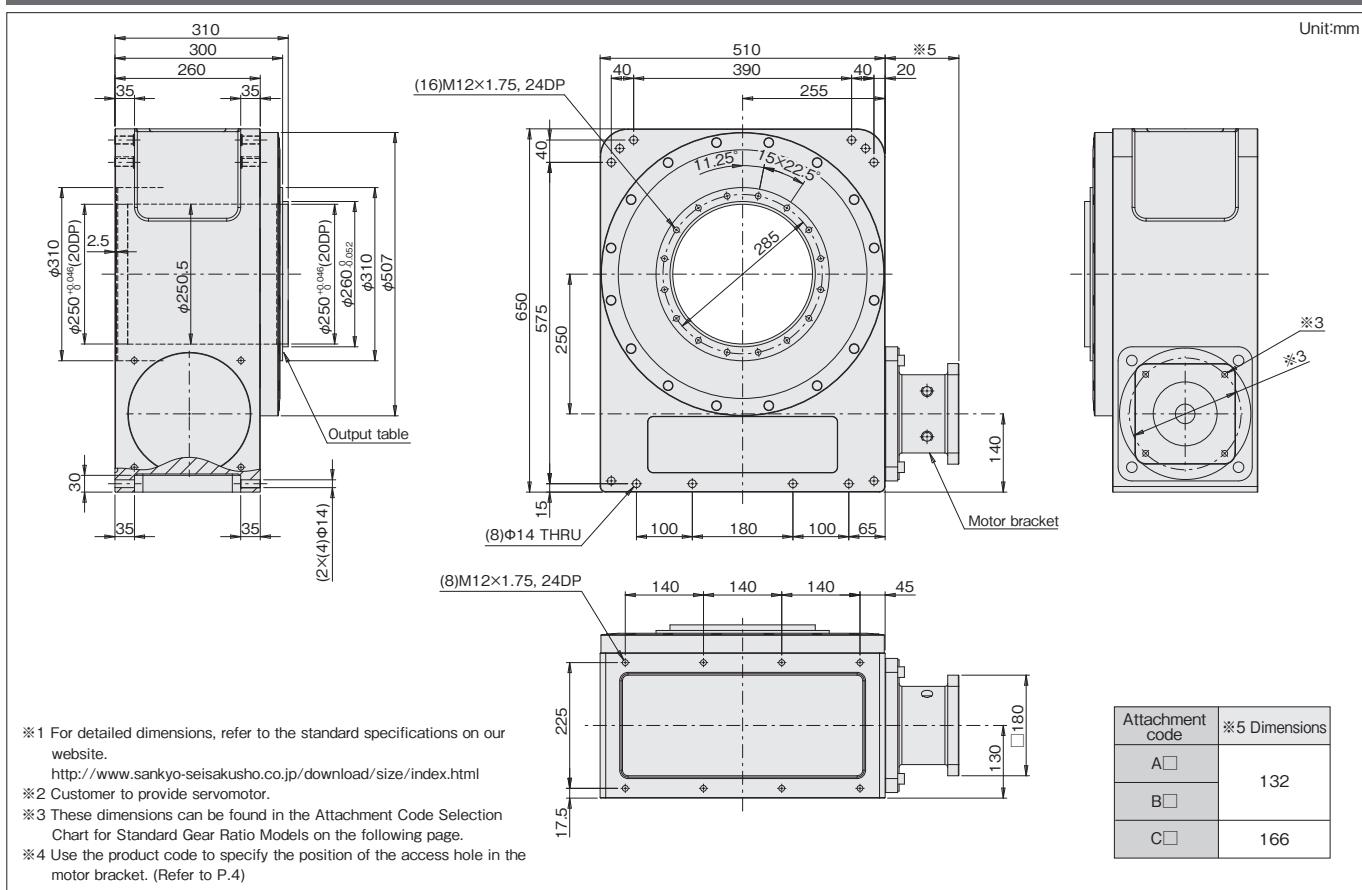
Attachment code	a	b	c	d	e	f	g	h	Max motor torque		
AS	$\phi 24^{+0.010}_0$	Less than $\phi 100$	$\phi 110$	Less than 10	Less than 11.5	40~65	145	(4)M8x1.25, 16DP	125N·m		
BS	$\phi 28^{+0.010}_0$										
CS	$\phi 35^{+0.010}_0$		$\phi 114.3$		Less than 12	40~80	200	(4)M12x1.75, 24DP			
DS	$\phi 35^{-0.016}_0$										

※1 The most common servomotors suitable for these models are given on pages 23 to 24.

RU250 Dimensions

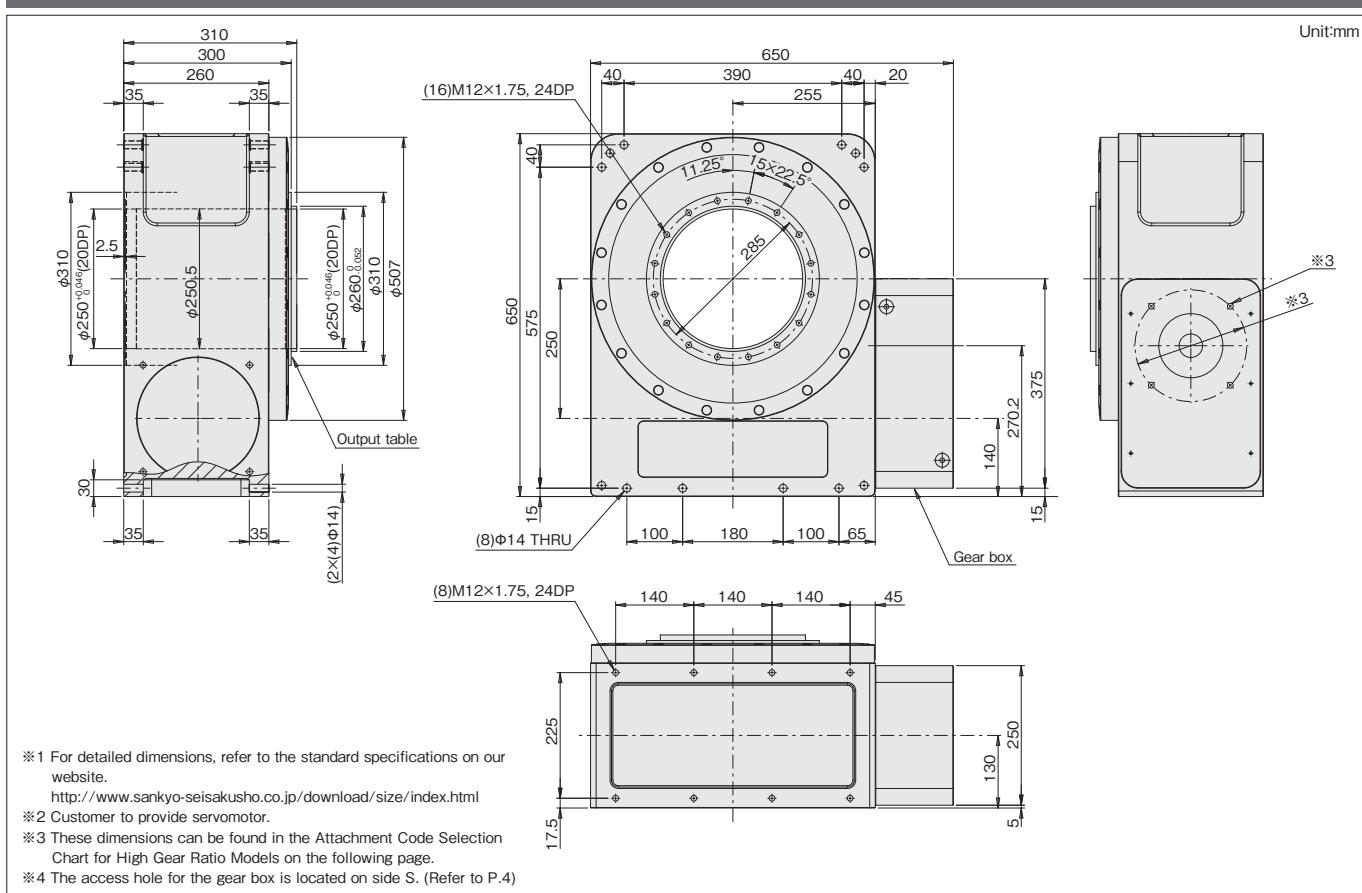
Standard Gear Ratio Model Dimension Drawings (Gear ratio=30)

RU250



High Gear Ratio Model Dimension Drawings (Gear ratio=100)

RU250

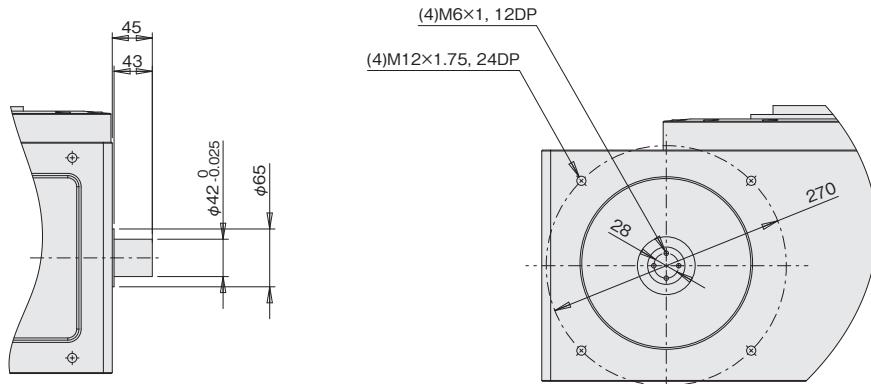


RU250 Dimensions

Input Shaft Detailed Drawing Standard Gear Ratio Models [Gear ratio=30] Without Attachment

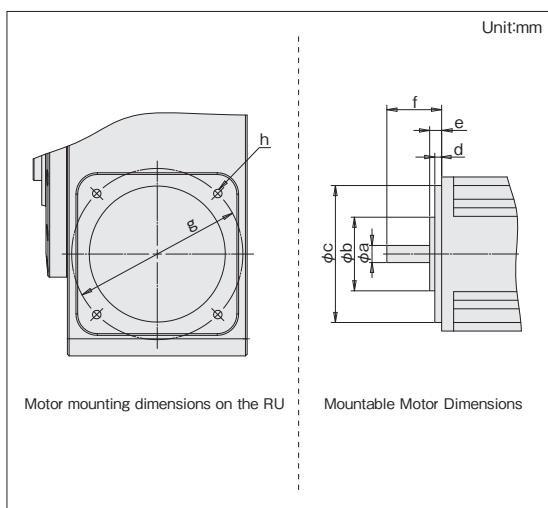
RU250

Unit:mm



Attachment Code Selection Chart Standard Gear Ratio Models [Gear ratio=30] With Attachment **RU250**

Check the dimensions for a to h in the diagram below, and choose the proper attachment code.

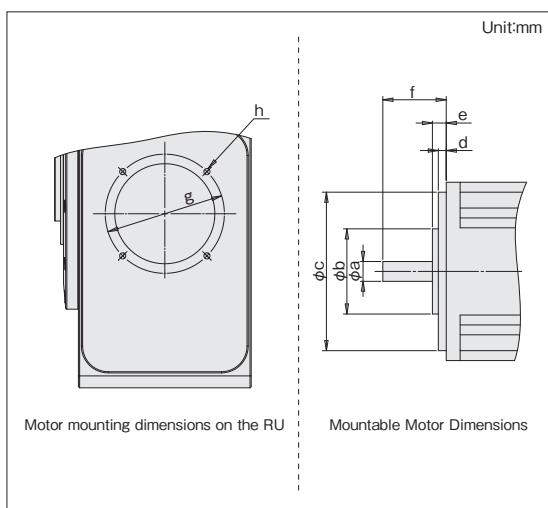


Attachment code	a	b	c	d	e	f	g	h	Max motor torque		
A <input type="checkbox"/>	$\phi 35^{+0.010}_0$	—	$\phi 114.3$	Less than 47.8	—	79~80	200	(4)M12x1.75, 20DP	180N·m		
	$\phi 35^0_{-0.016}$										
B <input type="checkbox"/>											
C <input type="checkbox"/>	$\phi 42^{+0.016}_0$			Less than 81.8			112~113				

※1 The most common servomotors suitable for these models are given on page 25.

Attachment Code Selection Chart High Gear Ratio Models [Gear ratio=100] With Attachment **RU250**

Check the dimensions for a to h in the diagram below, and choose the proper attachment code.



Attachment code	a	b	c	d	e	f	g	h	Max motor torque
AS	$\phi 35^{+0.010}_0$	—	$\phi 114.3$	Less than 7.5	—	40~80	200	(4)M12x1.75, 24DP	110N·m
	$\phi 35^0_{-0.016}$								

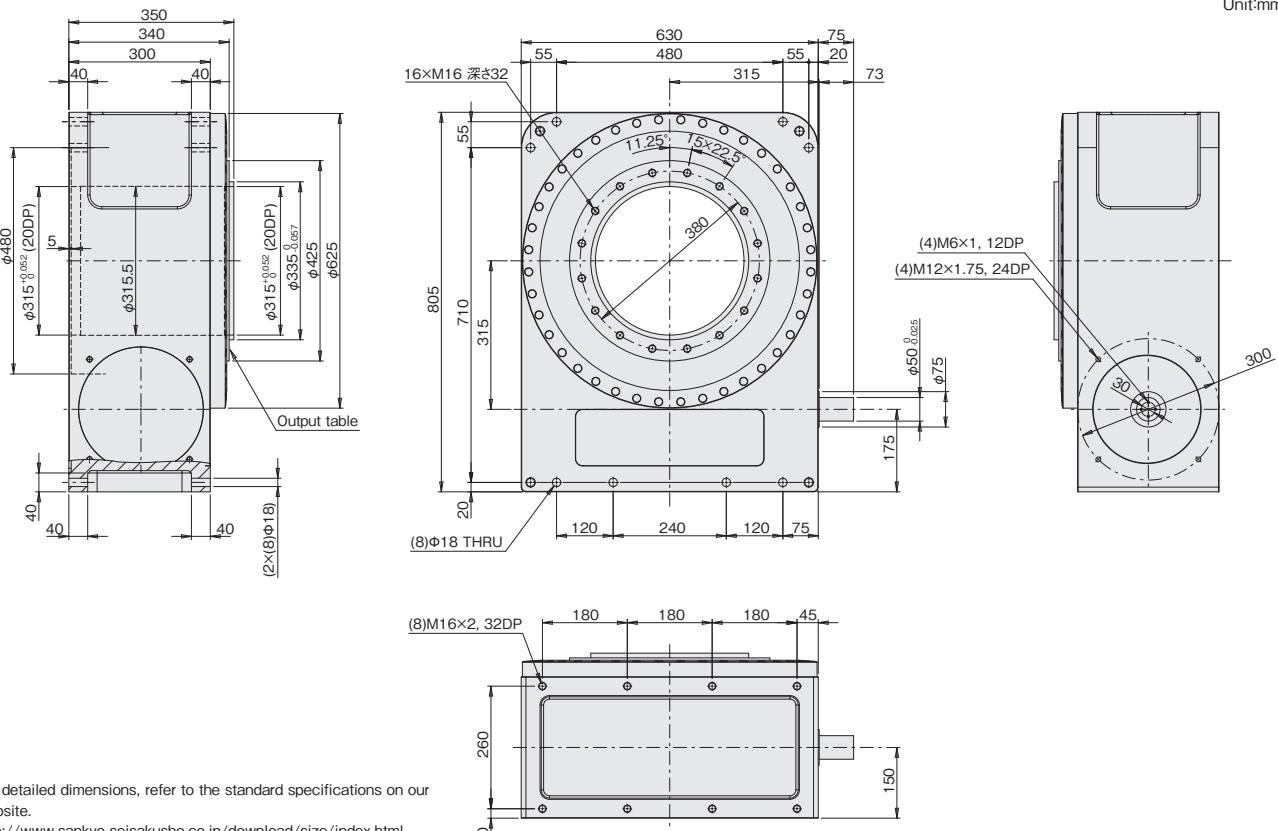
※1 The most common servomotors suitable for these models are given on page 26.

RU315 Dimensions

Standard Gear Ratio Model Dimension Drawings (Gear ratio=32)

RU315

Unit:mm



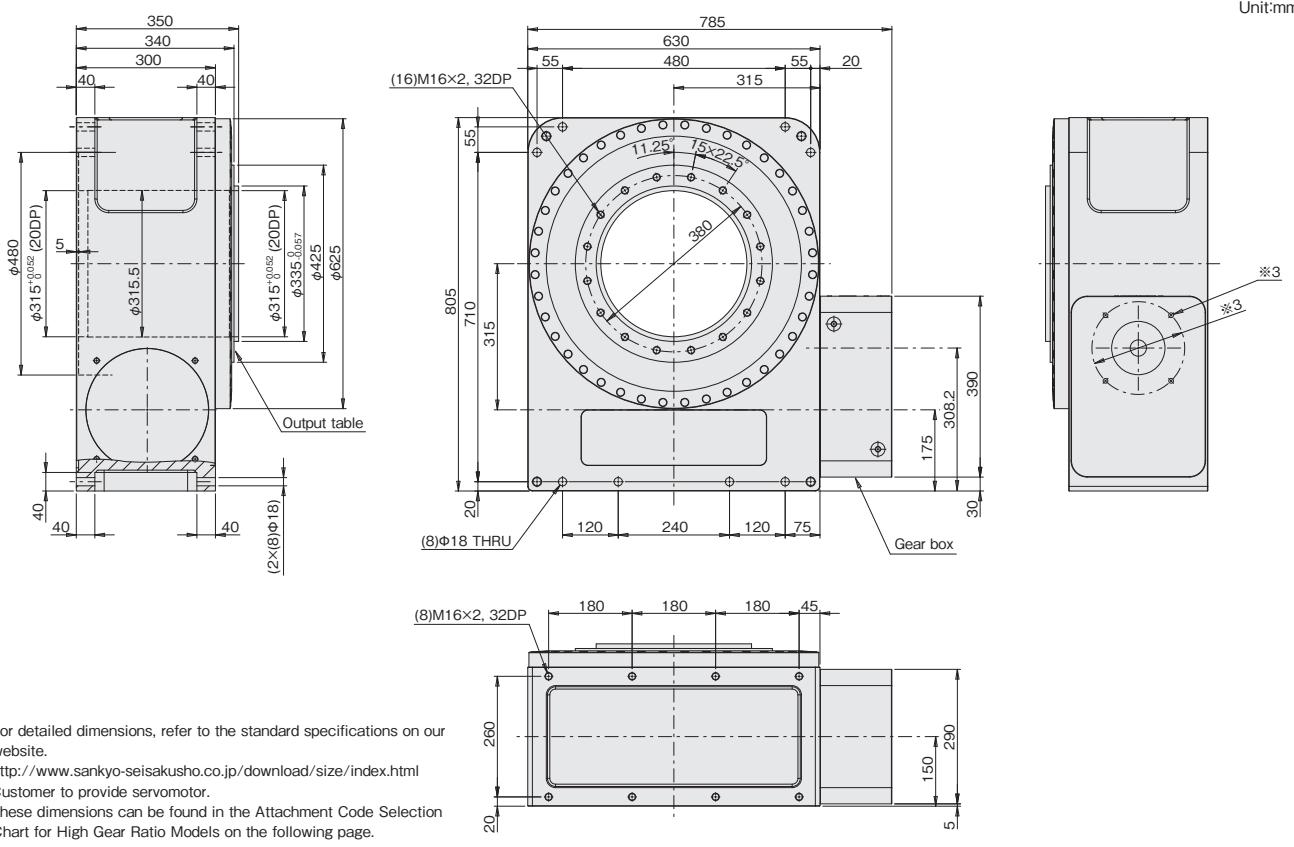
※1 For detailed dimensions, refer to the standard specifications on our website.
<http://www.sankyo-seisakusho.co.jp/download/size/index.html>

※2 Customer to provide servomotor.

High Gear Ratio Model Dimension Drawings (Gear ratio=120)

RU315

Unit:mm



※1 For detailed dimensions, refer to the standard specifications on our website.
<http://www.sankyo-seisakusho.co.jp/download/size/index.html>

※2 Customer to provide servomotor.

※3 These dimensions can be found in the Attachment Code Selection Chart for High Gear Ratio Models on the following page.

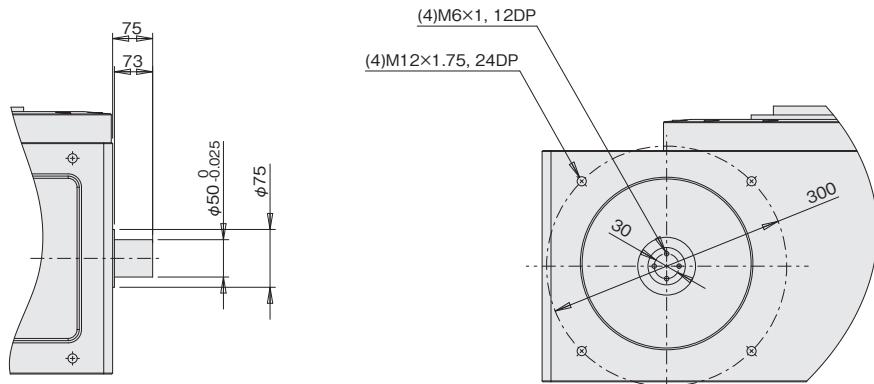
※4 The access hole for the gear box is located on side S. (Refer to P.4)

RU315 Dimensions

Input Shaft Detailed Drawing Standard Gear Ratio Models [Gear ratio=32] Without Attachment

RU315

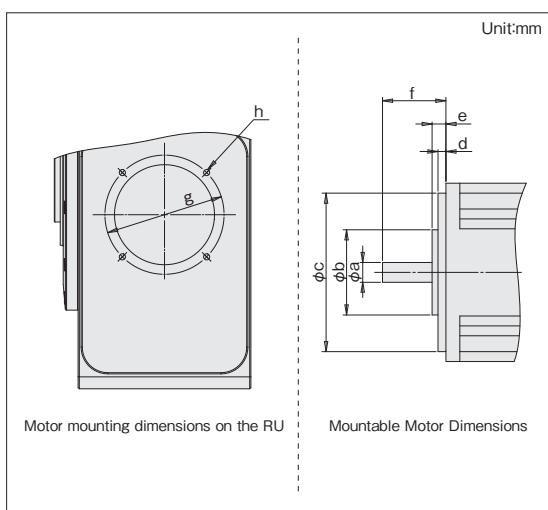
Unit:mm



Attachment Code Selection Chart High Gear Ratio Models [Gear ratio=120] With Attachment

RU315

Check the dimensions for a to h in the diagram below, and choose the proper attachment code.



Motor mounting dimensions on the RU

Mountable Motor Dimensions

Attachment code	a	b	c	d	e	f	g	h	Max motor torque
AS	$\phi 35^{+0.010}_0$	—	$\phi 114.3$	Less than 5	—	40~80	200	(4)M12x1.75, 24DP	150N·m
BS	$\phi 35^{-0.016}_0$								

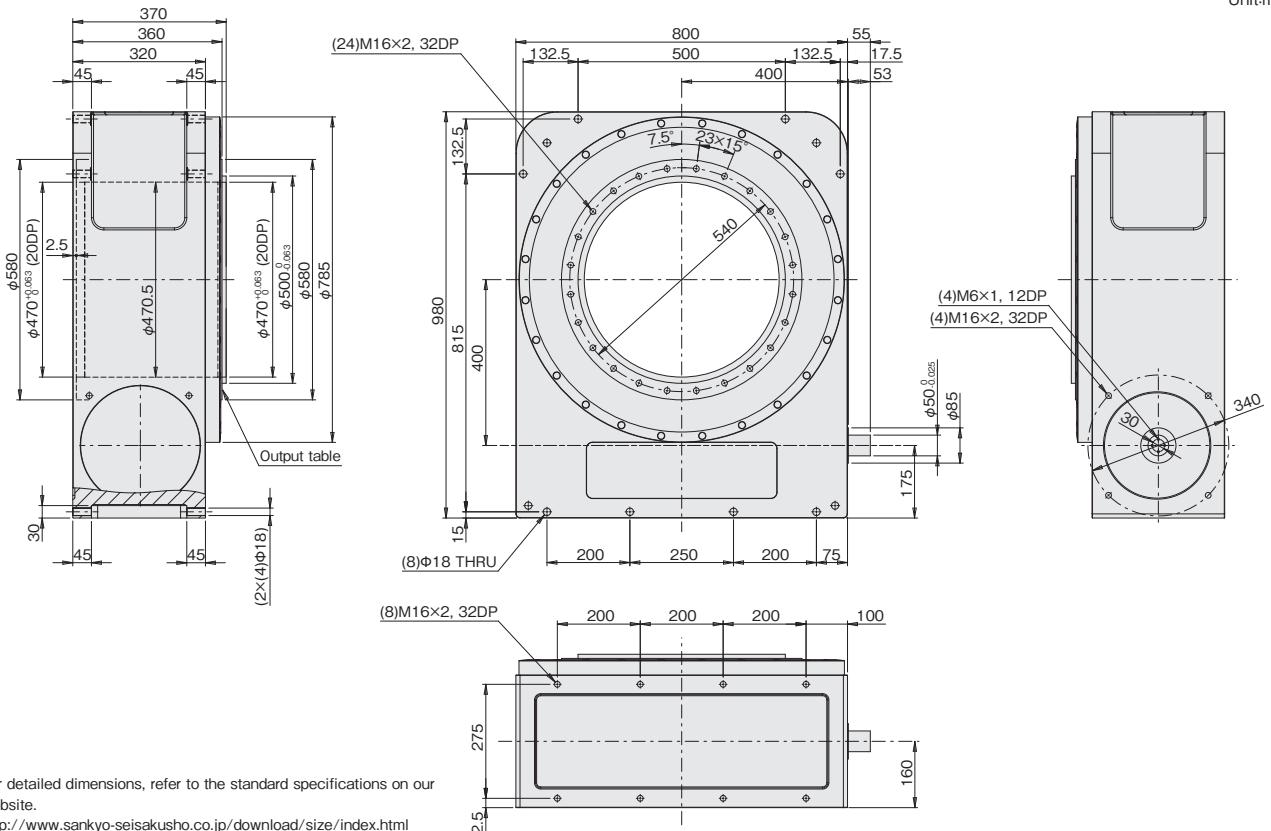
※1 The most common servomotors suitable for these models are given on page 27.

RU400 Dimensions

Standard Gear Ratio Model Dimension Drawings (Gear ratio=36)

RU400

Unit:mm



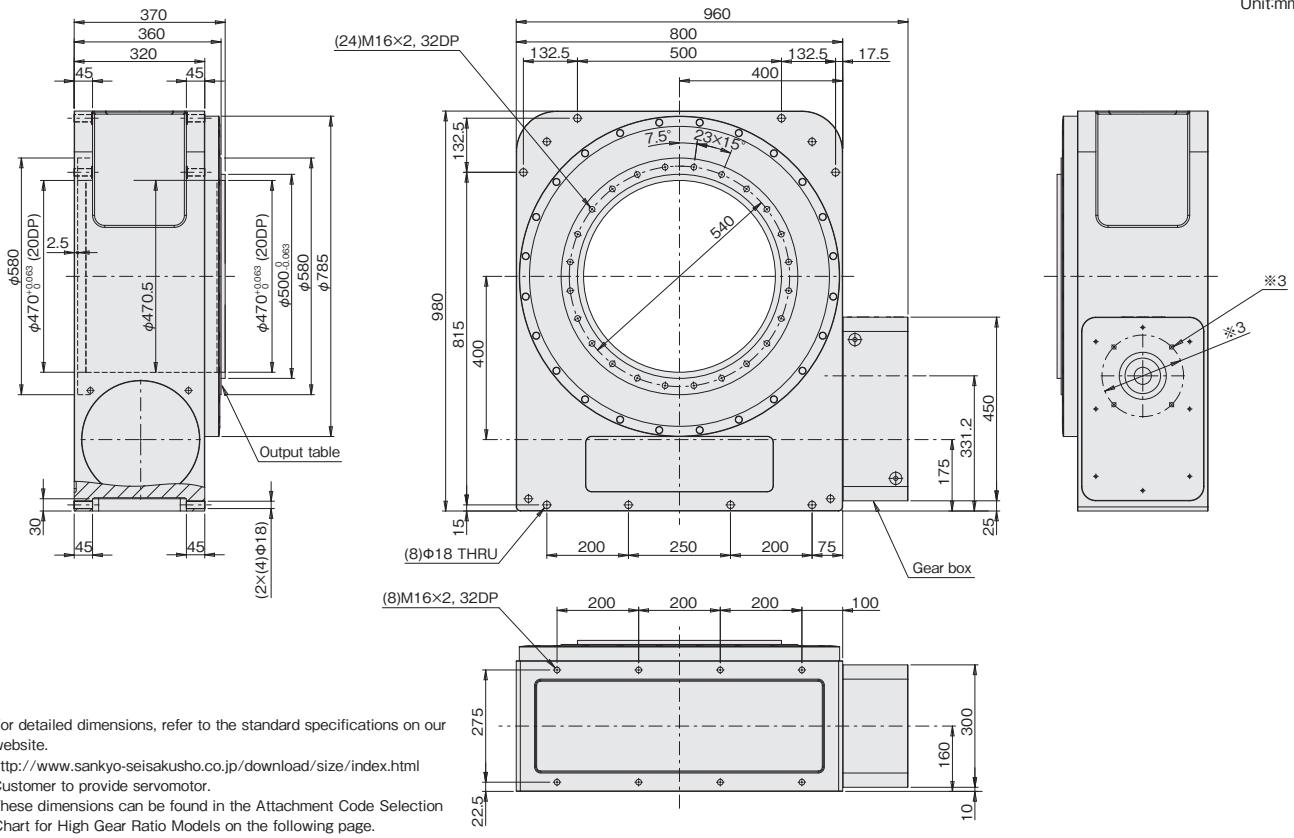
※1 For detailed dimensions, refer to the standard specifications on our website.
<http://www.sankyo-seisakusho.co.jp/download/size/index.html>

※2 Customer to provide servomotor.

High Gear Ratio Model Dimension Drawings (Gear ratio=120)

RU400

Unit:mm

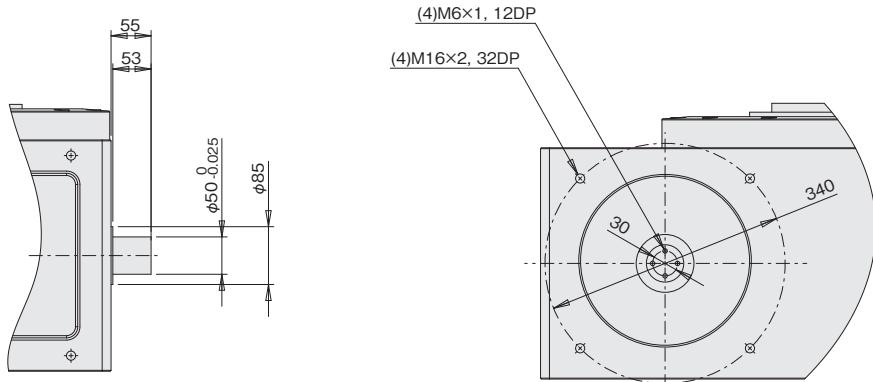


RU400 Dimensions

Input Shaft Detailed Drawing Standard Gear Ratio Models [Gear ratio=36] Without Attachment

RU400

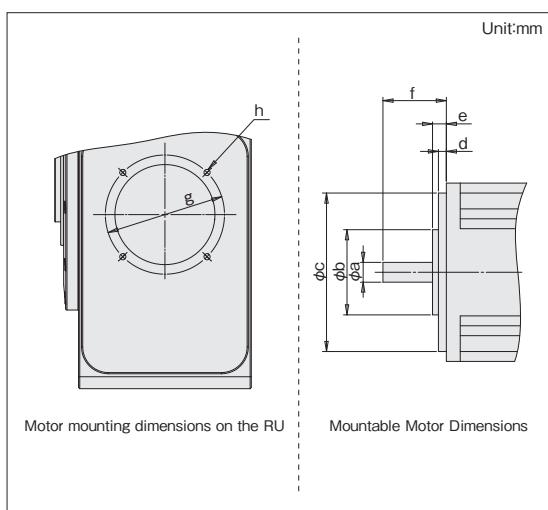
Unit:mm



Attachment Code Selection Chart High Gear Ratio Models [Gear ratio=120] With Attachment

RU400

Check the dimensions for a to h in the diagram below, and choose the proper attachment code.



Attachment code	a	b	c	d	e	f	g	h	Max motor torque
AS	$\phi 35^{+0.010}_0$	Less than $\phi 110$	$\phi 114.3$	Less than 7.5	Less than 10	50~80	200	(4)M12×1.75, 24DP	235N·m
BS	$\phi 35^{-0.016}_0$								
CS	$\phi 42^{-0.016}_0$								

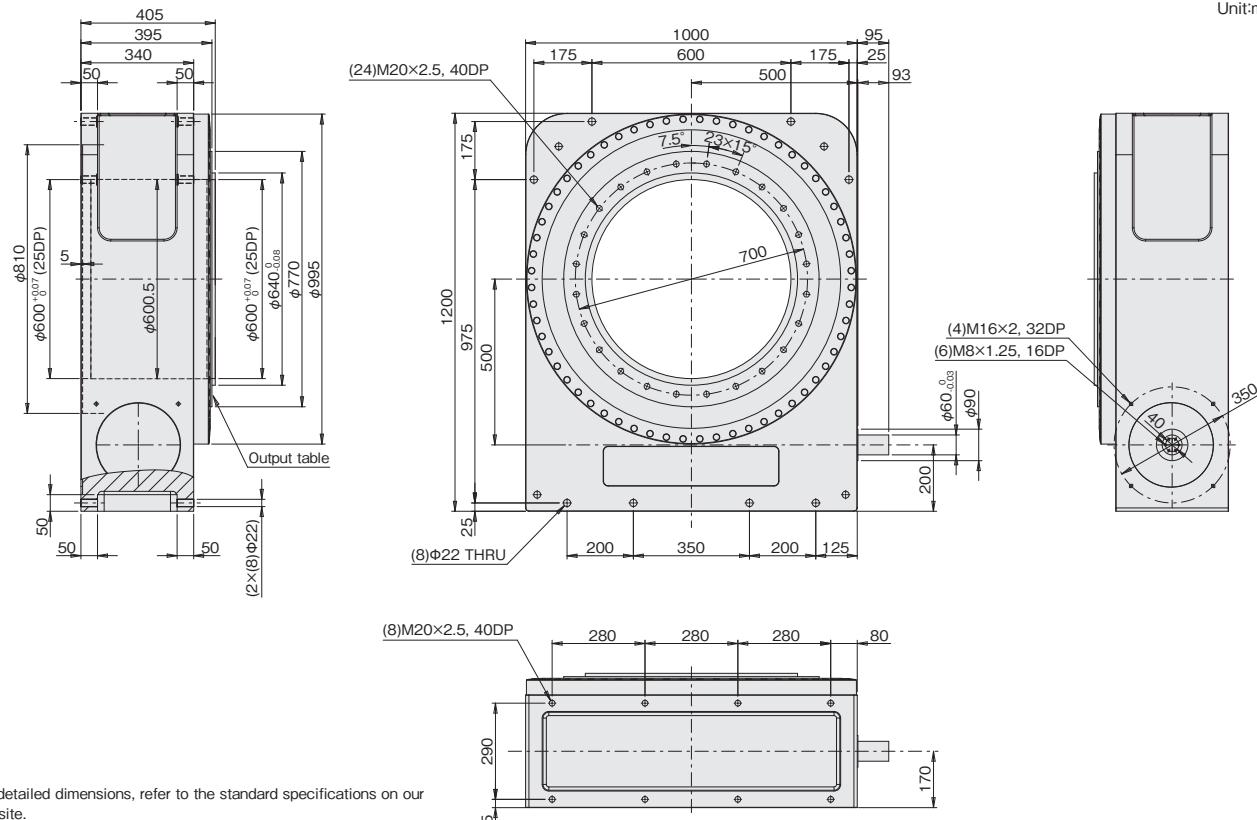
※1 The most common servomotors suitable for these models are given on page 28.

RU500 Dimensions

Standard Gear Ratio Model Dimension Drawings (Gear ratio=40)

RU500

Unit:mm



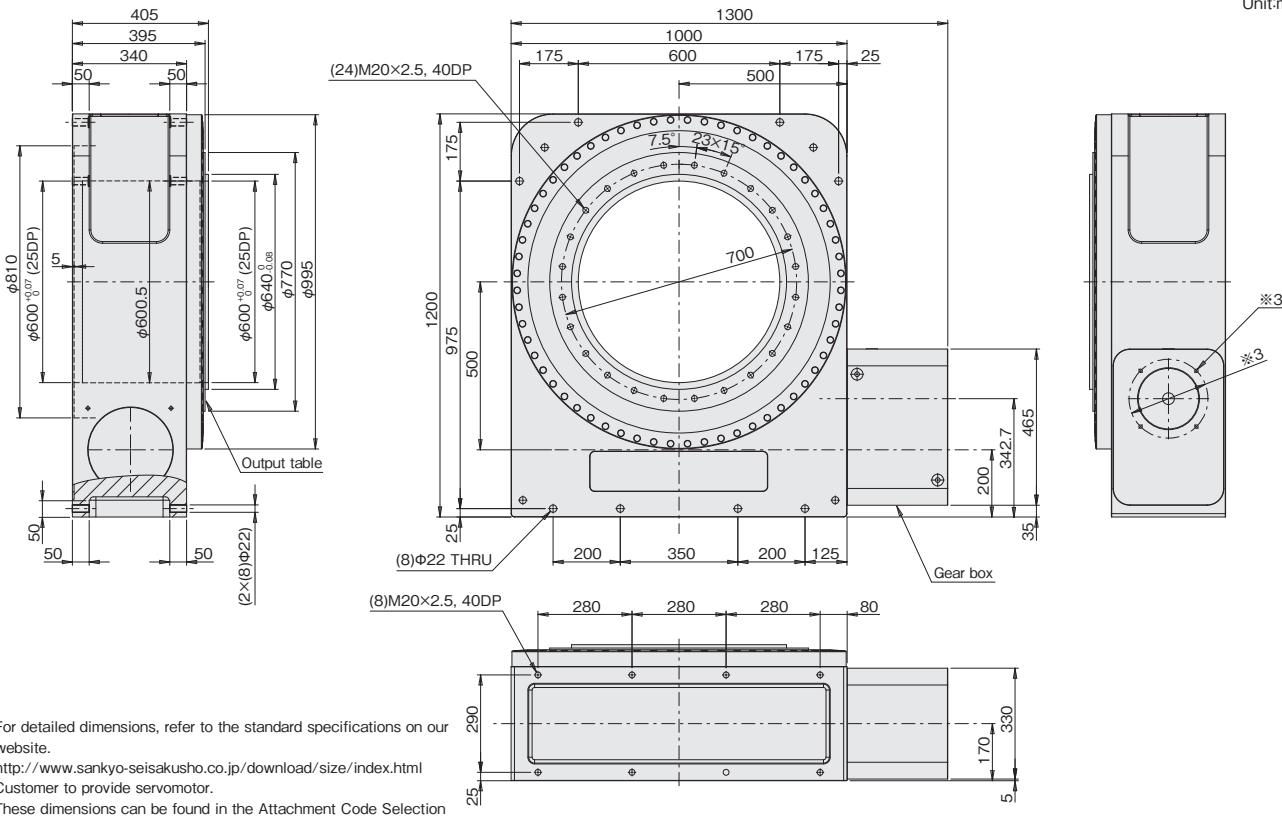
*1 For detailed dimensions, refer to the standard specifications on our website.
<http://www.sankyo-seisakusho.co.jp/download/size/index.html>

*2 Customer to provide servomotor.

High Gear Ratio Model Dimension Drawings (Gear ratio=150)

RU500

Unit:mm



*1 For detailed dimensions, refer to the standard specifications on our website.
<http://www.sankyo-seisakusho.co.jp/download/size/index.html>

*2 Customer to provide servomotor.

*3 These dimensions can be found in the Attachment Code Selection Chart for High Gear Ratio Models on the following page.

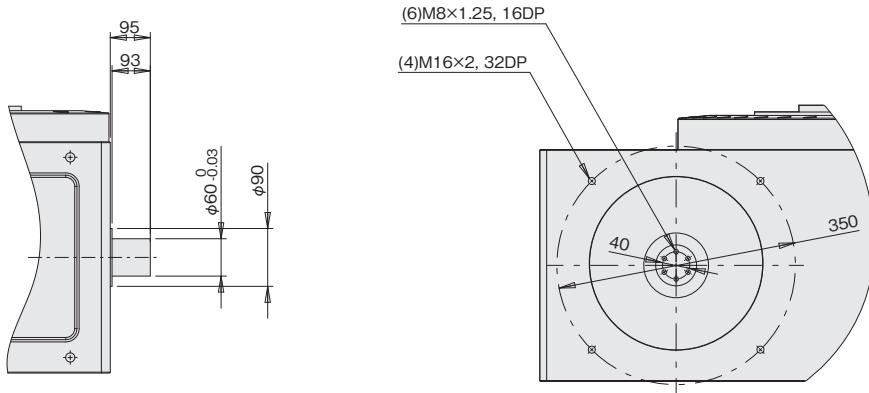
*4 The access hole for the gear box is located on side S. (Refer to P.4)

RU500 Dimensions

Input Shaft Detailed Drawing Standard Gear Ratio Models [Gear ratio=40] Without Attachment

RU500

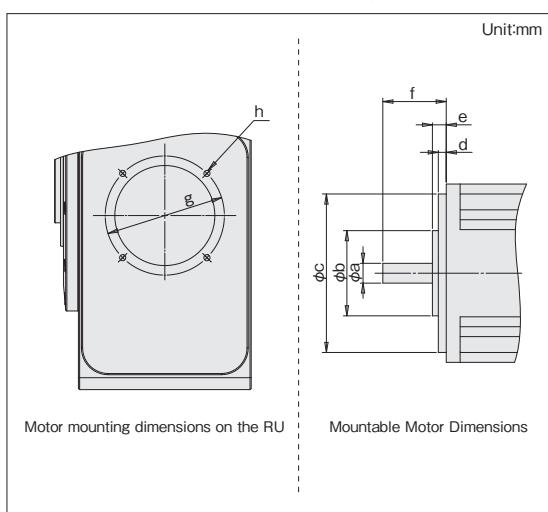
Unit:mm



Attachment Code Selection Chart High Gear Ratio Models [Gear ratio=150] With Attachment

RU500

Check the dimensions for a to h in the diagram below, and choose the proper attachment code.



Attachment code	a	b	c	d	e	f	g	h	Max motor torque
AS	$\phi 35 +0.010$ 0	—	$\phi 114.3$	Less than 49	—	79~80	200	(4) M12x1.75, 24DP	235N·m
	$\phi 35$ -0.016								
BS	$\phi 42$ -0.016	Less than $\phi 170$	$\phi 200$	Less than 49	85	235			
CS	$\phi 55$ -0.019								
DS									

※1 The most common servomotors suitable for these models are given on page 29.

Compatible Servomotor Models

RU160 Standard gear ratio model (Gear ratio=24)

Manufacturer	Servo series	Motor	Rated output [kW]	Rated torque [N·m]	Rated rotation speed [min ⁻¹]	Motor rotor inertia [x10 ⁻² kg·m ²]	Motor mounting code
OMRON	G	R88M-G2K010T	2.00	19.10	1,000	0.36	A□
		R88M-G3K010T	3.00	28.40	1,000	0.56	A□
	G5	R88M-K2K010H	2.00	19.10	1,000	0.30	A□
		R88M-K2K010F	2.00	19.10	1,000	0.30	A□
		R88M-K3K010H	3.00	28.70	1,000	0.48	A□
		R88M-K3K010F	3.00	28.70	1,000	0.48	A□
KEYENCE	SV	SV-M300A	2.90	18.60	1,500	0.46	A□
		SV-M500A	4.40	28.40	1,500	0.68	A□
SANYO DENKI	R1	R1AA18550H	5.50	35.00	1,500	0.33	B□
		R1AA18750H	7.50	48.00	1,500	0.42	B□
	R2	R2AA18550R	5.50	35.00	1,500	0.68	B□
		R2AA18550H	5.50	35.00	1,500	0.68	B□
		R2AA18750H	7.50	48.00	1,500	0.98	B□
Panasonic	MINAS_A5	MHME202_C	2.00	9.55	2,000	0.58	A□
		MGME202_C	2.00	19.10	1,000	0.30	A□
		MHME302_C	3.00	14.30	2,000	0.91	A□
		MGME302_C	3.00	28.70	1,000	0.48	A□
		MHME402_C	4.00	19.10	2,000	1.12	A□
		MHME502_C	5.00	23.90	2,000	1.62	A□
FANUC	α	α iF12/4000	3.00	12.00	3,000	0.62	A□
		α iF22/3000	4.00	22.00	3,000	1.20	A□
		α iF40/3000	6.00	38.00	2,000	2.20	A□
		α iF30/4000	7.00	30.00	3,000	1.70	A□
		α iF40/3000Fan	9.00	53.00	2,000	2.20	A□
		α is22/4000	4.50	22.00	3,000	0.53	A□
		α is30/4000	5.50	30.00	3,000	0.76	A□
		α is40/4000	5.50	40.00	3,000	0.99	A□
	β	β iS22/2000	2.50	20.00	2,000	0.53	A□
		β iS22/3000	3.00	20.00	2,000	0.53	A□
		β iS30/2000	3.00	27.00	2,000	0.76	A□
		β iS40/2000	3.00	36.00	1,500	0.99	A□
Mitsubishi Electric	CNC	HF-204	2.00	6.40	3,000	0.38	A□
		HF-302	3.00	14.30	2,000	0.75	A□
		HF-303	3.00	14.30	2,000	0.75	A□
		HF-354	3.50	11.10	3,000	0.75	A□
		HF-453	4.50	14.30	3,000	1.12	A□
		HF-703	7.00	22.30	3,000	1.54	A□
		HF-H204	2.00	6.40	3,000	0.38	A□
		HF-H354	3.50	11.10	3,000	0.75	A□
		HF-H453	4.50	14.30	3,000	1.12	A□
		HF-H703	7.00	22.30	3,000	1.54	A□
	J4	HG-JR703	7.00	22.30	3,000	0.43	A□
		HG-JR7034	7.00	22.30	3,000	0.43	A□
		HG-JR903	9.00	28.60	3,000	0.56	A□
		HG-JR9034	9.00	28.60	3,000	0.56	A□
		HG-SR121	1.20	11.50	1,000	0.47	A□
		HG-SR202	2.00	9.50	2,000	0.47	A□
		HG-SR2024	2.00	9.50	2,000	0.47	A□
		HG-SR201	2.00	19.10	1,000	0.79	A□
		HG-SR301	3.00	28.60	1,000	1.00	A□
		HG-SR352	3.50	16.70	2,000	0.79	A□
		HG-SR3524	3.50	16.70	2,000	0.79	A□
		HG-SR421	4.20	40.10	1,000	1.51	A□
		HG-SR502	5.00	23.90	2,000	1.00	A□
	J5	HG-SR5024	5.00	23.90	2,000	1.00	A□
		HG-SR702	7.00	33.40	2,000	1.51	A□
		HG-SR7024	7.00	33.40	2,000	1.51	A□
		HK-ST2024W	1.20	11.50	1,000	0.36	A□
		HK-ST202W	2.00	9.50	2,000	0.36	A□
		HK-ST3524W	2.00	19.10	1,000	0.54	A□
		HK-ST5024W	3.00	28.60	1,000	0.71	A□
		HK-ST352W	3.50	16.70	2,000	0.54	A□
		HK-ST7024W	4.20	40.10	1,000	1.05	A□
		HK-ST502W	5.00	23.90	2,000	0.71	A□
		HK-ST702W	7.00	33.40	2,000	1.05	A□

The box in the Attachment Code indicates the location of the access holes for the motor bracket. Specify with the product code. (Refer to page 4.)
Please prepare the servo motor with no keyway. Consult Sankyo for using with motors not listed above.

RU160 Standard gear ratio model (Gear ratio=24)

Manufacturer	Servo series	Motor	Rated output [kW]	Rated torque [N·m]	Rated rotation speed [min ⁻¹]	Motor rotor inertia [x10 ⁻² kg·m ²]	Motor mounting code
Yaskawa Electric	Σ -V	SGMGV-30A	2.90	18.60	1,500	0.46	A□
		SGMGV-44A	4.40	28.40	1,500	0.68	A□
	Σ -7	SGM7G-30A	2.90	18.60	1,500	0.46	A□
		SGM7G-44A	4.40	28.40	1,500	0.68	A□

The box in the Attachment Code indicates the location of the access holes for the motor bracket. Specify with the product code. (Refer to page 4.)
Please prepare the servo motor with no keyway. Consult Sankyo for using with motors not listed above.

RU160 High gear ratio model (Gear ratio=72)

Manufacturer	Servo series	Motor	Rated output [kW]	Rated torque [N·m]	Rated rotation speed [min ⁻¹]	Motor rotor inertia [x10 ⁻² kg·m ²]	Motor mounting code
OMRON	G	R88M-G2K010T	2.00	19.10	1,000	0.36	DS
		R88M-G3K020T	3.00	14.30	2,000	0.22	AS
		R88M-G3K010T	3.00	28.40	1,000	0.56	DS
		R88M-G4K030T	4.00	12.60	3,000	0.13	AS
		R88M-G5K030T	5.00	15.80	3,000	0.18	AS
	G5	R88M-K2K010F	2.00	19.10	1,000	0.30	DS
		R88M-K2K010H	2.00	19.10	1,000	0.30	DS
		R88M-K3K020F	3.00	14.30	2,000	0.13	AS
		R88M-K3K020H	3.00	14.30	2,000	0.13	AS
		R88M-K4K030F	4.00	12.70	3,000	0.13	AS
		R88M-K4K030H	4.00	12.70	3,000	0.13	AS
		R88M-K4K020F	4.00	19.10	2,000	0.38	DS
		R88M-K4K020H	4.00	19.10	2,000	0.38	DS
		R88M-K5K030F	5.00	15.90	3,000	0.17	AS
		R88M-K5K030H	5.00	15.90	3,000	0.17	AS
	KEYENCE	SV-M200A	1.80	11.50	1,500	0.26	AS
		SV-M300A	2.90	18.60	1,500	0.46	CS
SANYO DENKI	Q1	Q1AA13300D	3.00	9.50	3,000	0.05	BS
		Q1AA13400D	4.00	12.70	3,000	0.06	BS
		Q1AA13500D	5.00	15.70	3,000	0.08	BS
	R2	Q2AA18200H	2.00	9.50	2,000	0.20	DS
		R2AA13200D	2.00	9.50	2,000	0.12	BS
		R2AA13200L	2.00	9.50	2,000	0.12	BS
		R2AA18350D	3.50	17.00	2,000	0.40	DS
		R2AA18350L	3.50	17.00	2,000	0.40	DS
Panasonic	MINAS_A5	MFME152_1	1.50	7.16	2,000	0.18	DS
		MHME202_C	2.00	9.55	2,000	0.58	DS
		MGME202_C	2.00	19.10	1,000	0.30	DS
		MDME302_C	3.00	14.30	2,000	0.13	AS
		MHME302_C	3.00	14.30	2,000	0.91	DS
		MSME402_C	4.00	12.70	3,000	0.13	AS
		MDME402_C	4.00	19.10	2,000	0.38	DS
		MHME402_C	4.00	19.10	2,000	1.12	DS
		MSME502_C	5.00	15.90	3,000	0.17	AS
FANUC	α	α iF12/4000	3.00	12.00	3,000	0.62	CS
		α iF22/3000	4.00	22.00	3,000	1.20	CS
		α iS12/4000	2.70	12.00	3,000	0.23	AS
	β	β iS12/2000	1.40	10.50	2,000	0.23	AS
		β iS12/3000	1.80	11.00	2,000	0.23	AS
		β iS22/2000	2.50	20.00	2,000	0.53	CS
		β iS22/3000	3.00	20.00	2,000	0.53	CS
		β iS30/2000	3.00	27.00	2,000	0.76	CS
Fuji Electric	GYC	GYC102D5	1.00	3.18	3,000	0.03	AS
		GYC152D5	1.50	4.78	3,000	0.04	AS
		GYC202D5	2.00	6.37	3,000	0.06	AS
	GYS	GYS302D5	3.00	9.55	3,000	0.08	BS
		GYS402D5	4.00	12.70	3,000	0.11	BS
		GYS502D5	5.00	15.90	3,000	0.13	BS

On high gear ratio models, the access hole faces the S surface.
Please prepare the servo motor with no keyway. Consult Sankyo for using with motors not listed above.

Compatible Servomotor Models

RU160 High gear ratio model (Gear ratio=72)

Manufacture	Servo series	Motor	Rated output [kW]	Rated torque [N·m]	Rated rotation speed [min ⁻¹]	Motor rotor inertia [x10 ⁻² kg·m ²]	Motor mounting code
Mitsubishi Electric	CNC	HF-54	0.50	1.60	3,000	0.06	AS
		HF-104	1.00	3.20	3,000	0.12	AS
		HF-123	1.20	5.70	2,000	0.12	AS
		HF-142	1.40	6.70	2,000	0.18	AS
		HF-154	1.50	4.80	3,000	0.18	AS
		HF-204	2.00	6.40	3,000	0.38	CS
		HF-224	2.20	7.00	3,000	0.24	AS
		HF-223	2.20	10.50	2,000	0.24	AS
		HF-302	3.00	14.30	2,000	0.75	CS
		HF-303	3.00	14.30	2,000	0.75	CS
		HF-H54	0.50	1.60	3,000	0.06	AS
		HF-H104	1.00	3.20	3,000	0.12	AS
		HF-H154	1.50	4.80	3,000	0.18	AS
		HF-H204	2.00	6.40	3,000	0.38	CS
	J4	HG-JR353	3.30	10.50	3,000	0.13	BS
		HG-JR3534	3.30	10.50	3,000	0.13	BS
		HG-JR503	5.00	15.90	3,000	0.19	BS
		HG-JR5034	5.00	15.90	3,000	0.19	BS
		HG-JR703	7.00	22.30	3,000	0.43	CS
		HG-JR7034	7.00	22.30	3,000	0.43	CS
		HG-RR353	3.50	11.10	3,000	0.08	BS
		HG-RR503	5.00	15.90	3,000	0.12	BS
		HG-SR52	0.50	2.40	2,000	0.07	AS
		HG-SR524	0.50	2.40	2,000	0.07	AS
		HG-SR51	0.50	4.80	1,000	0.12	AS
		HG-SR81	0.85	8.10	1,000	0.16	AS
		HG-SR102	1.00	4.80	2,000	0.12	AS
		HG-SR1024	1.00	4.80	2,000	0.12	AS
	J5	HG-SR121	1.20	11.50	1,000	0.47	CS
		HG-SR152	1.50	7.20	2,000	0.16	AS
		HG-SR1524	1.50	7.20	2,000	0.16	AS
		HG-SR202	2.00	9.50	2,000	0.47	CS
		HG-SR2024	2.00	9.50	2,000	0.47	CS
		HG-SR201	2.00	19.10	1,000	0.79	CS
		HG-SR352	3.50	16.70	2,000	0.79	CS
		HG-SR3524	3.50	16.70	2,000	0.79	CS
Yaskawa Electric	Σ-V	HK-ST52W	0.50	2.40	2,000	0.06	AS
		HK-ST1724W	0.85	8.10	1,000	0.11	AS
	Σ-7	HK-ST102W	1.00	4.80	2,000	0.09	AS
		HK-ST2024W	1.20	11.50	1,000	0.36	CS
		HK-ST202W	2.00	9.50	2,000	0.36	CS
		HK-ST3524W	2.00	19.10	1,000	0.54	CS
		HK-ST352W	3.50	16.70	2,000	0.54	CS

On high gear ratio models, the access hole faces the S surface.

Please prepare the servo motor with no keyway. Consult Sankyo for using with motors not listed above.

RU200 Standard gear ratio model (Gear ratio=30)

Manufacturer	Servo series	Motor	Rated output [kW]	Rated torque [N·m]	Rated rotation speed [min ⁻¹]	Motor rotor inertia [x10 ⁻² kg·m ²]	Motor mounting code
OMRON	G	R88M-G2K010T	2.00	19.10	1,000	0.36	A□
		R88M-G3K010T	3.00	28.40	1,000	0.56	A□
		R88M-G4K510T	4.50	42.90	1,000	0.81	C□
		R88M-G6K010T	6.00	57.20	1,000	0.99	C□
		R88M-G7K515T	7.50	48.00	1,500	0.99	C□
	G5	R88M-K2K010H	2.00	19.10	1,000	0.30	A□
		R88M-K2K010F	2.00	19.10	1,000	0.30	A□
		R88M-K3K010H	3.00	28.70	1,000	0.48	A□
		R88M-K3K010F	3.00	28.70	1,000	0.48	A□
		R88M-K4K510T	4.50	43.00	1,000	0.79	C□
		R88M-K4K510C	4.50	43.00	1,000	0.79	C□
		R88M-K6K010T	6.00	57.30	1,000	1.01	C□
		R88M-K6K010C	6.00	57.30	1,000	1.01	C□
		R88M-K7K515T	7.50	47.80	1,500	1.01	C□
		R88M-K7K515C	7.50	47.80	1,500	1.01	C□
KEYENCE	SV	SV-M300A	2.90	18.60	1,500	0.46	A□
		SV-M500A	4.40	28.40	1,500	0.68	A□
SANYO DENKI	R1	R1AA18550H	5.50	35.00	1,500	0.33	B□
		R1AA18750H	7.50	48.00	1,500	0.42	B□
	R2	R2AA18550R	5.50	35.00	1,500	0.68	B□
		R2AA18550H	5.50	35.00	1,500	0.68	B□
		R2AA18750H	7.50	48.00	1,500	0.98	B□
		R2AA1811KR	11.00	70.00	1,500	1.10	B□
Panasonic	MINAS_A5	MHME202_C	2.00	9.55	2,000	0.58	A□
		MGME202_C	2.00	19.10	1,000	0.30	A□
		MHME302_C	3.00	14.30	2,000	0.91	A□
		MGME302_C	3.00	28.70	1,000	0.48	A□
		MHME402_C	4.00	19.10	2,000	1.12	A□
		MGME452_1	4.50	43.00	1,000	0.79	C□
		MHME502_C	5.00	23.90	2,000	1.62	A□
		MGME602_1	6.00	57.30	1,000	1.01	C□
		MDME752_1	7.50	47.80	1,500	1.01	C□
		MHME752_1	7.50	47.80	1,500	2.73	C□
FANUC	α	α iF12/4000	3.00	12.00	3,000	0.62	A□
		α iF22/3000	4.00	22.00	3,000	1.20	A□
		α iF40/3000	6.00	38.00	2,000	2.20	A□
		α iF30/4000	7.00	30.00	3,000	1.70	A□
		α iF40/3000Fan	9.00	53.00	2,000	2.20	A□
		α is50/3000	4.00	53.00	2,000	1.45	A□
		α is22/4000	4.50	22.00	3,000	0.53	A□
		α is30/4000	5.50	30.00	3,000	0.76	A□
		α is40/4000	5.50	40.00	3,000	0.99	A□
	β	β is22/2000	2.50	20.00	2,000	0.53	A□
		β is22/3000	3.00	20.00	2,000	0.53	A□
		β is30/2000	3.00	27.00	2,000	0.76	A□
Mitsubishi Electric	CNC	β is40/2000	3.00	36.00	1,500	0.99	A□
		HF-204	2.00	6.40	3,000	0.38	A□
		HF-302	3.00	14.30	2,000	0.75	A□
		HF-303	3.00	14.30	2,000	0.75	A□
		HF-354	3.50	11.10	3,000	0.75	A□
		HF-453	4.50	14.30	3,000	1.12	A□
		HF-703	7.00	22.30	3,000	1.54	A□
		HF-H204	2.00	6.40	3,000	0.38	A□
		HF-H354	3.50	11.10	3,000	0.75	A□
	J4	HF-H453	4.50	14.30	3,000	1.12	A□
		HF-H703	7.00	22.30	3,000	1.54	A□
		HG-JR703	7.00	22.30	3,000	0.43	A□
		HG-JR7034	7.00	22.30	3,000	0.43	A□
		HG-JR903	9.00	28.60	3,000	0.56	A□
		HG-JR9034	9.00	28.60	3,000	0.56	A□
		HG-SR121	1.20	11.50	1,000	0.47	A□
		HG-SR202	2.00	9.50	2,000	0.47	A□

The box in the Attachment Code indicates the location of the access holes for the motor bracket. Specify with the product code. (Refer to page 4.)
 Please prepare the servo motor with no keyway. Consult Sankyo for using with motors not listed above.

Compatible Servomotor Models

RU200 Standard gear ratio model (Gear ratio=30)

Manufacturer	Servo series	Motor	Rated output [kW]	Rated torque [N·m]	Rated rotation speed [min ⁻¹]	Motor rotor inertia [x10 ⁻² kg·m ²]	Motor mounting code
Mitsubishi Electric	J4	HG-SR2024	2.00	9.50	2,000	0.47	A□
		HG-SR201	2.00	19.10	1,000	0.79	A□
		HG-SR301	3.00	28.60	1,000	1.00	A□
		HG-SR352	3.50	16.70	2,000	0.79	A□
		HG-SR3524	3.50	16.70	2,000	0.79	A□
		HG-SR421	4.20	40.10	1,000	1.51	A□
		HG-SR502	5.00	23.90	2,000	1.00	A□
		HG-SR5024	5.00	23.90	2,000	1.00	A□
		HG-SR702	7.00	33.40	2,000	1.51	A□
		HG-SR7024	7.00	33.40	2,000	1.51	A□
	J5	HK-ST2024W	1.20	11.50	1,000	0.36	A□
		HK-ST202W	2.00	9.50	2,000	0.36	A□
		HK-ST3524W	2.00	19.10	1,000	0.54	A□
		HK-ST5024W	3.00	28.60	1,000	0.71	A□
		HK-ST352W	3.50	16.70	2,000	0.54	A□
		HK-ST7024W	4.20	40.10	1,000	1.05	A□
		HK-ST502W	5.00	23.90	2,000	0.71	A□
		HK-ST702W	7.00	33.40	2,000	1.05	A□
Yaskawa Electric	Σ-V	SGMGV-30A	2.90	18.60	1,500	0.46	A□
		SGMGV-44A	4.40	28.40	1,500	0.68	A□
		SGMGV-55A	5.50	35.00	1,500	0.89	C□
		SGMGV-75A	7.50	48.00	1,500	1.25	C□
	Σ-7	SGM7G-30A	2.90	18.60	1,500	0.46	A□
		SGM7G-44A	4.40	28.40	1,500	0.68	A□
		SGM7G-55A	5.50	35.00	1,500	0.89	C□
		SGM7G-75A	7.50	48.00	1,500	1.25	C□

The box in the Attachment Code indicates the location of the access holes for the motor bracket. Specify with the product code. (Refer to page 4.)
Please prepare the servo motor with no keyway. Consult Sankyo for using with motors not listed above.

RU200 High gear ratio model (Gear ratio=90)

Manufacturer	Servo series	Motor	Rated output [kW]	Rated torque [N·m]	Rated rotation speed [min ⁻¹]	Motor rotor inertia [x10 ⁻² kg·m ²]	Motor mounting code
OMRON	G	R88M-G2K010T	2.00	19.10	1,000	0.36	DS
		R88M-G3K020T	3.00	14.30	2,000	0.22	AS
		R88M-G3K010T	3.00	28.40	1,000	0.56	DS
		R88M-G5K030T	5.00	15.80	3,000	0.18	AS
		R88M-G5K020T	5.00	23.80	2,000	0.61	DS
	G5	R88M-K2K010F	2.00	19.10	1,000	0.30	DS
		R88M-K2K010H	2.00	19.10	1,000	0.30	DS
		R88M-K3K010F	3.00	28.70	1,000	0.48	DS
		R88M-K3K010H	3.00	28.70	1,000	0.48	DS
		R88M-K4K020F	4.00	19.10	2,000	0.38	DS
		R88M-K4K020H	4.00	19.10	2,000	0.38	DS
		R88M-K5K030F	5.00	15.90	3,000	0.17	AS
		R88M-K5K030H	5.00	15.90	3,000	0.17	AS
		R88M-K5K020F	5.00	23.90	2,000	0.48	DS
		R88M-K5K020H	5.00	23.90	2,000	0.48	DS
KEYENCE	SV	SV-M200A	1.80	11.50	1,500	0.26	AS
		SV-M300A	2.90	18.60	1,500	0.46	CS
		SV-M500A	4.40	28.40	1,500	0.68	CS
SANYO DENKI	Q1	Q1AA13300D	3.00	9.50	3,000	0.05	BS
		Q1AA13400D	4.00	12.70	3,000	0.06	BS
		Q1AA13500D	5.00	15.70	3,000	0.08	BS
	R2	Q2AA18200H	2.00	9.50	2,000	0.20	DS
		R2AA13200D	2.00	9.50	2,000	0.12	BS
		R2AA13200L	2.00	9.50	2,000	0.12	BS
		R2AA18350D	3.50	17.00	2,000	0.40	DS
		R2AA18350L	3.50	17.00	2,000	0.40	DS
		R2AA18450H	4.50	21.50	2,000	0.50	DS

On high gear ratio models, the access hole faces the S surface.
Please prepare the servo motor with no keyway. Consult Sankyo for using with motors not listed above.

RU200 High gear ratio model (Gear ratio=90)

Manufacturer	Servo series	Motor	Rated output [kW]	Rated torque [N·m]	Rated rotation speed [min ⁻¹]	Motor rotor inertia [x10 ⁻² kg·m ²]	Motor mounting code
Panasonic	MINAS_A5	MFME152_1	1.50	7.16	2,000	0.18	DS
		MHME202_C	2.00	9.55	2,000	0.58	DS
		MGME202_C	2.00	19.10	1,000	0.30	DS
		MHME302_C	3.00	14.30	2,000	0.91	DS
		MGME302_C	3.00	28.70	1,000	0.48	DS
		MDME402_C	4.00	19.10	2,000	0.38	DS
		MHME402_C	4.00	19.10	2,000	1.12	DS
		MSME502_C	5.00	15.90	3,000	0.17	AS
		MDME502_C	5.00	23.90	2,000	0.48	DS
		MHME502_C	5.00	23.90	2,000	1.62	DS
FANUC	α	α iF12/4000	3.00	12.00	3,000	0.62	CS
		α iF22/3000	4.00	22.00	3,000	1.20	CS
		α iF30/4000	7.00	30.00	3,000	1.70	CS
		α is12/4000	2.70	12.00	3,000	0.23	AS
		α is22/4000	4.50	22.00	3,000	0.53	CS
	β	β is12/2000	1.40	10.50	2,000	0.23	AS
		β is12/3000	1.80	11.00	2,000	0.23	AS
		β is22/2000	2.50	20.00	2,000	0.53	CS
		β is22/3000	3.00	20.00	2,000	0.53	CS
		β is30/2000	3.00	27.00	2,000	0.76	CS
		β is40/2000	3.00	36.00	1,500	0.99	CS
Fuji Electric	GYS	GYS302D5	3.00	9.55	3,000	0.08	BS
		GYS402D5	4.00	12.70	3,000	0.11	BS
		GYS502D5	5.00	15.90	3,000	0.13	BS
Mitsubishi Electric	CNC	HF-142	1.40	6.70	2,000	0.18	AS
		HF-154	1.50	4.80	3,000	0.18	AS
		HF-204	2.00	6.40	3,000	0.38	CS
		HF-224	2.20	7.00	3,000	0.24	AS
		HF-223	2.20	10.50	2,000	0.24	AS
		HF-302	3.00	14.30	2,000	0.75	CS
		HF-303	3.00	14.30	2,000	0.75	CS
		HF-354	3.50	11.10	3,000	0.75	CS
		HF-H154	1.50	4.80	3,000	0.18	AS
		HF-H204	2.00	6.40	3,000	0.38	CS
	J4	HF-H354	3.50	11.10	3,000	0.75	CS
		HG-JR353	3.30	10.50	3,000	0.13	BS
		HG-JR3534	3.30	10.50	3,000	0.13	BS
		HG-JR503	5.00	15.90	3,000	0.19	BS
		HG-JR5034	5.00	15.90	3,000	0.19	BS
		HG-JR703	7.00	22.30	3,000	0.43	CS
		HG-JR7034	7.00	22.30	3,000	0.43	CS
		HG-JR903	9.00	28.60	3,000	0.56	CS
		HG-JR9034	9.00	28.60	3,000	0.56	CS
		HG-RR353	3.50	11.10	3,000	0.08	BS
	J5	HG-RR503	5.00	15.90	3,000	0.12	BS
		HG-SR121	1.20	11.50	1,000	0.47	CS
		HG-SR202	2.00	9.50	2,000	0.47	CS
		HG-SR2024	2.00	9.50	2,000	0.47	CS
		HG-SR201	2.00	19.10	1,000	0.79	CS
		HG-SR301	3.00	28.60	1,000	1.00	CS
		HG-SR352	3.50	16.70	2,000	0.79	CS
		HG-SR3524	3.50	16.70	2,000	0.79	CS
		HG-SR502	5.00	23.90	2,000	1.00	CS
		HG-SR5024	5.00	23.90	2,000	1.00	CS
Yaskawa Electric	Σ -V	HK-ST2024W	1.20	11.50	1,000	0.36	CS
		HK-ST2022W	2.00	9.50	2,000	0.36	CS
		HK-ST3524W	2.00	19.10	1,000	0.54	CS
		HK-ST5024W	3.00	28.60	1,000	0.71	CS
	Σ -7	HK-ST352W	3.50	16.70	2,000	0.54	CS
		HK-ST502W	5.00	23.90	2,000	0.71	CS
		SGMGV-20A	1.80	11.50	1,500	0.26	AS
		SGMGV-30A	2.90	18.60	1,500	0.46	CS
		SGMGV-44A	4.40	28.40	1,500	0.68	CS
	Σ -7	SGM7G-20A	1.80	11.50	1,500	0.26	AS
		SGM7G-30A	2.90	18.60	1,500	0.46	DS
		SGM7G-44A	4.40	28.40	1,500	0.68	DS

On high gear ratio models, the access hole faces the S surface.
Please prepare the servo motor with no keyway. Consult Sankyo for using with motors not listed above.

Compatible Servomotor Models

RU250 Standard gear ratio model (Gear ratio=30)

Manufacturer	Servo series	Motor	Rated output [kW]	Rated torque [N·m]	Rated rotation speed [min ⁻¹]	Motor rotor inertia [x10 ⁻² kg·m ²]	Motor mounting code
OMRON	G	R88M-G4K510T	4.50	42.90	1,000	0.81	C□
		R88M-G6K010T	6.00	57.20	1,000	0.99	C□
		R88M-G7K515T	7.50	48.00	1,500	0.99	C□
	G5	R88M-K4K510T	4.50	43.00	1,000	0.79	C□
		R88M-K4K510C	4.50	43.00	1,000	0.79	C□
		R88M-K6K010T	6.00	57.30	1,000	1.01	C□
		R88M-K6K010C	6.00	57.30	1,000	1.01	C□
		R88M-K7K515T	7.50	47.80	1,500	1.01	C□
		R88M-K7K515C	7.50	47.80	1,500	1.01	C□
KEYENCE	SV	SV-M500A	4.40	28.40	1,500	0.68	A□
SANYO DENKI	R1	R1AA1811KR	11.00	70.00	1,500	0.64	B□
		R2AA18550R	5.50	35.00	1,500	0.68	B□
	R2	R2AA18550H	5.50	35.00	1,500	0.68	B□
		R2AA18750H	7.50	48.00	1,500	0.98	B□
		R2AA1811KR	11.00	70.00	1,500	1.10	B□
Panasonic	MINAS_A5	MHME302_C	3.00	14.30	2,000	0.91	A□
		MHME402_C	4.00	19.10	2,000	1.12	A□
		MGME452_1	4.50	43.00	1,000	0.79	C□
		MHME502_C	5.00	23.90	2,000	1.62	A□
		MGME602_1	6.00	57.30	1,000	1.01	C□
		MDME752_1	7.50	47.80	1,500	1.01	C□
		MHME752_1	7.50	47.80	1,500	2.73	C□
FANUC	α	α iF22/3000	4.00	22.00	3,000	1.20	A□
		α iF40/3000	6.00	38.00	2,000	2.20	A□
		α iF30/4000	7.00	30.00	3,000	1.70	A□
		α iF40/3000Fan	9.00	53.00	2,000	2.20	A□
		α i50/3000	4.00	53.00	2,000	1.45	A□
		α i60/2000	5.00	65.00	1,500	1.95	A□
		α i30/4000	5.50	30.00	3,000	0.76	A□
		α i40/4000	5.50	40.00	3,000	0.99	A□
	β	β iS30/2000	3.00	27.00	2,000	0.76	A□
		β iS40/2000	3.00	36.00	1,500	0.99	A□
Mitsubishi Electric	CNC	HF-302	3.00	14.30	2,000	0.75	A□
		HF-303	3.00	14.30	2,000	0.75	A□
		HF-354	3.50	11.10	3,000	0.75	A□
		HF-453	4.50	14.30	3,000	1.12	A□
		HF-703	7.00	22.30	3,000	1.54	A□
		HF-H354	3.50	11.10	3,000	0.75	A□
		HF-H453	4.50	14.30	3,000	1.12	A□
		HF-H703	7.00	22.30	3,000	1.54	A□
	J4	HG-SR201	2.00	19.10	1,000	0.79	A□
		HG-SR301	3.00	28.60	1,000	1.00	A□
		HG-SR352	3.50	16.70	2,000	0.79	A□
		HG-SR3524	3.50	16.70	2,000	0.79	A□
		HG-SR421	4.20	40.10	1,000	1.51	A□
		HG-SR502	5.00	23.90	2,000	1.00	A□
		HG-SR5024	5.00	23.90	2,000	1.00	A□
		HG-SR702	7.00	33.40	2,000	1.51	A□
	J5	HG-SR7024	7.00	33.40	2,000	1.51	A□
		HK-ST3524W	2.00	19.10	1,000	0.54	A□
		HK-ST5024W	3.00	28.60	1,000	0.71	A□
		HK-ST352W	3.50	16.70	2,000	0.54	A□
		HK-ST7024W	4.20	40.10	1,000	1.05	A□
		HK-ST502W	5.00	23.90	2,000	0.71	A□
		HK-ST702W	7.00	33.40	2,000	1.05	A□
Yaskawa Electric	Σ -V	SGMGV-44A	4.40	28.40	1,500	0.68	A□
		SGMGV-55A	5.50	35.00	1,500	0.89	C□
		SGMGV-75A	7.50	48.00	1,500	1.25	C□
	Σ -7	SGM7G-44A	4.40	28.40	1,500	0.68	A□
		SGM7G-55A	5.50	35.00	1,500	0.89	C□
		SGM7G-75A	7.50	48.00	1,500	1.25	C□

The box in the Attachment Code indicates the location of the access holes for the motor bracket. Specify with the product code. (Refer to page 4.)
Please prepare the servo motor with no keyway. Consult Sankyo for using with motors not listed above.

RU250 High gear ratio model [Gear ratio=100]

Manufacture	Servo series	Motor	Rated output [kW]	Rated torque [N·m]	Rated rotation speed [min ⁻¹]	Motor rotor inertia [x10 ⁻² kg·m ²]	Motor mounting code
OMRON	G	R88M-G2K010T	2.00	19.10	1,000	0.36	BS
		R88M-G3K010T	3.00	28.40	1,000	0.56	BS
		R88M-G5K020T	5.00	23.80	2,000	0.61	BS
	G5	R88M-K2K010F	2.00	19.10	1,000	0.30	BS
		R88M-K2K010H	2.00	19.10	1,000	0.30	BS
		R88M-K3K010F	3.00	28.70	1,000	0.48	BS
		R88M-K3K010H	3.00	28.70	1,000	0.48	BS
		R88M-K4K020F	4.00	19.10	2,000	0.38	BS
		R88M-K4K020H	4.00	19.10	2,000	0.38	BS
		R88M-K5K020F	5.00	23.90	2,000	0.48	BS
		R88M-K5K020H	5.00	23.90	2,000	0.48	BS
KEYENCE	SV	SV-M300A	2.90	18.60	1,500	0.46	AS
		SV-M500A	4.40	28.40	1,500	0.68	AS
SANYO DENKI	Q2	Q2AA18200H	2.00	9.50	2,000	0.20	BS
		R2AA18350D	3.50	17.00	2,000	0.40	BS
	R2	R2AA18350L	3.50	17.00	2,000	0.40	BS
		R2AA18450H	4.50	21.50	2,000	0.50	BS
Panasonic	MINAS_A5	MFME152_1	1.50	7.16	2,000	0.18	BS
		MHME202_C	2.00	9.55	2,000	0.58	BS
		MGME202_C	2.00	19.10	1,000	0.30	BS
		MHME302_C	3.00	14.30	2,000	0.91	BS
		MGME302_C	3.00	28.70	1,000	0.48	BS
		MDME402_C	4.00	19.10	2,000	0.38	BS
		MHME402_C	4.00	19.10	2,000	1.12	BS
		MDME502_C	5.00	23.90	2,000	0.48	BS
		MHME502_C	5.00	23.90	2,000	1.62	BS
		α iF12/4000	3.00	12.00	3,000	0.62	AS
FANUC	α	α iF22/3000	4.00	22.00	3,000	1.20	AS
		α iF30/4000	7.00	30.00	3,000	1.70	AS
		α is22/4000	4.50	22.00	3,000	0.53	AS
		β iS22/2000	2.50	20.00	2,000	0.53	AS
	β	β iS22/3000	3.00	20.00	2,000	0.53	AS
		β iS30/2000	3.00	27.00	2,000	0.76	AS
		β iS40/2000	3.00	36.00	1,500	0.99	AS
		HF-204	2.00	6.40	3,000	0.38	AS
		HF-302	3.00	14.30	2,000	0.75	AS
		HF-303	3.00	14.30	2,000	0.75	AS
Mitsubishi Electric	CNC	HF-354	3.50	11.10	3,000	0.75	AS
		HF-H204	2.00	6.40	3,000	0.38	AS
		HF-H354	3.50	11.10	3,000	0.75	AS
	J4	HG-JR703	7.00	22.30	3,000	0.43	AS
		HG-JR7034	7.00	22.30	3,000	0.43	AS
		HG-JR903	9.00	28.60	3,000	0.56	AS
		HG-JR9034	9.00	28.60	3,000	0.56	AS
		HG-SR121	1.20	11.50	1,000	0.47	AS
		HG-SR202	2.00	9.50	2,000	0.47	AS
		HG-SR2024	2.00	9.50	2,000	0.47	AS
		HG-SR201	2.00	19.10	1,000	0.79	AS
		HG-SR301	3.00	28.60	1,000	1.00	AS
		HG-SR352	3.50	16.70	2,000	0.79	AS
		HG-SR3524	3.50	16.70	2,000	0.79	AS
		HG-SR502	5.00	23.90	2,000	1.00	AS
	J5	HG-SR5024	5.00	23.90	2,000	1.00	AS
		HK-ST2024W	1.20	11.50	1,000	0.36	AS
		HK-ST202W	2.00	9.50	2,000	0.36	AS
		HK-ST3524W	2.00	19.10	1,000	0.54	AS
		HK-ST5024W	3.00	28.60	1,000	0.71	AS
		HK-ST352W	3.50	16.70	2,000	0.54	AS
Yaskawa Electric	Σ -V	HK-ST502W	5.00	23.90	2,000	0.71	AS
		SGMGV-30A	2.90	18.60	1,500	0.46	AS
	Σ -7	SGMGV-44A	4.40	28.40	1,500	0.68	AS
		SGM7G-30A	2.90	18.60	1,500	0.46	AS
		SGM7G-44A	4.40	28.40	1,500	0.68	AS

On high gear ratio models, the access hole faces the S surface.
Please prepare the servo motor with no keyway. Consult Sankyo for using with motors not listed above.

Compatible Servomotor Models

RU315 High gear ratio model [Gear ratio=120]

Manufacture	Servo series	Motor	Rated output [kW]	Rated torque [N·m]	Rated rotation speed [min⁻¹]	Motor rotor inertia [×10⁻²kg·m²]	Motor mounting code
OMRON	G	R88M-G2K010T	2.00	19.10	1,000	0.36	BS
		R88M-G3K010T	3.00	28.40	1,000	0.56	BS
		R88M-G5K020T	5.00	23.80	2,000	0.61	BS
	G5	R88M-K2K010F	2.00	19.10	1,000	0.30	BS
		R88M-K2K010H	2.00	19.10	1,000	0.30	BS
		R88M-K3K010F	3.00	28.70	1,000	0.48	BS
		R88M-K3K010H	3.00	28.70	1,000	0.48	BS
		R88M-K4K020F	4.00	19.10	2,000	0.38	BS
		R88M-K4K020H	4.00	19.10	2,000	0.38	BS
		R88M-K5K020F	5.00	23.90	2,000	0.48	BS
		R88M-K5K020H	5.00	23.90	2,000	0.48	BS
KEYENCE	SV	SV-M300A	2.90	18.60	1,500	0.46	AS
		SV-M500A	4.40	28.40	1,500	0.68	AS
SANYO DENKI	Q2	Q2AA18200H	2.00	9.50	2,000	0.20	BS
		R2AA18350D	3.50	17.00	2,000	0.40	BS
	R2	R2AA18350L	3.50	17.00	2,000	0.40	BS
		R2AA18450H	4.50	21.50	2,000	0.50	BS
Panasonic	MINAS_A5	MFME152_1	1.50	7.16	2,000	0.18	BS
		MHME202_C	2.00	9.55	2,000	0.58	BS
		MGME202_C	2.00	19.10	1,000	0.30	BS
		MHME302_C	3.00	14.30	2,000	0.91	BS
		MGME302_C	3.00	28.70	1,000	0.48	BS
		MDME402_C	4.00	19.10	2,000	0.38	BS
		MHME402_C	4.00	19.10	2,000	1.12	BS
		MDME502_C	5.00	23.90	2,000	0.48	BS
		MHME502_C	5.00	23.90	2,000	1.62	BS
FANUC	α	α iF12/4000	3.00	12.00	3,000	0.62	AS
		α iF22/3000	4.00	22.00	3,000	1.20	AS
		α iF40/3000	6.00	38.00	2,000	2.20	AS
		α iF30/4000	7.00	30.00	3,000	1.70	AS
		α iF40/3000Fan	9.00	53.00	2,000	2.20	AS
		α is22/4000	4.50	22.00	3,000	0.53	AS
		α is30/4000	5.50	30.00	3,000	0.76	AS
		α is40/4000	5.50	40.00	3,000	0.99	AS
	β	β iS22/2000	2.50	20.00	2,000	0.53	AS
		β iS22/3000	3.00	20.00	2,000	0.53	AS
		β iS30/2000	3.00	27.00	2,000	0.76	AS
		β iS40/2000	3.00	36.00	1,500	0.99	AS
Mitsubishi Electric	CNC	HF-204	2.00	6.40	3,000	0.38	AS
		HF-302	3.00	14.30	2,000	0.75	AS
		HF-303	3.00	14.30	2,000	0.75	AS
		HF-354	3.50	11.10	3,000	0.75	AS
		HF-453	4.50	14.30	3,000	1.12	AS
		HF-703	7.00	22.30	3,000	1.54	AS
		HF-H204	2.00	6.40	3,000	0.38	AS
		HF-H354	3.50	11.10	3,000	0.75	AS
		HF-H453	4.50	14.30	3,000	1.12	AS
		HF-H703	7.00	22.30	3,000	1.54	AS
	J4	HG-JR703	7.00	22.30	3,000	0.43	AS
		HG-JR7034	7.00	22.30	3,000	0.43	AS
		HG-JR903	9.00	28.60	3,000	0.56	AS
		HG-JR9034	9.00	28.60	3,000	0.56	AS
		HG-SR121	1.20	11.50	1,000	0.47	AS
		HG-SR202	2.00	9.50	2,000	0.47	AS
		HG-SR204	2.00	9.50	2,000	0.47	AS
		HG-SR201	2.00	19.10	1,000	0.79	AS
		HG-SR301	3.00	28.60	1,000	1.00	AS
		HG-SR352	3.50	16.70	2,000	0.79	AS
		HG-SR3524	3.50	16.70	2,000	0.79	AS
		HG-SR421	4.20	40.10	1,000	1.51	AS
		HG-SR502	5.00	23.90	2,000	1.00	AS
		HG-SR5024	5.00	23.90	2,000	1.00	AS
		HG-SR702	7.00	33.40	2,000	1.51	AS
		HG-SR7024	7.00	33.40	2,000	1.51	AS

On high gear ratio models, the access hole faces the S surface.

Please prepare the servo motor with no keyway. Consult Sankyo for using with motors not listed above.

RU315 High gear ratio model (Gear ratio=120)

Manufacturer	Servo series	Motor	Rated output [kW]	Rated torque [N·m]	Rated rotation speed [min⁻¹]	Motor rotor inertia [x10⁻²kg·m²]	Motor mounting code
Mitsubishi Electric	J5	HK-ST2024W	1.20	11.50	1,000	0.36	AS
		HK-ST202W	2.00	9.50	2,000	0.36	AS
		HK-ST3524W	2.00	19.10	1,000	0.54	AS
		HK-ST5024W	3.00	28.60	1,000	0.71	AS
		HK-ST352W	3.50	16.70	2,000	0.54	AS
		HK-ST7024W	4.20	40.10	1,000	1.05	AS
		HK-ST502W	5.00	23.90	2,000	0.71	AS
		HK-ST702W	7.00	33.40	2,000	1.05	AS
Yaskawa Electric	Σ -V	SGMGV-30A	2.90	18.60	1,500	0.46	AS
		SGMGV-44A	4.40	28.40	1,500	0.68	AS
	Σ -7	SGM7G-30A	2.90	18.60	1,500	0.46	AS
		SGM7G-44A	4.40	28.40	1,500	0.68	AS

On high gear ratio models, the access hole faces the S surface.

Please prepare the servo motor with no keyway. Consult Sankyo for using with motors not listed above.

RU400 High gear ratio model (Gear ratio=120)

Manufacturer	Servo series	Motor	Rated output [kW]	Rated torque [N·m]	Rated rotation speed [min⁻¹]	Motor rotor inertia [x10⁻²kg·m²]	Motor mounting code
OMRON	G	R88M-G2K010T	2.00	19.10	1,000	0.36	BS
		R88M-G3K010T	3.00	28.40	1,000	0.56	BS
		R88M-G5K020T	5.00	23.80	2,000	0.61	BS
	G5	R88M-K3K010F	3.00	28.70	1,000	0.48	BS
		R88M-K3K010H	3.00	28.70	1,000	0.48	BS
		R88M-K4K020F	4.00	19.10	2,000	0.38	BS
		R88M-K4K020H	4.00	19.10	2,000	0.38	BS
		R88M-K5K020F	5.00	23.90	2,000	0.48	BS
		R88M-K5K020H	5.00	23.90	2,000	0.48	BS
KEYENCE	SV	SV-M300A	2.90	18.60	1,500	0.46	AS
		SV-M500A	4.40	28.40	1,500	0.68	AS
SANYO DENKI	R2	R2AA18350D	3.50	17.00	2,000	0.40	BS
		R2AA18350L	3.50	17.00	2,000	0.40	BS
		R2AA18450H	4.50	21.50	2,000	0.50	BS
		R2AA18550H	5.50	35.00	1,500	0.68	CS
		R2AA18550R	5.50	35.00	1,500	0.68	CS
		R2AA18750H	7.50	48.00	1,500	0.98	CS
		R2AA1811KR	11.00	70.00	1,500	1.10	CS
Panasonic	MINAS_A5	MHME202_C	2.00	9.55	2,000	0.58	BS
		MHME302_C	3.00	14.30	2,000	0.91	BS
		MGME302_C	3.00	28.70	1,000	0.48	BS
		MDME402_C	4.00	19.10	2,000	0.38	BS
		MHME402_C	4.00	19.10	2,000	1.12	BS
		MDME502_C	5.00	23.90	2,000	0.48	BS
		MHME502_C	5.00	23.90	2,000	1.62	BS
FANUC	α	α iF12/4000	3.00	12.00	3,000	0.62	AS
		α iF22/3000	4.00	22.00	3,000	1.20	AS
		α iF40/3000	6.00	38.00	2,000	2.20	AS
		α iF30/4000	7.00	30.00	3,000	1.70	AS
		α iF40/3000Fan	9.00	53.00	2,000	2.20	AS
		α i50/2000	4.00	53.00	2,000	1.45	AS
		α i52/4000	4.50	22.00	3,000	0.53	AS
		α i50/3000	5.50	30.00	3,000	0.76	AS
		α i54/4000	5.50	40.00	3,000	0.99	AS
	β	β i52/2000	2.50	20.00	2,000	0.53	AS
		β i52/3000	3.00	20.00	2,000	0.53	AS
		β i53/2000	3.00	27.00	2,000	0.76	AS
		β i54/2000	3.00	36.00	1,500	0.99	AS

On high gear ratio models, the access hole faces the S surface.

Please prepare the servo motor with no keyway. Consult Sankyo for using with motors not listed above.

Compatible Servomotor Models

RU400 High gear ratio model (Gear ratio=120)

Manufacture	Servo series	Motor	Rated output [kW]	Rated torque [N·m]	Rated rotation speed [min ⁻¹]	Motor rotor inertia [x10 ⁻² kg·m ²]	Motor mounting code
Mitsubishi Electric	CNC	HF-204	2.00	6.40	3,000	0.38	AS
		HF-302	3.00	14.30	2,000	0.75	AS
		HF-303	3.00	14.30	2,000	0.75	AS
		HF-354	3.50	11.10	3,000	0.75	AS
		HF-453	4.50	14.30	3,000	1.12	AS
		HF-703	7.00	22.30	3,000	1.54	AS
		HF-H204	2.00	6.40	3,000	0.38	AS
		HF-H354	3.50	11.10	3,000	0.75	AS
		HF-H453	4.50	14.30	3,000	1.12	AS
		HF-H703	7.00	22.30	3,000	1.54	AS
	J4	HG-JR703	7.00	22.30	3,000	0.43	AS
		HG-JR7034	7.00	22.30	3,000	0.43	AS
		HG-JR903	9.00	28.60	3,000	0.56	AS
		HG-JR9034	9.00	28.60	3,000	0.56	AS
		HG-SR121	1.20	11.50	1,000	0.47	AS
		HG-SR202	2.00	9.50	2,000	0.47	AS
		HG-SR204	2.00	9.50	2,000	0.47	AS
		HG-SR201	2.00	19.10	1,000	0.79	AS
		HG-SR301	3.00	28.60	1,000	1.00	AS
		HG-SR352	3.50	16.70	2,000	0.79	AS
		HG-SR3524	3.50	16.70	2,000	0.79	AS
		HG-SR421	4.20	40.10	1,000	1.51	AS
		HG-SR502	5.00	23.90	2,000	1.00	AS
		HG-SR5024	5.00	23.90	2,000	1.00	AS
		HG-SR702	7.00	33.40	2,000	1.51	AS
		HG-SR7024	7.00	33.40	2,000	1.51	AS
	J5	HK-ST2024W	1.20	11.50	1,000	0.36	AS
		HK-ST202W	2.00	9.50	2,000	0.36	AS
		HK-ST3524W	2.00	19.10	1,000	0.54	AS
		HK-ST5024W	3.00	28.60	1,000	0.71	AS
		HK-ST352W	3.50	16.70	2,000	0.54	AS
		HK-ST7024W	4.20	40.10	1,000	1.05	AS
		HK-ST502W	5.00	23.90	2,000	0.71	AS
		HK-ST702W	7.00	33.40	2,000	1.05	AS
Yaskawa Electric	Σ -V	SGMGV-30A	2.90	18.60	1,500	0.46	AS
		SGMGV-44A	4.40	28.40	1,500	0.68	AS
	Σ -7	SGM7G-30A	2.90	18.60	1,500	0.46	AS
		SGM7G-44A	4.40	28.40	1,500	0.68	AS

On high gear ratio models, the access hole faces the S surface.

Please prepare the servo motor with no keyway. Consult Sankyo for using with motors not listed above.

RU500 High gear ratio model (Gear ratio=150)

Manufacturer	Servo series	Motor	Rated output [kW]	Rated torque [N·m]	Rated rotation speed [min ⁻¹]	Motor rotor inertia [×10 ⁻² kg·m ²]	Motor mounting code
OMRON	G	R88M-G3K010T	3.00	28.40	1,000	0.56	AS
KEYENCE	SV	SV-M500A	4.40	28.40	1,500	0.68	AS
SANYO DENKI	Q2	Q2AA22550B	5.50	35.00	1,500	0.95	DS
		Q2AA22700S	7.00	67.00	1,000	1.85	DS
		Q2AA2211KV	11.00	70.00	1,500	1.86	DS
		Q2AA2215KV	15.00	95.50	1,500	2.55	DS
	R2	R2AA18550H	5.50	35.00	1,500	0.68	BS
		R2AA18550R	5.50	35.00	1,500	0.68	BS
		R2AA18750H	7.50	48.00	1,500	0.98	BS
		R2AA1811KR	11.00	70.00	1,500	1.10	BS
Panasonic	MINAS_A5	MHME202_C	2.00	9.55	2,000	0.58	AS
		MHME302_C	3.00	14.30	2,000	0.91	AS
		MHME402_C	4.00	19.10	2,000	1.12	AS
		MHME502_C	5.00	23.90	2,000	1.62	AS
FANUC	α	α iF12/4000	3.00	12.00	3,000	0.62	AS
		α iF22/3000	4.00	22.00	3,000	1.20	AS
		α iF40/3000	6.00	38.00	2,000	2.20	AS
		α iF30/4000	7.00	30.00	3,000	1.70	AS
		α iF40/3000Fan	9.00	53.00	2,000	2.20	AS
		α is50/2000	4.00	53.00	2,000	1.45	AS
		α is60/2000	5.00	65.00	1,500	1.95	AS
		α is30/4000	5.50	30.00	3,000	0.76	AS
		α is40/4000	5.50	40.00	3,000	0.99	AS
		α is50/3000Fan	14.00	75.00	3,000	1.45	AS
	β	β is30/2000	3.00	27.00	2,000	0.76	AS
		β is40/2000	3.00	36.00	1,500	0.99	AS
Mitsubishi Electric	CNC	HF-302	3.00	14.30	2,000	0.75	AS
		HF-303	3.00	14.30	2,000	0.75	AS
		HF-354	3.50	11.10	3,000	0.75	AS
		HF-453	4.50	14.30	3,000	1.12	AS
		HF-703	7.00	22.30	3,000	1.54	AS
		HF-H354	3.50	11.10	3,000	0.75	AS
		HF-H453	4.50	14.30	3,000	1.12	AS
		HF-H703	7.00	22.30	3,000	1.54	AS
	J4	HG-JR903	9.00	28.60	3,000	0.56	AS
		HG-JR9034	9.00	28.60	3,000	0.56	AS
		HG-SR201	2.00	19.10	1,000	0.79	AS
		HG-SR301	3.00	28.60	1,000	1.00	AS
		HG-SR352	3.50	16.70	2,000	0.79	AS
		HG-SR3524	3.50	16.70	2,000	0.79	AS
		HG-SR421	4.20	40.10	1,000	1.51	AS
		HG-SR502	5.00	23.90	2,000	1.00	AS
	J5	HG-SR5024	5.00	23.90	2,000	1.00	AS
		HG-SR702	7.00	33.40	2,000	1.51	AS
		HG-SR7024	7.00	33.40	2,000	1.51	AS
		HK-ST3524W	2.00	19.10	1,000	0.54	AS
		HK-ST5024W	3.00	28.60	1,000	0.71	AS
		HK-ST352W	3.50	16.70	2,000	0.54	AS
Yaskawa Electric	Σ -V	HK-ST7024W	4.20	40.10	1,000	1.05	AS
		HK-ST502W	5.00	23.90	2,000	0.71	AS
	Σ -7	HK-ST702W	7.00	33.40	2,000	1.05	AS
		SGMGV-44A	4.40	28.40	1,500	0.68	AS
		SGMTG-44A	4.40	28.40	1,500	0.68	AS

On high gear ratio models, the access hole faces the S surface.

Please prepare the servo motor with no keyway. Consult Sankyo for using with motors not listed above.

Oil Plug, Oil Level Gauge, and Drain Port on the Gear Box (for oil lubricated units)

Mounting position	4(U)	5(T)	5(U)	6(T)	6(U)	Unit:mm
RU160	A Oil plug Rc 1/4 A1 105 A2 100 B Oil level gauge B1 200 B2 35 C Drain plug Rc 1/4 C1 105 C2 15 Oil volume(L) 1.17	A Oil plug Rc 1 A1 35 A2 95 B Oil level gauge B1 57.5 B2 55 C Drain plug Rc 1/4 C1 140 C2 14 Oil volume(L) 0.57	A Oil plug Rc 1 A1 80 A2 95 B Oil level gauge B1 57.5 B2 55 C Drain plug Rc 1/4 C1 140 C2 15 Oil volume(L) 0.57	A Oil plug Rc 1/4 A1 140 A2 14 B Oil level gauge B1 215 B2 215 C Drain plug Rc 1 C1 35 C2 95 Oil volume(L) 0.58	A Oil plug Rc 1/4 A1 140 A2 15 B Oil level gauge B1 215 B2 215 C Drain plug Rc 1 C1 80 C2 95 Oil volume(L) 0.58	
	A Oil plug Rc 1/4 A1 185 A2 110 B Oil level gauge B1 200 B2 40 C Drain plug Rc 1/4 C1 170 C2 20 Oil volume(L) 1.63	A Oil plug Rc 1 A1 42.5 A2 95 B Oil level gauge B1 65 B2 45 C Drain plug Rc 1/4 C1 130 C2 15 Oil volume(L) 0.46	A Oil plug Rc 1 A1 87.5 A2 95 B Oil level gauge B1 65 B2 45 C Drain plug Rc 1/4 C1 130 C2 15 Oil volume(L) 0.46	A Oil plug Rc 1/4 A1 130 A2 15 B Oil level gauge B1 65 B2 210 C Drain plug Rc 1 C1 42.5 C2 95 Oil volume(L) 0.80	A Oil plug Rc 1/4 A1 130 A2 15 B Oil level gauge B1 65 B2 210 C Drain plug Rc 1 C1 87.5 C2 95 Oil volume(L) 0.80	
	A Oil plug Rc 3/8 A1 215 A2 120 B Oil level gauge B1 250 B2 45 C Drain plug Rc 3/8 C1 215 C2 20 Oil volume(L) 2.84	A Oil plug Rc 1 A1 42.5 A2 125 B Oil level gauge B1 70 B2 52 C Drain plug Rc 3/8 C1 165 C2 20 Oil volume(L) 0.71	A Oil plug Rc 1 A1 97.5 A2 125 B Oil level gauge B1 70 B2 52 C Drain plug Rc 3/8 C1 165 C2 20 Oil volume(L) 0.71	A Oil plug Rc 3/8 A1 165 A2 20 B Oil level gauge B1 70 B2 270 C Drain plug Rc 1 C1 42.5 C2 125 Oil volume(L) 1.46	A Oil plug Rc 3/8 A1 165 A2 20 B Oil level gauge B1 70 B2 270 C Drain plug Rc 1 C1 97.5 C2 125 Oil volume(L) 1.46	
	A Oil plug Rc 1/2 A1 180 A2 135 B Oil level gauge B1 245 B2 50 C Drain plug Rc 1/2 C1 180 C2 20 Oil volume(L) 4.48	A Oil plug Rc 1 A1 60 A2 145 B Oil level gauge B1 77.5 B2 60 C Drain plug Rc 1/2 C1 215 C2 23 Oil volume(L) 1.42	A Oil plug Rc 1 A1 95 A2 145 B Oil level gauge B1 77.5 B2 60 C Drain plug Rc 1/2 C1 215 C2 23 Oil volume(L) 1.42	A Oil plug Rc 1/2 A1 215 A2 23 B Oil level gauge B1 77.5 B2 290 C Drain plug Rc 1 C1 60 C2 145 Oil volume(L) 1.76	A Oil plug Rc 1/2 A1 215 A2 23 B Oil level gauge B1 77.5 B2 290 C Drain plug Rc 1 C1 95 C2 145 Oil volume(L) 1.76	
	A Oil plug Rc 1/2 A1 255 A2 135 B Oil level gauge B1 300 B2 50 C Drain plug Rc 1/2 C1 255 C2 25 Oil volume(L) 6.87	A Oil plug Rc 1 A1 50 A2 150 B Oil level gauge B1 80 B2 55 C Drain plug Rc 1/2 C1 225 C2 20 Oil volume(L) 1.45	A Oil plug Rc 1 A1 110 A2 150 B Oil level gauge B1 80 B2 55 C Drain plug Rc 1/2 C1 225 C2 20 Oil volume(L) 1.45	A Oil plug Rc 1/2 A1 225 A2 20 B Oil level gauge B1 80 B2 325 C Drain plug Rc 1 C1 50 C2 150 Oil volume(L) 2.43	A Oil plug Rc 1/2 A1 225 A2 20 B Oil level gauge B1 80 B2 325 C Drain plug Rc 1 C1 110 C2 150 Oil volume(L) 2.43	
RU500	A Oil plug Rc 3/4 A1 250 A2 275 B Oil level gauge B1 300 B2 75 C Drain plug Rc 3/4 C1 250 C2 25 Oil volume(L) 12.85	A Oil plug Rc 1 A1 74 A2 165 B Oil level gauge B1 165 B2 70 C Drain plug Rc 3/4 C1 245 C2 25 Oil volume(L) 4.00	A Oil plug Rc 1 A1 226 A2 165 B Oil level gauge B1 135 B2 70 C Drain plug Rc 3/4 C1 245 C2 25 Oil volume(L) 4.00	A Oil plug Rc 3/4 A1 245 A2 25 B Oil level gauge B1 165 B2 315 C Drain plug Rc 1 C1 74 C2 165 Oil volume(L) 5.77	A Oil plug Rc 3/4 A1 245 A2 25 B Oil level gauge B1 165 B2 315 C Drain plug Rc 1 C1 226 C2 165 Oil volume(L) 5.77	

Handling

Mounting the Motor

Motor to be mounted by customer.

Mount the motor by following the procedure that applies to your model.

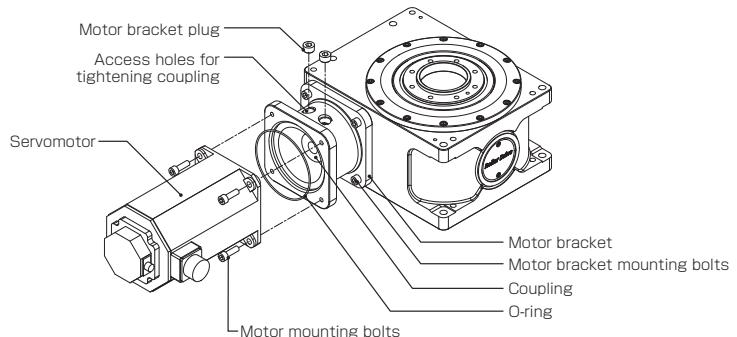
(1) Standard gear ratio model

- ① Mount motor to motor bracket.
- ② Fasten coupling to motor shaft.
- ③ Fasten the motor bracket plugs.

【Supplied parts】

Motor bracket plugs x2, O-ring

Servomotor installation schematic(Standard gear ratio model)



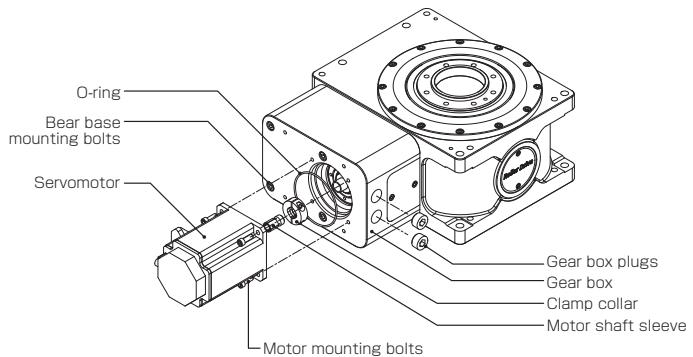
(2) High gear ratio model(RU160-RU400)

- ① Hand-tighten the clamp collar to the gear shaft.
- ② Insert the motor shaft sleeve in the gear shaft.
(The motor sleeve is not used for certain motor models.)
- ③ Mount the motor to the gear box.
- ④ Tighten the clamp collar.
- ⑤ Tighten the gear box plugs into the access holes for tightening the clamp collar.

【Supplied parts】

Gear box plugs x2, O-rings x1 to x4, motor shaft sleeve, clamp collar, clamp collar bolt x2

Servomotor installation schematic(High gear ratio model)



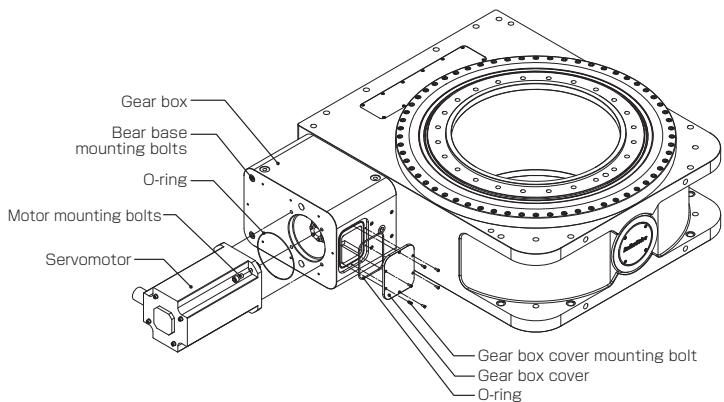
(3) High gear ratio model(RU500)

- ① Remove the gear box cover.
- ② Mount the motor to the gear box.
- ③ Fasten coupling fastening bolts to motor shaft.
- ④ Mount the gear box cover.

【Supplied parts】

O-ring

Servomotor installation schematic(High gear ratio model)



Installation Site

The product should be installed in a place satisfying the following conditions:

- Environment temperature from 5 to 40 °C

Due to heat generated by the motor and internally by the RollerDrive, the surface temperature of the product may rise. Please take steps to cool the unit, such as a fan or the like, so that the surface temperature does not exceed 60°C.

- Humidity under 85% (no condensation)
- Non vacuum or extreme pressure
- No exposure to water, oil, chemicals, dusts, etc.
- No existence of explosive gas, other hazardous gas, or radio active materials
- No direct sunlight

- Excessive shock or force does not act

• Grounded from electric current

• Minimum electro magnetic noise (be cautious on welding machines)

• Easy to carry out maintenance and check oil level and drain

Handling

Lubricants

The unit may have the standard grease lubrication system or the high-speed oil lubrication system.

● Grease lubrication

Units designed for grease lubrication are virtually free of maintenance and do not require regular grease changes.

Grease used in the RollerDrive: ENEOS Corporation PYRONOC GREASE UNIVERSAL 2

Grease used in the High gear ratio gear box: ENEOS Corporation PYRONOC GREASE UNIVERSAL 0

● Oil lubrication

These units use high-performance lubrication oil. The lubrication oil will remain chemically and thermally stable, but should be replaced every 3,000 hours of operation to prolong the life of the unit. Use the oil level gauge to check the condition of the lubrication. Check lubrication when the unit has stopped. If the oil appears low or discolored, change it with fresh oil regardless of the hours of operation. Occasionally, air bubbles may form in the oil during operation but this is natural and not a quality concern.

※:Use the following lubricant for refill.

Standard lubricant: Mobil SHC629 (VG150)

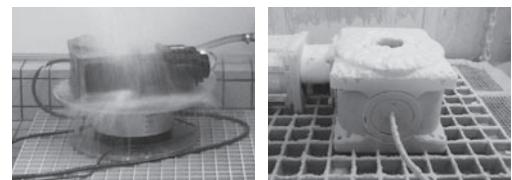
Use of different oil can cause wearing or other problems.

Notes on Water-proof, Dust-proof Products

Water-proofing and dust-proofing are provided as options to protect the RU Series.

Sankyo performed industrial testing based on IEC60529 for IP66M conditions. Thereafter, TÜV Rheinland Japan confirmed that the RU Series chassis was free of water and dust intrusion.

[Testing was done on the RU80 (reduction ratio 20).]



IP is an abbreviation for International Protection and classifies and rates the degree of protection against the intrusion of foreign matter such as steel balls, copper wire, dust, and water, etc. IP6X indicates complete protection against dust particulate, and IPX6 indicates protection against water sprayed at high pressure (100 l per minute) from various angles. The suffix 'M' indicates the water ingress test was performed with the output shaft rotating.

- Water-proof and dust-proof protection does not ensure protection against failures or unlimited lifetime.
- It does not provide protection against the intrusion of solids and liquids under all environments.
- This product has not been rust-proofed. If subject to water or moisture, non-painted machined surfaces (such as the output shaft and mounting surfaces on the housing) will rust.
- When not adding water proof/dust-proof options, the protection code for RU series main unit is IP54 equivalent.

⚠ Notes

Limitations on the use of this product

- This product cannot be used in applications where operation of the product has a direct impact in human life, or can cause bodily harm to people. The scope of these use limitations includes the following applications:
 - i . Medical equipment
 - ii . Nuclear power related equipment
 - iii . Aerospace equipment
 - iv . Equipment for handling explosive, corrosive or toxic substances etc.
- Please consult with our company if you are considering use in one of the above applications.
- If there is a possibility that this product will be used in a final use location outside Japan, in weapons or equipment for weapon manufacture, then it may be subject to regulation due to the Foreign Exchange and Foreign Trade Control Law. Please take extra care with regard to the application and region of use, and properly submit applications and follow procedures if necessary.
- When used in grinding machines, the seal device on the outer periphery of the output shaft may become damaged. The warranty does not cover any such damage.

Notes on information

- Specifications, dimensions and other information relating to this product provided in this catalog are subject to change without prior notice.
- The information in this catalog is current as of March 2021.
- Patent rights and copyrights for some mechanisms, trademarks, images, drawings and other material in this catalog all belong to Sankyo Seisakusho Co. Copying, reuse or distribution of any material in this catalog without the permission of Sankyo Seisakusho is forbidden.

Other RollerDrive Products



RA series

The RA Series is a compact unit designed for easy integration. It features zero-backlash for precision positioning performance, and our RollerDrive positioner for high power transmission efficiency.. Cross-roller bearings are standard on the output for precision motion with strong rigidity. Upon request, a servomotor can be sized and mounted to provide a drop-in solution that does not require you to design or assemble a drive system. The output features an oversized hollow bore for use in conjunction with other equipment, and for routing cables and pipes.



RW series

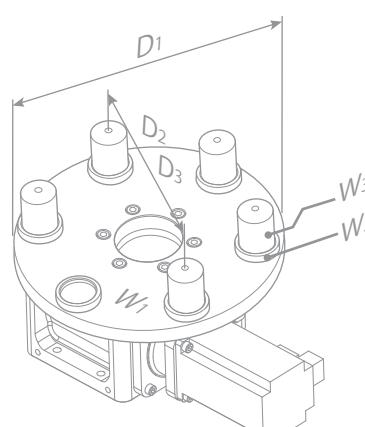
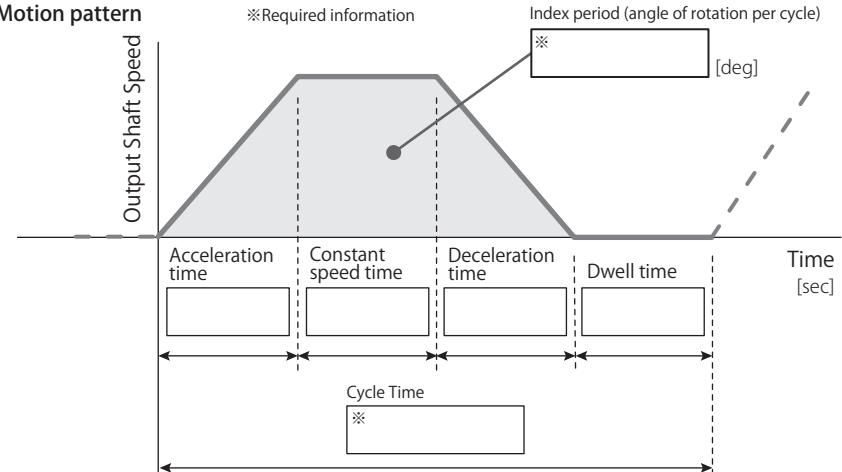
The RW Series is a positioner for welding machines. It holds up against shocks that are caused by high-speed positioning and emergency stopping of heavy loads. The oversized hollow bore in the output neatly organizes all wiring and piping. The low-profile body is especially suitable for compact machine designs.

Attention: _____

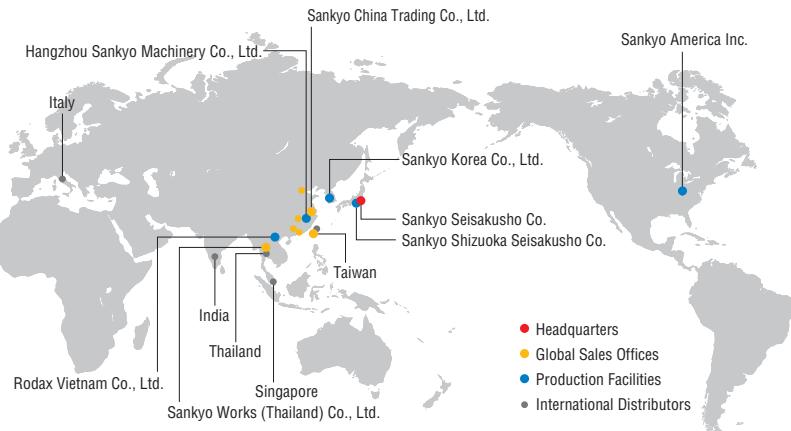
Date _____

Our contact person: _____

Model Sizing Form for the **RollerDrive® RU series**

Customer's Company, Department		TEL
Address		FAX
Name	Email	
A) Application		
B) Overview drawing, loads, operating environment, etc. (Draw a sketch of the table, workpieces, fixtures, etc., to mount on the output shaft of the RU, and indicate any loads that will occur during rotation.)		
 <p>Load that acts upon the output shaft</p>		
Table diameter : D ₁ [mm]		
Table mass : W ₁ [kg]		
P.C.D of fixtures : D ₂ [mm]		
Mass per fixture : W ₂ [kg]		
Number of fixtures : n ₂ [pcs.]		
P.C.D of workpieces : D ₃ [mm]		
Mass per workpiece : W ₃ [kg]		
Axial/radial loads		Moment load [N·m]
		Number of workpieces : n ₃ [pcs.]
C) Motion pattern		
 <p>Output Shaft Speed</p> <p>Acceleration time Constant speed time Deceleration time Dwell time</p> <p>Index period (angle of rotation per cycle) * [deg]</p> <p>Time [sec]</p> <p>Cycle Time *</p>		
E) Intended servomotor		
Manufacture _____		
Model No. _____		
Motor size (rated output) [kW] _____		
F) Mounting direction of servomotor		
T surface (right side viewed from front)		
U surface (left side viewed from front)		
Circle applicable answer.		
D) Lubrication and product mounting position		
Select one from each question.		
Lubrication system: <input type="checkbox"/> Grease lubrication <input type="checkbox"/> Oil lubrication		
Product mounting position: <input type="checkbox"/> W surface on bottom <input type="checkbox"/> V surface on bottom <input type="checkbox"/> U surface on bottom <input type="checkbox"/> T surface on bottom <input type="checkbox"/> R surface on bottom <input type="checkbox"/> S surface on bottom		
G) Motor mounting code _____		

Global network



Group Companies

Sankyo America Inc.

10655 State Route 47 Sidney, Ohio, 45365 U.S.A.
Phone: +1-(0)937-498-4901 Fax: +1-(0)937-498-9403
Email: sales@sankyoautomation.com

Sankyo Korea Co., Ltd.

1449-48 Seobu-ro, Gwonseon-gu,
Suwon-si, Gyeonggi-do, 16643 Korea
Phone: +82-(0)31-895-5991 Fax: +82-(0)31-895-6607
Email: kr-sales@rollerdrive.com

Sankyo China Trading Co., Ltd.

[Shanghai Sales Office]
Room 1103, Block B, No.391 Guiping Road, Shanghai 200233 China
Phone: +86-(0)21-5445-2813 Fax: +86-(0)21-5445-2340
Email: sales@sankyochina-trading.com

[Shenzhen Sales Office]

Unit 19J, Tower B, NEO Building, No.6009 Shennan Avenue,
Futian District, Shenzhen China
Phone: +86-(0)755-8230-0270 Fax: +86-(0)755-8236-4605

[Tianjin Sales Office]

Room 1905, Pengzhanfeiwo Building A, Crossing Yale Road Yaolin Road,
Xiqing District, Tianjin 300380 China
Phone: +86-(0)22-2312-1005 Fax: +86-(0)22-2312-1007

[Guangzhou Sales Office]

Room 913, Xing Pu building, No.12 Guan Hong Road,
Guangzhou Economic Development Zone, Huang Pu,
Guang Zhou 510670 China
Phone: +86-(0)20-8985-1846 Fax: +86-(0)20-8225-7346

[Wuhan Sales Office]

Room 2301, Taihe Square, No.134 Wusheng Road, Wuhan,
Hubei Province China
Phone: +86-(0)27-8568-5818 Fax: +86-(0)27-8568-2818

Hangzhou Sankyo Machinery Co., Ltd.

No.2518 Jiang Dong 2 Road, Hangzhou Jiang Dong Industrial Park,
Xiaoshan Zone, Hangzhou, Zhejiang, China
Phone: +86-(0)571-8283-3311 Fax: +86-(0)571-8283-1133

Rodax Vietnam Co., Ltd.

Plot No. M1, Thang Long Industrial Park II
Di Su, My Hao, Hung Yen, Viet Nam
Phone: +84-(0)221-3-589701 Fax: +84-(0)221-3-589708

Sankyo Works (Thailand) Co., Ltd.

9/31 Moo 5, Phaholyotin Road, Klongnueng,
Klong Luang, Pathumthani 12120 Thailand
Phone: +66-(0)2-516-5355 Fax: +66-(0)2-068-0931
Email: sales@sankyo-works.co.th

Contact us

Mon–Fri AM8:30–12:00 PM13:00–17:30 UTC + 09:00 (JST) (Except public holidays and company holidays)

■ Headquarters (International Sales Division)	3-37-3 Tabata Shinmachi, Kita-ku, Tokyo, Japan 114-8538 Phone: +81-(0)3-3800-3330 Fax: +81-(0)3-3800-3380 Email: overseas@sankyo-seisakusho.co.jp URL: http://www.sankyo-seisakusho.co.jp
■ Taiwan Sales Office	No.21, Ln.152, Jianxing Rd., Sanhe Vil., Daya Dist., Taichung City 42876, Taiwan (R.O.C.) Phone: +886-(0)4-2359-4048 Fax: +886-(0)4-2359-4720 Email: tw-sales@rollerdrive.com



<http://www.sankyo-seisakusho.co.jp>

Specifications and dimensions are subject to change without notice.
Consult Sankyo sales before ordering.
Patent rights and copyrights for some mechanisms, trademarks, images,
drawings and other material in this catalog all belong to Sankyo Seisakusho Co.
"RollerDrive" is a registered trademark of Sankyo Seisakusho Co. in Japan.

