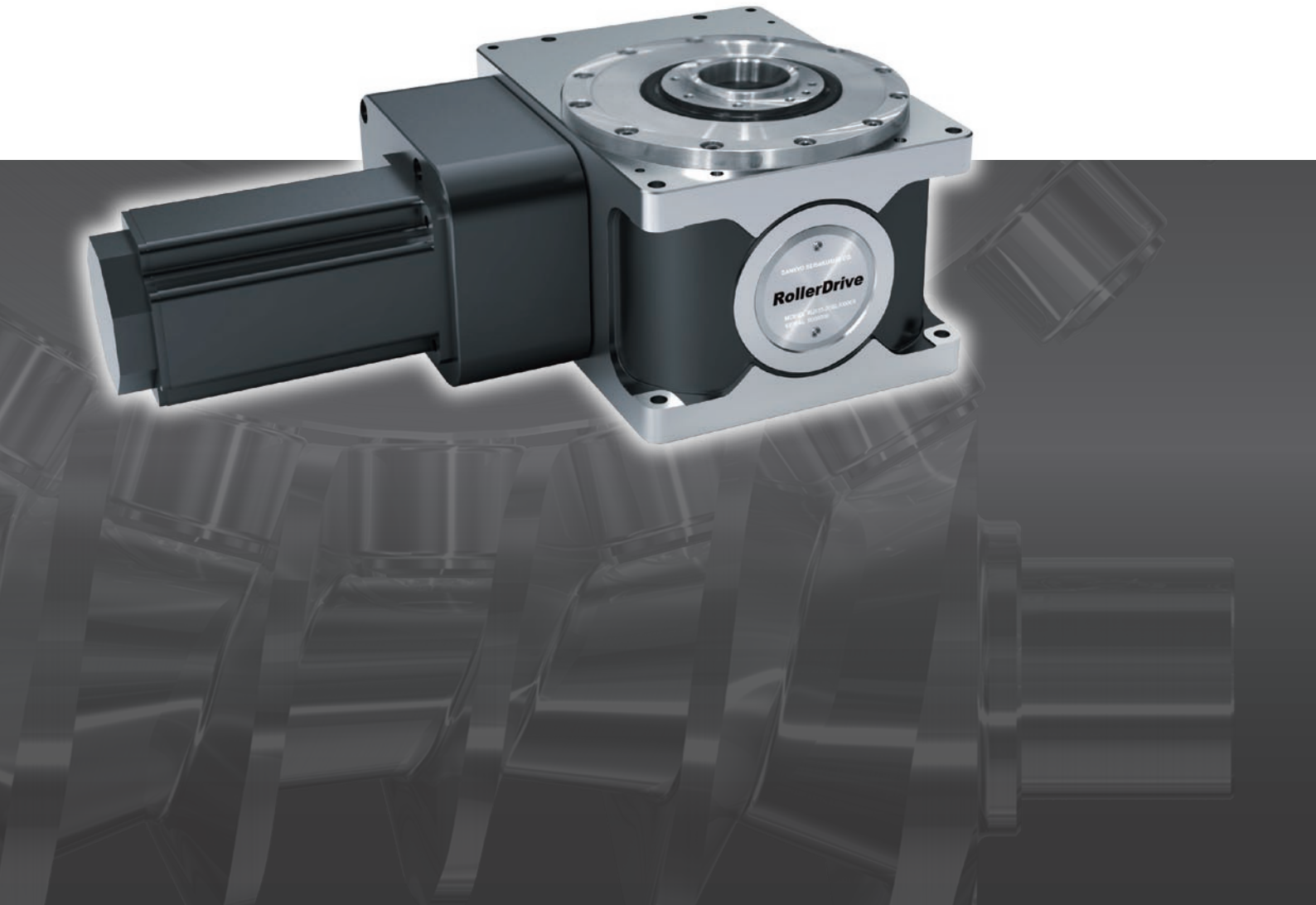
SANKYO SEISAKUSHO CO.

Universal Positioning Unit

RollerDrive®

RU Series

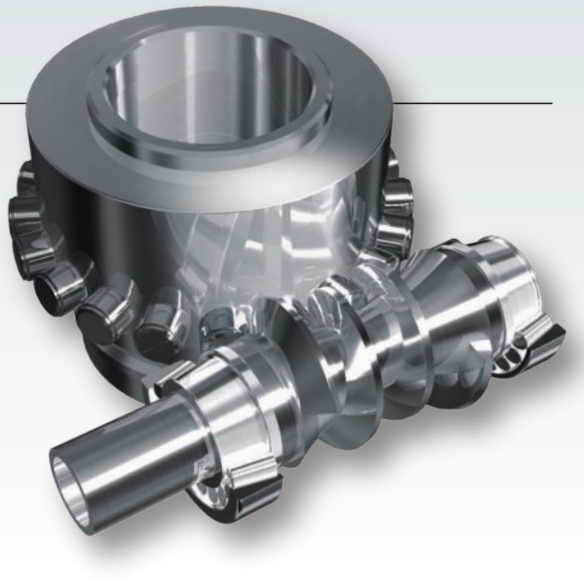
RU40, 63, 80, 100, 125



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.

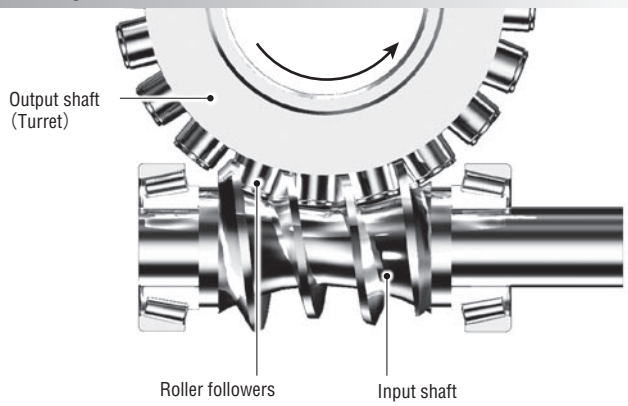
Our proprietary adjustment mechanism provides optimum preload.

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

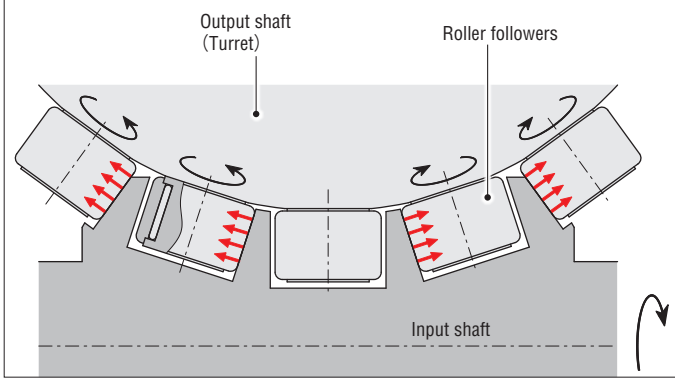
This mechanism ensures zero backlash, precision, and efficiency while preventing wear. It also provides long-term, consistent accuracy.

The servomotor drive delivers unparalleled, ultimate motion control.

Roller gear cam mechanism

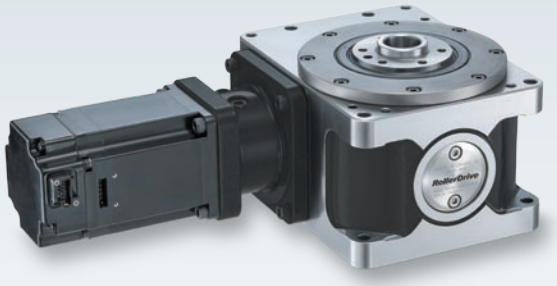


Preload mechanism

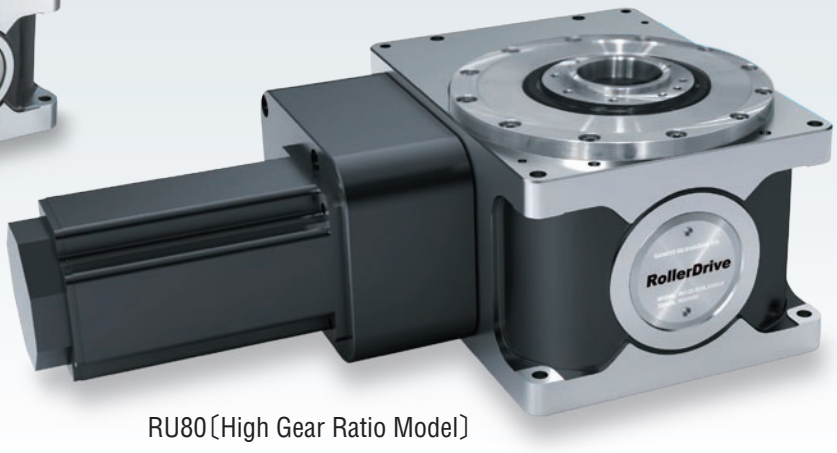


RollerDrive® RU Series

All-Purpose Model for Various Applications



RU40〔Standard Gear Ratio Model〕



RU80〔High Gear Ratio Model〕

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.

Gear ratios are 1/20, 1/60 (RU40 comes with 1/15 or 1/45)

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

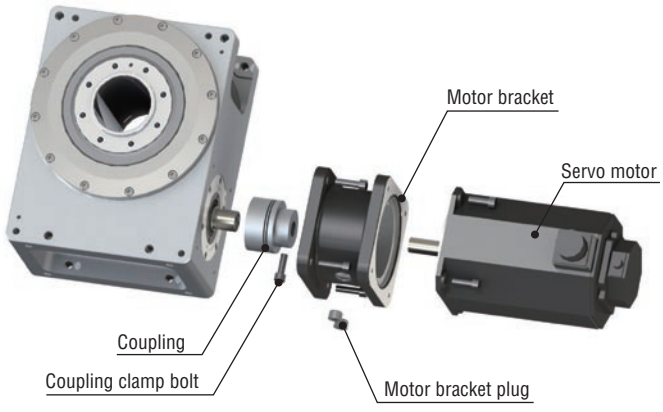
Compatible with a wide range of servomotor sizes (for each brand). Servomotors are coupling-mounted for installation. Easy to install even for first-time users.

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)

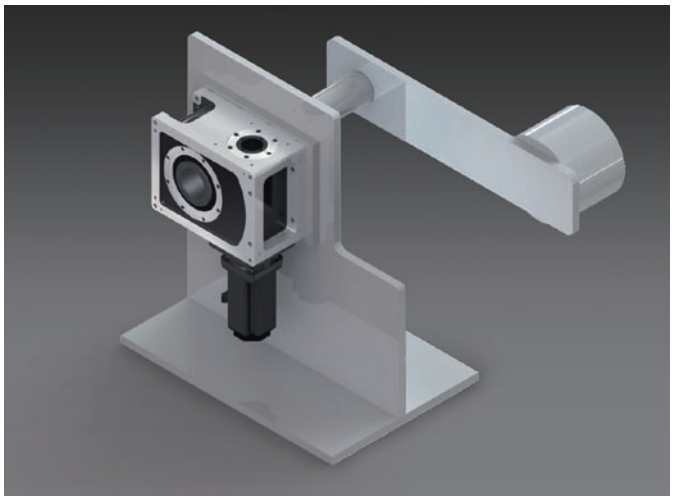


Compatible with various servomotor makes

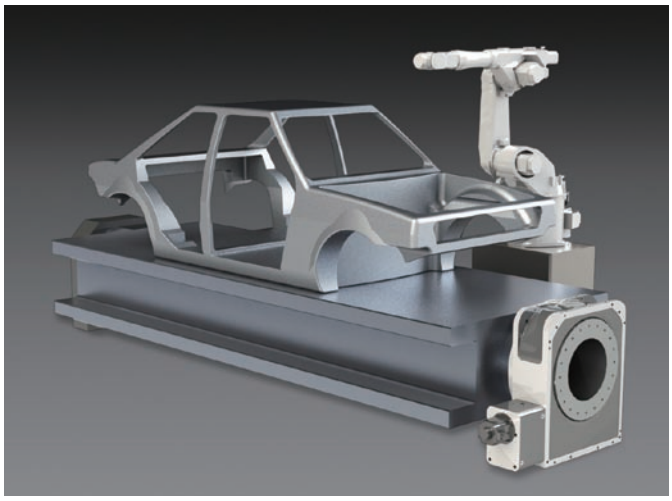
FANUC	Mitsubishi Electric
Yasukawa Electric	KEYENCE
Panasonic	OMRON
SANYO DENKI	Fuji Electric

Consult for use with motors not listed above.

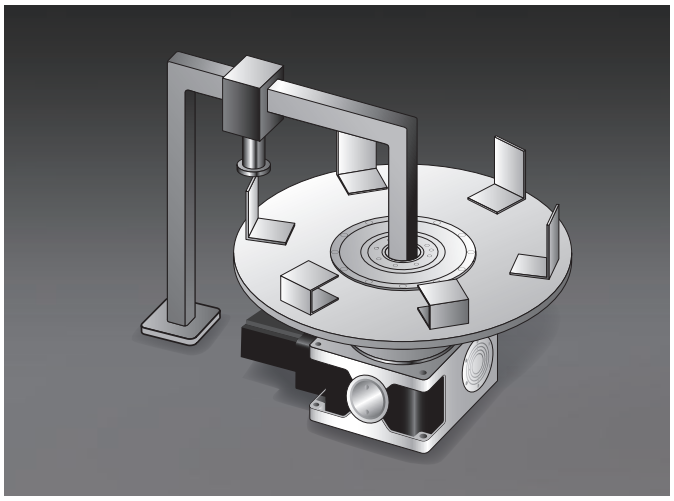
Applications



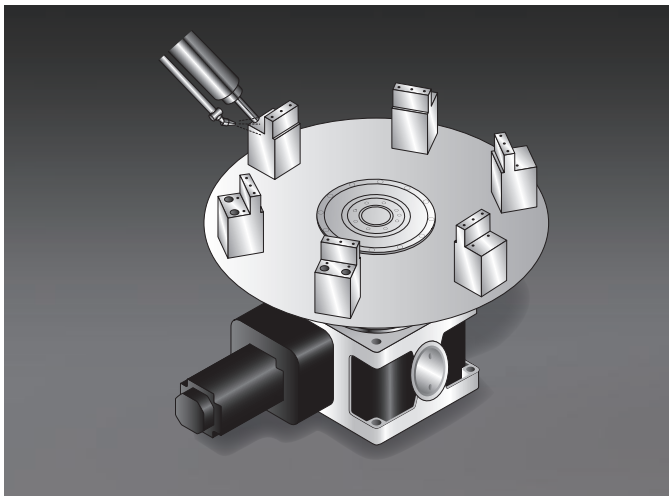
Oscillating Work with Off-Center Loads



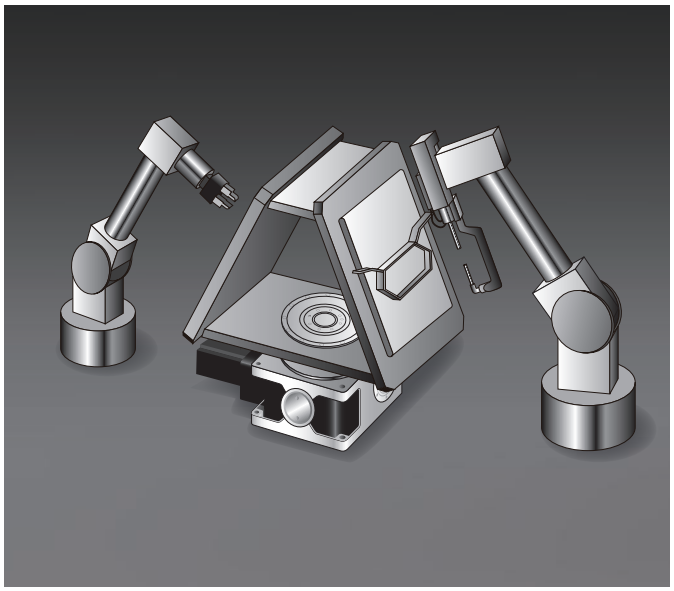
Automotive Welding and Assembly Process



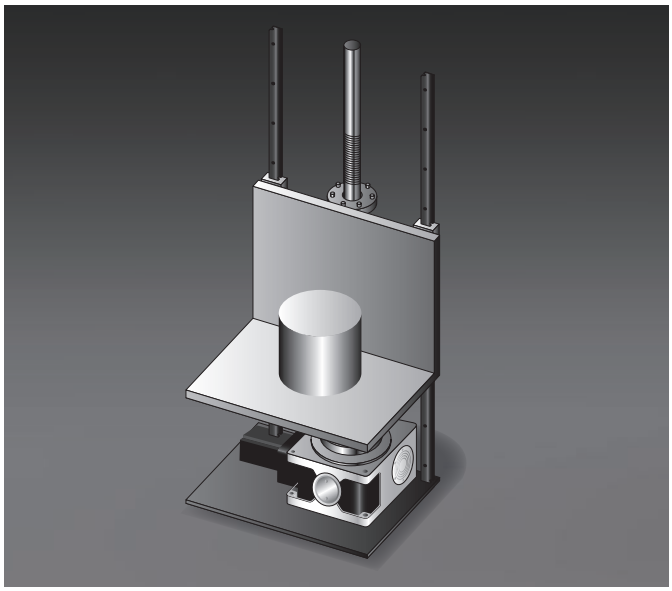
Using the Hollow Shaft for Crimping



Boring Machine



Rotary Positioner for Welding Machines



Vertical Ball Screw Drive

Model Code

Model Code

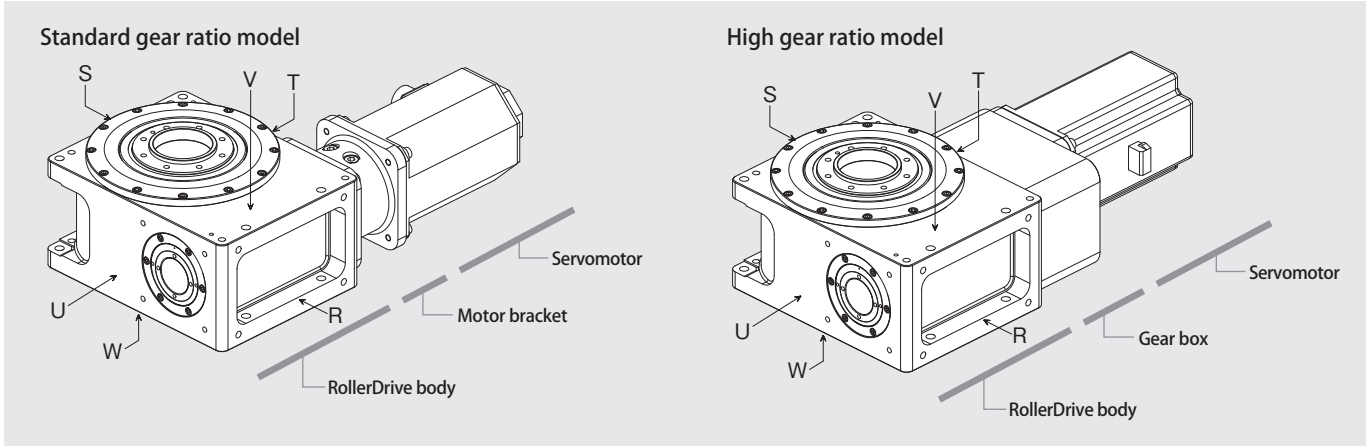
RU 63 - 20 G T - AR - A

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※1 (High accuracy type)	40	15、45	Grease lubrication G: All positions are available Oil lubrication※1 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 Position of access hole (Access hole only on side S for high gear ratio models) Attachment code See Dimensions Diagrams for each size. ➡ P.7～16	Blank: None A: Include
	63 80 100 125	20、60				

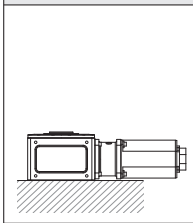
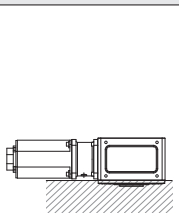
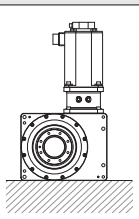
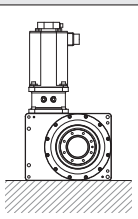
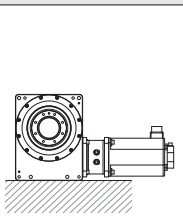
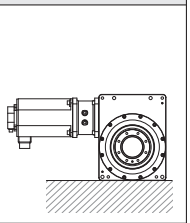
※1 The RUX (High-precision model) is not available in size 40.
※2 Order products

Figure B. RollerDrive Surfaces

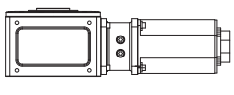
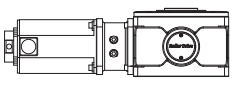
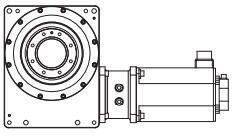
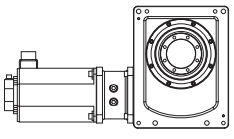


※ Shown with servomotor on "T" surface

Figure A. 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

The RU series has two different lubrication options. Select the lubrication type according to your operating conditions. Grease lubrication is the standard lubrication method, while oil lubrication should be selected for high-speed operation. To check that the service life of the RollerDrive will be satisfactory, please compare the specifications for each lubrication type. On the dynamic rated output torque curve (see page 6), when the point (Torque and Speed) is below the curve, an expected life of over 12,000 hours is ensured.

Capacity Table [Grease Lubrication]

Sizes			RU40		RU63		RU80		RU100		RU125	
Gear ratio			15	45	20	60	20	60	20	60	20	60
Max Acceleration Torque start/stop		N·m	67		155		211		647		1,098	
Static rated output torque		N·m	100		250		360		1,000		1,800	
Maximum output speed※		min^{-1}	200		150		125		100		80	
Rated output speed※		min^{-1}	60		40		35		30		30	
Internal moment of inertia at the input shaft		$\times10^{-4}$ kg·m^2	0.53	0.15	1.85	0.53	5.05	1.94	9.51	5.45	32.99	13.51
Angular transmission accuracy	Standard accuracy model	arcsec or less	90		60		40					
	High accuracy model	arcsec or less	–		30		20					
Angular repeatability accuracy	Standard accuracy model	arcsec or less	±10		±7		±5					
	High accuracy model	arcsec or less	–		±3		±2					
Output shaft axial runout (Side V)	Standard accuracy model	μm or less	10									
	High accuracy model	μm or less	–		2							
Output shaft radial runout (Side V)	Standard accuracy model	μm or less	10									
	High accuracy model	μm or less	–		2							
Allowable axial load output shaft		N	3,000		12,500		16,500		21,000		50,000	
Allowable radial load output shaft		N	2,000		11,000		14,000		18,000		35,000	
Allowable moment load output shaft		N·m	100		700		1,000		1,700		5,000	
Weight		kg	9	10	20	22	35	40	50	55	95	100

Capacity Table [Oil Lubrication]

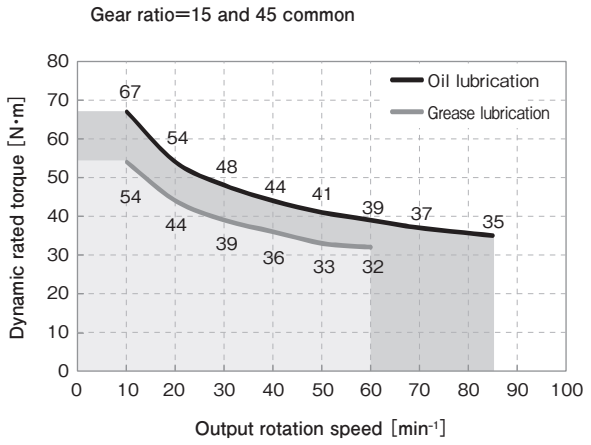
Sizes			RU40		RU63		RU80		RU100		RU125	
Gear ratio			15	45	20	60	20	60	20	60	20	60
Max Acceleration Torque start/stop		N·m	82		191		260		796		1,352	
Static rated output torque		N·m	100		250		360		1,000		1,800	
Maximum output speed※		min^{-1}	200		150		150		150		150	
Rated output speed※		min^{-1}	86		55		50		45		45	
Internal moment of inertia at the input shaft		$\times10^{-4}$ kg·m^2	0.53	0.15	1.85	0.53	5.05	1.94	9.51	5.45	32.99	13.51
Angular transmission accuracy	Standard accuracy model	arcsec or less	90		60		40					
	High accuracy model	arcsec or less	–		30		20					
Angular repeatability accuracy	Standard accuracy model	arcsec or less	±10		±7		±5					
	High accuracy model	arcsec or less	–		±3		±2					
Output shaft axial runout (Side V)	Standard accuracy model	μm or less	10									
	High accuracy model	μm or less	–		2							
Output shaft radial runout (Side V)	Standard accuracy model	μm or less	10									
	High accuracy model	μm or less	–		2							
Allowable axial load output shaft		N	3,000		12,500		16,500		21,000		50,000	
Allowable radial load output shaft		N	2,000		11,000		14,000		18,000		35,000	
Allowable moment load output shaft		N·m	100		700		1,000		1,700		5,000	
Weight		kg	9	10	20	22	35	40	50	55	95	100

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

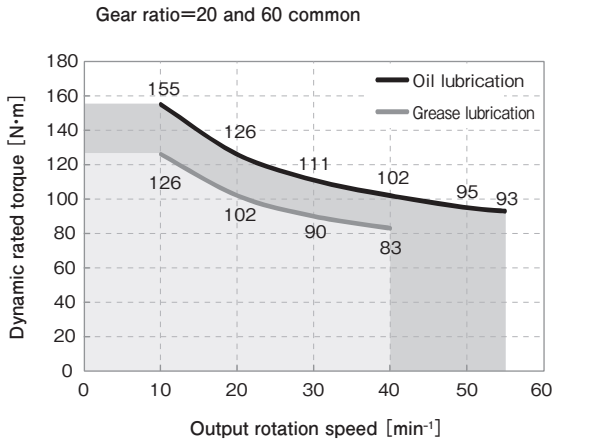
Dynamic Rated Output Torque

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.

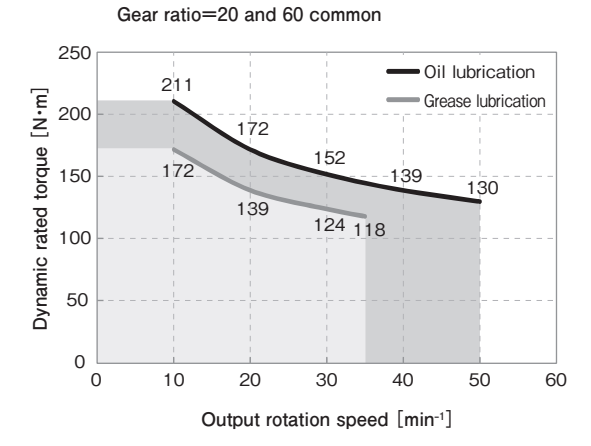
RU40



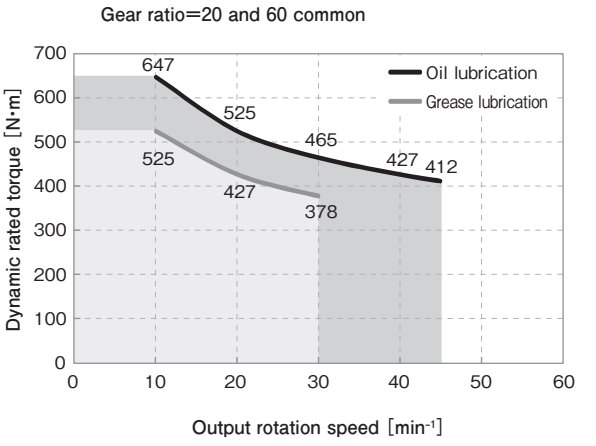
RU63



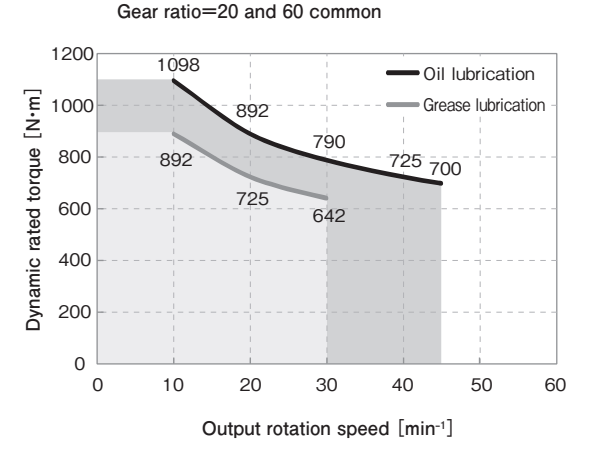
RU80



RU100



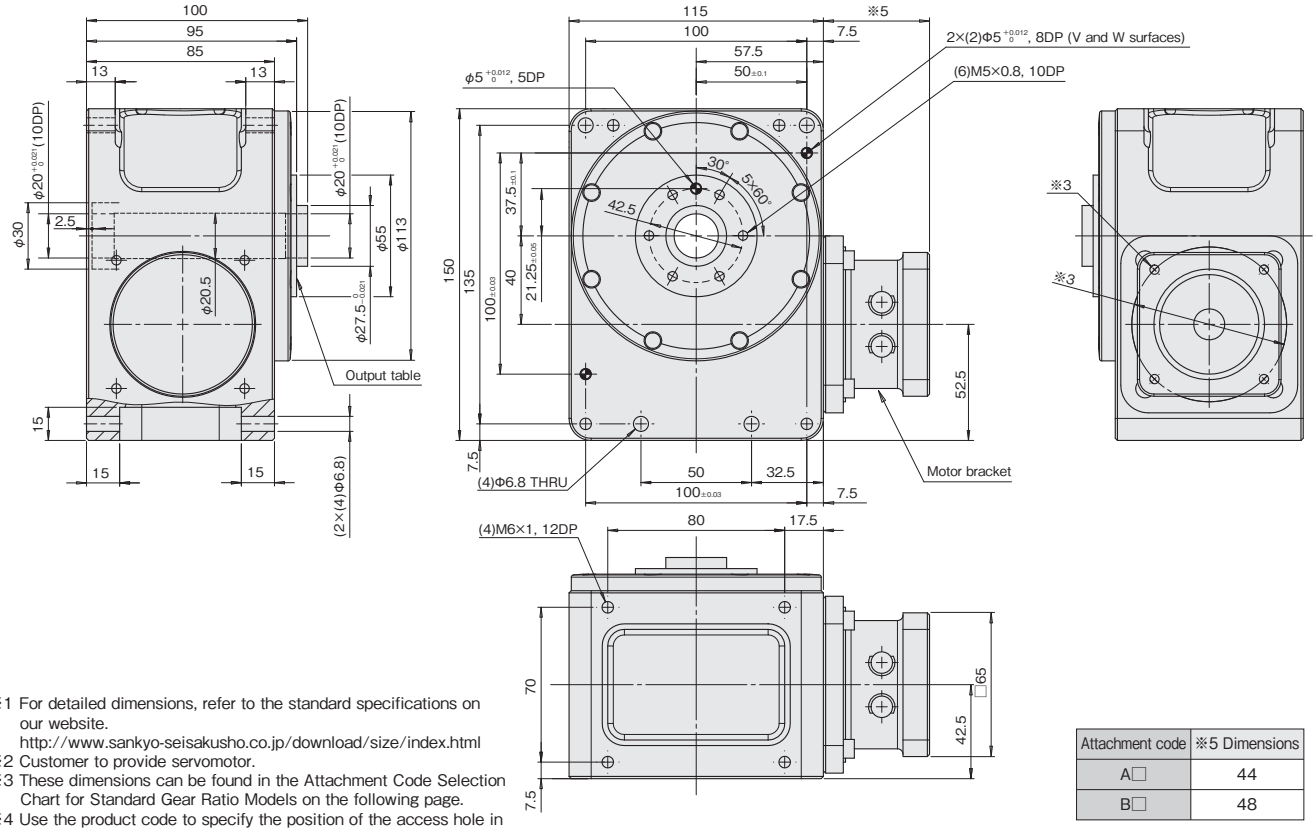
RU125



RU40 Dimensions

Standard Gear Ratio Model Dimension Drawings〔Gear ratio=15〕 RU40

Unit:mm

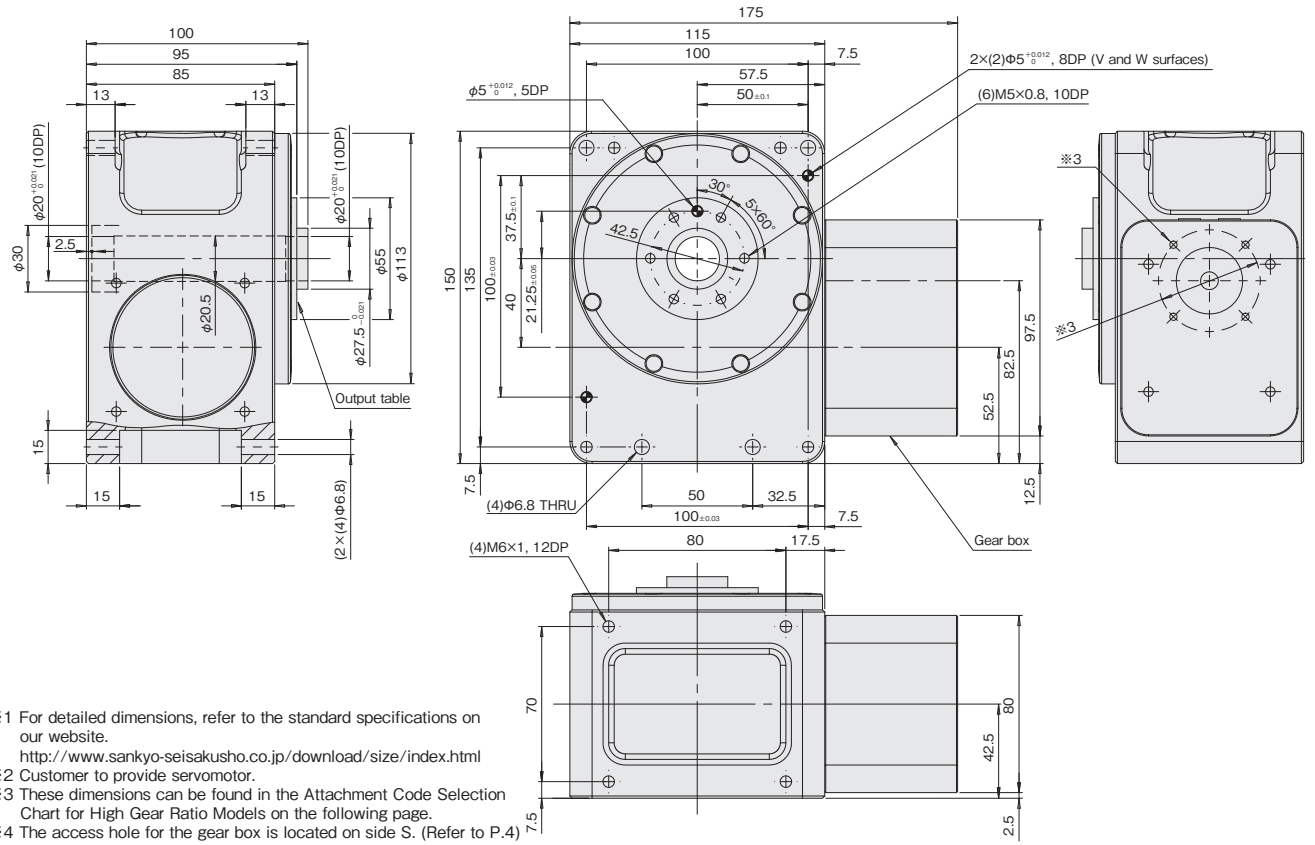


※1 For detailed dimensions, refer to the standard specifications on our website.
http://www.sankyo-seisakusho.co.jp/download/size/index.html
※2 Customer to provide servomotor.
※3 These dimensions can be found in the Attachment Code Selection Chart for Standard Gear Ratio Models on the following page.
※4 Use the product code to specify the position of the access hole in the motor bracket. (Refer to P.4)

Attachment code	※5 Dimensions
A□	44
B□	48

High Gear Ratio Model Dimension Drawings〔Gear ratio=45〕 RU40

Unit:mm



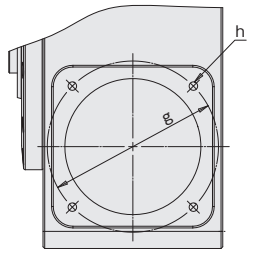
※1 For detailed dimensions, refer to the standard specifications on our website.
http://www.sankyo-seisakusho.co.jp/download/size/index.html
※2 Customer to provide servomotor.
※3 These dimensions can be found in the Attachment Code Selection Chart for High Gear Ratio Models on the following page.
※4 The access hole for the gear box is located on side S. (Refer to P.4)

RU40 Dimensions

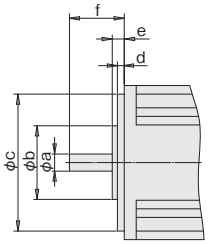
Attachment Code Selection Chart Standard Gear Ratio Models [Gear ratio=24] With Attachment RU40

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

Unit:mm



Motor mounting dimensions on the RU



Mountable Motor Dimensions

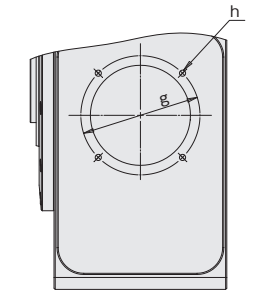
Attachment code	a	b	c	d	e	f	g	h	Max motor torque
A□	$\phi 9_{-0.009}^{0}$	Less than ϕ45	ϕ50	Less than 4	Less than 13.5	25～26.5	70	(4)M5×0.8, 8DP	5.33N·m
B□	$\phi 14_{-0.011}^{0}$			Less than 5	Less than 17.5	29.5～30.5		(4)M5×0.8, 12DP	

※1 The most common servomotors suitable for these models are given on page 17.

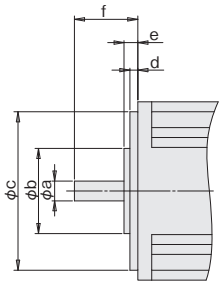
Attachment Code Selection Chart High Gear Ratio Models [Gear ratio=45] With Attachment RU40

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

Unit:mm



Motor mounting dimensions on the RU



Mountable Motor Dimensions

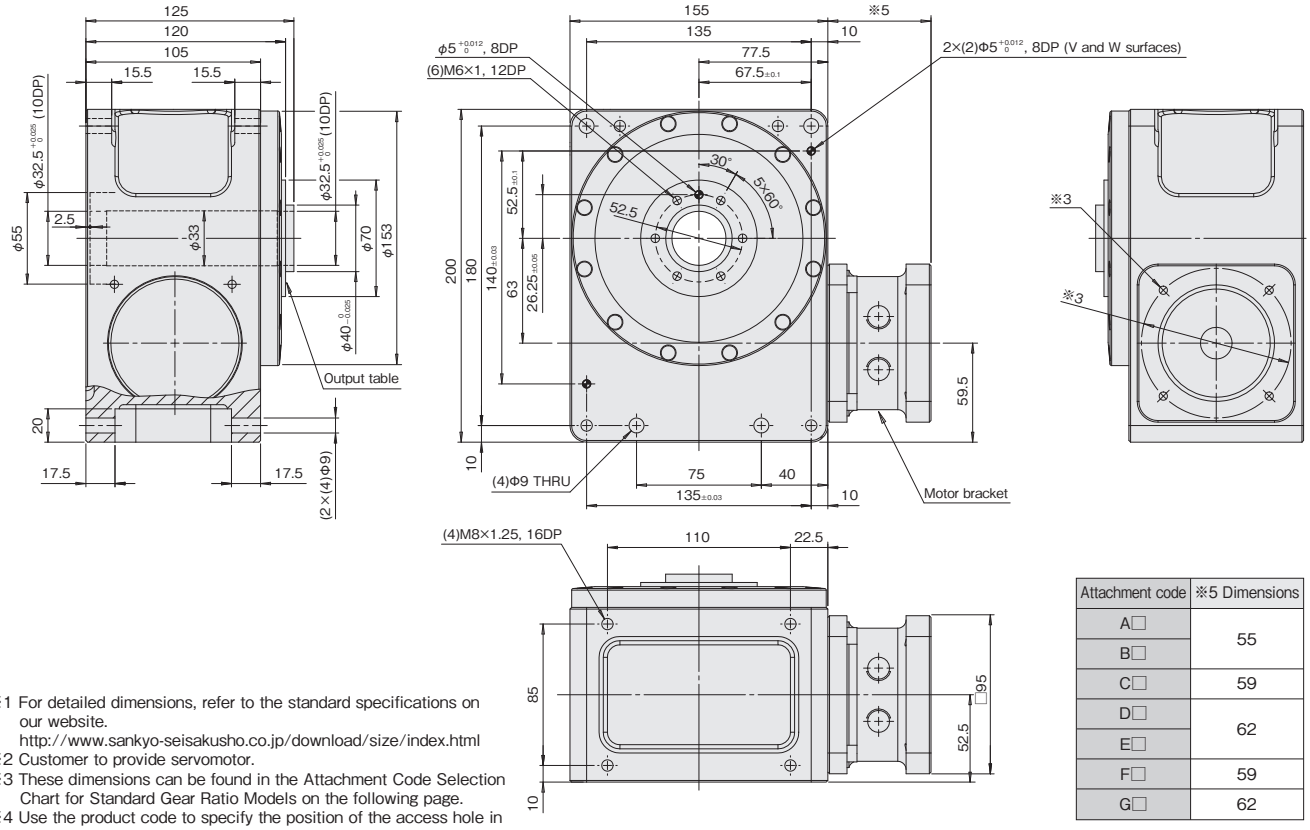
Attachment code	a	b	c	d	e	f	g	h	Max motor torque
AS	$\phi 8_{-0.009}^{0}$	-	ϕ30	Less than 6	-	25～33.5	46	(4)M4×0.7, 8DP	3.54N·m

※1 The most common servomotors suitable for these models are given on page 17.

RU63 Dimensions

Standard Gear Ratio Model Dimension Drawings〔Gear ratio=20〕 RU63

Unit:mm

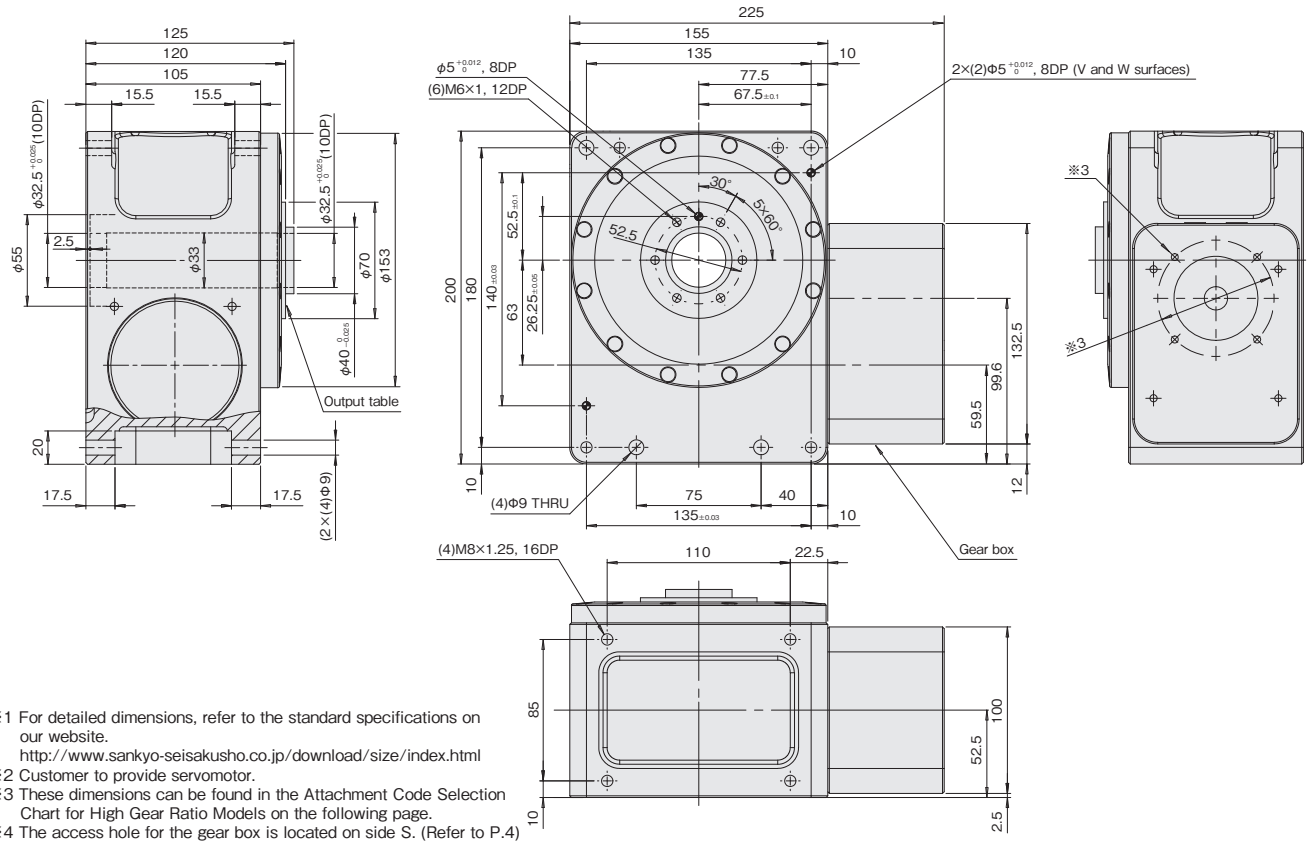


Attachment code	※5 Dimensions
A□	55
B□	
C□	59
D□	62
E□	
F□	59
G□	62

※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=60〕 RU63

Unit:mm



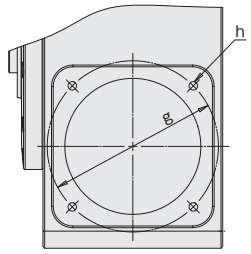
※1 For detailed dimensions, refer to the standard specifications on our website.
http://www.sankyo-seisakusho.co.jp/download/size/index.html
※2 Customer to provide servomotor.
※3 These dimensions can be found in the Attachment Code Selection Chart for High Gear Ratio Models on the following page.
※4 The access hole for the gear box is located on side S. (Refer to P.4)

RU63 Dimensions

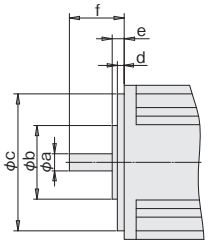
Attachment Code Selection Chart Standard Gear Ratio Models [Gear ratio=20] With Attachment RU63

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

Unit:mm



Motor mounting dimensions on the RU



Mountable Motor Dimensions

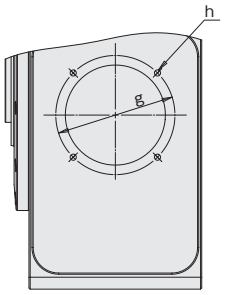
Attachment code	a	b	c	d	e	f	g	h	Max motor torque
A□	$\phi 10^{0}_{-0.009}$	Less than ϕ65	ϕ80	Less than 5	Less than 16.2	32~34	100	(4)M6×1, 8DP	16.66N·m
B□	$\phi 14^{0}_{-0.011}$			Less than 6	Less than 20.2	36~38		(4)M6×1, 12DP	
C□					Less than 23.2	40~41		(4)M6×1, 15DP	
D□	$\phi 16^{0}_{-0.011}$								
E□	$\phi 19^{0}_{-0.013}$		ϕ70	Less than 4			90		
F□	$\phi 16^{0}_{-0.011}$		ϕ80	Less than 6	Less than 20.2	36~38	100	(4)M6×1, 12DP	
G□			ϕ70	Less than 4	Less than 23.2	40~41	90	(4)M6×1, 15DP	

※1 The most common servomotors suitable for these models are given on page 18.

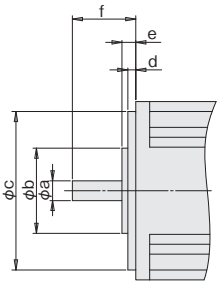
Attachment Code Selection Chart High Gear Ratio Models [Gear ratio=60] With Attachment RU63

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

Unit:mm



Motor mounting dimensions on the RU



Mountable Motor Dimensions

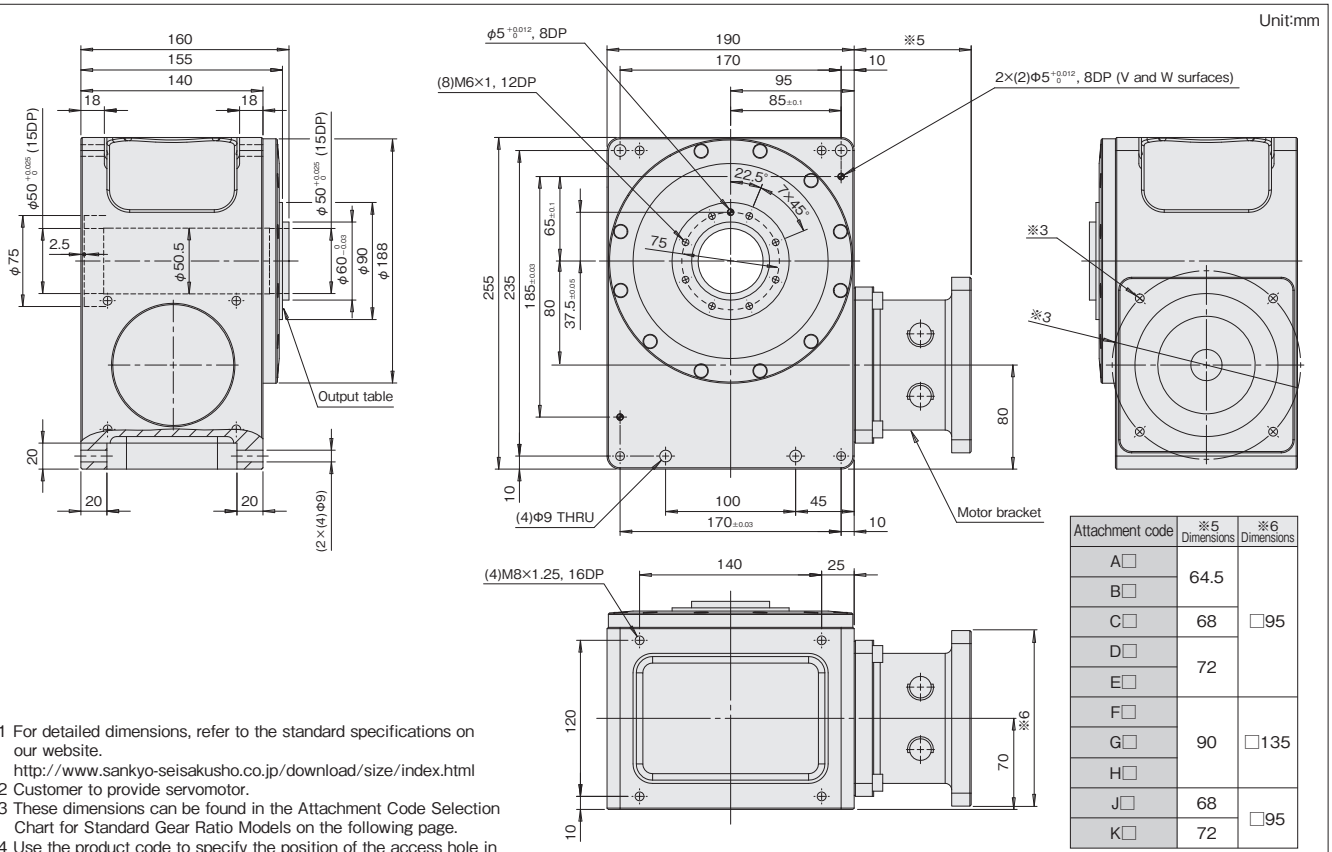
Attachment code	a	b	c	d	e	f	g	h	Max motor torque
AS	$\phi 9^{0}_{-0.009}$	-	ϕ50	Less than 4	-	25~31	70	(4)M5×0.8, 10DP	6.85N·m
BS	$\phi 14^{0}_{-0.011}$								

※1 The most common servomotors suitable for these models are given on page 18.

RU80 Dimensions

Standard Gear Ratio Model Dimension Drawings〔Gear ratio=20〕 RU80

Unit:mm

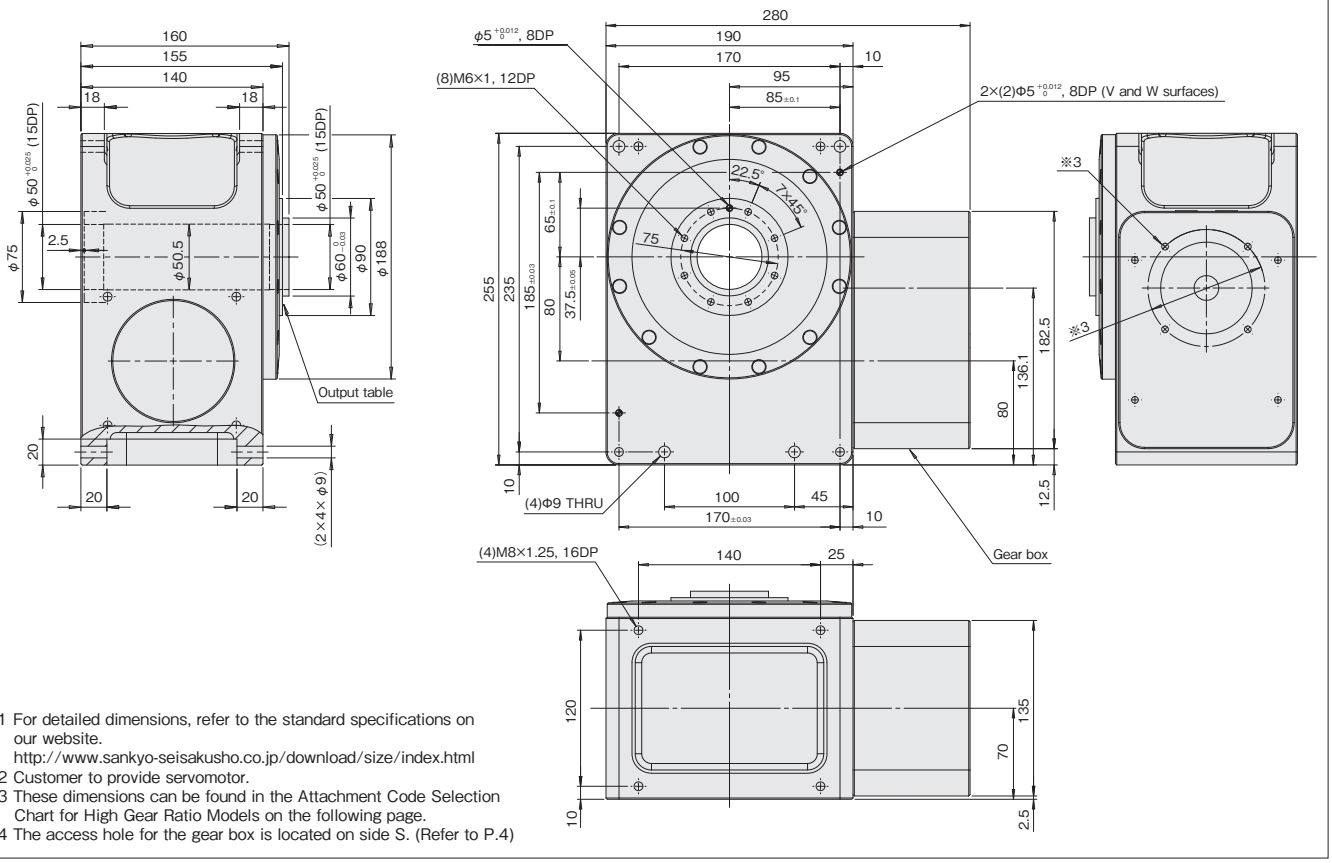


Attachment code	※5 Dimensions	※6 Dimensions
A□	64.5	□95
B□		
C□	68	
D□	72	
E□		
F□	90	□135
G□		
H□		
J□	68	□95
K□	72	

※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=60〕 RU80

Unit:mm



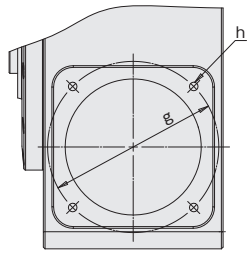
※1 For detailed dimensions, refer to the standard specifications on our website.
http://www.sankyo-seisakusho.co.jp/download/size/index.html
※2 Customer to provide servomotor.
※3 These dimensions can be found in the Attachment Code Selection Chart for High Gear Ratio Models on the following page.
※4 The access hole for the gear box is located on side S. (Refer to P.4)

RU80 Dimensions

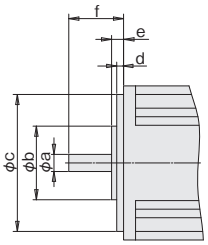
Attachment Code Selection Chart Standard Gear Ratio Models [Gear ratio=20] With Attachment RU80

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

Unit:mm



Motor mounting dimensions on the RU



Mountable Motor Dimensions

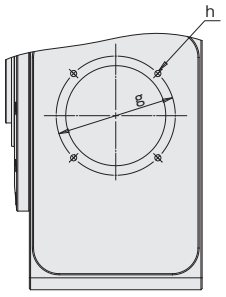
Attachment code	a	b	c	d	e	f	g	h	Max motor torque
A□	$\phi 10^{0}_{-0.009}$	Less than ϕ65	ϕ80	Less than 5	Less than 16.7	32～34	100	(4)M6×1, 9DP	16.66N·m
B□	$\phi 14^{0}_{-0.011}$			Less than 6	Less than 20.2	36.5～37.5		(4)M6×1, 13DP	
C□									
D□	$\phi 16^{0}_{-0.011}$				Less than 24.2	40～41.5		(4)M6×1, 17DP	
E□	$\phi 19^{0}_{-0.013}$		ϕ70	Less than 5			90	(4)M6×1, 12DP	
F□		Less than ϕ75	ϕ110	Less than 7	Less than 32.3	55～59.5	145	(4)M8×1.25, 15DP	53.33N·m
G□	$\phi 22^{0}_{-0.013}$								
H□	$\phi 24^{0}_{-0.013}$								
	$\phi 24^{0}_{-0.021}$								
J□	$\phi 16^{0}_{-0.011}$	Less than ϕ65	ϕ80	Less than 6	Less than 20.2	36.5～37.5	100	(4)M6×1, 13DP	16.66N·m
K□			ϕ70	Less than 5	Less than 24.2	40～41.5	90	(4)M6×1, 12DP	

※1 The most common servomotors suitable for these models are given on pages 19 to 20.

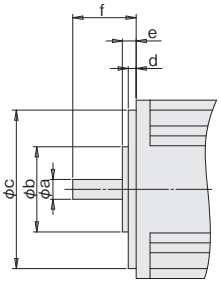
Attachment Code Selection Chart High Gear Ratio Models [Gear ratio=60] With Attachment RU80

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

Unit:mm



Motor mounting dimensions on the RU



Mountable Motor Dimensions

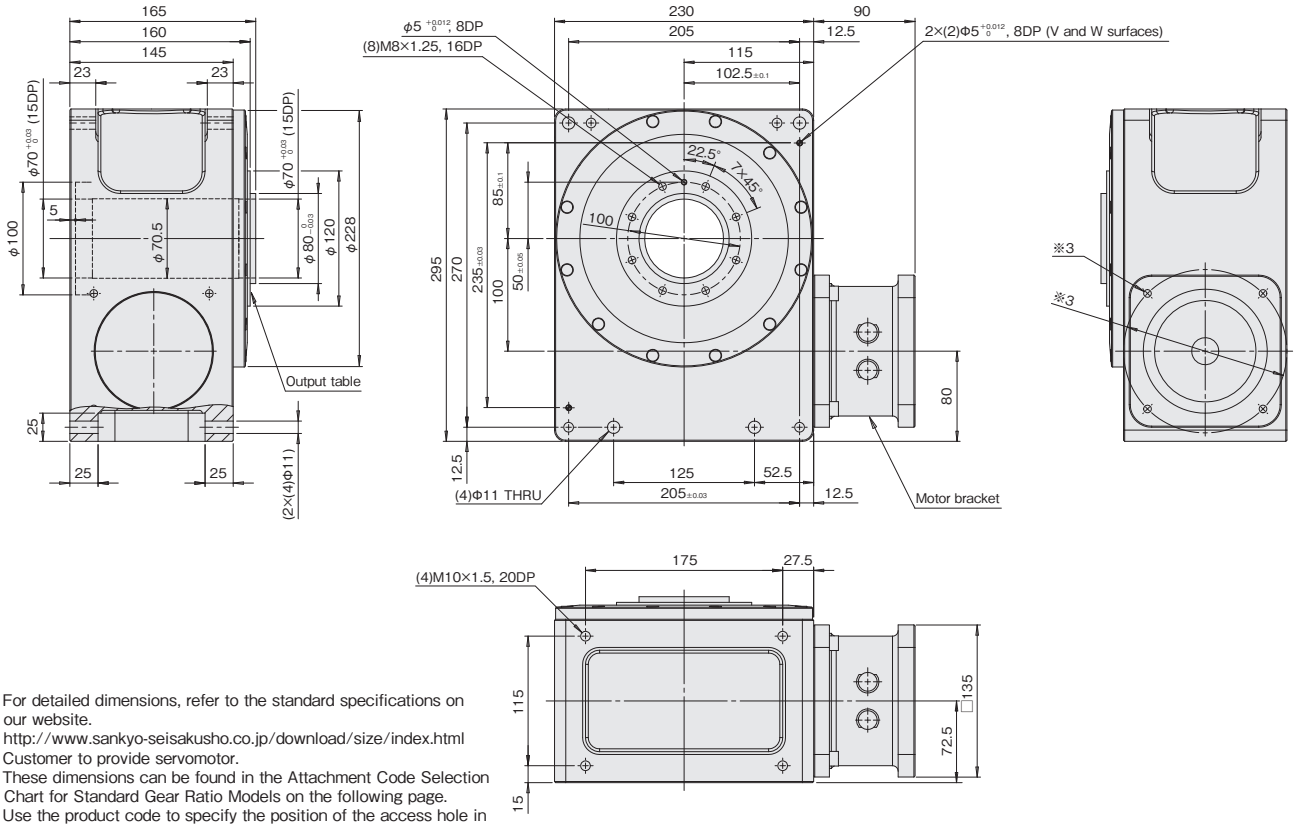
Attachment code	a	b	c	d	e	f	g	h	Max motor torque
AS	$\phi 10^{0}_{-0.009}$	Less than ϕ65	ϕ80	Less than 7	Less than 12.5	30～50.5	100	(4)M6×1, 12DP	13.59N·m
BS	$\phi 14^{0}_{-0.011}$								
CS	$\phi 16^{0}_{-0.011}$								
DS	$\phi 19^{0}_{-0.013}$								
ES	$\phi 14^{0}_{-0.011}$		ϕ70				90		
FS	$\phi 16^{0}_{-0.011}$								

※1 The most common servomotors suitable for these models are given on page 20.

RU100 Dimensions

Standard Gear Ratio Model Dimension Drawings〔Gear ratio=20〕 RU100

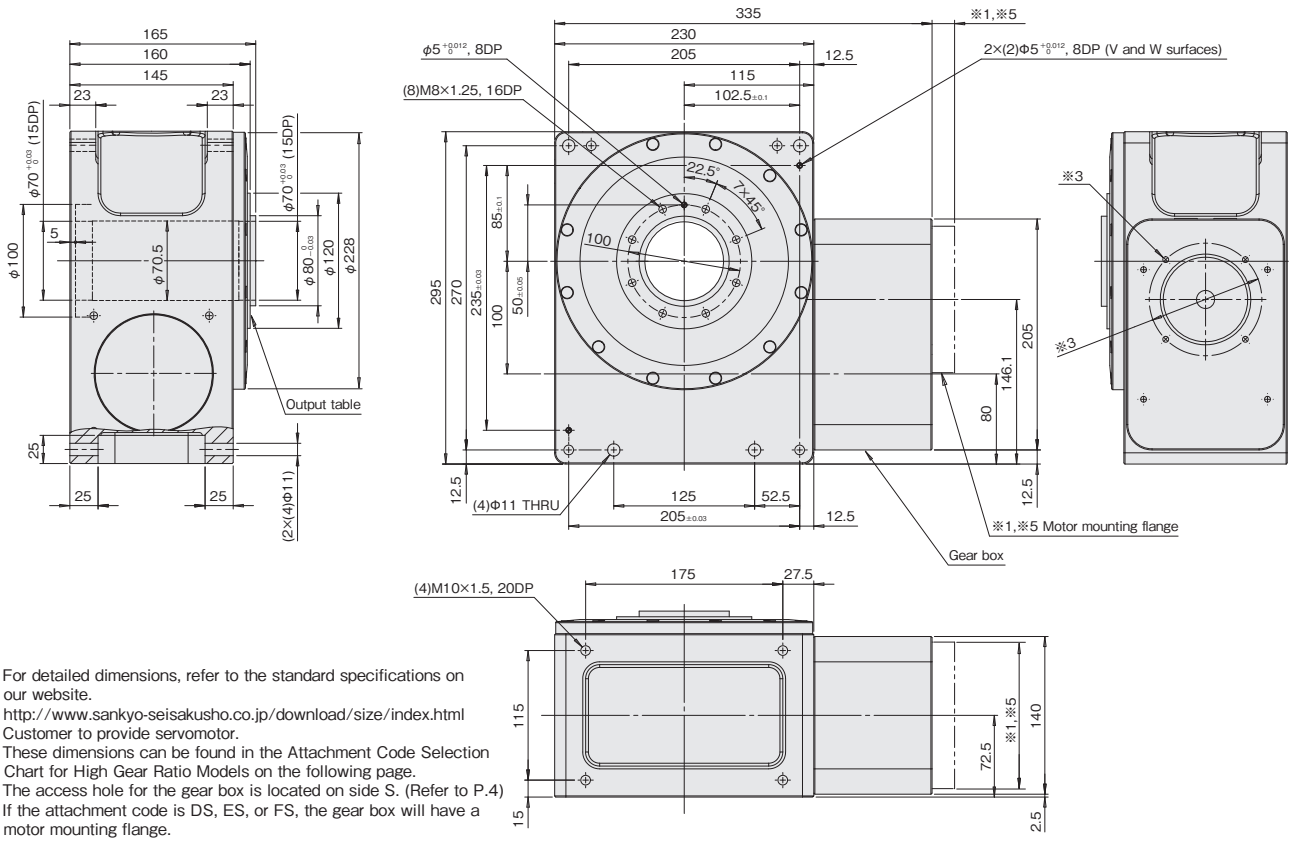
Unit:mm



※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 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=60〕 RU100

Unit:mm



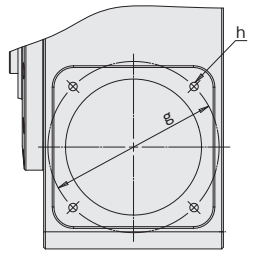
※1 For detailed dimensions, refer to the standard specifications on our website.
http://www.sankyo-seisakusho.co.jp/download/size/index.html
※2 Customer to provide servomotor.
※3 These dimensions can be found in the Attachment Code Selection Chart for High Gear Ratio Models on the following page.
※4 The access hole for the gear box is located on side S. (Refer to P.4)
※5 If the attachment code is DS, ES, or FS, the gear box will have a motor mounting flange.

RU100 Dimensions

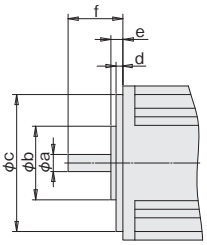
Attachment Code Selection Chart Standard Gear Ratio Models [Gear ratio=20] With Attachment RU100

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

Unit:mm



Motor mounting dimensions on the RU



Mountable Motor Dimensions

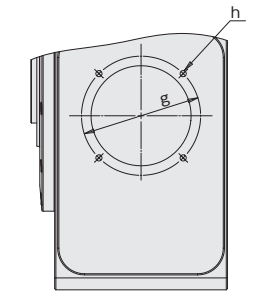
Attachment code	a	b	c	d	e	f	g	h	Max motor torque
B□	$\phi 19^{0}_{-0.013}$	Less than ϕ90	ϕ110	Less than 7	Less than 33.3	55～60	145	(4)M8×1.25, 15DP	53.33N·m
C□	$\phi 22^{0}_{-0.013}$								
D□	$\phi 24^{0}_{-0.013}$								
	$\phi 24^{0}_{-0.021}$								

※1 The most common servomotors suitable for these models are given on page 21.

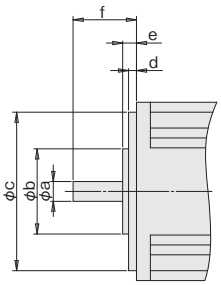
Attachment Code Selection Chart High Gear Ratio Models [Gear ratio=60] With Attachment RU100

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

Unit:mm



Motor mounting dimensions on the RU



Mountable Motor Dimensions

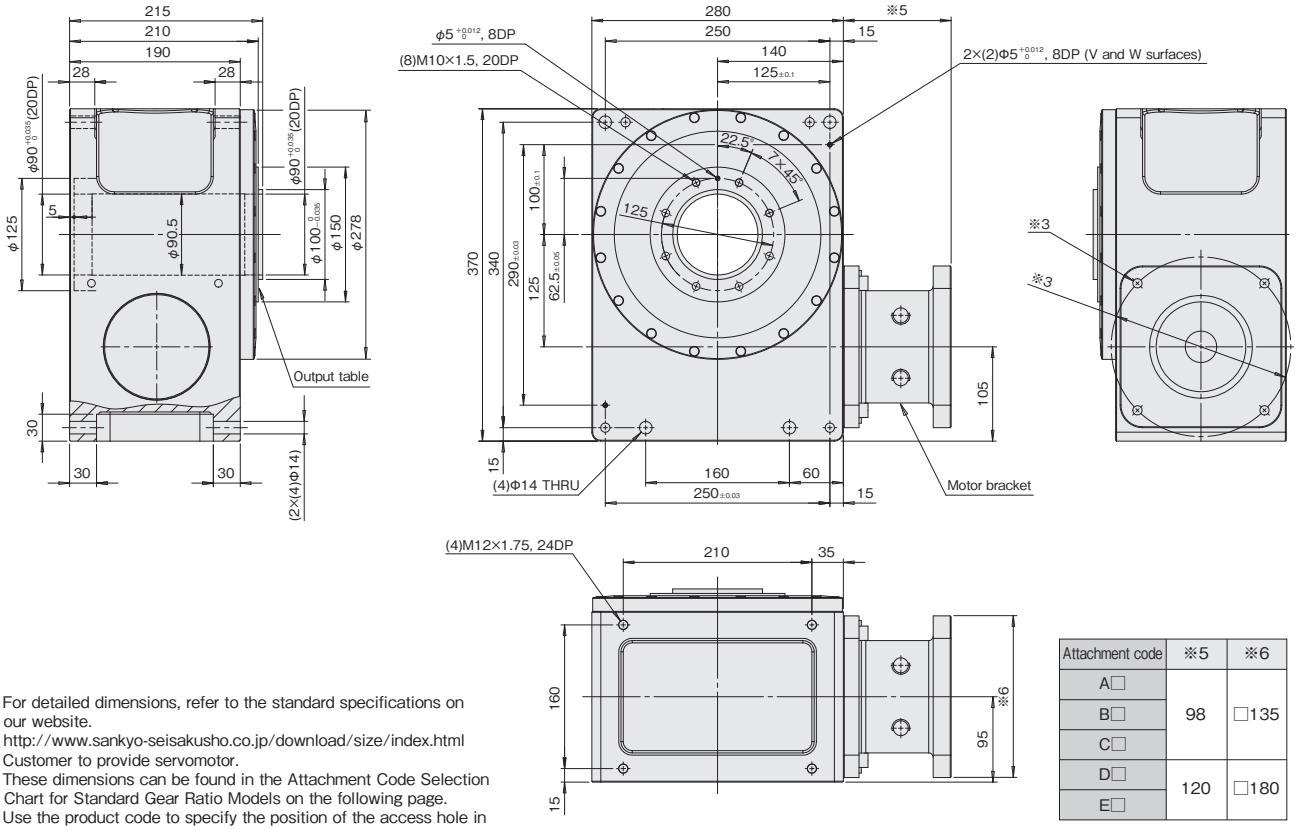
Attachment code	a	b	c	d	e	f	g	h	Max motor torque
AS	$\phi 10^{0}_{-0.009}$	-	ϕ80	Less than 9.5	-	30～50	100	(4)M6×1, 12DP	29.81N·m
BS	$\phi 14^{0}_{-0.011}$								
CS	$\phi 16^{0}_{-0.011}$								
DS	$\phi 19^{0}_{-0.013}$		ϕ110	Less than 7		50～60	145	(4)M8×1.25, 16DP	
ES	$\phi 22^{0}_{-0.013}$								
FS	$\phi 24^{0}_{-0.021}$								
	$\phi 24^{0}_{-0.013}$								

※1 The most common servomotors suitable for these models are given on pages 22 to 23.
※2 If the attachment code is DS, ES, or FS, the gear box will have a motor mounting flange.
For detailed dimensions, refer to the standard specifications on our website.
http://www.sankyo-seisakusho.co.jp/download/size/index.html

RU125 Dimensions

Standard Gear Ratio Model Dimension Drawings〔Gear ratio=20〕 RU125

Unit:mm

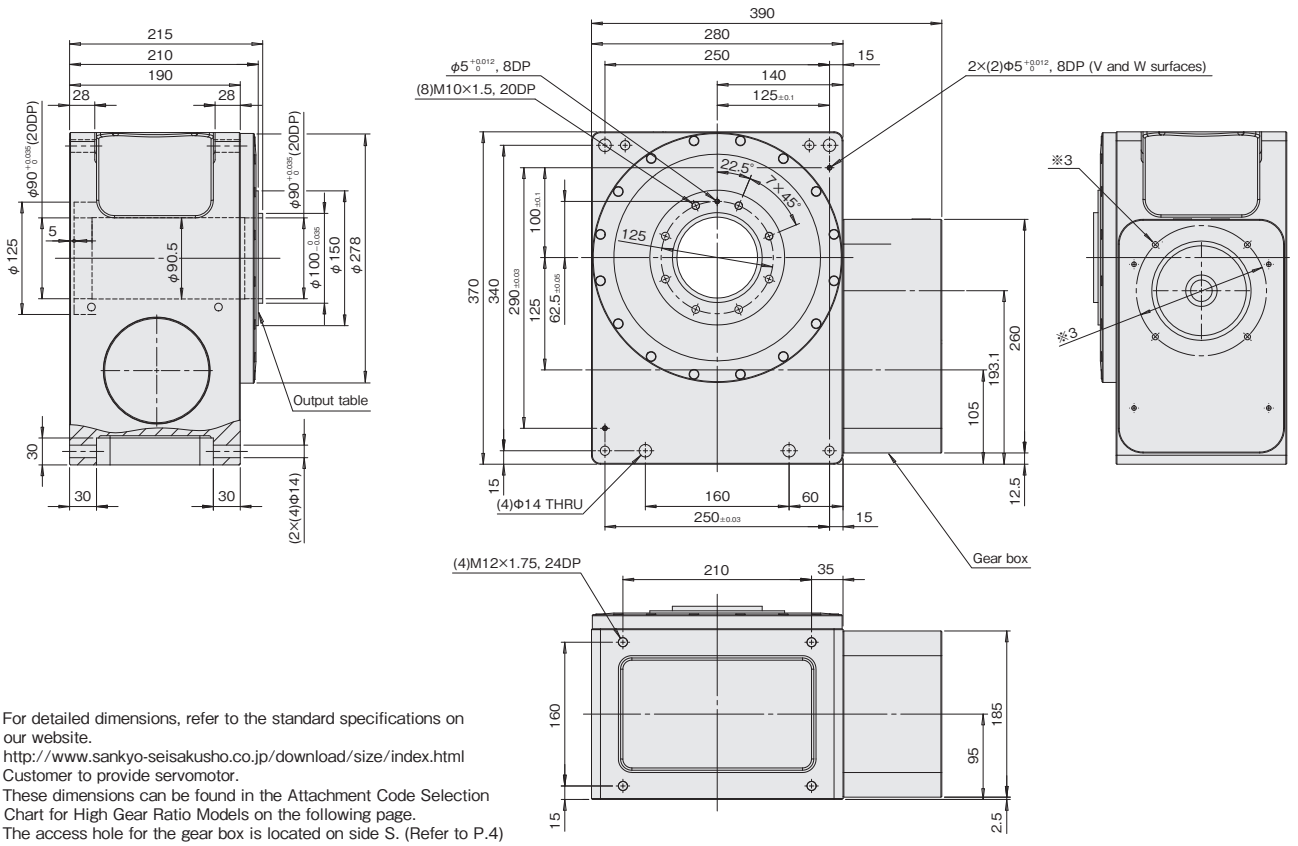


Attachment code	※5	※6
A□	98	□135
B□		
C□		
D□	120	□180
E□		

※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=60〕 RU125

Unit:mm



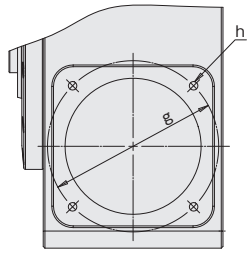
※1 For detailed dimensions, refer to the standard specifications on our website.
http://www.sankyo-seisakusho.co.jp/download/size/index.html
※2 Customer to provide servomotor.
※3 These dimensions can be found in the Attachment Code Selection Chart for High Gear Ratio Models on the following page.
※4 The access hole for the gear box is located on side S. (Refer to P.4)

RU125 Dimensions

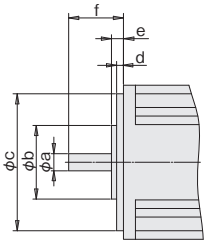
Attachment Code Selection Chart Standard Gear Ratio Models [Gear ratio=20] With Attachment RU125

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

Unit:mm



Motor mounting dimensions on the RU



Mountable Motor Dimensions

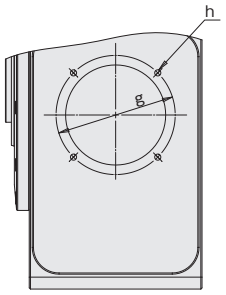
Attachment code	a	b	c	d	e	f	g	h	Max motor torque
A□	$\phi 19^{0}_{-0.013}$	Less than ϕ90	ϕ110	Less than 7	Less than 31.3	55～61	145	(4)M8×1.25, 20DP	53.33N·m
B□	$\phi 22^{0}_{-0.013}$								
C□	$\phi 24^{0}_{-0.013}$								
	$\phi 24^{0}_{-0.021}$								
D□	$\phi 35^{+0.010}_{0}$	Less than ϕ100	ϕ114.3		Less than 47.8	79～83	200	(4)M12×1.75, 20DP	86.66N·m
	$\phi 35^{0}_{-0.016}$								
E□	$\phi 35^{+0.010}_{0}$								133.33N·m

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

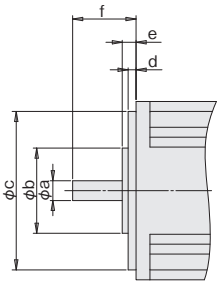
Attachment Code Selection Chart High Gear Ratio Models [Gear ratio=60] With Attachment RU125

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

Unit:mm



Motor mounting dimensions on the RU



Mountable Motor Dimensions

Attachment code	a	b	c	d	e	f	g	h	Max motor torque
AS	$\phi 19^{0}_{-0.013}$	-	ϕ110	Less than 6.5	-	50～65.5	145	(4)M8×1.25, 16DP	45.28N·m
BS	$\phi 22^{0}_{-0.013}$								
CS	$\phi 24^{0}_{-0.013}$								

※1 The most common servomotors suitable for these models are given on pages 24 to 25.

Compatible Servomotor Models

RU40 Standard gear ratio model (Gear ratio=15)

Manufacture	Servo series	Motor	Rated output [kW]	Rated torque [N・m]	Rated rotation speed [min^{-1}]	Motor rotor inertia [$x10^{-4}kg・m^2$]	Motor mounting code
KEYENCE	SV	SV-M040	0.40	1.27	3,000	0.44	B□
SANYO DENKI	R2	R2AA06040F	0.40	1.27	3,000	0.41	B□
		R2AA06040H	0.40	1.27	3,000	0.41	B□
FANUC	β	βiS1/6000	0.50	1.20	6,000	0.34	B□
Fuji Electric	GYB	GYB401D5	0.40	1.27	3,000	0.42	B□
	GYS	GYS401D5	0.40	1.27	3,000	0.25	B□
Mitsubishi Electric	CNC	HF-KP43	0.40	1.30	3,000	0.42	B□
	J4	HG-KR43	0.40	1.30	3,000	0.37	B□
	J5	HK-KT43W	0.40	1.30	3,000	0.41	B□
Yaskawa Electric	Σ-V	SGMAV-04A	0.40	1.27	3,000	0.19	B□
		SGMAV-06A	0.55	1.75	3,000	0.33	B□
		SGMJV-04A	0.40	1.27	3,000	0.44	B□
		SGMJV-06A	0.60	1.91	3,000	0.67	B□
	Σ-7	SGM7A-04A	0.40	1.27	3,000	0.22	B□
		SGM7A-06A	0.60	1.91	3,000	0.32	B□
		SGM7J-04A	0.40	1.27	3,000	0.49	B□
		SGM7J-06A	0.60	1.91	3,000	0.80	B□

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.

RU40 High gear ratio model (Gear ratio=45)

Manufacture	Servo series	Motor	Rated output [kW]	Rated torque [N・m]	Rated rotation speed [min^{-1}]	Motor rotor inertia [$x10^{-4}kg・m^2$]	Motor mounting code
OMRON	G	R88M-G10030H	0.10	0.32	3,000	0.05	AS
		R88M-G10030L	0.10	0.32	3,000	0.05	AS
	G5	R88M-K10030H	0.10	0.32	3,000	0.05	AS
		R88M-K10030L	0.10	0.32	3,000	0.05	AS
KEYENCE	SV	SV-M010	0.10	0.31	3,000	0.07	AS
SANYO DENKI	R2	R2AA04010F	0.10	0.31	3,000	0.06	AS
Mitsubishi Electric	J4	HG-KR13	0.10	0.32	3,000	0.08	AS
	J5	HK-KT13W	0.10	0.32	3,000	0.07	AS
Yaskawa Electric	Σ-V	SGMJV-01A	0.10	0.31	3,000	0.07	AS
		SGMAV-C2A	0.15	0.47	3,000	0.05	AS
		SGMJV-C2A	0.15	0.47	3,000	0.09	AS
	Σ-7	SGM7J-01A	0.10	0.32	3,000	0.07	AS
		SGM7A-C2A	0.15	0.48	3,000	0.05	AS
		SGM7J-C2A	0.15	0.48	3,000	0.09	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.

RU63 Standard gear ratio model (Gear ratio=20)

Manufacture	Servo series	Motor	Rated output [kW]	Rated torque [N・m]	Rated rotation speed [min^{-1}]	Motor rotor inertia [$x10^{-4}kg・m^2$]	Motor mounting code
KEYENCE	SV	SV-M075	0.75	2.39	3,000	1.57	E□
SANYO DENKI	R2	R2AAB8075F	0.75	2.38	3,000	1.64	F□
		R2AA08075F	0.75	2.39	3,000	1.82	G□
		R2AAB8100F	1.00	3.18	3,000	2.38	F□
		R2AAB8100H	1.00	3.18	3,000	2.38	F□
FANUC	α	αiF1/5000	0.50	1.00	5,000	3.05	A□
		αiF2/5000	0.75	2.00	4,000	5.26	A□
		αis2/5000	0.75	2.00	4,000	2.91	A□
		αis2/6000	1.00	2.00	6,000	2.91	A□
	β	βiS2/4000	0.50	2.00	4,000	2.91	A□
Fuji Electric	GYB	GYB751D5	0.75	2.39	3,000	1.43	E□
	GYS	GYS751D5	0.75	2.39	3,000	0.85	G□
Mitsubishi Electric	CNC	HF-75	0.75	1.80	4,000	2.80	B□
		HF-105	1.00	2.40	4,000	5.10	B□
		HF-H75	0.75	1.80	4,000	2.60	B□
		HF-H105	1.00	2.40	4,000	5.10	B□
	J4	HG-MR73	0.75	2.40	3,000	0.59	E□
		HG-KR73	0.75	2.40	3,000	1.26	E□
	J5	HK-KT7M3W	0.75	2.40	3,000	1.37	E□

RU63 Standard gear ratio model (Gear ratio=20)

Manufacture	Servo series	Motor	Rated output [kW]	Rated torque [N・m]	Rated rotation speed [min^{-1}]	Motor rotor inertia [$x10^{-4}kg・m^2$]	Motor mounting code
Yaskawa Electric	Σ-V	SGMAV-08A	0.75	2.39	3,000	0.77	E□
		SGMAV-10A	1.00	3.18	3,000	1.20	E□
		SGMGV-03A	0.30	1.96	1,500	2.48	C□
		SGMGV-05A	0.45	2.86	1,500	3.33	D□
		SGMJV-08A	0.75	2.39	3,000	1.57	E□
	Σ-7	SGM7G-03A	0.30	1.96	1,500	2.48	D□
		SGM7G-05A	0.45	2.86	1,500	3.33	D□
		SGM7A-08A	0.75	2.39	3,000	0.78	E□
		SGM7J-08A	0.75	2.39	3,000	1.59	E□
		SGM7A-10A	1.00	3.18	3,000	0.97	E□

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.

RU63 High gear ratio model (Gear ratio=60)

Manufacture	Servo series	Motor	Rated output [kW]	Rated torque [N・m]	Rated rotation speed [min^{-1}]	Motor rotor inertia [$x10^{-4}kg・m^2$]	Motor mounting code
KEYENCE	SV	SV-M020	0.20	0.63	3,000	0.26	BS
		SV-M040	0.40	1.27	3,000	0.44	BS
SANYO DENKI	R2	R2AA06020F	0.20	0.63	3,000	0.22	BS
		R2AA06040F	0.40	1.27	3,000	0.41	BS
		R2AA06040H	0.40	1.27	3,000	0.41	BS
FANUC	β	βiS0.5/6000	0.35	0.65	6,000	0.18	AS
		βiS1/6000	0.50	1.20	6,000	0.34	BS
Fuji Electric	GYB	GYB201D5	0.20	0.63	3,000	0.24	BS
		GYB401D5	0.40	1.27	3,000	0.42	BS
	GYS	GYS201D5	0.20	0.63	3,000	0.14	BS
		GYS401D5	0.40	1.27	3,000	0.25	BS
Mitsubishi Electric	CNC	HF-KP23	0.20	0.64	3,000	0.23	BS
		HF-KP43	0.40	1.30	3,000	0.42	BS
	J4	HG-KR23	0.20	0.64	3,000	0.22	BS
		HG-KR43	0.40	1.30	3,000	0.37	BS
	J5	HK-KT23W	0.20	0.64	3,000	0.21	BS
		HK-KT43W	0.40	1.30	3,000	0.41	BS
Yaskawa Electric	Σ-V	SGMJV-02A	0.20	0.63	3,000	0.26	BS
		SGMAV-04A	0.40	1.27	3,000	0.19	BS
		SGMJV-04A	0.40	1.27	3,000	0.44	BS
		SGMAV-06A	0.55	1.75	3,000	0.33	BS
		SGMJV-06A	0.60	1.91	3,000	0.67	BS
	Σ-7	SGM7J-02A	0.20	0.64	3,000	0.26	BS
		SGM7A-04A	0.40	1.27	3,000	0.22	BS
		SGM7J-04A	0.40	1.27	3,000	0.49	BS
		SGM7A-06A	0.60	1.91	3,000	0.32	BS
		SGM7J-06A	0.60	1.91	3,000	0.80	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

RU80 Standard gear ratio model (Gear ratio=20)

Manufacture	Servo series	Motor	Rated output [kW]	Rated torque [N・m]	Rated rotation speed [min^{-1}]	Motor rotor inertia [$x10^{-4}kg・m^2$]	Motor mounting code
OMRON	G	R88M-G1K020T	1.00	4.80	2,000	6.17	G□
		R88M-G1K520T	1.50	7.15	2,000	11.20	G□
		R88M-G2K020T	2.00	9.54	2,000	15.20	G□
		R88M-G3K030T	3.00	9.54	3,000	6.77	G□
	G5	R88M-K1K020F	1.00	4.77	2,000	4.60	G□
		R88M-K1K020H	1.00	4.77	2,000	4.60	G□
		R88M-K1K520F	1.50	7.16	2,000	6.70	G□
		R88M-K1K520H	1.50	7.16	2,000	6.70	G□
		R88M-K2K020F	2.00	9.55	2,000	8.72	G□
		R88M-K2K020H	2.00	9.55	2,000	8.72	G□
		R88M-K3K030H	3.00	9.55	3,000	6.50	G□
		R88M-K3K030F	3.00	9.55	3,000	6.50	G□
KEYENCE	SV	SV-M075	0.75	2.39	3,000	1.57	E□
		SV-M100A	0.85	5.39	1,500	13.90	F□
		SV-M150A	1.30	8.34	1,500	19.90	G□
		SV-M200A	1.80	11.5	1,500	26.00	H□
SANYO DENKI	R2	R2AA13050D	0.55	2.60	2,000	3.10	G□
		R2AA13050H	0.55	2.60	2,000	3.10	G□
		R2AA13120B	1.20	5.70	2,000	6.00	G□
		R2AA13120D	1.20	5.70	2,000	6.00	G□
		R2AA13120L	1.20	5.70	2,000	6.00	G□
		R2AA13180D	1.80	8.60	2,000	9.00	G□
		R2AA13180H	1.80	8.60	2,000	9.00	G□
		R2AAB8075F	0.75	2.38	3,000	1.64	J□
		R2AA08075F	0.75	2.39	3,000	1.82	K□
		R2AAB8100F	1.00	3.18	3,000	2.38	J□
		R2AAB8100H	1.00	3.18	3,000	2.38	J□
Panasonic	MINAS_A5	MDME102_C	1.00	4.77	2,000	4.60	G□
		MDME152_C	1.50	7.16	2,000	6.70	G□
		MDME202_C	2.00	9.55	2,000	8.72	G□
		MSME302_C	3.00	9.55	3,000	6.50	G□
FANUC	α	αiF1/5000	0.50	1.00	5,000	3.05	A□
		αiF2/5000	0.75	2.00	4,000	5.26	A□
		αiF4/5000	1.40	4.00	4,000	13.50	F□
		αiF8/3000	1.60	8.00	3,000	25.70	F□
		αis2/5000	0.75	2.00	4,000	2.91	A□
		αis2/6000	1.00	2.00	6,000	2.91	A□
		αis8/6000	2.20	8.00	6,000	11.70	F□
		αis8/4000	2.50	8.00	4,000	11.70	F□
		αis12/4000	2.70	12.00	3,000	22.80	H□
	β	βiS2/4000	0.50	2.00	4,000	2.91	A□
		βiS8/3000	1.20	7.00	2,000	11.70	F□
		βiS12/2000	1.40	10.50	2,000	22.80	H□
		βiS12/3000	1.80	11.00	2,000	22.80	H□
Fuji Electric	GYB	GYB751D5	0.75	2.39	3,000	1.43	E□
	GYC	GYC102D5	1.00	3.18	3,000	3.19	H□
		GYC152D5	1.50	4.78	3,000	4.44	H□
		GYC202D5	2.00	6.37	3,000	5.69	H□
	GYG	GYG102C5	1.00	4.77	2,000	15.14	G□
		GYG132B5	1.30	8.28	1,500	22.33	G□
		GYG152C5	1.50	7.16	2,000	22.33	G□
		GYG202C5	2.00	9.55	2,000	29.51	G□
		GYG501B5	0.50	3.18	1,500	11.55	F□
		GYG501C5	0.50	2.39	2,000	7.96	F□
		GYG751C5	0.75	3.58	2,000	11.55	F□
		GYG851B5	0.85	5.41	1,500	15.15	F□
Mitsubishi Electric	CNC	HC152	1.50	7.16	2,000	20.00	H□
		HC153	1.50	4.77	3,000	20.00	H□
		HF-54	0.50	1.60	3,000	6.10	H□
		HF-75	0.75	1.80	4,000	2.80	B□
		HF-104	1.00	3.20	3,000	11.90	H□
		HF-105	1.00	2.40	4,000	5.10	B□
		HF-123	1.20	5.70	2,000	11.90	H□
		HF-142	1.40	6.70	2,000	17.80	H□
		HF-154	1.50	4.80	3,000	17.80	H□
		HF-223	2.20	10.50	2,000	23.70	H□

RU80 Standard gear ratio model (Gear ratio=20)

Manufacture	Servo series	Motor	Rated output [kW]	Rated torque [N・m]	Rated rotation speed [min^{-1}]	Motor rotor inertia [x10^{-4}kg・m^2]	Motor mounting code
Mitsubishi Electric	CNC	HF-224	2.20	7.00	3,000	23.70	H□
		HF-H54	0.50	1.60	3,000	6.10	H□
		HF-H75	0.75	1.80	4,000	2.60	B□
		HF-H104	1.00	3.20	3,000	11.90	H□
		HF-H105	1.00	2.40	4,000	5.10	B□
		HF-H154	1.50	4.80	3,000	17.80	H□
		HP-54	0.50	1.60	3,000	4.60	H□
		HP-104	1.00	3.20	3,000	7.70	H□
		HP-154	1.50	4.80	3,000	12.00	H□
		HP-224	2.20	6.40	3,000	20.00	H□
		HP-H54	0.50	1.60	3,000	4.60	H□
		HP-H104	1.00	3.20	3,000	7.70	H□
		HP-H154	1.50	4.80	3,000	12.00	H□
		HP-H224	2.20	6.40	3,000	20.00	H□
	J4	HG-KR73	0.75	2.40	3,000	1.26	E□
		HG-SR51	0.50	4.80	1,000	11.60	H□
		HG-SR52	0.50	2.40	2,000	7.26	H□
		HG-SR524	0.50	2.40	2,000	7.26	H□
		HG-SR102	1.00	4.80	2,000	11.60	H□
		HG-SR1024	1.00	4.80	2,000	11.60	H□
		HG-SR152	1.50	7.20	2,000	16.00	H□
		HG-SR1524	1.50	7.20	2,000	16.00	H□
		HG-SR81	0.85	8.10	1,000	16.00	H□
	J5	HK-KT7M3W	0.75	2.40	3,000	1.37	E□
		HK-ST52W	0.50	2.40	2,000	5.90	H□
		HK-ST1724W	0.85	8.10	1,000	11.40	H□
		HK-ST102W	1.00	4.80	2,000	8.65	H□
Yaskawa Electric	Σ - V	SGMAV-10A	1.00	3.18	3,000	1.20	E□
		SGMGV-03A	0.30	1.96	1,500	2.48	C□
		SGMGV-05A	0.45	2.86	1,500	3.33	D□
		SGMGV-09A	0.85	5.39	1,500	13.90	F□
		SGMGV-13A	1.30	8.34	1,500	19.90	G□
		SGMGV-20A	1.80	11.5	1,500	26.00	H□
		SGMJV-08A	0.75	2.39	3,000	1.57	E□
	Σ -7	SGM7G-03A	0.30	1.96	1,500	2.48	D□
		SGM7G-05A	0.45	2.86	1,500	3.33	D□
		SGM7J-08A	0.75	2.39	3,000	1.59	E□
		SGM7G-09A	0.85	5.39	1,500	13.90	H□
		SGM7A-10A	1.00	3.18	3,000	0.97	E□
		SGM7G-13A	1.30	8.34	1,500	19.90	H□
		SGM7G-20A	1.80	11.50	1,500	26.00	H□

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.

RU80 High gear ratio model (Gear ratio=60)

Manufacture	Servo series	Motor	Rated output [kW]	Rated torque [N・m]	Rated rotation speed [min^{-1}]	Motor rotor inertia [x10^{-4}kg・m^2]	Motor mounting code
KEYENCE	SV	SV-M075	0.75	2.39	3,000	1.57	DS
SANYO DENKI	R2	R2AAB8075F	0.75	2.38	3,000	1.64	CS
		R2AAB8100F	1.00	3.18	3,000	2.38	CS
		R2AAB8100H	1.00	3.18	3,000	2.38	CS
		R2AA08020F	0.20	0.63	3,000	0.52	ES
		R2AA08075F	0.75	2.39	3,000	1.82	FS
FANUC	α	αiF1/5000	0.50	1.00	5,000	3.05	AS
		αiF2/5000	0.75	2.00	4,000	5.26	AS
		αis2/5000	0.75	2.00	4,000	2.91	AS
		αis2/6000	1.00	2.00	6,000	2.91	AS
	β	βiS2/4000	0.50	2.00	4,000	2.91	AS
Fuji Electric	GYB	GYB751D5	0.75	2.39	3,000	1.43	DS
	GYC	GYC201D5	0.20	0.63	3,000	0.21	ES
		GYC401D5	0.40	1.27	3,000	0.41	ES
	GYS	GYS751D5	0.75	2.39	3,000	0.85	FS

Compatible Servomotor Models

RU80 High gear ratio model (Gear ratio=60)

Manufacture	Servo series	Motor	Rated output [kW]	Rated torque [N・m]	Rated rotation speed [min^{-1}]	Motor rotor inertia [$x10^{-4}kg・m^2$]	Motor mounting code
Mitsubishi Electric	CNC	HF-75	0.75	1.80	4,000	2.80	BS
		HF-105	1.00	2.40	4,000	5.10	BS
		HF-H75	0.75	1.80	4,000	2.60	BS
		HF-H105	1.00	2.40	4,000	5.10	BS
	J4	HG-KR73	0.75	2.40	3,000	1.26	DS
		HG-MR73	0.75	2.40	3,000	0.59	DS
	J5	HK-KT7M3W	0.75	2.40	3,000	1.37	DS
Yaskawa Electric	Σ-V	SGMAV-08A	0.75	2.39	3,000	0.77	DS
		SGMAV-10A	1.00	3.18	3,000	1.20	DS
		SGMGV-03A	0.30	1.96	1,500	2.48	BS
		SGMGV-05A	0.45	2.86	1,500	3.33	CS
		SGMJV-08A	0.75	2.39	3,000	1.57	DS
	Σ-7	SGM7G-03A	0.30	1.96	1,500	2.48	CS
		SGM7G-05A	0.45	2.86	1,500	3.33	CS
		SGM7A-08A	0.75	2.39	3,000	0.78	DS
		SGM7J-08A	0.75	2.39	3,000	1.59	DS
		SGM7A-10A	1.00	3.18	3,000	0.97	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.

RU100 Standard gear ratio model (Gear ratio=20)

Manufacture	Servo series	Motor	Rated output [kW]	Rated torque [N・m]	Rated rotation speed [min^{-1}]	Motor rotor inertia [$x10^{-4}kg・m^2$]	Motor mounting code
OMRON	G	R88M-G1K020T	1.00	4.80	2,000	6.17	C□
		R88M-G1K520T	1.50	7.15	2,000	11.20	C□
		R88M-G2K020T	2.00	9.54	2,000	15.20	C□
		R88M-G3K030T	3.00	9.54	3,000	6.77	C□
	G5	R88M-K1K020F	1.00	4.77	2,000	4.60	C□
		R88M-K1K020H	1.00	4.77	2,000	4.60	C□
		R88M-K1K520F	1.50	7.16	2,000	6.70	C□
		R88M-K1K520H	1.50	7.16	2,000	6.70	C□
		R88M-K2K020F	2.00	9.55	2,000	8.72	C□
		R88M-K2K020H	2.00	9.55	2,000	8.72	C□
		R88M-K3K030F	3.00	9.55	3,000	6.50	C□
		R88M-K3K030H	3.00	9.55	3,000	6.50	C□
KEYENCE	SV	SV-M100A	0.85	5.39	1,500	13.90	B□
		SV-M150A	1.30	8.34	1,500	19.90	C□
		SV-M200A	1.80	11.50	1,500	26.00	D□
SANYO DENKI	R2	R2AA13050D	0.55	2.60	2,000	3.10	C□
		R2AA13050H	0.55	2.60	2,000	3.10	C□
		R2AA13120B	1.20	5.70	2,000	6.00	C□
		R2AA13120D	1.20	5.70	2,000	6.00	C□
		R2AA13120L	1.20	5.70	2,000	6.00	C□
		R2AA13180D	1.80	8.60	2,000	9.00	C□
		R2AA13180H	1.80	8.60	2,000	9.00	C□
Panasonic	MINAS_A5	MDME102_C	1.00	4.77	2,000	4.60	C□
		MDME152_C	1.50	7.16	2,000	6.70	C□
		MDME202_C	2.00	9.55	2,000	8.72	C□
		MSME302_C	3.00	9.55	3,000	6.50	C□
FANUC	α	αiF4/5000	1.40	4.00	4,000	13.50	B□
		αiF8/3000	1.60	8.00	3,000	25.70	B□
		αis8/4000	2.50	8.00	4,000	11.70	B□
		αis8/6000	2.20	8.00	6,000	11.70	B□
		αis12/4000	2.70	12.00	3,000	22.80	D□
	β	βiS8/3000	1.20	7.00	2,000	11.70	B□
		βiS12/2000	1.40	10.50	2,000	22.80	D□
		βiS12/3000	1.80	11.00	2,000	22.80	D□

RU100 Standard gear ratio model (Gear ratio=20)

Manufacture	Servo series	Motor	Rated output [kW]	Rated torque [N・m]	Rated rotation speed [min^{-1}]	Motor rotor inertia [x10^{-4}kg・m^2]	Motor mounting code
Fuji Electric	GYC	GYC102D5	1.00	3.18	3,000	3.19	D□
		GYC152D5	1.50	4.78	3,000	4.44	D□
		GYC202D5	2.00	6.37	3,000	5.69	D□
	GYG	GYG102C5	1.00	4.77	2,000	15.14	C□
		GYG132B5	1.30	8.28	1,500	22.33	C□
		GYG152C5	1.50	7.16	2,000	22.33	C□
		GYG202C5	2.00	9.55	2,000	29.51	C□
		GYG501B5	0.50	3.18	1,500	11.55	B□
		GYG501C5	0.50	2.39	2,000	7.96	B□
		GYG751C5	0.75	3.58	2,000	11.55	B□
		GYG851B5	0.85	5.41	1,500	15.15	B□
Mitsubishi Electric	CNC	HC152	1.50	7.16	2,000	20.00	D□
		HC153	1.50	4.77	3,000	20.00	D□
		HF-123	1.20	5.70	2,000	11.90	D□
		HF-142	1.40	6.70	2,000	17.80	D□
		HF-154	1.50	4.80	3,000	17.80	D□
		HF-223	2.20	10.50	2,000	23.70	D□
		HF-224	2.20	7.00	3,000	23.70	D□
		HF-H154	1.50	4.80	3,000	17.80	D□
		HP-154	1.50	4.80	3,000	12.00	D□
		HP-224	2.20	6.40	3,000	20.00	D□
		HP-H154	1.50	4.80	3,000	12.00	D□
		HP-H224	2.20	6.40	3,000	20.00	D□
	J4	HG-SR51	0.50	4.80	1,000	11.60	D□
		HG-SR81	0.85	8.10	1,000	16.00	D□
		HG-SR102	1.00	4.80	2,000	11.60	D□
		HG-SR1024	1.00	4.80	2,000	11.60	D□
		HG-SR152	1.50	7.20	2,000	16.00	D□
		HG-SR1524	1.50	7.20	2,000	16.00	D□
	J5	HK-ST1724W	0.85	8.10	1,000	11.40	D□
		HK-ST102W	1.00	4.80	2,000	8.65	D□
Yaskawa Electric	Σ-V	SGMGV-09A	0.85	5.39	1,500	13.90	B□
		SGMGV-13A	1.30	8.34	1,500	19.90	C□
		SGMGV-20A	1.80	11.50	1,500	26.00	D□
	Σ-7	SGM7G-09A	0.85	5.39	1,500	13.90	D□
		SGM7G-13A	1.30	8.34	1,500	19.90	D□
		SGM7G-20A	1.80	11.50	1,500	26.00	D□

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.

RU100 High gear ratio model (Gear ratio=60)

Manufacture	Servo series	Motor	Rated output [kW]	Rated torque [N・m]	Rated rotation speed [min^{-1}]	Motor rotor inertia [x10^{-4}kg・m^2]	Motor mounting code
OMRON	G	R88M-G1K020T	1.00	4.80	2,000	6.17	ES
		R88M-G1K520T	1.50	7.15	2,000	11.20	ES
		R88M-G2K020T	2.00	9.54	2,000	15.20	ES
		R88M-G3K030T	3.00	9.54	3,000	6.77	ES
	G5	R88M-K1K020F	1.00	4.77	2,000	4.60	ES
		R88M-K1K020H	1.00	4.77	2,000	4.60	ES
		R88M-K1K520F	1.50	7.16	2,000	6.70	ES
		R88M-K1K520H	1.50	7.16	2,000	6.70	ES
		R88M-K2K020F	2.00	9.55	2,000	8.72	ES
		R88M-K2K020H	2.00	9.55	2,000	8.72	ES
		R88M-K3K030F	3.00	9.55	3,000	6.50	ES
		R88M-K3K030H	3.00	9.55	3,000	6.50	ES
KEYENCE	SV	SV-M100A	0.85	5.39	1,500	13.90	DS
		SV-M150A	1.30	8.34	1,500	19.90	ES
		SV-M200A	1.80	11.50	1,500	26.00	FS
SANYO DENKI	R2	R2AA13050D	0.55	2.60	2,000	3.10	ES
		R2AA13050H	0.55	2.60	2,000	3.10	ES
		R2AA13120B	1.20	5.70	2,000	6.00	ES
		R2AA13120D	1.20	5.70	2,000	6.00	ES
		R2AA13120L	1.20	5.70	2,000	6.00	ES
		R2AA13180D	1.80	8.60	2,000	9.00	ES
		R2AA13180H	1.80	8.60	2,000	9.00	ES

Compatible Servomotor Models

RU100 High gear ratio model (Gear ratio=60)

Manufacture	Servo series	Motor	Rated output [kW]	Rated torque [N・m]	Rated rotation speed [min^{-1}]	Motor rotor inertia [$x10^{-4}kg・m^2$]	Motor mounting code
Panasonic	MINAS_A5	MDME102_C	1.00	4.77	2,000	4.60	ES
		MDME152_C	1.50	7.16	2,000	6.70	ES
		MDME202_C	2.00	9.55	2,000	8.72	ES
		MSME302_C	3.00	9.55	3,000	6.50	ES
FANUC	α	αiF2/5000	0.75	2.00	4,000	5.26	AS
		αiF4/5000	1.40	4.00	4,000	13.50	DS
		αiF8/3000	1.60	8.00	3,000	25.70	DS
		αis2/5000	0.75	2.00	4,000	2.91	AS
		αis2/6000	1.00	2.00	6,000	2.91	AS
		αis8/6000	2.20	8.00	6,000	11.70	DS
	β	βiS2/4000	0.50	2.00	4,000	2.91	AS
		βiS8/3000	1.20	7.00	2,000	11.70	DS
		βiS12/2000	1.40	10.50	2,000	22.80	FS
		βiS12/3000	1.80	11.00	2,000	22.80	FS
Fuji Electric	GYC	GYC102D5	1.00	3.18	3,000	3.19	FS
		GYC152D5	1.50	4.78	3,000	4.44	FS
		GYC202D5	2.00	6.37	3,000	5.69	FS
	GYG	GYG102C5	1.00	4.77	2,000	15.14	ES
		GYG152C5	1.50	7.16	2,000	22.33	ES
		GYG202C5	2.00	9.55	2,000	29.51	ES
		GYG501C5	0.50	2.39	2,000	7.96	DS
		GYG751C5	0.75	3.58	2,000	11.55	DS
Mitsubishi Electric	CNC	HC153	1.50	4.77	3,000	20.00	FS
		HF-54	0.50	1.60	3,000	6.10	FS
		HF-75	0.75	1.80	4,000	2.80	BS
		HF-104	1.00	3.20	3,000	11.90	FS
		HF-105	1.00	2.40	4,000	5.10	BS
		HF-123	1.20	5.70	2,000	11.90	FS
		HF-142	1.40	6.70	2,000	17.80	FS
		HF-H54	0.50	1.60	3,000	6.10	FS
		HF-H75	0.75	1.80	4,000	2.60	BS
		HF-H104	1.00	3.20	3,000	11.90	FS
		HF-H105	1.00	2.40	4,000	5.10	BS
		HP-54	0.50	1.60	3,000	4.60	FS
		HP-104	1.00	3.20	3,000	7.70	FS
		HP-H54	0.50	1.60	3,000	4.60	FS
		HP-H104	1.00	3.20	3,000	7.70	FS
		HP-H154	1.50	4.80	3,000	12.00	FS
	J4	HG-SR51	0.50	4.80	1,000	11.60	FS
		HG-SR52	0.50	2.40	2,000	7.26	FS
		HG-SR81	0.85	8.10	1,000	16.00	FS
		HG-SR524	0.50	2.40	2,000	7.26	FS
		HG-SR102	1.00	4.80	2,000	11.60	FS
		HG-SR1024	1.00	4.80	2,000	11.60	FS
		HG-SR152	1.50	7.20	2,000	16.00	FS
		HG-SR1524	1.50	7.20	2,000	16.00	FS
	J5	HK-ST52W	0.50	2.40	2,000	5.90	FS
		HK-ST1724W	0.85	8.10	1,000	11.40	FS
		HK-ST102W	1.00	4.80	2,000	8.65	FS
Yaskawa Electric	Σ - V	SGMGV-03A	0.30	1.96	1,500	2.48	BS
		SGMGV-05A	0.45	2.86	1,500	3.33	CS
		SGMGV-09A	0.85	5.39	1,500	13.90	DS
		SGMGV-13A	1.30	8.34	1,500	19.90	ES
		SGMGV-20A	1.80	11.50	1,500	26.00	FS
	Σ -7	SGM7G-03A	0.30	1.96	1,500	2.48	CS
		SGM7G-05A	0.45	2.86	1,500	3.33	CS
		SGM7G-09A	0.85	5.39	1,500	13.90	FS
		SGM7G-13A	1.30	8.34	1,500	19.90	FS
		SGM7G-20A	1.80	11.50	1,500	26.00	FS

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.

RU125 Standard gear ratio model (Gear ratio=20)

Manufacture	Servo series	Motor	Rated output [kW]	Rated torque [N·m]	Rated rotation speed [min^{-1}]	Motor rotor inertia [$x10^{-4}kg·m^2$]	Motor mounting code
OMRON	G	R88M-G1K520T	1.50	7.15	2,000	11.20	B□
		R88M-G2K010T	2.00	19.10	1,000	35.50	D□
		R88M-G2K020T	2.00	9.54	2,000	15.20	B□
		R88M-G3K010T	3.00	28.40	1,000	55.70	D□
		R88M-G3K030T	3.00	9.54	3,000	6.77	B□
	G5	R88M-K1K520F	1.50	7.16	2,000	6.70	B□
		R88M-K1K520H	1.50	7.16	2,000	6.70	B□
		R88M-K2K010F	2.00	19.10	1,000	30.30	D□
		R88M-K2K010H	2.00	19.10	1,000	30.30	D□
		R88M-K2K020F	2.00	9.55	2,000	8.72	B□
		R88M-K2K020H	2.00	9.55	2,000	8.72	B□
		R88M-K3K010F	3.00	28.70	1,000	48.40	D□
		R88M-K3K010H	3.00	28.70	1,000	48.40	D□
KEYENCE	SV	SV-M100A	0.85	5.39	1,500	13.90	A□
		SV-M150A	1.30	8.34	1,500	19.90	B□
		SV-M200A	1.80	11.50	1,500	26.00	C□
SANYO DENKI	R2	R2AA13180D	1.80	8.60	2,000	9.00	B□
		R2AA13180H	1.80	8.60	2,000	9.00	B□
Panasonic	MINAS_A5	MDME152_C	1.50	7.16	2,000	6.70	B□
		MDME202_C	2.00	9.55	2,000	8.72	B□
		MHME202_C	2.00	9.55	2,000	57.80	D□
		MGME202_C	2.00	19.10	1,000	30.30	D□
		MGME302_C	3.00	28.70	1,000	48.40	D□
		MHME302_C	3.00	14.30	2,000	90.50	D□
		MHME402_C	4.00	19.10	2,000	112.00	D□
		MHME502_C	5.00	23.90	2,000	162.00	D□
FANUC	α	αiF8/3000	1.60	8.00	3,000	25.70	A□
		αiF12/4000	3.00	12.00	3,000	62.00	D□
		αiF22/3000	4.00	22.00	3,000	120.00	D□
		αiF30/4000	7.00	30.00	3,000	170.00	E□
		αiF40/3000	6.00	38.00	2,000	220.00	E□
		αiF40/3000Fan	9.00	53.00	2,000	220.00	E□
		αis8/6000	2.20	8.00	6,000	11.70	A□
		αis8/4000	2.50	8.00	4,000	11.70	A□
		αis12/4000	2.70	12.00	3,000	22.80	C□
		αis22/4000	4.50	22.00	3,000	52.70	D□
		αis30/4000	5.50	30.00	3,000	75.90	E□
		αis40/4000	5.50	40.00	3,000	99.00	E□
	β	βiS12/2000	1.40	10.50	2,000	22.80	C□
		βiS12/3000	1.80	11.00	2,000	22.80	C□
		βiS22/2000	2.50	20.00	2,000	52.70	D□
		βiS22/3000	3.00	20.00	2,000	52.70	D□
		βiS30/2000	3.00	27.00	2,000	75.90	D□
		βiS40/2000	3.00	36.00	1,500	99.00	E□
Fuji Electric	GYG	GYG102C5	1.00	4.77	2,000	15.14	B□
		GYG132B5	1.30	8.28	1,500	22.33	B□
		GYG152C5	1.50	7.16	2,000	22.33	B□
		GYG202C5	2.00	9.55	2,000	29.51	B□
		GYG501B5	0.50	3.18	1,500	11.55	A□
		GYG501C5	0.50	2.39	2,000	7.96	A□
		GYG751C5	0.75	3.58	2,000	11.55	A□
		GYG851B5	0.85	5.41	1,500	15.15	A□
Mitsubishi Electric	CNC	HC202	2.00	9.55	2,000	42.50	D□
		HC352	3.50	16.70	2,000	82.00	D□
		HC452	4.50	21.50	2,000	121.00	E□
		HC702	7.00	33.40	2,000	160.00	E□
		HC353	3.50	11.10	3,000	82.00	D□
		HC453	4.50	14.30	3,000	121.00	D□
		HC703	7.00	22.30	3,000	160.00	E□
		HF-223	2.20	10.50	2,000	23.70	C□
		HF-302	3.00	14.30	2,000	75.00	D□
		HF-303	3.00	14.30	2,000	75.00	D□
		HF-354	3.50	11.10	3,000	75.00	E□
		HF-453	4.50	14.30	3,000	112.00	E□
		HF-703	7.00	22.30	3,000	154.00	E□
		HF-H354	3.50	11.10	3,000	75.00	E□
		HF-H453	4.50	14.30	3,000	112.00	E□
		HF-H703	7.00	22.30	3,000	154.00	E□

Compatible Servomotor Models

RU125 Standard gear ratio model (Gear ratio=20)

Manufacture	Servo series	Motor	Rated output [kW]	Rated torque [N・m]	Rated rotation speed [min^{-1}]	Motor rotor inertia [$x10^{-4}kg・m^2$]	Motor mounting code
Mitsubishi Electric	J4	HG-SR81	0.85	8.10	1,000	16.00	C□
		HG-SR201	2.00	19.10	1,000	78.60	D□
		HG-SR202	2.00	9.50	2,000	46.80	D□
		HG-SR2024	2.00	9.50	2,000	46.80	D□
		HG-SR301	3.00	28.60	1,000	99.70	E□
		HG-SR421	4.20	40.10	1,000	151.00	E□
		HG-SR502	5.00	23.90	2,000	99.70	D□
		HG-SR5024	5.00	23.90	2,000	99.70	D□
		HG-SR702	7.00	33.40	2,000	151.00	E□
		HG-SR7024	7.00	33.40	2,000	151.00	E□
	J5	HK-ST1724W	0.85	8.10	1,000	11.40	C□
		HK-ST3524W	2.00	19.10	1,000	53.60	D□
		HK-ST202W	2.00	9.50	2,000	36.40	D□
		HK-ST5024W	3.00	28.60	1,000	70.80	E□
		HK-ST7024W	4.20	40.10	1,000	105.00	E□
		HK-ST502W	5.00	23.90	2,000	70.80	D□
		HK-ST702W	7.00	33.40	2,000	105.00	E□
Yaskawa Electric	Σ-V	SGMGV-09A	0.85	5.39	1,500	13.90	A□
		SGMGV-13A	1.30	8.34	1,500	19.90	B□
		SGMGV-20A	1.80	11.50	1,500	26.00	C□
	Σ-7	SGM7G-09A	0.85	5.39	1,500	13.90	C□
		SGM7G-13A	1.30	8.34	1,500	19.90	C□
		SGM7G-20A	1.80	11.50	1,500	26.00	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.

RU125 High gear ratio model (Gear ratio=60)

Manufacture	Servo series	Motor	Rated output [kW]	Rated torque [N・m]	Rated rotation speed [min^{-1}]	Motor rotor inertia [$x10^{-4}kg・m^2$]	Motor mounting code
OMRON	G	R88M-G1K020T	1.00	4.80	2,000	6.17	BS
		R88M-G1K520T	1.50	7.15	2,000	11.20	BS
		R88M-G2K020T	2.00	9.54	2,000	15.20	BS
		R88M-G3K020T	3.00	14.30	2,000	22.30	CS
		R88M-G3K030T	3.00	9.54	3,000	6.77	BS
		R88M-G4K030T	4.00	12.60	3,000	12.70	CS
		R88M-G5K030T	5.00	15.80	3,000	17.80	CS
	G5	R88M-K1K020F	1.00	4.77	2,000	4.60	BS
		R88M-K1K020H	1.00	4.77	2,000	4.60	BS
		R88M-K1K520F	1.50	7.16	2,000	6.70	BS
		R88M-K1K520H	1.50	7.16	2,000	6.70	BS
		R88M-K2K020F	2.00	9.55	2,000	8.72	BS
		R88M-K2K020H	2.00	9.55	2,000	8.72	BS
		R88M-K3K020F	3.00	14.30	2,000	12.90	CS
		R88M-K3K020H	3.00	14.30	2,000	12.90	CS
		R88M-K3K030F	3.00	9.55	3,000	6.50	BS
		R88M-K3K030H	3.00	9.55	3,000	6.50	BS
		R88M-K4K030F	4.00	12.70	3,000	12.90	CS
		R88M-K4K030H	4.00	12.70	3,000	12.90	CS
		R88M-K5K030F	5.00	15.90	3,000	17.40	CS
		R88M-K5K030H	5.00	15.90	3,000	17.40	CS
KEYENCE	SV	SV-M100A	0.85	5.39	1,500	13.90	AS
		SV-M150A	1.30	8.34	1,500	19.90	BS
		SV-M200A	1.80	11.50	1,500	26.00	CS
SANYO DENKI	R2	R2AA13050D	0.55	2.60	2,000	3.10	BS
		R2AA13050H	0.55	2.60	2,000	3.10	BS
		R2AA13120B	1.20	5.70	2,000	6.00	BS
		R2AA13120D	1.20	5.70	2,000	6.00	BS
		R2AA13120L	1.20	5.70	2,000	6.00	BS
		R2AA13180D	1.80	8.60	2,000	9.00	BS
		R2AA13180H	1.80	8.60	2,000	9.00	BS

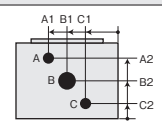
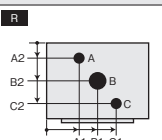
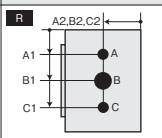
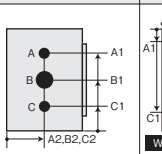
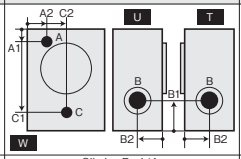
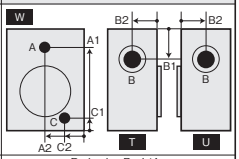
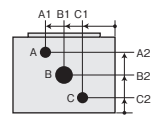
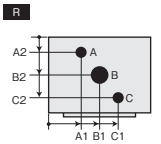
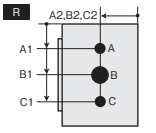
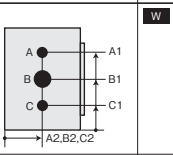
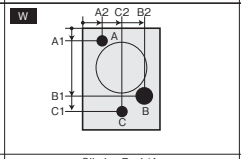
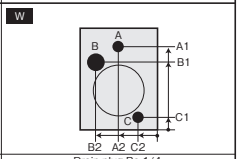
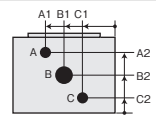
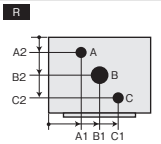
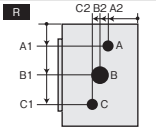
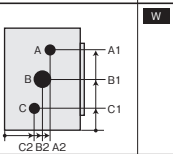
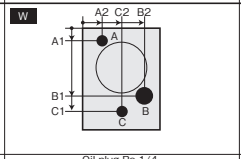
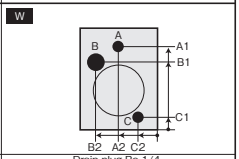
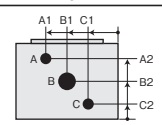
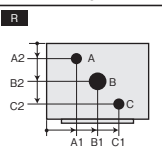
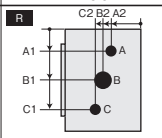
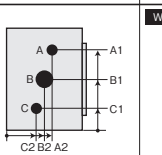
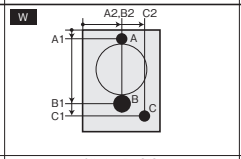
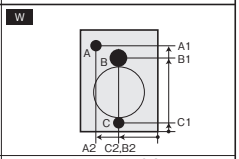
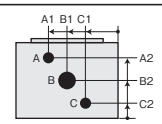
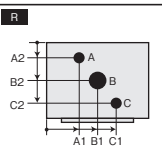
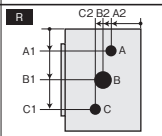
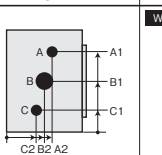
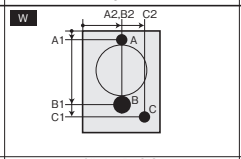
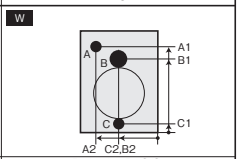
RU125 High gear ratio model (Gear ratio=60)

Manufacture	Servo series	Motor	Rated output [kW]	Rated torque [N・m]	Rated rotation speed [min^{-1}]	Motor rotor inertia [$x10^{-4}kg・m^2$]	Motor mounting code
Panasonic	MINAS_A5	MDME102_C	1.00	4.77	2,000	4.60	BS
		MDME152_C	1.50	7.16	2,000	6.70	BS
		MDME202_C	2.00	9.55	2,000	8.72	BS
		MDME302_C	3.00	14.30	2,000	12.90	CS
		MSME302_C	3.00	9.55	3,000	6.50	BS
		MSME402_C	4.00	12.70	3,000	12.90	CS
		MSME502_C	5.00	15.90	3,000	17.40	CS
FANUC	α	αiF4/5000	1.40	4.00	4,000	13.50	AS
		αiF8/3000	1.60	8.00	3,000	25.70	AS
		αis8/4000	2.50	8.00	4,000	11.70	AS
		αis8/6000	2.20	8.00	6,000	11.70	AS
		αis12/4000	2.70	12.00	3,000	22.80	CS
	β	βiS8/3000	1.20	7.00	2,000	11.70	AS
		βiS12/2000	1.40	10.50	2,000	22.80	CS
		βiS12/3000	1.80	11.00	2,000	22.80	CS
Fuji Electric	GYC	GYC102D5	1.00	3.18	3,000	3.19	CS
		GYC152D5	1.50	4.78	3,000	4.44	CS
		GYC202D5	2.00	6.37	3,000	5.69	CS
	GYG	GYG102C5	1.00	4.77	2,000	15.14	BS
		GYG152C5	1.50	7.16	2,000	22.33	BS
		GYG202C5	2.00	9.55	2,000	29.51	BS
		GYG501C5	0.50	2.39	2,000	7.96	AS
		GYG751C5	0.75	3.58	2,000	11.55	AS
Mitsubishi Electric	CNC	HC152	1.50	7.16	2,000	20.00	CS
		HC153	1.50	4.77	3,000	20.00	CS
		HF-123	1.20	5.70	2,000	11.90	CS
		HF-142	1.40	6.70	2,000	17.80	CS
		HF-154	1.50	4.80	3,000	17.80	CS
		HF-223	2.20	10.50	2,000	23.70	CS
		HF-224	2.20	7.00	3,000	23.70	CS
		HF-H154	1.50	4.80	3,000	17.80	CS
		HP-154	1.50	4.80	3,000	12.00	CS
		HP-224	2.20	6.40	3,000	20.00	CS
		HP-H154	1.50	4.80	3,000	12.00	CS
		HP-H224	2.20	6.40	3,000	20.00	CS
	J4	HG-SR51	0.50	4.80	1,000	11.60	CS
		HG-SR81	0.85	8.10	1,000	16.00	CS
		HG-SR102	1.00	4.80	2,000	11.60	CS
		HG-SR1024	1.00	4.80	2,000	11.60	CS
		HG-SR152	1.50	7.20	2,000	16.00	CS
		HG-SR1524	1.50	7.20	2,000	16.00	CS
	J5	HK-ST52W	0.50	2.40	2,000	5.90	CS
		HK-ST102W	1.00	4.80	2,000	8.65	CS
Yaskawa Electric	Σ-V	SGMGV-09A	0.85	5.39	1,500	13.90	AS
		SGMGV-13A	1.30	8.34	1,500	19.90	BS
		SGMGV-20A	1.80	11.50	1,500	26.00	CS
	Σ-7	SGM7G-09A	0.85	5.39	1,500	13.90	CS
		SGM7G-13A	1.30	8.34	1,500	19.90	CS
		SGM7G-20A	1.80	11.50	1,500	26.00	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.

Oil Plug, Oil Level Gauge, Drain Port (for oil lubricated units)

Unit:mm

Mounting position	1	2	3	4	5	6
RU40						
A	Oil plug Rc 1/4 (20-mm dia. deep, counterbore depth 20)	Drain plug Rc 1/4 (20-mm dia. deep, counterbore depth 20)	Oil plug Rc 1/4 (20-mm dia. deep, counterbore depth 20)	Drain plug Rc 1/4 (20-mm dia. deep, counterbore depth 20)	Oil plug Rc 1/4 (18-mm dia. deep, counterbore depth 7.5)	Drain plug Rc 1/4 (18-mm dia. deep, counterbore depth 7.5)
A1	67.5	47.5	27.5	87.5	20.5	119.5
A2	62.5	22.5	42.5	42.5	20.5	57.5
B	Oil level gauge	Oil level gauge	Oil level gauge	Oil level gauge	Oil level gauge	Oil level gauge
B1	57.5	57.5	57.5	57.5	52.5	52.5
B2	42.5	42.5	42.5	42.5	42.5	42.5
C	Drain plug Rc 1/4 (20-mm dia. deep, counterbore depth 20)	Oil plug Rc 1/4 (20-mm dia. deep, counterbore depth 20)	Drain plug Rc 1/4 (20-mm dia. deep, counterbore depth 20)	Oil plug Rc 1/4 (20-mm dia. deep, counterbore depth 20)	Drain plug Rc 1/4 (20-mm dia. deep, counterbore depth 7.5)	Oil plug Rc 1/4 (20-mm dia. deep, counterbore depth 7.5)
C1	47.5	67.5	87.5	27.5	119.5	20.5
C2	22.5	62.5	42.5	42.5	57.5	20.5
Oil volume (L)	0.2	0.2	0.2	0.2	0.1	0.2
RU63						
A	Oil plug Rc 1/4 (20-mm dia. deep, counterbore depth 25)	Drain plug Rc 1/4 (20-mm dia. deep, counterbore depth 25)	Oil plug Rc 1/4 (20-mm dia. deep, counterbore depth 25)	Drain plug Rc 1/4 (20-mm dia. deep, counterbore depth 25)	Oil plug Rc 1/4 (20-mm dia. deep, counterbore depth 7.5)	Drain plug Rc 1/4 (20-mm dia. deep, counterbore depth 7.5)
A1	92.5	62.5	32.5	122.5	15.5	167.5
A2	82.5	22.5	52.5	52.5	48.5	77.5
B	Oil level gauge	Oil level gauge	Oil level gauge	Oil level gauge	Oil level gauge	Oil level gauge
B1	77.5	77.5	77.5	77.5	140.5	140.5
B2	52.5	52.5	52.5	52.5	112.5	112.5
C	Drain plug Rc 1/4 (20-mm dia. deep, counterbore depth 25)	Oil plug Rc 1/4 (20-mm dia. deep, counterbore depth 25)	Drain plug Rc 1/4 (20-mm dia. deep, counterbore depth 25)	Oil plug Rc 1/4 (20-mm dia. deep, counterbore depth 25)	Drain plug Rc 1/4 (20-mm dia. deep, counterbore depth 7.5)	Oil plug Rc 1/4 (20-mm dia. deep, counterbore depth 7.5)
C1	62.5	92.5	122.5	32.5	167.5	15.5
C2	22.5	82.5	52.5	52.5	77.5	48.5
Oil volume (L)	0.4	0.4	0.4	0.4	0.2	0.5
RU80						
A	Oil plug Rc 3/8 (30-mm dia. deep, counterbore depth 27.5)	Drain plug Rc 3/8 (30-mm dia. deep, counterbore depth 27.5)	Oil plug Rc 3/8 (30-mm dia. deep, counterbore depth 27.5)	Drain plug Rc 3/8 (30-mm dia. deep, counterbore depth 27.5)	Oil plug Rc 1/4 (20-mm dia. deep, counterbore depth 7.5)	Drain plug Rc 1/4 (20-mm dia. deep, counterbore depth 7.5)
A1	115	75	33	157	22	215
A2	110	30	55	85	40	95
B	Oil level gauge	Oil level gauge	Oil level gauge	Oil level gauge	Oil level gauge	Oil level gauge
B1	95	95	95	95	175	175
B2	70	70	70	70	145	145
C	Drain plug Rc 3/8 (30-mm dia. deep, counterbore depth 27.5)	Oil plug Rc 3/8 (30-mm dia. deep, counterbore depth 27.5)	Drain plug Rc 3/8 (30-mm dia. deep, counterbore depth 27.5)	Oil plug Rc 3/8 (30-mm dia. deep, counterbore depth 27.5)	Drain plug Rc 1/4 (20-mm dia. deep, counterbore depth 7.5)	Oil plug Rc 1/4 (20-mm dia. deep, counterbore depth 7.5)
C1	75	115	157	33	215	22
C2	30	110	85	55	95	40
Oil volume (L)	1.0	0.7	0.9	0.9	0.6	1.2
RU100						
A	Oil plug Rc 3/8 (30-mm dia. deep, counterbore depth 30)	Drain plug Rc 3/8 (30-mm dia. deep, counterbore depth 30)	Oil plug Rc 3/8 (30-mm dia. deep, counterbore depth 30)	Drain plug Rc 3/8 (30-mm dia. deep, counterbore depth 30)	Oil plug Rc 3/8 (25-mm dia. deep, counterbore depth 2.5)	Drain plug Rc 3/8 (25-mm dia. deep, counterbore depth 2.5)
A1	150	80	38	192	18	250
A2	110.5	34.5	52.5	92.5	115	145
B	Oil level gauge	Oil level gauge	Oil level gauge	Oil level gauge	Oil level gauge	Oil level gauge
B1	115	115	115	115	215	215
B2	72.5	72.5	72.5	72.5	115	115
C	Drain plug Rc 3/8 (30-mm dia. deep, counterbore depth 30)	Oil plug Rc 3/8 (30-mm dia. deep, counterbore depth 30)	Drain plug Rc 3/8 (30-mm dia. deep, counterbore depth 30)	Oil plug Rc 3/8 (30-mm dia. deep, counterbore depth 30)	Drain plug Rc 3/8 (25-mm dia. deep, counterbore depth 7.5)	Oil plug Rc 3/8 (25-mm dia. deep, counterbore depth 7.5)
C1	80	150	192	38	250	18
C2	34.5	110.5	92.5	52.5	145	115
Oil volume (L)	1.5	1.1	1.3	1.3	0.7	1.9
RU125						
A	Oil plug Rc 3/8 (30-mm dia. deep, counterbore depth 35)	Drain plug Rc 3/8 (30-mm dia. deep, counterbore depth 35)	Oil plug Rc 3/8 (30-mm dia. deep, counterbore depth 35)	Drain plug Rc 3/8 (30-mm dia. deep, counterbore depth 35)	Oil plug Rc 3/8 (30-mm dia. deep, counterbore depth 2.5)	Drain plug Rc 3/8 (30-mm dia. deep, counterbore depth 2.5)
A1	175	105	40	240	20	320
A2	150	40	60	130	140	175
B	Oil level gauge	Oil level gauge	Oil level gauge	Oil level gauge	Oil level gauge	Oil level gauge
B1	140	140	140	140	265	265
B2	95	95	95	95	140	140
C	Drain plug Rc 3/8 (30-mm dia. deep, counterbore depth 35)	Oil plug Rc 3/8 (30-mm dia. deep, counterbore depth 35)	Drain plug Rc 3/8 (30-mm dia. deep, counterbore depth 35)	Oil plug Rc 3/8 (30-mm dia. deep, counterbore depth 35)	Drain plug Rc 3/8 (30-mm dia. deep, counterbore depth 7.5)	Oil plug Rc 3/8 (30-mm dia. deep, counterbore depth 7.5)
C1	105	175	240	40	320	20
C2	40	150	130	60	175	140
Oil volume (L)	4.0	2.8	3.4	3.4	2.3	4.5

Note 1) If model RU40 is mounted in positions 5 or 6, the oil level gauge will be installed on side T or U, whichever side the motor is not mounted on.
Note 2) The counterbore depth is the depth from the outermost surface of the side on which the oil plug and related parts are mounted.

Handling

Mounting the Motor

Motor to be mounted by customer.

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

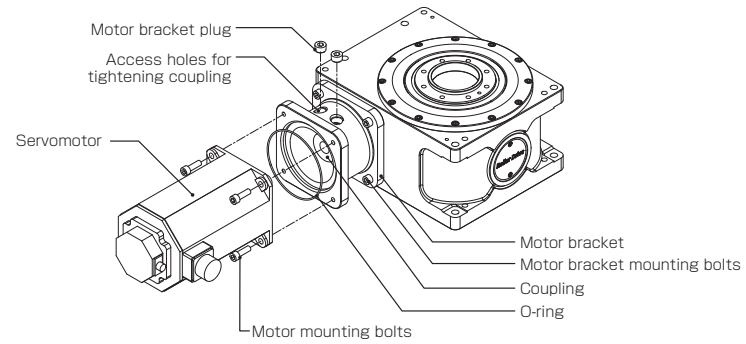
(1)Standard gear ratio model

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)



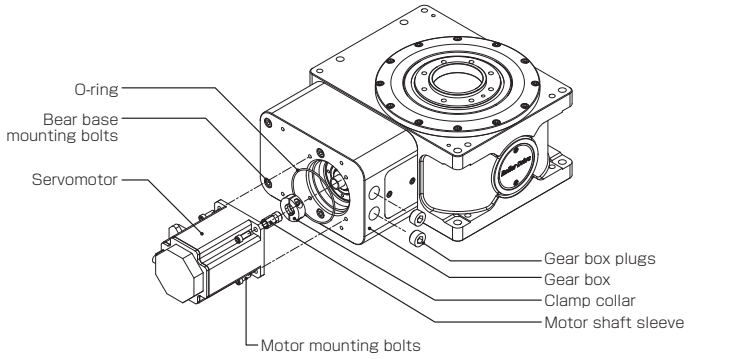
(2)High gear ratio model

① Hand-tighten the clamp color 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)



Installation Site

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

- Environment temperature from 5 to 40 ºC
  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: JX Nippon Oil & Energy Corporation PYRONOC GREASE UNIVERSAL 2

Grease used in the High gear ratio gear box: JX Nippon Oil & Energy 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.

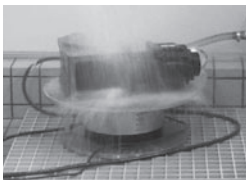
Standard lubricant: Mobil SHC629 (VG150)

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 ingression 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 November 2020.
- 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.

Attention: _____ Date _____

Our contact person: _____

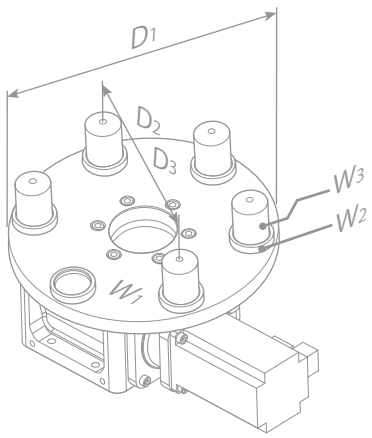
Model Sizing Form for the *RollerDrive*® **RU** series

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.)



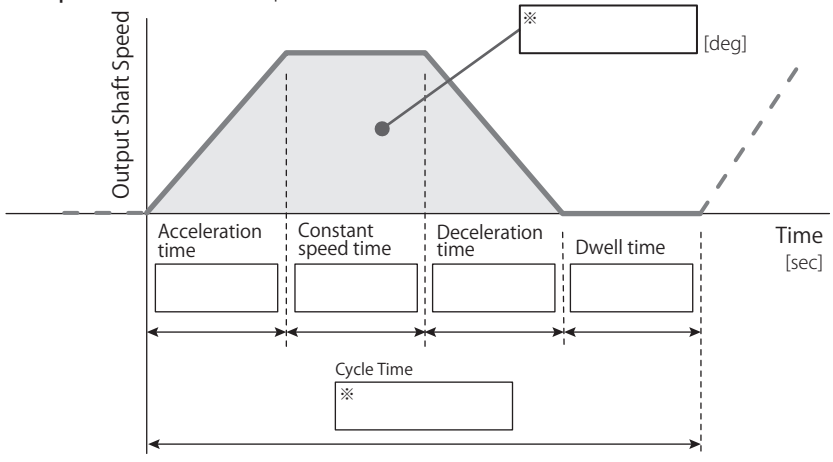
Load that acts upon the output shaft

Axial/radial loads [N]	Moment load [N・m]

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]
Number of workpieces : n_3 [pcs.]

C) Motion pattern

※Required information



D) Lubrication and product mounting position

Select one from each question.

Lubrication system : ☐ Grease lubrication ☐ Oil lubrication

Product mounting position : ☐ W surface on bottom ☐ V surface on bottom ☐ U surface on bottom
☐ T surface on bottom ☐ R surface on bottom ☐ S surface on bottom

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.

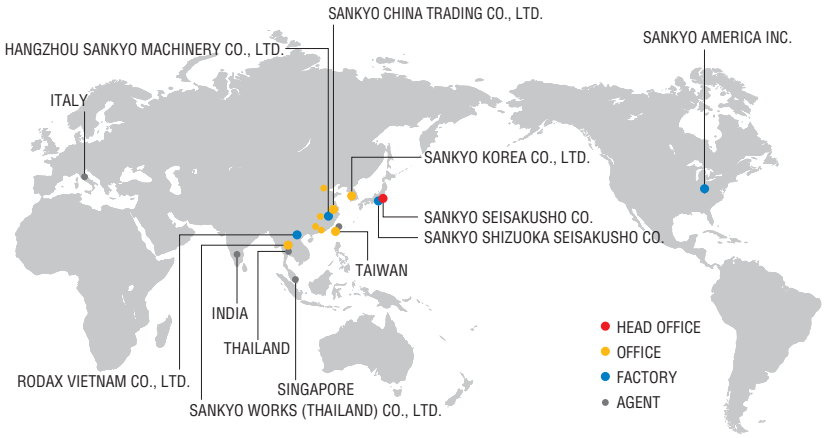
G) Motor mounting code

_____

RU-2013/10E-S

Contact at Sankyo

Global network



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