

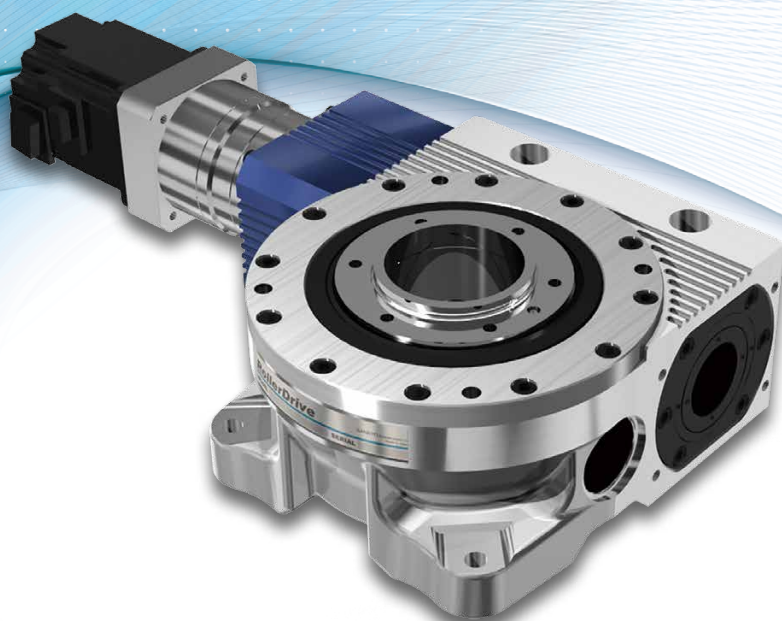
Zero Backlash Positioner

RollerDrive[®]

 **RGV** series Standard Model

Varied lineup of reduction ratios and sizes

Large output torque from a compact servo motor



The ZERO-Backlash Technology

A mechanism developed through the pursuit of outstanding functionality and performance

Superior movement achieved with zero-backlash technology

The RollerDrive is a zero-backlash reducer that utilizes a rolling transmission method with preload adjustment for high-dimensional accuracy, responsiveness, and rigidity with stable performance over long periods.

The large-diameter hole construction with a direct input/output shaft layout enables a compact design with zero backlash.

Meanwhile, the rolling transmission method of the RollerDrive provides a characteristic long service life.



Positioner Lineup

For general factory automation

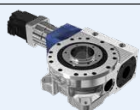
MR

Ultra-compact model



RGV

Standard model



RGR

Large-diameter model



RA

Lightweight model



RU

High-rigidity model



For welding machines

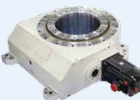
SP

Standard model

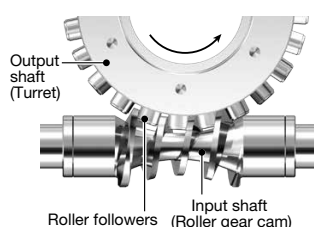


RW

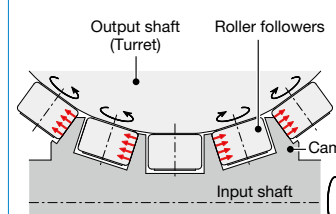
High-accuracy model



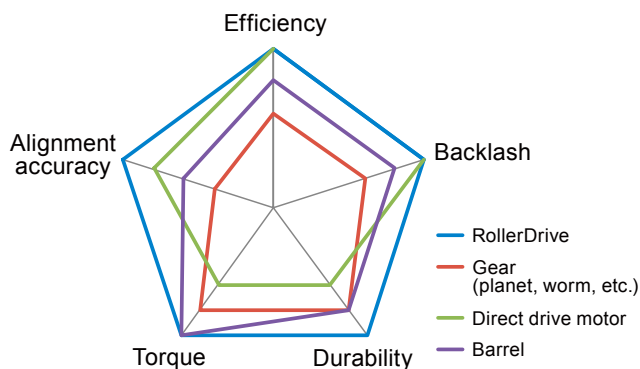
Roller gear cam mechanism



Preload mechanism

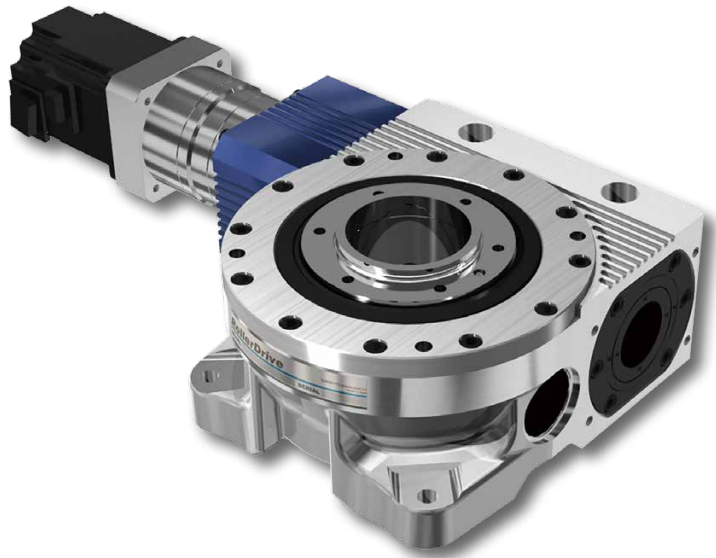


Performance Comparison



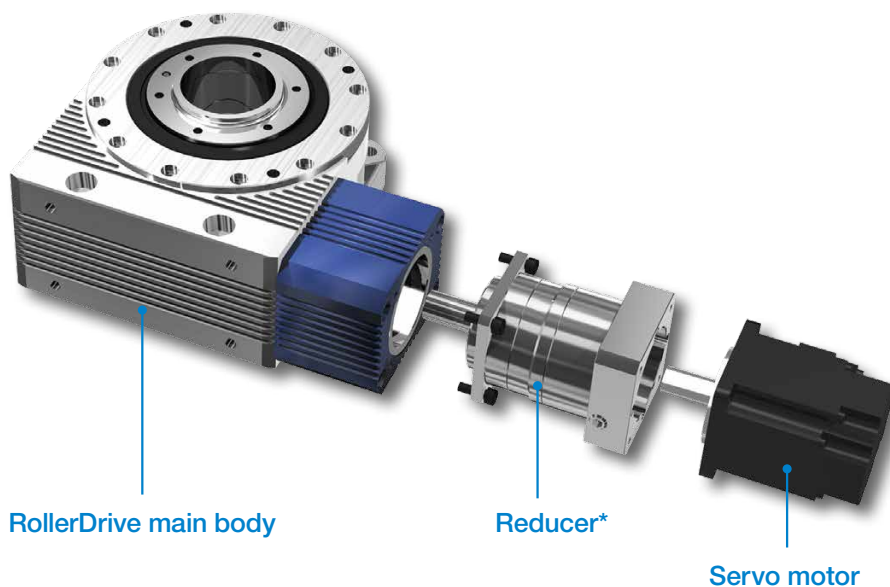
RollerDrive® RGV series

Zero-backlash positioner Standard model



Features

- ▶ Varied lineup of reduction ratios and sizes
- ▶ Large output torque from a compact servo motor
- ▶ Capable of handling heavy and uneven loads easily
- ▶ Lightweight and compact



RollerDrive main body

Reducer*

Servo motor

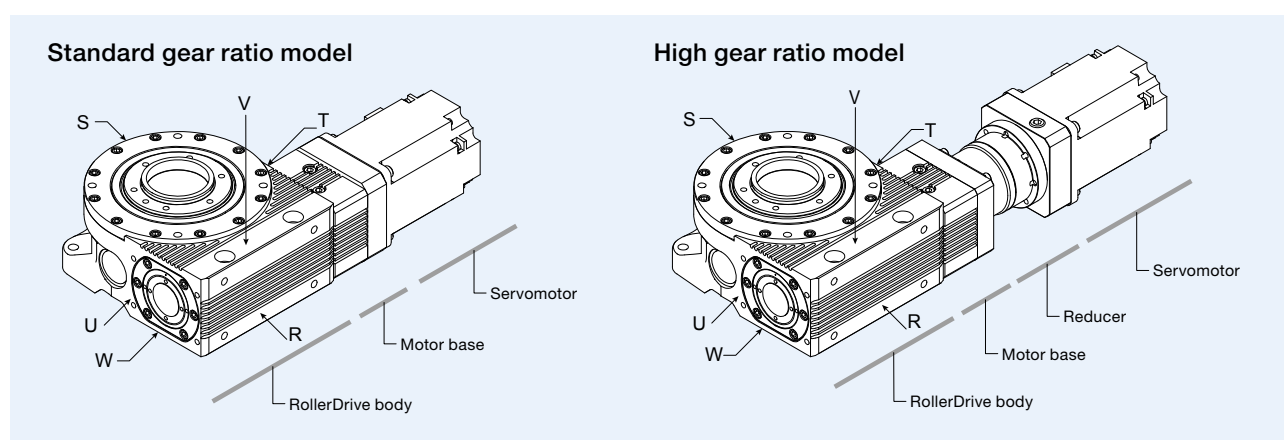
*For high gear ratio model

Product Code

Product Code

1	RGV	2	063	-	3	072	4	G	5	T	6	A	-	7	BJC
1	Model	2	Size		3	Gear ratio	4	Lubrication method	5	Servomotor position	6	Options		7	Attachment code
RGV		040	015, 045, 075		G : Greaselubrication Usable in any position /direction For oil lubrication: 1/2/3/4/5/6 See oil lubrication mounting codes below	T : Standard Mounted on right side of main unit U : Mounted on left side of main unit	Blank : None A : Rustproof specification B : Rustproof/dustproof/waterproof specification								See the list of mountable motors for each size ⇒ P. 13 to 22
		063													
		080													
		100													
		125													

RollerDrive components and mounting surface designations



* Shown with servomotor on "T" surface

Oil lubrication mounting codes

1	2	3	4	5	6
W surface toward bottom	V surface toward bottom	U surface toward bottom	T surface toward bottom	R surface toward bottom	S surface toward bottom

Product Specifications

Grease lubrication type

Model		RGV040			RGV063					
Main unit gear ratio		15			12			24		
Reducer gear ratio		—	3	5	—	3	5	—	3	5
Total gear ratio		15	45	75	12	36	60	24	72	120
Start / Stop limit torque	N · m	67			64.2			109.8		
Static output torque	N · m	100			87			184		
Maximum input speed	min ⁻¹	1,800	5,400	6,000	1,200	3,600	6,000	1,600	4,800	6,000
Rated input speed	min ⁻¹	900	2,700	3,000	600	1,800	3,000	800	2,400	3,000
Maximum output speed ^{*1}	min ⁻¹	120		80	100			66.7		50
Rated output speed ^{*1}	min ⁻¹	60		40	50			33.3		25
Repeatability ^{*2}	arc sec or less	± 10			± 7					
Allowable axial load (load weight)	N	1,155			2,988			3,486		
Allowable radial load	N	766			2,642			3,082		
Allowable moment load	N · m	42			160			176		
Weight (not including motor) ^{*3}	kg	4.3	4.9		8.3	9.7		8.3	9.7	

Model		RGV080						RGV100						RGV125						
Main unit gear ratio		12			24			12			24			12			24			
Reducer gear ratio		—	3	5	—	3	5	—	3	5	—	3	5	—	3	5	—	3	5	
Total gear ratio		12	36	60	24	72	120	12	36	60	24	72	120	12	36	60	24	72	120	
Start / Stop limit torque	N · m	108.6			183.8			269.5			457			453.2			771.8			
Static output torque	N · m	155			323			374.5			782			632			1,326			
Maximum input speed	min ⁻¹	1,100	3,300	5,500	1,400	4,200	6,000	1,000	3,000	5,000	1,300	3,900	6,000	900	2,700	4,500	1,200	3,600	6,000	
Rated input speed	min ⁻¹	550	1,650	2,750	700	2,100	3,000	500	1,500	2,500	650	1,950	3,000	450	1,350	2,250	600	1,800	3,000	
Maximum output speed ^{*1}	min ⁻¹	91.7			58.3			50	83.3			54.2		50	75			50		
Rated output speed ^{*1}	min ⁻¹	45.8			29.2			25	41.7			27.1		25	37.5			25		
Repeatability ^{*2}	arc sec or less	± 5						± 5						± 5						
Allowable axial load (load weight)	N	3,687			4,015			4,118			4,242			7,510			8,301			
Allowable radial load	N	3,192			3,546			3,496			3,741			6,624			7,321			
Allowable moment load	N · m	253			278			446			520			1,005			1,164			
Weight (not including motor) ^{*3}	kg	15.2	16.3		15.2	16.3		26.1	29.0		26.1	29.0		44.9	48.8		44.9	48.8		

*1 Contact Sankyo in the case of output with continuous rotation at 360 degrees or more.

*2 Indicates the accuracy for the main unit without the reducer.

*3 May vary slightly depending on reduction ratio and motor specifications.

Product Specifications

Oil lubrication type

Model		RGV040			RGV063					
Main unit gear ratio		15			12			24		
Reducer gear ratio		—	3	5	—	3	5	—	3	5
Total gear ratio		15	45	75	12	36	60	24	72	120
Start / Stop limit torque	N · m	82			79			135.2		
Static output torque	N · m	100			87			184		
Maximum input speed	min ⁻¹	2,400	6,000		2,600	6,000		2,600	6,000	
Rated input speed	min ⁻¹	1,200	3,000		1,300	3,000		1,300	3,000	
Maximum output speed ^{*1}	min ⁻¹	160	133.3	80	216.7	166.7	100	108.3	83.3	50
Rated output speed ^{*1}	min ⁻¹	80	66.7	40	108.3	83.3	50	54.2	41.7	25
Repeatability ^{*2}	arc sec or less	± 10			± 7					
Allowable axial load (load weight)	N	1,155			2,988			3,486		
Allowable radial load	N	766			2,642			3,082		
Allowable moment load	N · m	42			160			176		
Weight (not including motor) ^{*3}	kg	4.3	4.9		8.3	9.7		8.3	9.7	

Model		RGV080						RGV100						RGV125					
Main unit gear ratio		12			24			12			24			12			24		
Reducer gear ratio		—	3	5	—	3	5	—	3	5	—	3	5	—	3	5	—	3	5
Total gear ratio		12	36	60	24	72	120	12	36	60	24	72	120	12	36	60	24	72	120
Start / Stop limit torque	N・m	133.7			226.2			331.8			562.3			557.9			950.2		
Static output torque	N・m	155			323			374.5			782			632			1,326		
Maximum input speed	min ⁻¹	2,200	6,000		2,200	6,000		2,000	6,000		2,000	6,000		1,920	5,760	6,000	1,920	5,760	6,000
Rated input speed	min ⁻¹	1,100	3,000		1,100	3,000		1,000	3,000		1,000	3,000		960	2,880	3,000	960	2,880	3,000
Maximum output speed ^{*1}	min ⁻¹	183.3	166.7	100	91.7	83.3	50	166.7	100	83.3	50	160	100	80	50				
Rated output speed ^{*1}	min ⁻¹	91.7	83.3	50	45.8	41.7	25	83.3	50	41.7	25	80	50	40	25				
Repeatability ^{*2}	arc sec or less	± 5						± 5						± 5					
Allowable axial load (load weight)	N	3,687			4,015			4,118			4,242			7,510			8,301		
Allowable radial load	N	3,192			3,546			3,496			3,741			6,624			7,321		
Allowable moment load	N・m	253			278			446			520			1,005			1,164		
Weight (not including motor) ^{*3}	kg	15.2	16.3	15.2	16.3	26.1	29.0	26.1	29.0	44.9	48.8	44.9	48.8						

*1 Contact Sankyo in the case of output with continuous rotation at 360 degrees or more.

*2 Indicates the accuracy for the main unit without the reducer.

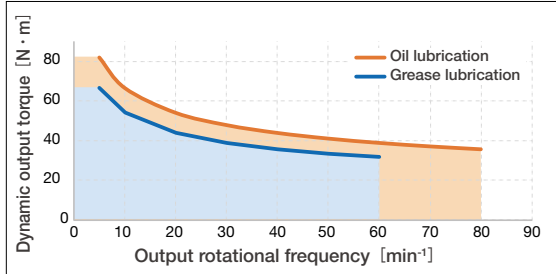
*3 May vary slightly depending on reduction ratio and motor specifications.

Dynamic output torque

The limit for the load torque acting on the output shaft is indicated to satisfy the expected lifetime (12,000 hours) of the RollerDrive. Dynamic output torque varies according to the output rotational frequency.

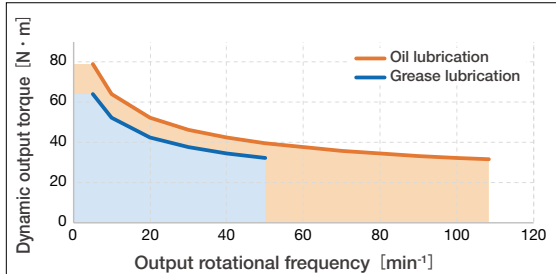
RGV040

Gear ratio=15

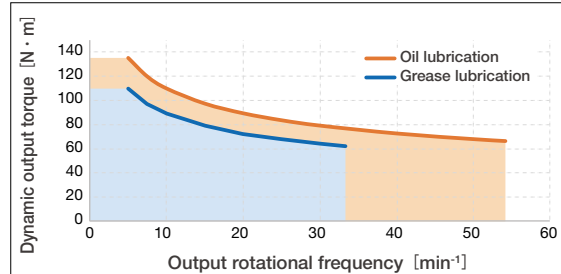


RGV063

Gear ratio=12

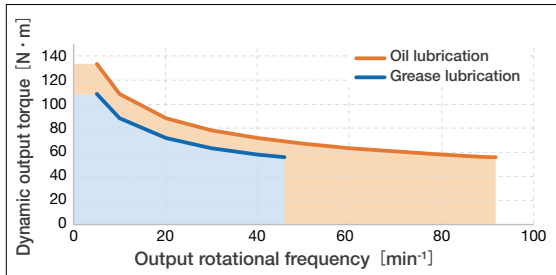


Gear ratio=24

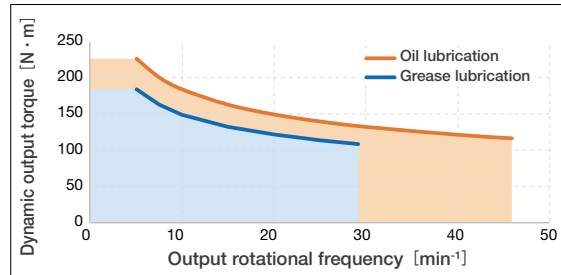


RGV080

Gear ratio=12

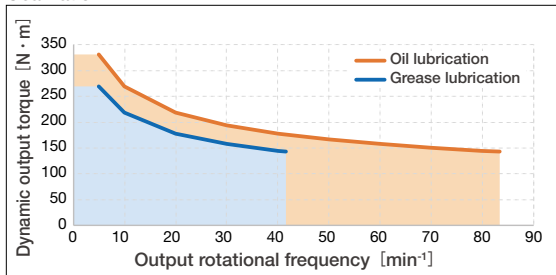


Gear ratio=24

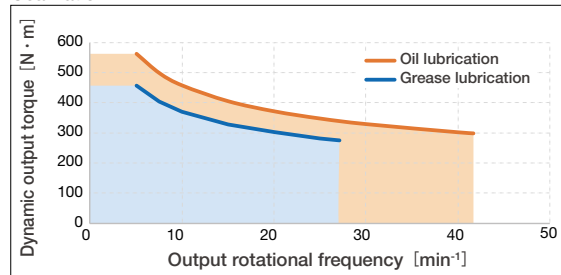


RGV100

Gear ratio=12

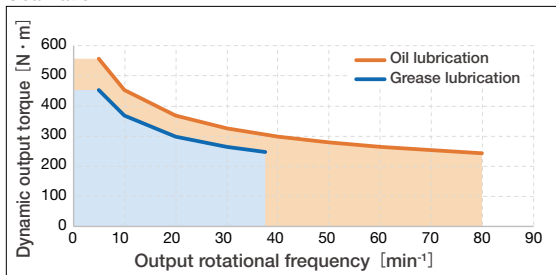


Gear ratio=24

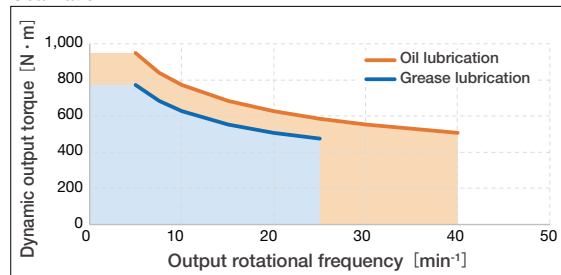


RGV125

Gear ratio=12



Gear ratio=24

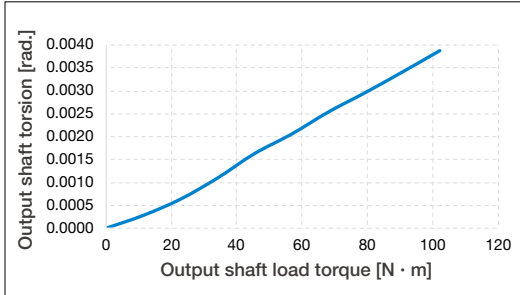




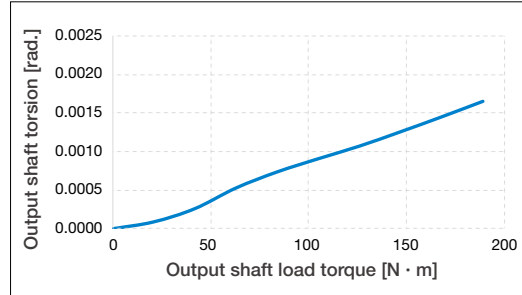
Torsional Rigidity

Torsional rigidity is the degree of shaft torsion for the output shaft torque.
Higher torsional rigidity means less torque deformation and higher natural frequency.

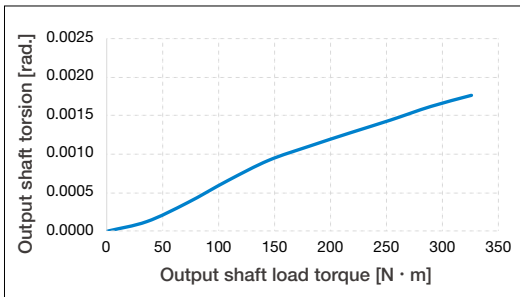
RGV040



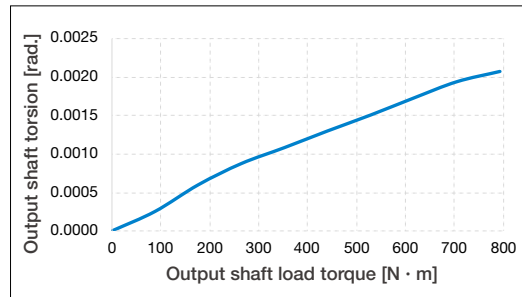
RGV063



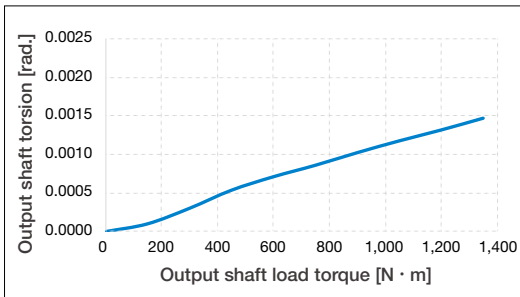
RGV080



RGV100

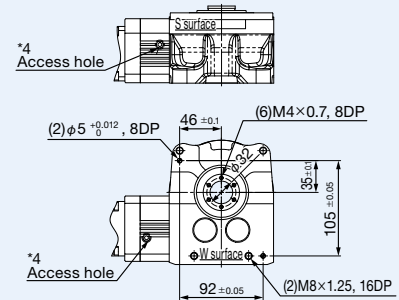
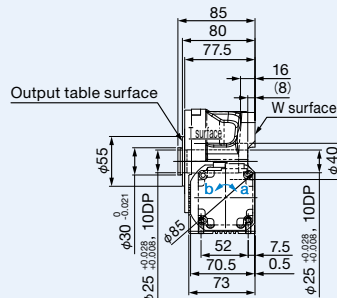
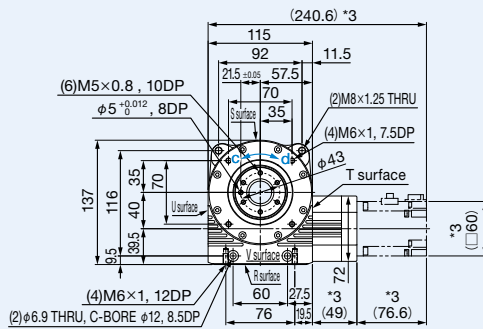


RGV125

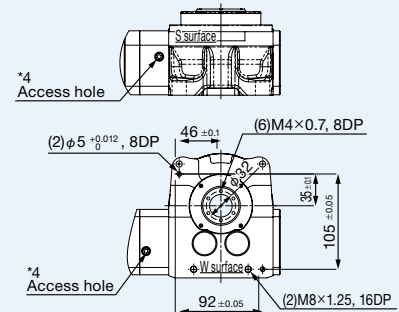
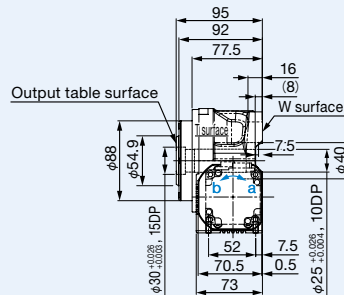
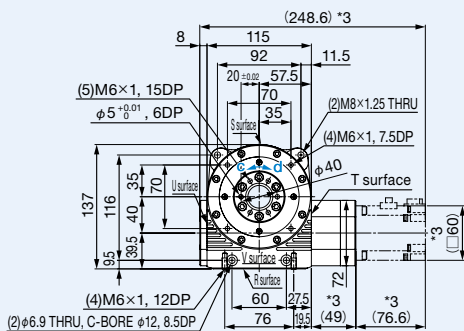


RGV040 Dimensions

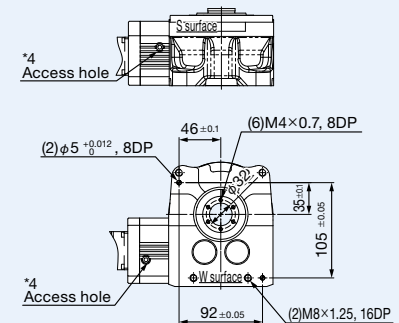
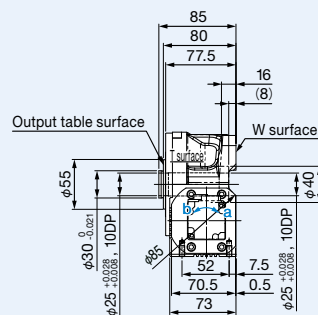
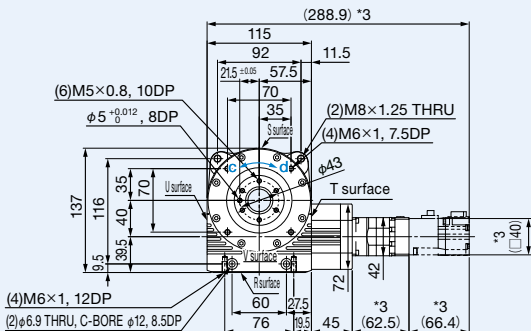
► Dimensions of Standard Gear Ratio Models (Options: None/A)



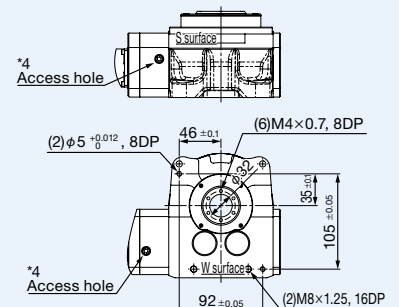
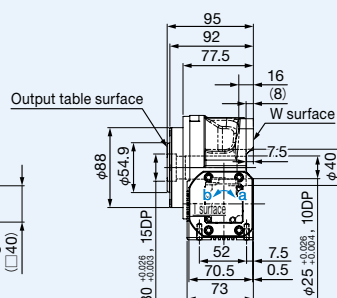
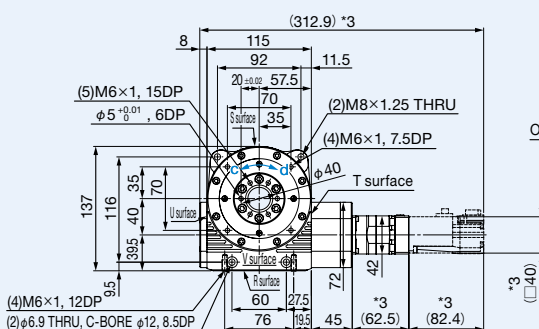
► Dimensions of Standard Gear Ratio Models (Options: B)



► **Dimensions of High Gear Ratio Models (Options: None/A)**



► Dimensions of High Gear Ratio Models (Options: B)



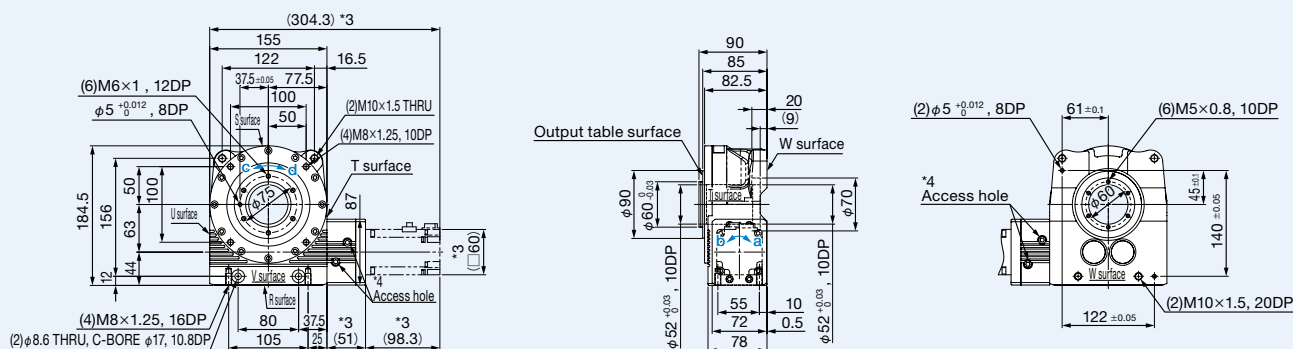
*1 This drawing is for a model where the motor is mounted on the T surface. *2 The rotating directions of input-output axes are related as a-d and b-c.

*3 Dimensions in parentheses () vary depending on the motor. *4 There is one access hole on the S surface and one on the W surface.

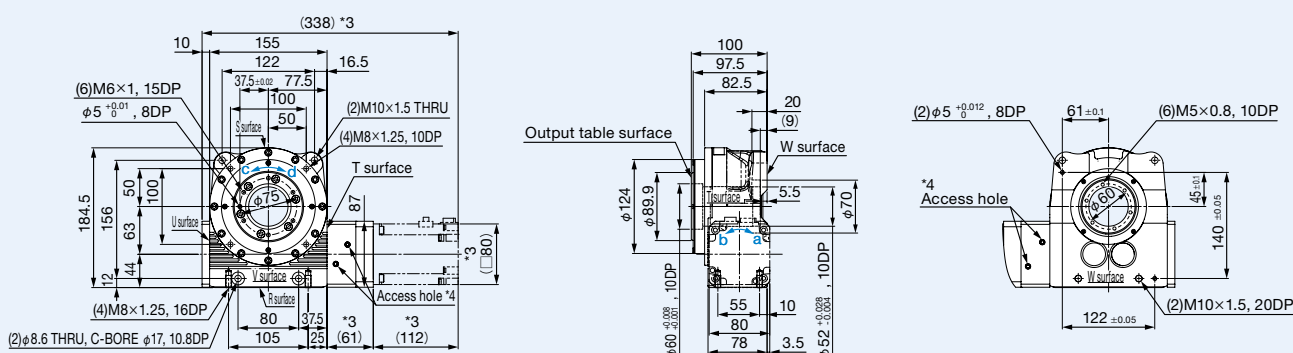
*5 Due to its mounting position, the positions of the oil plug, oil level, and drain differ for the oil lubrication type. See P. 23. *6 The servo motor will need to be prepared by the customer.

RGV063 Dimensions

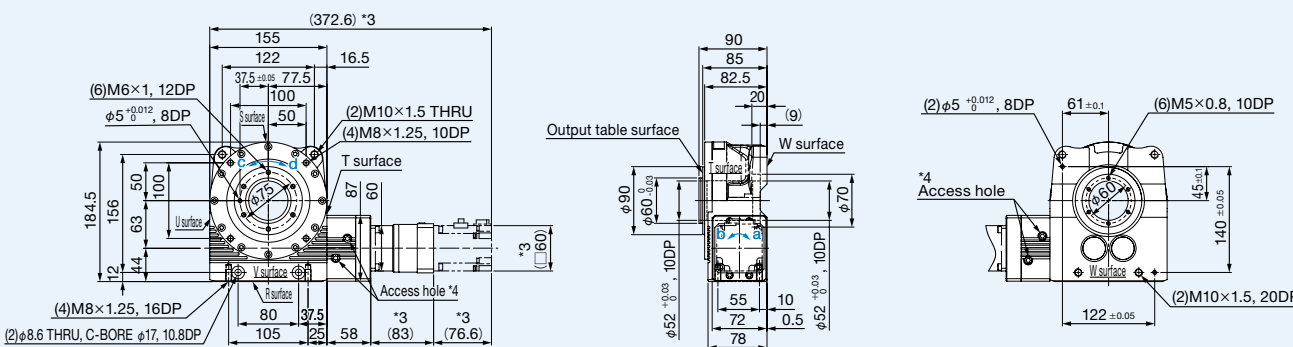
► Dimensions of Standard Gear Ratio Models (Options: None/A)



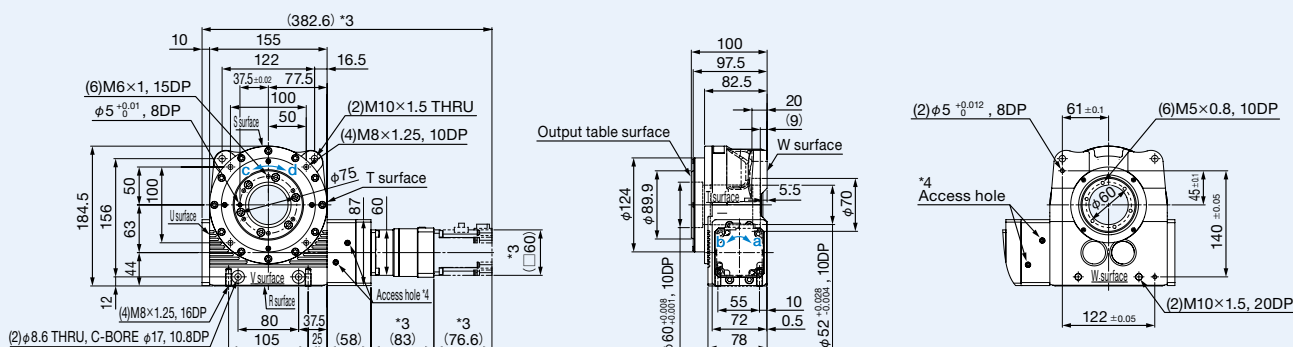
► Dimensions of Standard Gear Ratio Models (Options: B)



► Dimensions of High Gear Ratio Models (Options: None/A)



► Dimensions of High Gear Ratio Models (Options: B)



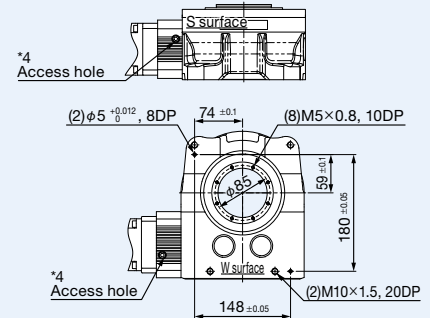
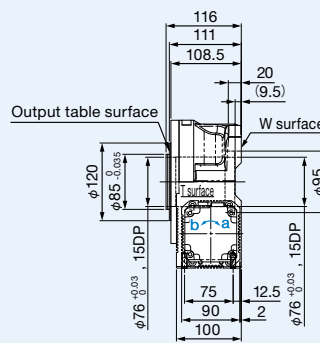
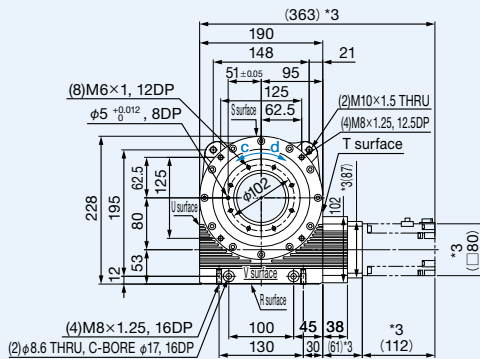
*1 This drawing is for a model where the motor is mounted on the T surface. *2 The rotating directions of input-output axes are related as a-d and b-c.

*3 Dimensions in parentheses () vary depending on the motor. *4 There are two access holes on the V surface and two on the W surface.

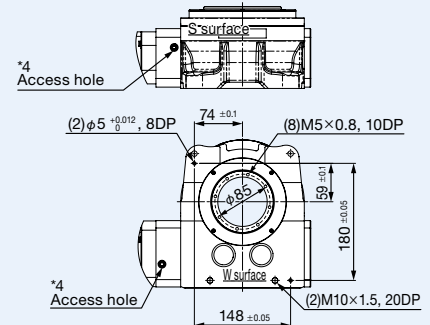
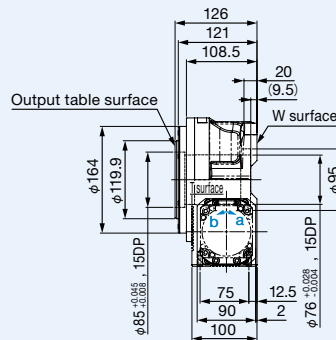
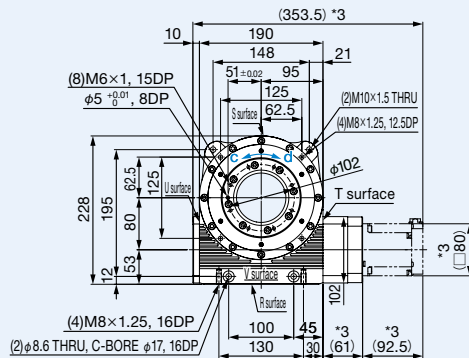
9 *5 Due to its mounting position, the positions of the oil plug, oil level, and drain differ for the oil lubrication type. See P. 23. *6 The servo motor will need to be prepared by the customer.

RGV080 Dimensions

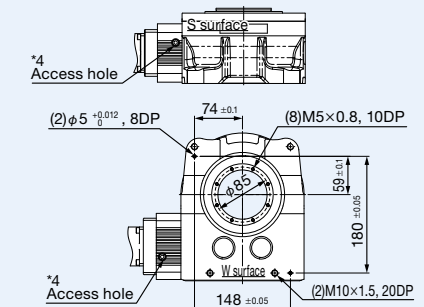
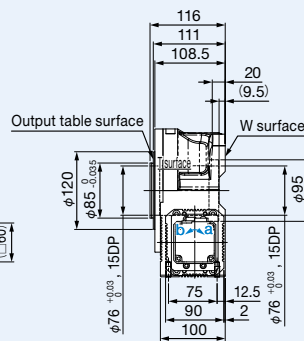
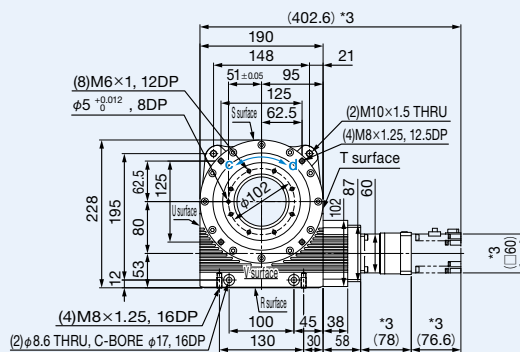
► **Dimensions of Standard Gear Ratio Models (Options: None/A)**



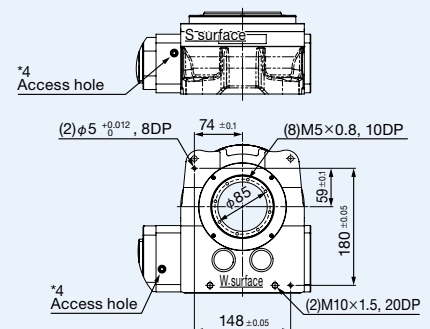
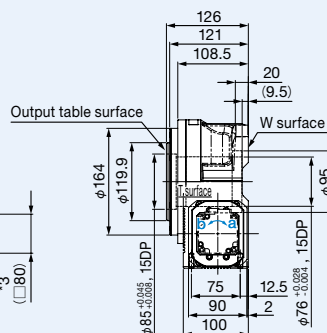
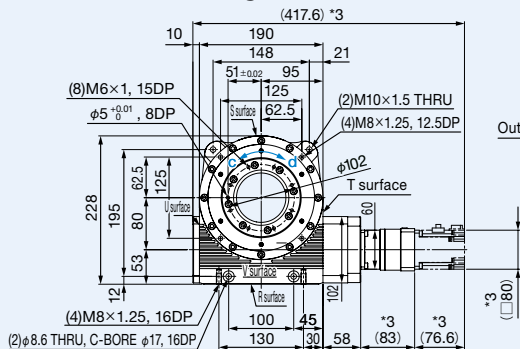
► Dimensions of Standard Gear Ratio Models (Options: B)



► Dimensions of High Gear Ratio Models (Options: None/A)



► Dimensions of High Gear Ratio Models (Options: B)

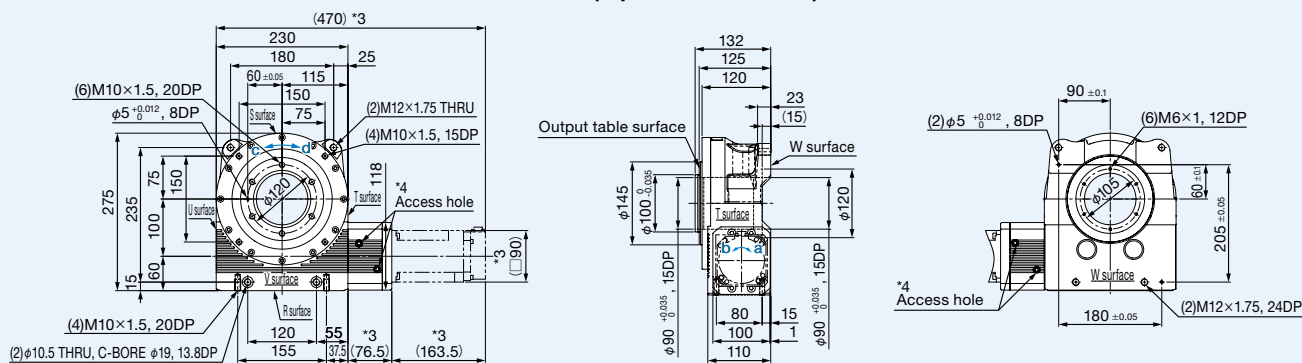


*1 This drawing is for a model where the motor is mounted on the T surface. *2 The rotating directions of input-output axes are related as a-d and b-c.

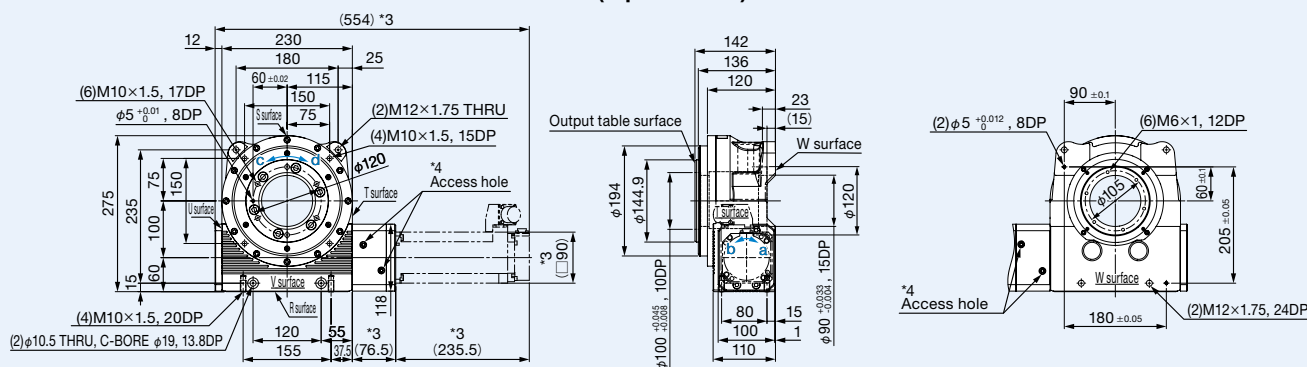
*3 Dimensions in parentheses () vary depending on the motor. *4 There is one access hole on the S surface and one on the W surface.

*5 Due to its mounting position, the positions of the oil plug, oil level, and drain differ for the oil lubrication type. See P. 23. *6 The servo motor will need to be prepared by the customer.

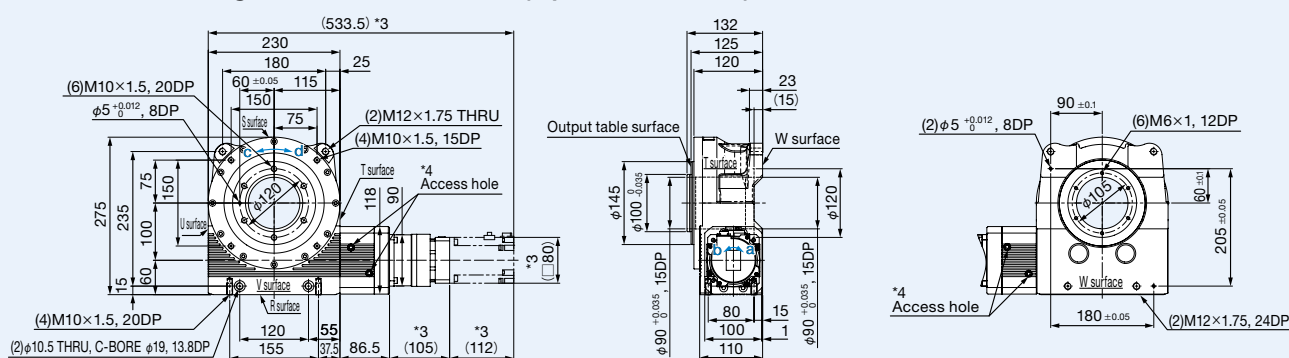
► Dimensions of Standard Gear Ratio Models (Options: None/A)



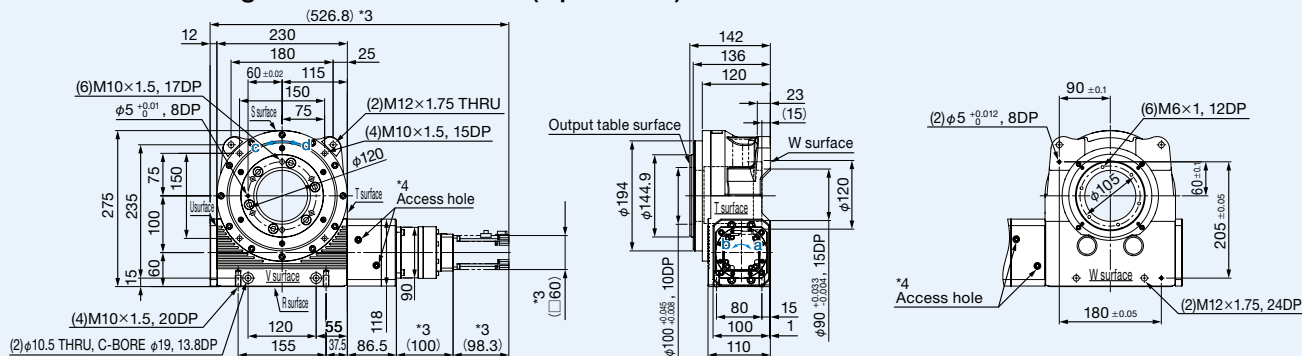
► Dimensions of Standard Gear Ratio Models (Options: B)



► Dimensions of High Gear Ratio Models (Options: None/A)



► Dimensions of High Gear Ratio Models (Options: B)



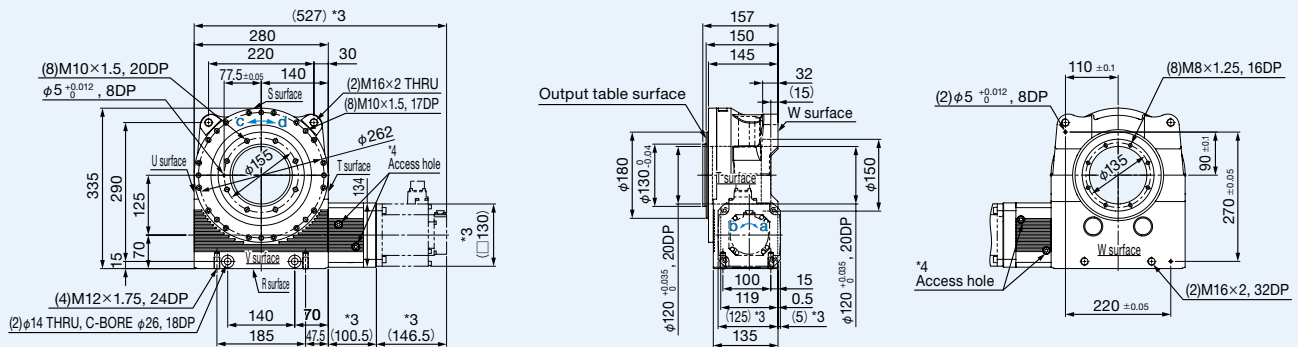
*1 This drawing is for a model where the motor is mounted on the T surface. *2 The rotating directions of input-output axes are related as a-d and b-c.

*3 Dimensions in parentheses () vary depending on the motor. *4 There are two access holes on the V surface and two on the W surface.

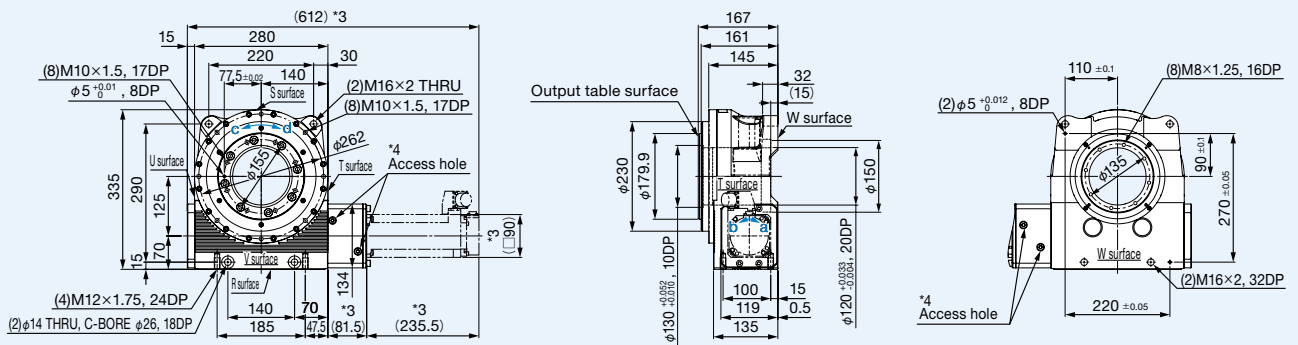
11 *5 Due to its mounting position, the positions of the oil plug, oil level, and drain differ for the oil lubrication type. See P. 23. *6 The servo motor will need to be prepared by the customer.

RGV125 Dimensions

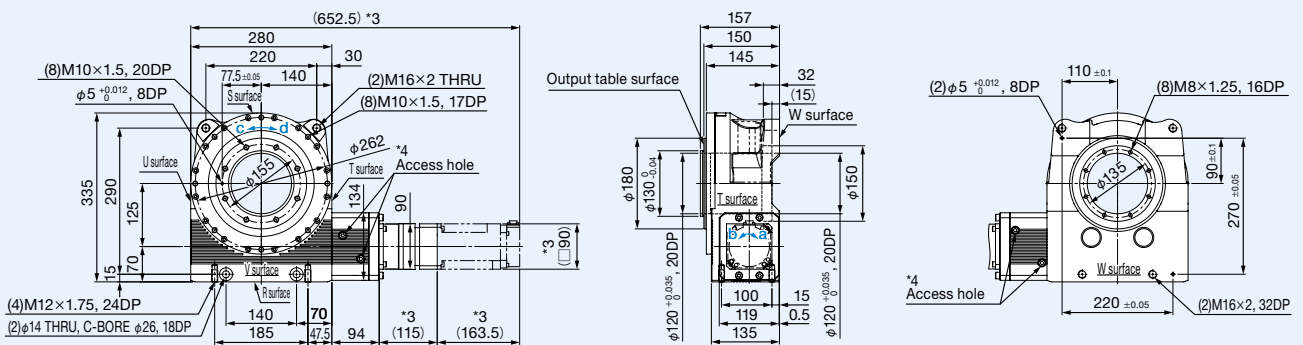
► Dimensions of Standard Gear Ratio Models (Options: None/A)



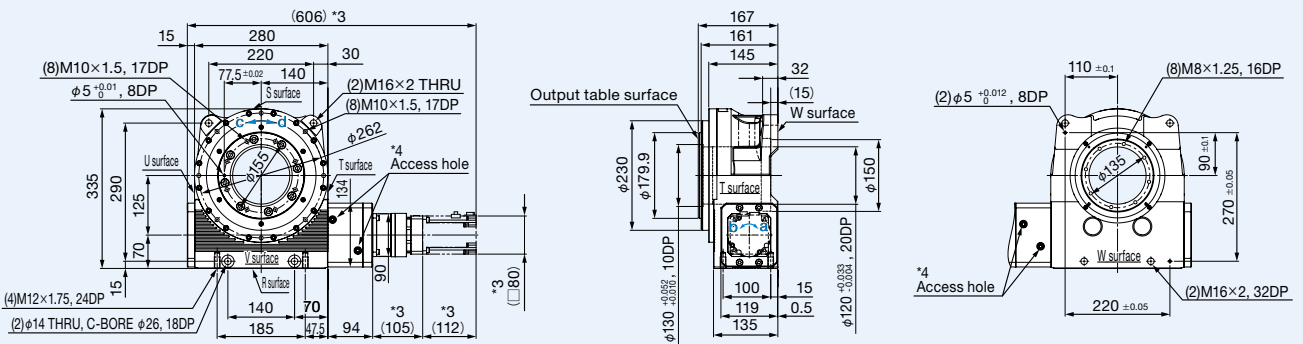
► Dimensions of Standard Gear Ratio Models (Options: B)



► Dimensions of High Gear Ratio Models (Options: None/A)



► Dimensions of High Gear Ratio Models (Options: B)



*1 This drawing is for a model where the motor is mounted on the T surface. *2 The rotating directions of input-output axes are related as a-d and b-c.

*3 Dimensions in parentheses () vary depending on the motor. *4 There are two access holes on the V surface and two on the W surface.

*5 Due to its mounting position, the positions of the oil plug, oil level, and drain differ for the oil lubrication type. See P. 23. *6 The servo motor will need to be prepared by the customer.

List of Mountable Servo Motors

RGV040 Standard gear ratio model [Gear ratio = 15]

Manufacturer	Series	Model	Motor capacity [kW]	Motor rated torque [N · m]	Motor max. torque [N · m]	Rated rotation speed [min ⁻¹]	Motor inertia [× 10 ⁻⁴ kg · m ²]	Attachment code
OMRON	G	R88M-G40030H, T	0.4	1.3	3.67	3,000	0.26	CD
	G5	R88M-K40030H, T	0.4	1.3	3.8	3,000	0.26	CD
KEYENCE	SV	SV-M040	0.4	1.27	4.46	3,000	0.442	DD
	SV2	SV2-M040A	0.4	1.27	4.46	3,000	0.486	DD
Panasonic	MINAS_A5	MSMD042G1	0.4	1.3	3.8	3,000	0.26	CD
		MHMD042G1	0.4	1.3	3.8	3,000	0.67	CD
		MSME042G1	0.4	1.3	3.8	3,000	0.26	CD
	MINAS_A6	MSMF042L1	0.4	1.27	3.82	3,000	0.27	CD
		MHMF042L1	0.4	1.27	4.46	3,000	0.56	CD
FANUC	β is	β iS1/6000	0.5	1.2	5	6,000	0.34	DD
Mitsubishi Electric	J4	HG-MR43	0.4	1.3	3.8	3,000	0.142	DD
		HG-KR43	0.4	1.3	4.5	3,000	0.371	DD
	J5	HK-KT43W	0.4	1.3	4.5	3,000	0.41	DD
		HK-KT434W	0.2	1.3	4.5	1,500	0.41	DD
Yaskawa Electric	Σ - V	SGMAV-04A	0.4	1.27	3.82	3,000	0.19	DD
		SGMAV-06A	0.55	1.75	5.25	3,000	0.326	DD
		SGMJV-04A	0.4	1.27	4.46	3,000	0.442	DD
	Σ - 7	SGM7J-04A	0.4	1.27	4.46	3,000	0.486	DD
		SGM7A-04A	0.4	1.27	4.46	3,000	0.216	DD
Sanyo Denki	R2	R2AA06040H	0.4	1.27	4.8	3,000	0.412	DD
		R2AA06040F	0.4	1.27	4.8	3,000	0.412	DD
	R5	R5AA06040H	0.4	1.27	4.8	3,000	0.414	DD
		R5AA06040F	0.4	1.27	4.8	3,000	0.414	DD

RGV040 High gear ratio model [Gear ratio = 45, 75]

Manufacturer	Series	Model	Motor capacity [kW]	Motor rated torque [N · m]	Motor max. torque [N · m]	Rated rotation speed [min ⁻¹]	Motor inertia [× 10 ⁻⁴ kg · m ²]	Attachment code	Corresponding reduction ratio	
									45	75
OMRON	G	R88M-G10030H, T	0.1	0.32	0.9	3,000	0.051	ZG	-	○
		R88M-G20030H, T	0.2	0.64	1.78	3,000	0.14	BJC	○	-
	G5	R88M-K10030H, T	0.1	0.32	0.95	3,000	0.051	ZG	-	○
		R88M-K20030H, T	0.2	0.64	1.91	3,000	0.14	BJC	○	-
KEYENCE	SV	SV-M010	0.1	0.318	1.11	3,000	0.0665	ZG	-	○
		SV-M020	0.2	0.637	2.23	3,000	0.259	BK	○	-
	SV2	SV2-M010A	0.1	0.318	1.11	3,000	0.0659	ZG	-	○
		SV2-M020A	0.2	0.637	2.23	3,000	0.263	BK	○	-
Panasonic	MINAS_A5	MSMD012G1	0.1	0.32	0.95	3,000	0.051	ZF	-	○
		MSMD022G1	0.2	0.64	1.91	3,000	0.14	BJC	○	-
		MHMD022G1	0.2	0.64	1.91	3,000	0.42	BJC	○	-
		MSME012G1	0.1	0.32	0.95	3,000	0.051	ZF	-	○
		MSME022G1	0.2	0.64	1.91	3,000	0.14	BJC	○	-
	MINAS_A6	MSMF012L1	0.1	0.32	0.95	3,000	0.048	ZF	-	○
		MSMF022L1	0.2	0.64	1.91	3,000	0.14	BJC	○	-
		MHMF012L1	0.1	0.32	1.11	3,000	0.071	ZG	-	○
		MHMF022L1	0.2	0.64	2.23	3,000	0.29	BJC	○	-
FANUC	β is	β iS0.3/5000	0.1	0.32	0.96	4,000	0.034	ZH	-	○
		β iS0.4/5000	0.13	0.4	1	4,000	0.1	BKA	-	○
Mitsubishi Electric	J4	HG-MR13	0.1	0.32	0.95	3,000	0.03	ZG	-	○
		HG-MR23	0.2	0.64	1.9	3,000	0.0865	BM	○	-
		HG-KR13	0.1	0.32	1.1	3,000	0.0777	ZG	-	○
		HG-KR23	0.2	0.64	2.2	3,000	0.221	BM	○	-
	J5	HK-KT13W	0.1	0.32	1.1	3,000	0.0686	ZG	-	○
		HK-KT1M3W	0.15	0.48	1.7	3,000	0.0977	ZG	○	-
		HK-KT13UW	0.1	0.32	1.1	3,000	0.121	BF	-	○
		HK-KT23W	0.2	0.64	2.2	3,000	0.209	BM	○	-
Yaskawa Electric	Σ - V	SGMAV-01A	0.1	0.318	0.955	3,000	0.038	ZG	-	○
		SGMAV-C2A	0.15	0.477	1.43	3,000	0.0531	ZG	○	-
		SGMAV-02A	0.2	0.637	1.91	3,000	0.116	BK	○	-
		SGMJV-01A	0.1	0.318	1.11	3,000	0.0665	ZG	-	○
		SGMJV-C2A	0.15	0.477	1.67	3,000	0.0883	ZG	○	-
		SGMJV-02A	0.2	0.637	2.23	3,000	0.259	BK	○	-
	Σ - 7	SGM7J-01A	0.1	0.318	1.11	3,000	0.0659	ZG	-	○
		SGM7J-C2A	0.15	0.477	1.67	3,000	0.0915	ZG	○	-
		SGM7J-02A	0.2	0.637	2.23	3,000	0.263	BK	○	-
		SGM7A-01A	0.1	0.318	1.11	3,000	0.0337	ZG	-	○
		SGM7A-C2A	0.15	0.477	1.67	3,000	0.0458	ZG	○	-
		SGM7A-02A	0.2	0.637	2.23	3,000	0.139	BK	○	-
		SGM7P-01A	0.1	0.318	0.955	3,000	0.0592	BE	-	○
Sanyo Denki	R2	R2AA04010F	0.1	0.318	1.18	3,000	0.0627	ZH	-	○
		R2AA06010F	0.1	0.318	1.13	3,000	0.117	BF	-	○
		R2AA06020F	0.2	0.637	2.2	3,000	0.219	BM	○	-
	R5	R5AA06020F	0.2	0.637	2.2	3,000	0.198	BM	○	-
		R5AA06020H	0.2	0.637	2.2	3,000	0.198	BM	○	-

*1 The customer will be responsible for preparing a servo motor with no keyway.

*2 Contact Sankyo for servo motors with brakes or with oil seals.

List of Mountable Servo Motors

RGV063 Standard gear ratio model [Gear ratio = 12、24]

Manufacturer	Series	Model	Motor capacity [kW]	Motor rated torque [N · m]	Motor max. torque [N · m]	Rated rotation speed [min ⁻¹]	Motor inertia [× 10 ⁻⁴ kg · m ²]	Attachment code	Corresponding reduction ratio	
									12	24
OMRON	G	R88M-G40030H、T	0.4	1.3	3.67	3,000	0.26	CD	-	○
		R88M-G75030H、T	0.75	2.4	7.05	3,000	0.87	GF	○	○
	G5	R88M-K40030H、T	0.4	1.3	3.8	3,000	0.26	CD	-	○
		R88M-K75030H、T	0.75	2.4	7.1	3,000	0.87	GF	○	○
KEYENCE	SV	SV-M040	0.4	1.27	4.46	3,000	0.442	DD	-	○
	SV2	SV2-M040A	0.4	1.27	4.46	3,000	0.486	DD	-	○
Panasonic	MINAS_A5	MSMD042G1	0.4	1.3	3.8	3,000	0.26	CD	-	○
		MSMD082G1	0.75	2.4	7.1	3,000	0.87	GF	○	○
		MHMD042G1	0.4	1.3	3.8	3,000	0.67	CD	-	○
		MHMD082G1	0.75	2.4	7.1	3,000	1.51	GF	○	○
		MSME042G1	0.4	1.3	3.8	3,000	0.26	CD	-	○
		MSME082G1	0.75	2.4	7.1	3,000	0.87	GF	○	○
	MINAS_A6	MSMF042L1	0.4	1.27	3.82	3,000	0.27	CD	-	○
		MSMF082L1	0.75	2.39	7.16	3,000	0.96	GF	○	○
		MHMF042L1	0.4	1.27	4.46	3,000	0.56	CD	-	○
Mitsubishi Electric	J4	HG-MR43	0.4	1.3	3.8	3,000	0.142	DD	-	○
		HG-MR73	0.75	2.4	7.2	3,000	0.586	FF	○	○
		HG-KR43	0.4	1.3	4.5	3,000	0.371	DD	-	○
	J5	HK-KT43W	0.4	1.3	4.5	3,000	0.41	DD	-	○
		HK-KT63W	0.6	1.9	6.7	3,000	0.598	DD	○	○
		HK-KT43UW	0.4	1.3	4.5	3,000	0.726	ED	-	○
		HK-KT434W	0.2	1.3	4.5	1,500	0.41	DD	-	○
		HK-KT634W	0.3	1.9	6.7	1,500	0.598	DD	○	○
Yaskawa Electric	Σ - V	SGMAV-04A	0.4	1.27	3.82	3,000	0.19	DD	-	○
		SGMAV-06A	0.55	1.75	5.25	3,000	0.326	DD	○	○
		SGMAV-08A	0.75	2.39	7.16	3,000	0.769	FF	○	○
		SGMJV-04A	0.4	1.27	4.46	3,000	0.442	DD	-	○
		SGMJV-06A	0.6	1.91	6.69	3,000	0.667	DD	○	○
	Σ - 7	SGM7J-04A	0.4	1.27	4.46	3,000	0.486	DD	-	○
		SGM7J-06A	0.6	1.91	6.69	3,000	0.8	DD	○	○
		SGM7A-04A	0.4	1.27	4.46	3,000	0.216	DD	-	○
		SGM7A-06A	0.6	1.91	6.69	3,000	0.315	DD	○	○
Sanyo Denki	R2	R2AA06040F	0.4	1.27	4.8	3,000	0.412	DD	-	○
		R2AA06040H	0.4	1.27	4.8	3,000	0.412	DD	-	○
		R2AA08040F	0.4	1.27	4.4	3,000	1.04	ED	-	○
	R5	R5AA06040F	0.4	1.27	4.8	3,000	0.414	DD	-	○
		R5AA06040H	0.4	1.27	4.8	3,000	0.414	DD	-	○
		R5AA08075F	0.75	2.39	7.5	3,000	1.65	FE	-	○

RGV063 High gear ratio model [Gear ratio = 36、60、72、120]

Manufacturer	Series	Model	Motor capacity [kW]	Motor rated torque [N · m]	Motor max. torque [N · m]	Rated rotation speed [min ⁻¹]	Motor inertia [× 10 ⁻⁴ kg · m ²]	Attachment code	Corresponding reduction ratio			
									36	60	72	120
OMRON	G	R88M-G10030H、T	0.10	0.32	0.90	3,000	0.051	AG	-	-	-	○
		R88M-G20030H、T	0.20	0.64	1.78	3,000	0.14	BJC	○	-	○	-
	G5	R88M-K10030H、T	0.10	0.32	0.95	3,000	0.051	AG	-	-	-	○
		R88M-K20030H、T	0.20	0.64	1.91	3,000	0.14	BJC	○	-	○	-
KEYENCE	SV	SV-M010	0.10	0.318	1.11	3,000	0.0665	AG	-	-	-	○
		SV-M020	0.20	0.637	2.23	3,000	0.259	BK	○	-	○	-
	SV2	SV2-M010A	0.10	0.318	1.11	3,000	0.0659	AG	-	-	-	○
		SV2-M020A	0.20	0.637	2.23	3,000	0.263	BK	○	-	○	-
Panasonic	MINAS_A5	MSMD012G1	0.10	0.32	0.95	3,000	0.051	AF	-	-	-	○
		MSMD022G1	0.20	0.64	1.91	3,000	0.14	BJC	○	-	○	-
		MHMD022G1	0.20	0.64	1.91	3,000	0.42	BJC	○	-	○	-
		MSME012G1	0.10	0.32	0.95	3,000	0.051	AF	-	-	-	○
		MSME022G1	0.20	0.64	1.91	3,000	0.14	BJC	○	-	○	-
	MINAS_A6	MSMF012L1	0.10	0.32	0.95	3,000	0.048	AF	-	-	-	○
		MSMF022L1	0.20	0.64	1.91	3,000	0.27	BJC	○	-	○	-
		MHMF012L1	0.10	0.32	1.11	3,000	0.071	AG	-	-	-	○
		MHMF022L1	0.20	0.64	2.23	3,000	0.56	BJC	○	-	○	-
Mitsubishi Electric	J4	HG-MR13	0.10	0.32	0.95	3,000	0.03	AG	-	-	-	○
		HG-MR23	0.20	0.64	1.90	3,000	0.0865	BM	○	-	○	-
		HG-KR13	0.10	0.32	1.10	3,000	0.0777	AG	-	-	-	○
		HG-KR23	0.20	0.64	2.20	3,000	0.221	BM	○	-	○	-
	J5	HK-KT13W	0.10	0.32	1.10	3,000	0.0686	AG	-	-	-	○
		HK-KT1M3W	0.15	0.48	1.70	3,000	0.0977	AG	-	-	○	-
		HK-KT13UW	0.10	0.32	1.10	3,000	0.121	BF	-	-	-	○
		HK-KT23W	0.20	0.64	2.20	3,000	0.209	BM	○	-	○	-
Yaskawa Electric	Σ - V	SGMAV-01A	0.10	0.318	0.955	3,000	0.038	AG	-	-	-	○
		SGMAV-C2A	0.15	0.477	1.43	3,000	0.0531	AG	-	○	○	-
		SGMAV-02A	0.20	0.637	1.91	3,000	0.116	BK	○	-	○	-
		SGMJV-01A	0.10	0.318	1.11	3,000	0.0665	AG	-	-	-	○
		SGMJV-C2A	0.15	0.477	1.67	3,000	0.0883	AG	-	-	○	-
		SGMJV-02A	0.20	0.637	2.23	3,000	0.259	BK	○	-	○	-
	Σ - 7	SGM7J-01A	0.10	0.318	1.11	3,000	0.0659	AG	-	-	-	○
		SGM7J-C2A	0.15	0.477	1.67	3,000	0.0915	AG	-	-	○	-
		SGM7J-02A	0.20	0.637	2.23	3,000	0.263	BK	○	-	○	-
		SGM7A-01A	0.10	0.318	1.11	3,000	0.0337	AG	-	-	-	○
		SGM7A-C2A	0.15	0.477	1.67	3,000	0.0458	AG	-	-	○	-
		SGM7A-02A	0.20	0.637	2.23	3,000	0.139	BK	○	-	○	-
		SGM7P-01A	0.10	0.318	0.955	3,000	0.0592	BE	-	-	-	○
		SGM7P-02A	0.20	0.637	1.91	3,000	0.263	DF	○	-	○	-
Sanyo Denki	R2	R2AA04010F	0.10	0.318	1.18	3,000	0.0627	AH	-	-	-	○
		R2AA06010F	0.10	0.318	1.13	3,000	0.117	BF	-	-	-	○
		R2AA06020F	0.20	0.637	2.20	3,000	0.219	BM	○	-	○	-
		R2AA08020F	0.20	0.637	2.20	3,000	0.52	DM	○	-	○	-
	R5	R5AA06020H	0.20	0.637	2.20	3,000	0.198	BM	○	-	○	-
		R5AA06020F	0.20	0.637	2.20	3,000	0.198	BM	○	-	○	-

*1 The customer will be responsible for preparing a servo motor with no keyway.

*2 Contact Sanyo for servo motors with brakes or with oil seals.

List of Mountable Servo Motors

RGV080 Standard gear ratio model [Gear ratio = 12, 24]

Manufacturer	Series	Model	Motor capacity [kW]	Motor rated torque [N · m]	Motor max. torque [N · m]	Rated rotation speed [min ⁻¹]	Motor inertia [× 10 ⁻⁴ kg · m ²]	Attachment code	Corresponding reduction ratio	
									12	24
OMRON	G	R88M-G75030H, T	0.75	2.4	7.05	3,000	0.87	HE	○	○
		R88M-G1K030T	1	3.18	9.1	3,000	1.69	IE	○	○
		R88M-G1K530T	1.5	4.77	12.8	3,000	2.59	JE	○	○
	G5	R88M-K75030H, T	0.75	2.4	7.1	3,000	0.87	HE	○	○
		R88M-K1K030H, T	1	3.18	9.55	3,000	2.03	JE	○	○
KEYENCE	SV	SV-M075	0.75	2.39	8.36	3,000	1.57	FE	○	○
	SV2	SV2-M075A	0.75	2.39	8.36	3,000	1.59	FE	○	○
Panasonic	MINAS A5	MSMD082G1	0.75	2.4	7.1	3,000	0.87	HE	○	○
		MHMD082G1	0.75	2.4	7.1	3,000	1.51	HE	○	○
		MSME082G1	0.75	2.4	7.1	3,000	0.87	HE	○	○
		MSME102G1	1	3.18	9.55	3,000	2.03	JE	○	○
	MINAS A6	MSMF082L1	0.75	2.39	7.16	3,000	0.96	HE	○	○
		MSMF092L1	1	3.18	9.55	3,000	1.26	HE	○	○
		MSMF102L1	1	3.18	9.55	3,000	2.15	JE	○	○
		MHMF082L1	0.75	2.39	8.36	3,000	1.56	HE	○	○
		MHMF092L1	1	3.18	11.1	3,000	2.03	HE	○	○
FANUC	α iF	α iF2/5000	0.75	2	8.3	4,000	5.26	AA	-	○
	α iS	α iS2/5000	0.75	2	7.8	4,000	2.91	AA	-	○
		α iS2/6000	1	2	6	6,000	2.91	AA	-	○
		α iS4/5000	1	4	8.8	4,000	5.15	AC	○	○
		α iS4/6000	1	3	7.5	6,000	5.15	AC	○	○
	β iS	β iS2/4000	0.5	2	7	4,000	2.91	AA	-	○
		β iS4/4000	0.75	3.5	10	3,000	5.15	AC	○	○
Mitsubishi Electric	J4	HG-MR73	0.75	2.4	7.2	3,000	0.586	FE	○	○
		HG-KR73	0.75	2.4	8.4	3,000	1.26	FE	○	○
		HG-JR73	0.75	2.4	7.2	3,000	2.09	GD	○	○
		HG-JR103	1	3.2	9.6	3,000	2.65	GD	○	○
	J5	HK-KT63W	0.6	1.9	6.7	3,000	0.598	CB	-	○
		HK-KT7M3W	0.75	2.4	8.4	3,000	1.37	FE	○	○
		HK-KT103W	1	3.2	11.1	3,000	1.68	FE	○	○
		HK-KT7M3UW	0.75	2.4	8.4	3,000	2.11	GE	○	○
		HK-KT103UW	1	3.2	11.1	3,000	2.74	GE	○	○
		HK-KT634W	0.3	1.9	6.7	1,500	0.598	CB	-	○
		HK-KT7M34W	0.375	2.4	8.4	1,500	1.37	FE	○	○
		HK-KT1034W	0.5	3.2	11.1	1,500	1.68	FE	○	○
Yaskawa Electric	Σ - V	SGMAV-08A	0.75	2.39	7.16	3,000	0.769	FE	○	○
		SGMAV-10A	1	3.18	9.55	3,000	1.2	FE	○	○
		SGMGV-03A	0.3	1.96	5.88	1,500	2.48	EB	-	○
		SGMGV-05A	0.45	2.86	8.92	1,500	3.33	GD	○	○
		SGMSV-10A	1	3.18	9.54	3,000	1.74	LG	○	○
		SGMJV-06A	0.6	1.91	6.69	3,000	0.667	CB	-	○
		SGMJV-08A	0.75	2.39	8.36	3,000	1.57	FE	○	○
	Σ - 7	SGM7J-06A	0.6	1.91	6.69	3,000	0.8	CB	-	○
		SGM7J-08A	0.75	2.39	8.36	3,000	1.59	FE	○	○
		SGM7A-06A	0.6	1.91	6.69	3,000	0.315	CB	-	○
		SGM7A-08A	0.75	2.39	8.36	3,000	0.775	FE	○	○
		SGM7A-10A	1	3.18	11.1	3,000	0.971	FE	○	○
		SGM7G-03A	0.3	1.96	5.88	1,500	2.48	GD	-	○
		SGM7G-05A	0.45	2.86	8.92	1,500	3.33	GD	○	○
Sanyo Denki	R2	R2AA08075F	0.75	2.39	8.5	3,000	1.82	FD	○	○
		R2AAB8100H	1	3.18	11.6	3,000	2.38	ED	○	○
		R2AA10075F	0.75	2.39	8.6	3,000	2	KF	○	○
		R2AAB8075F	0.75	2.38	11	3,000	1.64	ED	○	○
	R5	R5AA08075D	0.75	2.39	8.5	3,000	1.65	FD	○	○
		R5AA08075F	0.75	2.39	7.5	3,000	1.65	FD	○	○

*1 The customer will be responsible for preparing a servo motor with no keyway.

*2 Contact Sankyo for servo motors with brakes or with oil seals.

List of Mountable Servo Motors

RGV080 High gear ratio model [Gear ratio = 36, 60, 72, 120]

Manufacturer	Series	Model	Motor capacity [kW]	Motor rated torque [N · m]	Motor max. torque [N · m]	Rated rotation speed [min ⁻¹]	Motor inertia [× 10 ⁻⁴ kg · m ²]	Attachment code	Corresponding reduction ratio			
									36	60	72	120
OMRON	G	R88M-G20030H, T	0.2	0.64	1.78	3,000	0.14	BJC	-	○	-	○
		R88M-G40030H, T	0.4	1.3	3.67	3,000	0.26	BJ	○	-	○	-
	G5	R88M-K20030H, T	0.2	0.64	1.91	3,000	0.14	BJC	-	○	-	○
		R88M-K40030H, T	0.4	1.3	3.8	3,000	0.26	BJ	○	-	○	-
KEYENCE	SV	SV-M020	0.2	0.637	2.23	3,000	0.259	BK	-	○	-	○
		SV-M040	0.4	1.27	4.46	3,000	0.442	BK	-	-	○	-
	SV2	SV2-M020A	0.2	0.637	2.23	3,000	0.263	BK	-	○	-	○
		SV2-M040A	0.4	1.27	4.46	3,000	0.486	BK	-	-	○	-
Panasonic	MINAS_A5	MSMD022G1	0.2	0.64	1.91	3,000	0.14	BJC	-	○	-	○
		MSMD042G1	0.4	1.3	3.8	3,000	0.26	BJ	○	-	○	-
		MHMD022G1	0.2	0.64	1.91	3,000	0.42	BJC	-	○	-	○
		MHMD042G1	0.4	1.3	3.8	3,000	0.67	BJ	○	-	○	-
		MSME022G1	0.2	0.64	1.91	3,000	0.14	BJC	-	○	-	○
		MSME042G1	0.4	1.3	3.8	3,000	0.26	BJ	○	-	○	-
	MINAS_A6	MSMF022L1	0.2	0.64	1.91	3,000	0.14	BJC	-	○	-	○
		MSMF042L1	0.4	1.27	3.82	3,000	0.27	BJ	○	-	○	-
		MHMF022L1	0.2	0.64	2.23	3,000	0.29	BJC	-	○	-	○
		MHMF042L1	0.4	1.27	4.46	3,000	0.56	BJ	-	-	○	-
FANUC	β iS	β iS0.5/6000	0.35	0.65	2.5	6,000	0.18	BKA	-	○	-	○
Mitsubishi Electric	J4	HG-MR23	0.2	0.64	1.9	3,000	0.0865	BM	-	○	-	○
		HG-MR43	0.4	1.3	3.8	3,000	0.142	BM	○	-	○	-
		HG-KR23	0.2	0.64	2.2	3,000	0.221	BM	-	○	-	○
	J5	HK-KT1M3W	0.15	0.48	1.7	3,000	0.0977	AG	-	-	-	○
		HK-KT23W	0.2	0.64	2.2	3,000	0.209	BM	-	○	-	○
		HK-KT23UW	0.2	0.64	1.9	3,000	0.419	DG	-	○	-	○
Yaskawa Electric	Σ -V	SGMAV-C2A	0.15	0.477	1.43	3,000	0.0531	AG	-	-	-	○
		SGMAV-02A	0.2	0.637	1.91	3,000	0.116	BK	-	○	-	○
		SGMAV-04A	0.4	1.27	3.82	3,000	0.19	BK	○	-	○	-
		SGMJV-C2A	0.15	0.477	1.67	3,000	0.0883	AG	-	-	-	○
		SGMJV-02A	0.2	0.637	2.23	3,000	0.259	BK	-	○	-	○
		SGMJV-04A	0.4	1.27	4.46	3,000	0.442	BK	-	-	○	-
	Σ -7	SGM7J-C2A	0.15	0.477	1.67	3,000	0.0915	AG	-	-	-	○
		SGM7J-02A	0.2	0.637	2.23	3,000	0.263	BK	-	○	-	○
		SGM7J-04A	0.4	1.27	4.46	3,000	0.486	BK	-	-	○	-
		SGM7A-C2A	0.15	0.477	1.67	3,000	0.0458	AG	-	-	-	○
		SGM7A-02A	0.2	0.637	2.23	3,000	0.139	BK	-	○	-	○
		SGM7A-04A	0.4	1.27	4.46	3,000	0.216	BK	-	-	○	-
Sanyo Denki	R2	R2AA06020F	0.2	0.637	2.2	3,000	0.219	BM	-	○	-	○
		R2AA08020F	0.2	0.637	2.2	3,000	0.52	DG	-	○	-	○
		R2AA08040F	0.4	1.27	4.4	3,000	1.04	DG	-	-	○	-
	R5	R5AA06020F	0.2	0.637	2.2	3,000	0.198	BM	-	○	-	○
		R5AA06020H	0.2	0.637	2.2	3,000	0.198	BM	-	○	-	○

*1 The customer will be responsible for preparing a servo motor with no keyway.

*2 Contact Sankyo for servo motors with brakes or with oil seals.

List of Mountable Servo Motors

RGV100 Standard gear ratio model [Gear ratio = 12, 24]

Manufacturer	Series	Model	Motor capacity [kW]	Motor rated torque [N · m]	Motor max. torque [N · m]	Rated rotation speed [min ⁻¹]	Motor inertia [× 10 ⁻⁴ kg · m ²]	Attachment code	Corresponding reduction ratio	
									12	24
OMRON	G	R88M-G1K530T	1.5	4.77	12.8	3,000	2.59	HE	○	○
		R88M-G2K030T	2	6.36	18.4	3,000	3.46	HE	○	○
		R88M-G3K030T	3	9.54	27	3,000	6.77	IF	○	○
	G5	R88M-K1K530H, T	1.5	4.77	14.3	3,000	2.84	HE	○	○
		R88M-K2K030H, T	2	6.37	19.1	3,000	3.68	HE	○	○
		R88M-K3K030H, T	3	9.55	28.6	3,000	6.5	IF	○	○
KEYENCE	SV	SV-M100	0.85	5.39	13.8	1,500	13.9	IE	○	○
		SV-M150	1.3	8.34	23.3	1,500	19.9	IF	○	○
		SV-M200	1.8	11.5	28.7	1,500	26	IG	○	○
	SV2	SV2-M100A	0.85	5.39	14.2	1,500	13.9	IG	○	○
		SV2-M150A	1.3	8.34	23.3	1,500	19.9	IG	○	○
		SV2-M200A	1.8	11.5	28.7	1,500	26	IG	○	○
Panasonic	MINAS A5	MSME152G1	1.5	4.77	14.3	3,000	2.84	HE	○	○
		MSME202G1	2	6.37	19.1	3,000	3.68	HE	○	○
		MSME302G1	3	9.55	28.6	3,000	6.5	IF	○	○
		MDME102G1	1	4.77	14.3	2,000	4.6	IF	○	○
		MDME152G1	1.5	7.16	21.5	2,000	6.7	IF	○	○
		MDME202G1	2	9.55	28.6	2,000	8.72	IF	○	○
	MINAS A6	MSMF152L1	1.5	4.77	14.3	3,000	3.1	HE	○	○
		MSMF202L1	2	6.37	19.1	3,000	4.06	HE	○	○
		MSMF302L1	3	9.55	28.6	3,000	7.04	IF	○	○
		MHMF102L1	1	4.77	14.3	2,000	22.9	LF	○	○
		MHMF152L1	1.5	7.16	21.5	2,000	33.4	LF	○	○
		MDMF102L1	1	4.77	14.3	2,000	6.18	IF	○	○
		MDMF152L1	1.5	7.16	21.5	2,000	9.16	IF	○	○
		MDMF202L1	2	9.55	28.6	2,000	12.1	IF	○	○
FANUC	α iF	α iF4/5000	1.4	4	15	4,000	13.5	IE	○	○
		α iF8/3000	1.6	8	29	3,000	25.7	IE	○	○
		α iF8/4000	2.2	8	32	4,000	25.7	IE	-	○
	α iS	α iS4/5000	1	4	8.8	4,000	5.15	AC	○	○
		α iS8/4000	2.5	8	32	4,000	11.7	IE	-	○
		α iS8/6000	2.2	8	22	6,000	11.7	IE	○	○
	β iS	β iS12/2000	1.4	10.5	21	2,000	22.8	IG	○	○
		β iS12/3000	1.8	11	27	2,000	22.8	IG	○	○
		β iS8/3000	1.2	7	15	2,000	11.7	IE	○	○
Mitsubishi Electric	J4	HG-SR51	0.5	4.8	14.3	1,000	11.6	IG	○	○
		HG-SR81	0.85	8.1	24.4	1,000	16	IG	○	○
		HG-SR102	1	4.8	14.3	2,000	11.6	IG	○	○
		HG-SR152	1.5	7.2	21.5	2,000	16	IG	○	○
		HG-JR153	1.5	4.8	14.3	3,000	3.79	BD	○	○
		HG-JR203	2	6.4	19.1	3,000	4.92	BD	○	○
		HG-JR353	3.3	10.5	32	3,000	13.2	IH	-	○
	J5	HK-KT153W	1.5	4.8	16.7	3,000	4.38	BE	○	○
		HK-KT203W	2	6.4	19.1	3,000	5.65	BE	○	○
		HK-KT202W	2	9.5	28.6	2,000	8.18	BE	○	○
		HK-KT1534W	0.75	4.8	21.5	1,500	4.38	BE	○	○
		HK-KT2034W	1	6.4	25.5	1,500	5.65	BE	○	○
		HK-ST102W	1	4.8	14.3	2,000	8.65	IG	○	○
		HK-ST172W	1.75	8.4	25.1	2,000	11.4	IG	○	○
		HK-ST202AW	2	9.5	28.6	2,000	16.9	IG	○	○
		HK-ST1024W	0.6	5.7	17.2	1,000	8.65	IG	○	○
		HK-ST1724W	0.85	8.1	24.4	1,000	11.4	IG	○	○
Yaskawa Electric	Σ -V	SGMGV-09A	0.85	5.39	13.8	1,500	13.9	IE	○	○
		SGMGV-13A	1.3	8.34	23.3	1,500	19.9	IF	○	○
		SGMGV-20A	1.8	11.5	28.7	1,500	26	IG	○	○
		SGMSV-15A	1.5	4.9	14.7	3,000	2	KG	-	○
		SGMSV-20A	2	6.36	19.1	3,000	2.47	KG	○	○
		SGMSV-25A	2.5	7.96	23.9	3,000	3.19	KG	○	○
		SGMSV-30A	3	9.8	29.4	3,000	7	LH	○	○
	Σ -7	SGM7A-15A	1.5	4.9	14.7	3,000	2	KG	○	○
		SGM7A-20A	2	6.36	19.1	3,000	2.47	KG	○	○
		SGM7A-25A	2.5	7.96	23.9	3,000	3.19	KG	○	○
		SGM7A-30A	3	9.8	29.4	3,000	7	LH	○	○
		SGM7P-15A	1.5	4.77	14.3	3,000	4.02	JE	○	○
		SGM7G-09A	0.85	5.39	14.2	1,500	13.9	IG	○	○
		SGM7G-13A	1.3	8.34	23.3	1,500	19.9	IG	○	○
		SGM7G-20A	1.8	11.5	28.7	1,500	26	IG	○	○
Sanyo Denki	R2	R2AA13120B	1.2	5.7	16	2,000	6	IF	○	○
		R2AA13120D	1.2	5.7	16	2,000	6	IF	○	○
		R2AA13120L	1.2	5.7	20	2,000	6	IF	○	○
		R2AA13180D	1.8	8.6	25	2,000	9	IF	○	○
		R2AA13180H	1.8	8.6	22	2,000	9	IF	○	○
		R2AA13200D	2	9.5	30	2,000	12.2	IH	○	○
		R2AA13200L	2	9.5	24	2,000	12.2	IH	○	○

*1 The customer will be responsible for preparing a servo motor with no keyway.

*2 Contact Sankyo for servo motors with brakes or with oil seals.

List of Mountable Servo Motors

RGV100 High gear ratio model [Gear ratio = 36, 60, 72, 120]

Manufacturer	Series	Model	Motor capacity [kW]	Motor rated torque [N · m]	Motor max. torque [N · m]	Rated rotation speed [min ⁻¹]	Motor inertia [× 10 ⁻⁴ kg · m ²]	Attachment code	Corresponding reduction ratio			
									36	60	72	120
OMRON	G	R88M-G40030H, T	0.4	1.3	3.67	3,000	0.26	BJ	-	○	○	○
		R88M-G75030H, T	0.75	2.4	7.05	3,000	0.87	DB	○	-	○	-
		R88M-G1K030T	1	3.18	9.1	3,000	1.69	EC	○	-	○	-
	G5	R88M-K40030H, T	0.4	1.3	3.8	3,000	0.26	BJ	-	○	○	○
		R88M-K75030H, T	0.75	2.4	7.1	3,000	0.87	DB	○	-	○	-
		R88M-K1K030H, T	1	3.18	9.55	3,000	2.03	FB	○	-	○	-
KEYENCE	SV	SV-M040	0.4	1.27	4.46	3,000	0.442	BK	-	○	○	○
		SV-M075	0.75	2.39	8.36	3,000	1.57	DC	○	-	○	-
	SV2	SV2-M040A	0.4	1.27	4.46	3,000	0.486	BK	-	○	○	○
		SV2-M075A	0.75	2.39	8.36	3,000	1.59	DC	○	-	○	-
Panasonic	MINAS A5	MSMD042G1	0.4	1.3	3.8	3,000	0.26	BJ	-	○	○	○
		MSMD082G1	0.75	2.4	7.1	3,000	0.87	DB	○	-	○	-
		MHMD042G1	0.4	1.3	3.8	3,000	0.67	BJ	-	○	○	○
		MHMD082G1	0.75	2.4	7.1	3,000	1.51	DB	○	-	○	-
		MSME042G1	0.4	1.3	3.8	3,000	0.26	BJ	-	○	○	○
		MSME082G1	0.75	2.4	7.1	3,000	0.87	DB	○	-	○	-
		MSME102G1	1	3.18	9.55	3,000	2.03	FB	○	-	○	-
	MINAS A6	MSMF042L1	0.4	1.27	3.82	3,000	0.27	BJ	-	○	○	○
		MSMF082L1	0.75	2.39	7.16	3,000	0.96	DB	○	-	○	-
		MSMF092L1	1	3.18	9.55	3,000	1.26	DB	○	-	○	-
		MSMF102L1	1	3.18	9.55	3,000	2.15	FB	○	-	○	-
		MHMF042L1	0.4	1.27	4.46	3,000	0.56	BJ	-	○	○	○
		MHMF082L1	0.75	2.39	8.36	3,000	1.56	DB	○	-	○	-
FANUC	α iF	α iF1/5000	0.5	1	5.3	5,000	3.05	EDB	-	○	-	○
		α iF2/5000	0.75	2	8.3	4,000	5.26	EDB	○	-	○	-
	α iS	α iS2/5000	0.75	2	7.8	4,000	2.91	EDB	○	-	○	-
		α iS2/6000	1	2	6	6,000	2.91	EDB	○	○	○	○
		α iS4/5000	1	4	8.8	4,000	5.15	ED	○	-	○	-
		α iS4/6000	1	3	7.5	6,000	5.15	ED	○	-	○	-
	β iS	β iS2/4000	0.5	2	7	4,000	2.91	EDB	○	-	○	-
		β iS4/4000	0.75	3.5	10	3,000	5.15	ED	○	-	○	-
Mitsubishi Electric	J4	HG-MR43	0.4	1.3	3.8	3,000	0.142	BM	-	○	○	○
		HG-MR73	0.75	2.4	7.2	3,000	0.586	DC	○	-	○	○
		HG-KR43	0.4	1.3	4.5	3,000	0.371	BM	-	○	○	○
		HG-KR73	0.75	2.4	8.4	3,000	1.26	DC	○	-	○	-
		HG-JR53	0.5	1.6	4.8	3,000	1.52	ECD	○	○	○	○
		HG-JR73	0.75	2.4	7.2	3,000	2.09	ECD	○	-	○	-
		HG-JR103	1	3.2	9.6	3,000	2.65	ECD	○	-	○	-
	J5	HK-KT43W	0.4	1.3	4.5	3,000	0.41	BM	-	○	○	○
		HK-KT63W	0.6	1.9	6.7	3,000	0.598	BM	○	-	○	-
		HK-KT43UW	0.4	1.3	4.5	3,000	0.726	DG	-	○	○	○
		HK-KT7M3W	0.75	2.4	8.4	3,000	1.37	DC	○	-	○	-
		HK-KT7M3UW	0.75	2.4	8.4	3,000	2.11	EB	○	-	○	-
		HK-KT434W	0.2	1.3	4.5	1,500	0.41	BM	-	○	○	○
		HK-KT634W	0.3	1.9	6.7	1,500	0.598	BM	○	-	○	-
		HK-KT7M34W	0.375	2.4	8.4	1,500	1.37	DC	○	-	○	-
		HK-ST52W	0.5	2.4	7.2	2,000	5.9	HFF	○	-	○	-
Yaskawa Electric	Σ -V	SGMAV-04A	0.4	1.27	3.82	3,000	0.19	BK	-	○	○	○
		SGMAV-06A	0.55	1.75	5.25	3,000	0.326	BK	○	○	○	○
		SGMAV-08A	0.75	2.39	7.16	3,000	0.769	DC	○	-	○	-
		SGMAV-10A	1	3.18	9.55	3,000	1.2	DC	○	-	○	-
		SGMGV-03A	0.3	1.96	5.88	1,500	2.48	ED	○	○	○	○
		SGMGV-05A	0.45	2.86	8.92	1,500	3.33	ECD	○	-	○	-
		SGMJV-04A	0.4	1.27	4.46	3,000	0.442	BK	-	○	○	○
		SGMJV-06A	0.6	1.91	6.69	3,000	0.667	BK	○	-	○	-
		SGMJV-08A	0.75	2.39	8.36	3,000	1.59	DC	○	-	○	-
	Σ -7	SGM7J-04A	0.4	1.27	4.46	3,000	0.486	BK	-	○	○	○
		SGM7J-06A	0.6	1.91	6.69	3,000	0.8	BK	○	-	○	-
		SGM7J-08A	0.75	2.39	8.36	3,000	1.59	DC	○	-	○	-
		SGM7A-04A	0.4	1.27	4.46	3,000	0.216	BK	-	○	○	○
		SGM7A-06A	0.6	1.91	6.69	3,000	0.315	BK	○	-	○	-
		SGM7A-08A	0.75	2.39	8.36	3,000	0.775	DC	○	-	○	-
		SGM7P-04A	0.4	1.27	3.82	3,000	0.409	DF	-	○	○	○
		SGM7P-08A	0.75	2.39	7.16	3,000	2.1	HA	○	-	○	-
		SGM7G-03A	0.3	1.96	5.88	1,500	2.48	ECD	○	○	○	○
		SGM7G-05A	0.45	2.86	8.92	1,500	3.33	ECD	○	-	○	-
Sanyo Denki	R2	R2AA06040F	0.4	1.27	4.8	3,000	0.412	BM	-	○	○	○
		R2AA06040H	0.4	1.27	4.8	3,000	0.412	BM	-	○	○	○
		R2AA08040F	0.4	1.27	4.4	3,000	1.04	DG	-	○	○	○
		R2AA08075F	0.75	2.39	8.5	3,000	1.82	DCD	○	-	○	-
	R5	R5AA06040F	0.4	1.27	4.8	3,000	0.414	BM	-	○	○	○
		R5AA06040H	0.4	1.27	4.8	3,000	0.414	BM	-	○	○	○
		R5AA08075D	0.75	2.39	8.5	3,000	1.65	DCD	○	-	○	-
		R5AA08075F	0.75	2.39	7.5	3,000	1.65	DCD	○	-	○	-

*1 The customer will be responsible for preparing a servo motor with no keyway.

*2 Contact Sankyo for servo motors with brakes or with oil seals.

List of Mountable Servo Motors

RGV125 Standard gear ratio model [Gear ratio = 12, 24]

Manufacturer	Series	Model	Motor capacity [kW]	Motor rated torque [N · m]	Motor max. torque [N · m]	Rated rotation speed [min ⁻¹]	Motor inertia [× 10 ⁻⁴ kg · m ²]	Attachment code	Corresponding reduction ratio	
									12	24
OMRON	G	R88M-G1K530T	1.5	4.77	12.8	3,000	2.59	OB	○	○
		R88M-G2K030T	2	6.36	18.4	3,000	3.46	OB	○	○
		R88M-G3K030T	3	9.54	27	3,000	6.77	PC	○	○
		R88M-G4K030T	4	12.6	36.3	3,000	12.7	ID	○	○
		R88M-G5K030T	5	15.8	45.1	3,000	17.8	ID	○	○
	G5	R88M-K1K530H, T	1.5	4.77	14.3	3,000	2.84	OB	○	○
		R88M-K2K030H, T	2	6.37	19.1	3,000	3.68	OB	○	○
		R88M-K3K030H, T	3	9.55	28.6	3,000	6.5	PC	○	○
		R88M-K4K030H, T	4	12.7	38.2	3,000	12.9	ID	○	○
		R88M-K5K030H, T	5	15.9	47.7	3,000	17.4	ID	○	○
KEYENCE	SV	SV-M100	0.85	5.39	13.8	1,500	13.9	PB	○	○
		SV-M150	1.3	8.34	23.3	1,500	19.9	PC	○	○
		SV-M200	1.8	11.5	28.7	1,500	26	PD	○	○
	SV3	SV2-M100A	0.85	5.39	14.2	1,500	13.9	PD	○	○
		SV2-M150A	1.3	8.34	23.3	1,500	19.9	PD	○	○
		SV2-M200A	1.8	11.5	28.7	1,500	26	PD	○	○
Panasonic	MINAS_A5	MSME152G1	1.5	4.77	14.3	3,000	2.84	OB	○	○
		MSME202G1	2	6.37	19.1	3,000	3.68	OB	○	○
		MSME302G1	3	9.55	28.6	3,000	6.5	PC	○	○
		MSME402G1	4	12.7	38.2	3,000	12.9	ID	○	○
		MSME502G1	5	15.9	47.7	3,000	17.4	ID	○	○
		MDME102G1	1	4.77	14.3	2,000	4.6	PC	○	○
		MDME152G1	1.5	7.16	21.5	2,000	6.7	PC	○	○
		MDME202G1	2	9.55	28.6	2,000	8.72	PC	○	○
		MDME302G1	3	14.3	43	2,000	12.9	ID	○	○
	MINAS_A6	MSMF152L1	1.5	4.77	14.3	3,000	3.1	OB	○	○
		MSMF202L1	2	6.37	19.1	3,000	4.06	OB	○	○
		MSMF302L1	3	9.55	28.6	3,000	7.04	PC	○	○
		MSMF402L1	4	12.7	38.2	3,000	14.4	ID	○	○
		MSMF502L1	5	15.9	47.7	3,000	19	ID	○	○
		MHMF102L1	1	4.77	14.3	2,000	22.9	IC	○	○
		MHMF152L1	1.5	7.16	21.5	2,000	33.4	IC	○	○
		MDMF102L1	1	4.77	14.3	2,000	6.18	PC	○	○
		MDMF152L1	1.5	7.16	21.5	2,000	9.16	PC	○	○
		MDMF202L1	2	9.55	28.6	2,000	12.1	PC	○	○
		MDMF302L1	3	14.3	43	2,000	18.6	ID	○	○
FANUC	α iF	α iF8/3000	1.6	8	29	3,000	25.7	PB	○	○
		α iF8/4000	2.2	8	32	4,000	25.7	PB	○	○
	α iS	α iS8/4000	2.5	8	32	4,000	11.7	PB	-	○
		α iS8/6000	2.2	8	22	6,000	11.7	PB	-	○
		α iS12/4000	2.7	12	46	3,000	22.8	PD	○	○
		α iS12/6000	2.2	11	52	4,000	22.8	PD	○	○
	β iS	β iS8/3000	1.2	7	15	2,000	11.7	PB	-	○
		β iS12/2000	1.4	10.5	21	2,000	22.8	PD	○	○
		β iS12/3000	1.8	11	27	2,000	22.8	PD	○	○
Mitsubishi Electric	J4	HG-SR51	0.5	4.8	14.3	1,000	11.6	PD	○	○
		HG-SR81	0.85	8.1	24.4	1,000	16	PD	○	○
		HG-SR102	1	4.8	14.3	2,000	11.6	PD	○	○
		HG-SR152	1.5	7.2	21.5	2,000	16	PD	○	○
		HG-JR153	1.5	4.8	14.3	3,000	3.79	BA	○	○
		HG-JR203	2	6.4	19.1	3,000	4.92	BA	○	○
		HG-JR353	3.3	10.5	32	3,000	13.2	PE	○	○
		HG-JR503	5	15.9	47.7	3,000	19	PE	○	○
	J5	HK-KT153W	1.5	4.8	16.7	3,000	4.38	BB	○	○
		HK-KT203W	2	6.4	19.1	3,000	5.65	BB	○	○
		HK-KT202W	2	9.5	28.6	2,000	8.18	BB	○	○
		HK-KT1534W	0.75	4.8	21.5	1,500	4.38	BB	○	○
		HK-KT2034W	1	6.4	25.5	1,500	5.65	BB	○	○
		HK-KT2024W	1	9.5	38.2	1,000	8.18	BB	○	○
		HK-ST102W	1	4.8	14.3	2,000	8.65	PD	○	○
		HK-ST172W	1.75	8.4	25.1	2,000	11.4	PD	○	○
		HK-ST202AW	2	9.5	28.6	2,000	16.9	PD	○	○
		HK-ST302W	3	14.3	43	2,000	22.4	PD	○	○
		HK-ST1024W	0.6	5.7	17.2	1,000	8.65	PD	○	○
		HK-ST1724W	0.85	8.1	24.4	1,000	11.4	PD	○	○
		HK-ST2024AW	1	9.5	33.4	1,000	16.9	PD	○	○
		HK-ST3024W	1.5	14.3	43	1,000	22.4	PD	○	○

*1 The customer will be responsible for preparing a servo motor with no keyway.

*2 Contact Sankyo for servo motors with brakes or with oil seals.

List of Mountable Servo Motors

RGV125 Standard gear ratio model [Gear ratio = 12, 24]

Manufacturer	Series	Model	Motor capacity [kW]	Motor rated torque [N · m]	Motor max. torque [N · m]	Rated rotation speed [min ⁻¹]	Motor inertia [× 10 ⁻⁴ kg · m ²]	Attachment code	Corresponding reduction ratio	
									12	24
Yaskawa Electric	Σ -V	SGMGV-09A	0.85	5.39	13.8	1,500	13.9	PB	○	○
		SGMGV-13A	1.3	8.34	23.3	1,500	19.9	PC	○	○
		SGMGV-20A	1.8	11.5	28.7	1,500	26	PD	○	○
		SGMSV-30A	3	9.8	29.4	3,000	7	IE	○	○
		SGMSV-40A	4	12.6	37.8	3,000	9.6	IE	○	○
		SGMSV-50A	5	15.8	47.6	3,000	12.3	IE	○	○
		SGMSV-70A	7	22.3	54	3,000	12.3	IE	-	○
	Σ -7	SGM7A-20A	2	6.36	19.1	3,000	2.47	JD	-	○
		SGM7A-25A	2.5	7.96	23.9	3,000	3.19	JD	○	○
		SGM7A-30A	3	9.8	29.4	3,000	7	IE	○	○
		SGM7A-40A	4	12.6	37.8	3,000	9.6	IE	○	○
		SGM7A-50A	5	15.8	47.6	3,000	12.3	IE	○	○
		SGM7A-70A	7	22.3	54	3,000	12.3	IE	-	○
		SGM7G-09A	0.85	5.39	14.2	1,500	13.9	PD	○	○
		SGM7G-13A	1.3	8.34	23.3	1,500	19.9	PD	○	○
		SGM7G-20A	1.8	11.5	28.7	1,500	26	PD	○	○
Sanyo Denki	R2	R2AA13120B	1.2	5.7	16	2,000	6	PC	○	○
		R2AA13120L	1.2	5.7	20	2,000	6	PC	○	○
		R2AA13120D	1.2	5.7	16	2,000	6	PC	○	○
		R2AA13180H	1.8	8.6	22	2,000	9	PC	○	○
		R2AA13200L	2	9.5	24	2,000	12.2	PE	○	○
		R2AA13180D	1.8	8.6	25	2,000	9	PC	○	○
		R2AA13200D	2	9.5	30	2,000	12.2	PE	○	○

*1 The customer will be responsible for preparing a servo motor with no keyway.

*2 Contact Sankyo for servo motors with brakes or with oil seals.

List of Mountable Servo Motors

RGV125 High gear ratio model [Gear ratio = 36, 60, 72, 120]

Manufacturer	Series	Model	Motor capacity [kW]	Motor rated torque [N · m]	Motor max. torque [N · m]	Rated rotation speed [min ⁻¹]	Motor inertia [× 10 ⁻⁴ kg · m ²]	Attachment code	Corresponding reduction ratio			
									36	60	72	120
OMRON	G	R88M-G40030H, T	0.4	1.3	3.67	3,000	0.26	BJ	-	○	-	○
		R88M-G75030H, T	0.75	2.4	7.05	3,000	0.87	DB	○	○	○	○
		R88M-G1K030T	1	3.18	9.1	3,000	1.69	EC	○	○	○	○
		R88M-G1K530T	1.5	4.77	12.8	3,000	2.59	FB	○	-	○	-
		R88M-G2K030T	2	6.36	18.4	3,000	3.46	FB	-	-	○	-
	G5	R88M-K40030H, T	0.4	1.3	3.8	3,000	0.26	BJ	-	○	-	○
		R88M-K75030H, T	0.75	2.4	7.1	3,000	0.87	DB	○	○	○	○
		R88M-K1K030H, T	1	3.18	9.55	3,000	2.03	FB	○	○	○	○
		R88M-K1K530H, T	1.5	4.77	14.3	3,000	2.84	FB	○	-	○	-
KEYENCE	SV	SV-M040	0.4	1.27	4.46	3,000	0.442	BK	-	○	-	○
		SV-M075	0.75	2.39	8.36	3,000	1.57	DC	○	○	○	○
		SV-M100	0.85	5.39	13.8	1,500	13.9	HB	○	-	○	-
	SV2	SV2-M040A	0.4	1.27	4.46	3,000	0.486	BK	-	○	-	○
		SV2-M075A	0.75	2.39	8.36	3,000	1.59	DC	○	○	○	○
		SV2-M100A	0.85	5.39	14.2	1,500	13.9	HBF	○	-	○	-
Panasonic	MINAS_A5	MSMD042G1	0.4	1.3	3.8	3,000	0.26	BJ	-	○	-	○
		MSMD082G1	0.75	2.4	7.1	3,000	0.87	DB	○	○	○	○
		MHMD042G1	0.4	1.3	3.8	3,000	0.67	BJ	-	○	-	○
		MHMD082G1	0.75	2.4	7.1	3,000	1.51	DB	○	○	○	○
		MSME042G1	0.4	1.3	3.8	3,000	0.26	BJ	-	○	-	○
		MSME082G1	0.75	2.4	7.1	3,000	0.87	DB	○	○	○	○
		MSME102G1	1	3.18	9.55	3,000	2.03	FB	○	○	○	○
		MSME152G1	1.5	4.77	14.3	3,000	2.84	FB	○	-	○	-
		MDME102G1	1	4.77	14.3	2,000	4.6	HAE	○	-	○	-
	MINAS_A6	MSMF042L1	0.4	1.27	3.82	3,000	0.27	BJ	-	○	-	○
		MSMF082L1	0.75	2.39	7.16	3,000	0.96	DB	○	○	○	○
		MSMF092L1	1	3.18	9.55	3,000	1.26	DB	○	○	○	○
		MSMF102L1	1	3.18	9.55	3,000	2.15	FB	○	○	○	○
		MSMF152L1	1.5	4.77	14.3	3,000	3.1	FB	○	-	○	-
		MHMF042L1	0.4	1.27	4.46	3,000	0.56	BJ	-	○	-	○
		MHMF082L1	0.75	2.39	8.36	3,000	1.56	DB	○	○	○	○
		MHMF092L1	1	3.18	11.1	3,000	2.03	DB	○	-	○	-
		MHMF102L1	1	4.77	14.3	2,000	22.9	HBE	○	-	○	-
		MDMF102L1	1	4.77	14.3	2,000	6.18	HAE	○	-	○	-
FANUC	α iF	α iF2/5000	0.75	2	8.3	4,000	5.26	EDB	○	○	○	○
		α iF4/5000	1.4	4	15	4,000	13.5	HB	○	-	○	-
	α iS	α iS2/5000	0.75	2	7.8	4,000	2.91	EDB	○	○	○	○
		α iS2/6000	1	2	6	6,000	2.91	EDB	○	○	○	○
		α iS4/5000	1	4	8.8	4,000	5.15	ED	○	○	○	○
		α iS4/6000	1	3	7.5	6,000	5.15	ED	○	○	○	○
	β iS	β iS2/4000	0.5	2	7	4,000	2.91	EDB	○	○	○	○
		β iS4/4000	0.75	3.5	10	3,000	5.15	ED	○	○	○	○
		β iS8/3000	1.2	7	15	2,000	11.7	HB	○	-	○	-
Mitsubishi Electric	J4	HG-MR43	0.4	1.3	3.8	3,000	0.142	BM	-	○	-	○
		HG-MR73	0.75	2.4	7.2	3,000	0.586	DC	○	○	○	○
		HG-KR43	0.4	1.3	4.5	3,000	0.371	BM	-	○	-	○
		HG-KR73	0.75	2.4	8.4	3,000	1.26	DC	○	○	○	○
		HG-SR51	0.5	4.8	14.3	1,000	11.6	HFF	○	-	○	-
		HG-SR52	0.5	2.4	7.2	2,000	7.26	HFF	○	○	○	○
		HG-SR102	1	4.8	14.3	2,000	11.6	HFF	○	-	○	-
		HG-JR53	0.5	1.6	4.8	3,000	1.52	ECD	-	○	-	○
		HG-JR73	0.75	2.4	7.2	3,000	2.09	ECD	○	○	○	○
		HG-JR103	1	3.2	9.6	3,000	2.65	ECD	○	○	○	○
		HG-JR153	1.5	4.8	14.3	3,000	3.79	ECD	○	-	○	-
	J5	HK-KT43W	0.4	1.3	4.5	3,000	0.41	BM	-	○	-	○
		HK-KT63W	0.6	1.9	6.7	3,000	0.598	BM	○	○	○	○
		HK-KT43UW	0.4	1.3	4.5	3,000	0.726	DG	-	○	-	○
		HK-KT7M3W	0.75	2.4	8.4	3,000	1.37	DC	○	○	○	○
		HK-KT103W	1	3.2	11.1	3,000	1.68	DC	○	-	○	-
		HK-KT7M3UW	0.75	2.4	8.4	3,000	2.11	EB	○	○	○	○
		HK-KT103UW	1	3.2	11.1	3,000	2.74	EB	○	-	○	-
		HK-KT153W	1.5	4.8	16.7	3,000	4.38	EB	○	-	○	-
		HK-KT434W	0.2	1.3	4.5	1,500	0.41	BM	-	○	-	○
		HK-KT634W	0.3	1.9	6.7	1,500	0.598	BM	○	○	○	○
		HK-KT7M34W	0.375	2.4	8.4	1,500	1.37	DC	○	○	○	○
		HK-KT1034W	0.5	3.2	11.1	1,500	1.68	DC	○	-	○	-
		HK-ST52W	0.5	2.4	7.2	2,000	5.9	HFF	○	○	○	○
		HK-ST102W	1	4.8	14.3	2,000	8.65	HFF	○	-	○	-
		HK-ST524W	0.3	2.9	11.5	1,000	5.9	HFF	○	-	○	-
		HK-ST1024W	0.6	5.7	17.2	1,000	8.65	HFF	○	-	○	-

*1 The customer will be responsible for preparing a servo motor with no keyway.

*2 Contact Sankyo for servo motors with brakes or with oil seals.

List of Mountable Servo Motors

RGV125 High gear ratio model [Gear ratio = 36, 60, 72, 120]

Manufacturer	Series	Model	Motor capacity [kW]	Motor rated torque [N · m]	Motor max. torque [N · m]	Rated rotation speed [min ⁻¹]	Motor inertia [× 10 ⁻⁴ kg · m ²]	Attachment code	Corresponding reduction ratio			
									36	60	72	120
Yaskawa Electric	Σ -V	SGMAV-04A	0.4	1.27	3.82	3,000	0.19	BK	-	○	-	○
		SGMAV-06A	0.55	1.75	5.25	3,000	0.326	BK	-	○	○	○
		SGMAV-08A	0.75	2.39	7.16	3,000	0.769	DC	○	○	○	○
		SGMAV-10A	1	3.18	9.55	3,000	1.2	DC	○	○	○	○
		SGMGV-03A	0.3	1.96	5.88	1,500	2.48	ED	○	○	○	○
		SGMGV-05A	0.45	2.86	8.92	1,500	3.33	ECD	○	○	○	○
		SGMGV-09A	0.85	5.39	13.8	1,500	13.9	HB	○	-	○	-
		SGMSV-10A	1	3.18	9.54	3,000	1.74	FDF	○	○	○	○
		SGMSV-15A	1.5	4.9	14.7	3,000	2	FDF	○	-	○	-
		SGMJV-04A	0.4	1.27	4.46	3,000	0.442	BK	-	○	-	○
		SGMJV-06A	0.6	1.91	6.69	3,000	0.667	BK	○	○	○	○
		SGMJV-08A	0.75	2.39	8.36	3,000	1.59	DC	○	○	○	○
	Σ -7	SGM7J-04A	0.4	1.27	4.46	3,000	0.486	BK	-	○	-	○
		SGM7J-06A	0.6	1.91	6.69	3,000	0.8	BK	○	○	○	○
		SGM7J-08A	0.75	2.39	8.36	3,000	1.59	DC	○	○	○	○
		SGM7A-04A	0.4	1.27	4.46	3,000	0.216	BK	-	○	-	○
		SGM7A-06A	0.6	1.91	6.69	3,000	0.315	BK	○	○	○	○
		SGM7A-08A	0.75	2.39	8.36	3,000	0.775	DC	○	○	○	○
		SGM7A-10A	1	3.18	11.1	3,000	0.971	DC	○	-	○	-
		SGM7A-15A	1.5	4.9	14.7	3,000	2	FDF	○	-	○	-
		SGM7P-04A	0.4	1.27	3.82	3,000	0.409	DF	-	○	-	○
		SGM7P-08A	0.75	2.39	7.16	3,000	2.1	HA	○	○	○	○
		SGM7P-15A	1.5	4.77	14.3	3,000	4.02	HA	○	-	○	-
		SGM7G-03A	0.3	1.96	5.88	1,500	2.48	ECD	○	○	○	○
		SGM7G-05A	0.45	2.86	8.92	1,500	3.33	ECD	○	○	○	○
		SGM7G-09A	0.85	5.39	14.2	1,500	13.9	HBF	○	-	○	-
Sanyo Denki	R2	R2AA06040H	0.4	1.27	4.8	3,000	0.412	BM	-	○	-	○
		R2AA06040F	0.4	1.27	4.8	3,000	0.412	BM	-	○	-	○
		R2AA08040F	0.4	1.27	4.4	3,000	1.04	DG	-	○	-	○
		R2AA08075F	0.75	2.39	8.5	3,000	1.82	DCD	○	○	○	○
		R2AAB8100H	1	3.18	11.6	3,000	2.38	EBD	○	-	○	-
		R2AA10075F	0.75	2.39	8.6	3,000	2	FEE	○	○	○	○
		R2AA13050H	0.55	2.6	9	2,000	3.1	HFE	○	○	○	○
		R2AA13050D	0.88	2.6	7	2,000	3.1	HFE	○	○	○	○
		R2AA13120B	1.2	5.7	16	2,000	6	HFE	○	-	○	-
		R2AAB8075F	0.75	2.38	11	3,000	1.64	EBD	○	-	○	○
		R2AAB8100F	1	3.18	14.3	3,000	2.38	EBD	○	-	○	-
		R2AA10100F	1	3.18	14.3	3,000	3.5	FEE	○	-	○	-
		R2AA13120D	1.2	5.7	16	2,000	6	HFE	○	-	○	-
	R5	R5AA06040H	0.4	1.27	4.8	3,000	0.414	BM	-	○	-	○
		R5AA08075D	0.75	2.39	8.5	3,000	1.65	DCD	○	○	○	○
		R5AA06040F	0.4	1.27	4.8	3,000	0.414	BM	-	○	-	○
		R5AA08075F	0.75	2.39	7.5	3,000	1.65	DCD	○	○	○	○

*1 The customer will be responsible for preparing a servo motor with no keyway.

*2 Contact Sankyo for servo motors with brakes or with oil seals.



Oil Plug, Oil Level, Drain Position (Oil lubrication types)

Unit: mm

Mounting position	1	2	3	4	5	6
RGV040						
A	Oil plug Rc1/4	Oil plug Rc1/4	Oil plug Rc1/4	Oil plug Rc1/4	Oil plug Rc1/4	Oil plug Rc1/4
A1	55	14	26	89	20	20
A2	53.5	53.5	56	56	57.5	57.5
B	Oil level	Oil level	Oil level	Oil level	Oil level	Oil level
B1	32.5	32.5	39.5	75.5	38	38
B2	68.5	68.5	38	38	75.5	75.5
C	Drain Rc1/4	Drain Rc1/4	Drain Rc1/4	Drain Rc1/4	Drain Rc1/4	Drain Rc1/4
C1	14	55	89	26	20	20
C2	53.5	53.5	56	56	57.5	57.5
Oil amount (L)	0.09	0.1	0.13	0.12	0.05	0.14
RGV063						
A	Oil plug Rc1/4	Oil plug Rc1/4	Oil plug Rc1/4	Oil plug Rc1/4	Oil plug Rc1/4	Oil plug Rc1/4
A1	55	20	32	123	23.5	23
A2	98	77.5	32	32	77.5	77.5
B	Oil level	Oil level	Oil level	Oil level	Oil level	Oil level
B1	36.5	36.5	58.5	96.5	44	44
B2	107	107	44	44	96.5	96.5
C	Drain Rc1/4	Drain Rc1/4	Drain Rc1/4	Drain Rc1/4	Drain Rc1/4	Drain Rc1/4
C1	20	55	123	32	23.5	23.5
C2	77.5	98	32	32	77.5	77.5
Oil amount (L)	0.15	0.16	0.2	0.19	0.1	0.21
RGV080						
A	Oil plug Rc3/8	Oil plug Rc3/8	Oil plug Rc3/8	Oil plug Rc3/8	Oil plug Rc1/4	Oil plug Rc3/8
A1	73	22	41	149	29	31
A2	120	95	34	34	95	95
B	Oil level	Oil level	Oil level	Oil level	Oil level	Oil level
B1	47	47	66	124	51	51
B2	133	133	51	51	124	124
C	Drain Rc3/8	Drain Rc3/8	Drain Rc3/8	Drain Rc3/8	Drain Rc3/8	Drain Rc1/4
C1	22	73	149	41	29	29
C2	95	120	34	34	95	95
Oil amount (L)	0.31	0.35	0.43	0.42	0.18	0.48
RGV100						
A	Oil plug Rc1/2	Oil plug Rc1/2	Oil plug Rc1/2	Oil plug Rc1/2	Oil plug Rc3/8	Oil plug Rc1/2
A1	80	25	48	182	39	32
A2	145	115	48	48	115	115
B	Oil level	Oil level	Oil level	Oil level	Oil level	Oil level
B1	51	51	74	156	72	72
B2	160	160	72	72	156	156
C	Drain Rc1/2	Drain Rc1/2	Drain Rc1/2	Drain Rc1/2	Drain Rc1/2	Drain Rc3/8
C1	25	80	182	48	32	39
C2	115	145	48	48	115	115
Oil amount (L)	0.46	0.56	0.7	0.68	0.37	0.65
RGV125						
A	Oil plug Rc1/2	Oil plug Rc1/2	Oil plug Rc1/2	Oil plug Rc1/2	Oil plug Rc3/8	Oil plug Rc1/2
A1	95	30	55	225	43	35
A2	180	140	50	50	140	140
B	Oil level	Oil level	Oil level	Oil level	Oil level	Oil level
B1	60	60	88	192	88	88
B2	195	195	88	88	192	192
C	Drain Rc1/2	Drain Rc1/2	Drain Rc1/2	Drain Rc1/2	Drain Rc1/2	Drain Rc3/8
C1	30	95	225	55	35	43
C2	140	180	50	50	140	140
Oil amount (L)	0.79	1.01	1.22	1.2	0.7	1.1

Attention: _____

Date: _____

Our contact
person: _____

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

Customer's Company, Department		Tel
Address		Fax
Name	Email	

A) Application

B) Overview drawing, loads, operating environment, etc.

(Include any tables, workpieces, or jigs that will be attached to the RGV output shaft, and any loads that will be applied during rotation.)

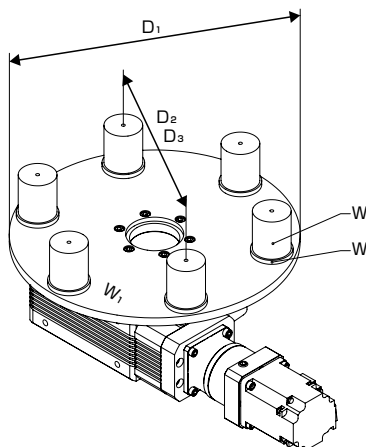
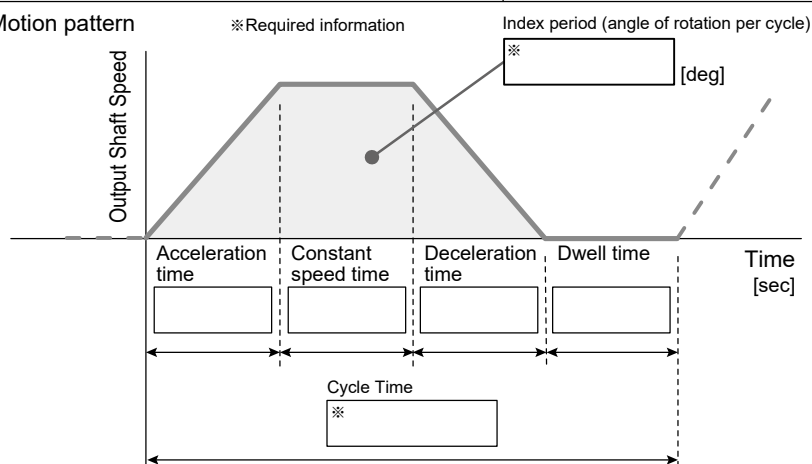


Table diameter : D ₁	[mm]
Table weight : W ₁	[kg]
Jig P.C.D. : D ₂	[mm]
Weight per jig : W ₂	[kg]
Jig quantity : n ₂	[pcs]
Workpiece P.C.D. : D ₃	[mm]
Weight per workpiece : W ₃	[kg]

Load applied to output shaft

Axial/radial load	Moment load	Workpiece quantity : n ₃
[N]	[N·m]	[pcs]

C) Motion pattern



E) Intended servomotor
Manufacturer

Model No.

Motor power (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) Attachment code

D) Lubrication method and position/direction

Please choose one.

Lubrication method :	☐ Grease lubrication	Position/direction :	☐ W surface toward bottom	☐ V surface toward bottom
	☐ Oil lubrication		☐ U surface toward bottom	☐ T surface toward bottom
			☐ R surface toward bottom	☐ S surface toward bottom

H) Options

☐ None ☐ A : Rustproof
☐ B : Rustproof/dustproof/waterproof

► Installation Site

The RollerDrive products with standard specifications should be installed in locations where they can be easily checked and maintained. Specifically:

- Environment temperature from 5 to +40°C
Depending on the operation pattern, the product surface temperature may rise because of heating in the motor or the product itself. Ensure cooling to 60°C or less using a fan or the like.
- 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
- Minimal electromagnetic noise, and isolated from currents (Take particular care near welders, etc.).
- Minimum electro magnetic noise (be cautious on welding machines)

► Installation Procedure

The RollerDrive should be put in the operating position and installed on a smooth, robust place. After installing the main unit, attach the drive target to the output flange.

Tightening torque (Table 1)

Housing threads (aluminum)

Unit : N·m

Tightening torque (Table 2)

Output shaft threads (iron-based)

Unit : N·m

Thread size	Specified tightening torque (DIN6.8)
M6	7.5
M8	18.5
M10	36.0
M12	63.0
M16	158.0

Thread size	Specified tightening torque (DIN10.9)
M4	4.1
M5	8.5
M6	14.0
M8	35.0
M10	69.0

To prevent the bolts from loosening inadvertently, apply Loctite 242 or equivalent and use a torque wrench to apply the specified torque. (Refer to the tables on the left for the tightening torque.)

► Lubrication

RGV series products are available in one of two lubrication methods: Grease lubrication, which is the basic specification, or oil lubrication, which allows for high-speed rotation.

• Grease lubrication

Units are generally maintenance-free, eliminating the need for regular grease replacement. (Please contact Sankyo for any questions about lubrication.)

Lubricating grease: Epnoc grease AP (N) 2 from JXTG Nippon Oil & Energy Corporation

• Oil lubrication

Units use high-performance oil for lubrication. Although the oil used for lubrication is scientifically and thermally stable, change the oil after every 3,000 hours of operation to ensure a longer product service life. The oil level indicator can be used to check the condition of the lubricating oil. Stop operation before checking the condition.

Check the amount and color of the oil. If the oil amount has decreased, or if discoloration is found, replace the oil regardless of the operating time. Note that fine bubbles may appear in the oil during operation. This does not indicate a problem with the oil quality.

* When changing the oil, use only the lubricating oil specified below.

Using an oil other than the one specified below for lubrication may shorten the product's service life or cause the components to deteriorate.

Specified standard lubricating oil: Mobil SHC629 (VG150)

Please refer to the instruction manual for product handling details.

Handling

▶ Rustproof/dustproof/waterproof specifications

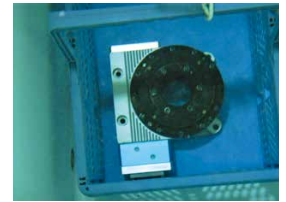
Rustproof/dustproof/waterproof specifications are available protection options for RGR series units.

Following tests conducted under IP67 testing conditions (IEC 60529), TÜV Rheinland Japan Ltd., has confirmed that the RGR series housing is waterproof and dustproof.

(Tests were performed with the RGV063 (gear ratio: 24).)

IP is the abbreviation for International Protection, which indicates the degree of protection necessary to prevent foreign matter (steel balls, copper wires, dust, water, etc.) from entering the housing of electrical or mechanical products. A rating of IP6X indicates complete protection against dust, and IPX7 indicates that there is no intrusion of water even if a product is submerged in water at a specified pressure (at 15 cm to 1 m below the surface) for a certain amount of time (at least 30 minutes).

- A rustproof/dustproof/waterproof rating is not a guarantee against malfunction or for a specific operational lifetime.
- Units are not protected from the intrusion of all solids and liquids under all environments.
- RGV series units are rated IP54 or equivalent unless the dustproof/waterproof option is specified.



⚠ 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.

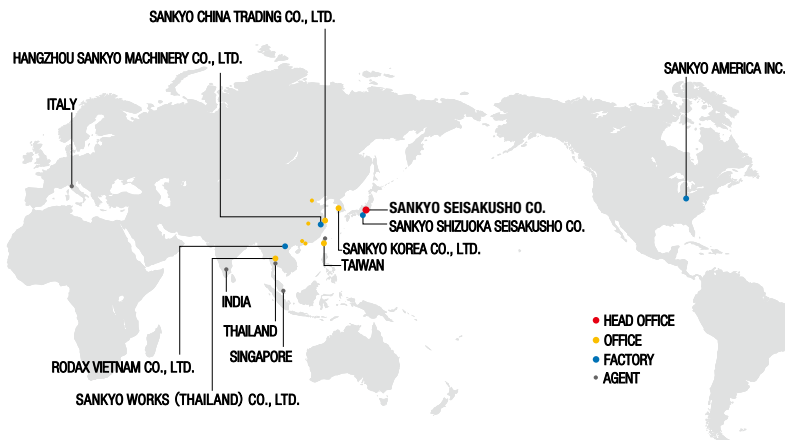
The scope of these use limitations includes the following applications:

- Medical equipment
- Nuclear power related equipment
- Aerospace equipment
- 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.

⚠ Notes on information

- Specifications, dimensions and other information relating to this product provided in this catalog are subject to change without prior notice.
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Group Company

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
 E-mail: 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
 E-mail: kr-sales@rollerdrive.com

SANKYO CHINA TRADING CO., LTD.

[SHANGHAI HEAD OFFICE]

Room 1103, Block B, No.391 Guiping Road,
 Shanghai 200233 China
 PHONE: +86-(0)21-5445-2813 • FAX: +86-(0)21-5445-2340
 E-mail: sales@sankyochina-trading.com

[SHENZHEN BRANCH 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 BRANCH 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 BRANCH 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 BRANCH 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, Patumthani 12120 Thailand
 PHONE: +66-(0)2-516-5355 • FAX: +66-(0)2-068-0931
 E-mail: 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)

■ **Head Office**
 (International department) 3-37-3 Tabatashinmachi, Kita-ku, Tokyo, Japan 114-8538
 PHONE: +81-(0)3-3800-3330
 FAX: +81-(0)3-3800-3380
 E-MAIL: overseas@sankyo-seisakusho.co.jp

■ **TAIWAN**
 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
 E-MAIL: tw-sales@rollerdrive.com

Dealers



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

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