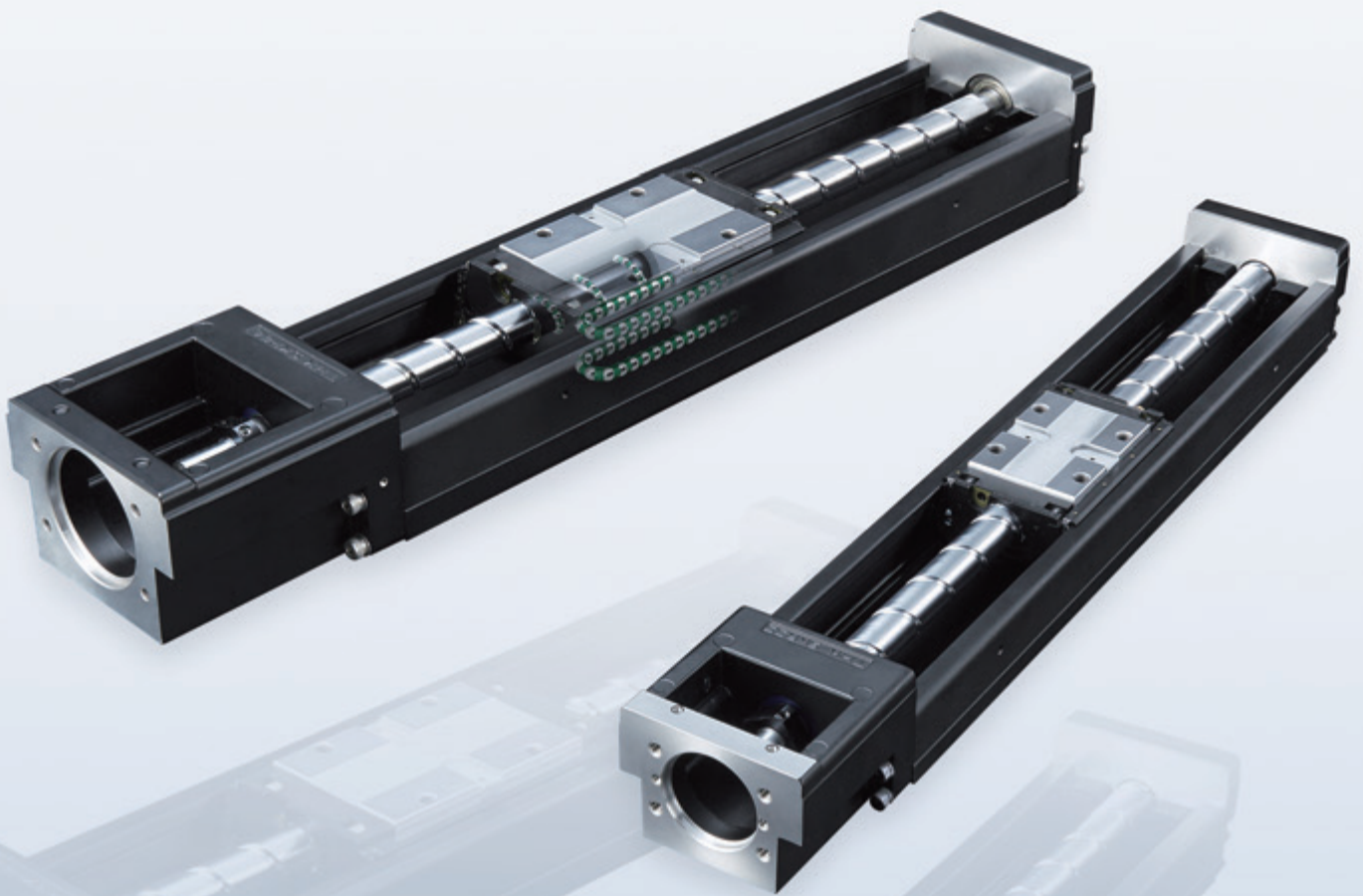


Shipped from Japan in as little as 10 days **Semi-custom**

SKR / KR

LM Guide Actuator



Five high-demand custom products are now available as semi-custom orders that ship soon after ordering!

Semi-custom order
Fast delivery product

LM Guide Actuator

SKR/KR

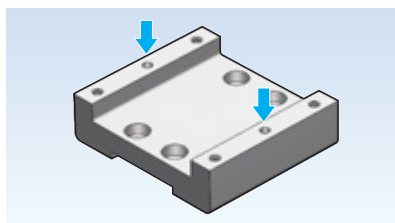
SKR/KR actuators are ideal for high-accuracy positioning due to their highly rigid, compact structure consisting of an LM Guide, ball screw, and support unit, and they are now available as semi-custom orders with five customizations. Products are shipped from Japan in as little as 10 days after ordering.

*Order quantities are limited. In addition, depending on our order status, we may be unable to offer our shortest possible lead time. Contact your THK branch office to inquire about express delivery and precise shipping dates.



By adding five customizations to standard specifications, we have created semi-custom orders to quickly

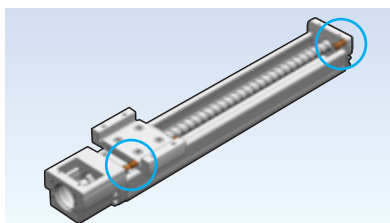
Customization 1



Dowel pin holes for positioning during installation

Dowel pin holes can be provided for positioning during installation. They help prevent misalignments and improve repeatability when replacing products.

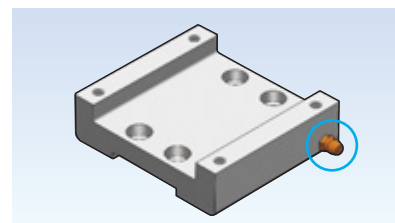
Customization 2



Metal positioning bolts for home position alignment during installation

Metal positioning bolts are added for aligning the home position during installation. They also improve the repeatability of the home position when replacing motors.

Customization 3

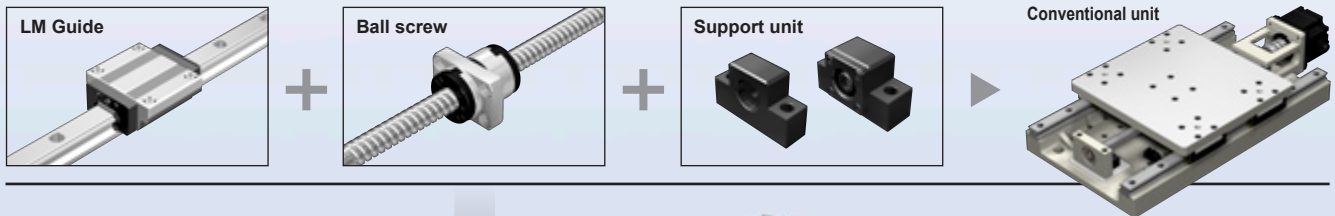


Sub-table side greasing holes to apply grease more easily

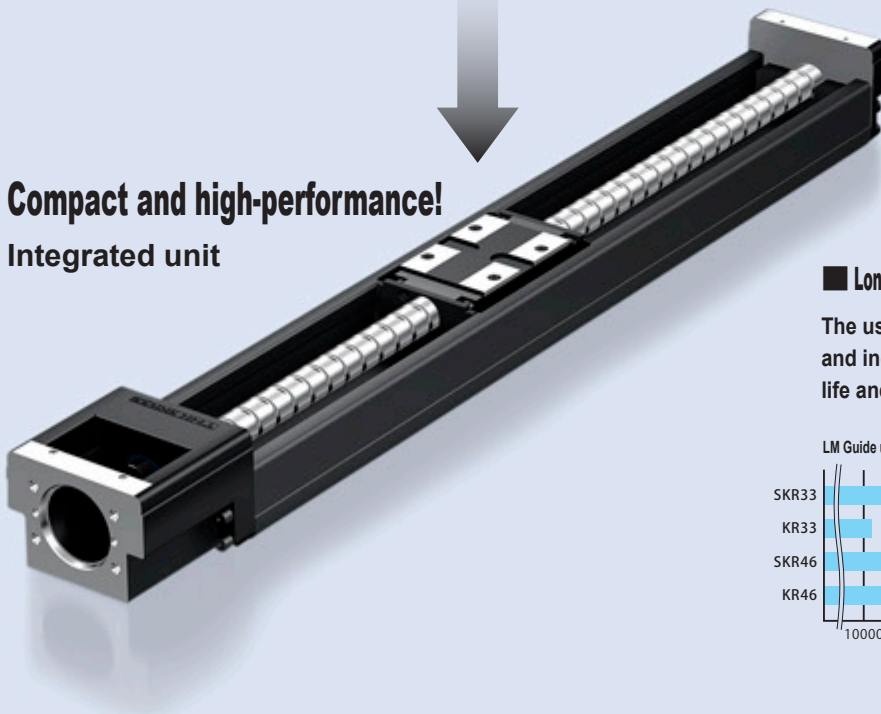
Sub-table side greasing holes are machined and a grease nipple is added to enable the product to be greased without removing the cover.

Reduces design and assembly time

The actuator is a combination of an LM Guide, ball screw, and support unit, so the work required for design and assembly is reduced. This also helps reduce overall costs.



Compact and high-performance!
Integrated unit

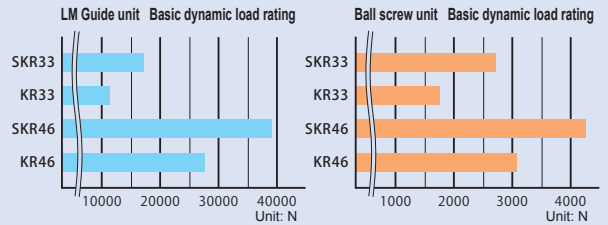


High rigidity, high precision

The U-shaped outer rail (base) provides high rigidity against moments and torsion.

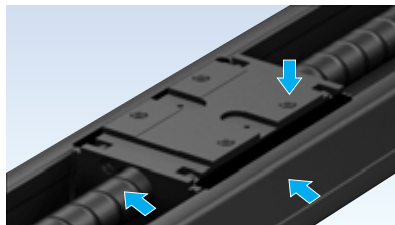
Long service life and long-term maintenance-free operation (SKR)

The use of a ball cage eliminates friction between balls and increases grease retention to achieve a long service life and long-term maintenance-free operation.



respond to a wide variety of demands. (Multiple customizations on a single product are possible.)

Customization 4



AP-C treatment surface coating to improve corrosion resistance

We apply surface coating (THK AP-C Treatment) to improve corrosion resistance.

Customization 5



AFF Grease for clean environments to reduce dust generation

To accommodate clean environments, we include THK AFF Grease to reduce dust generation

Models available as semi-custom orders

SKR Series
SKR20/SKR26/SKR33/SKR46

KR Series
KR20/KR26/KR30H/KR45H

Configurations
Direct coupling type/Motor wrapping type
Covered/Uncovered
Select from a variety of motors

SKR/KR

LM Guide Actuator

SKR20

SKR26

SKR33

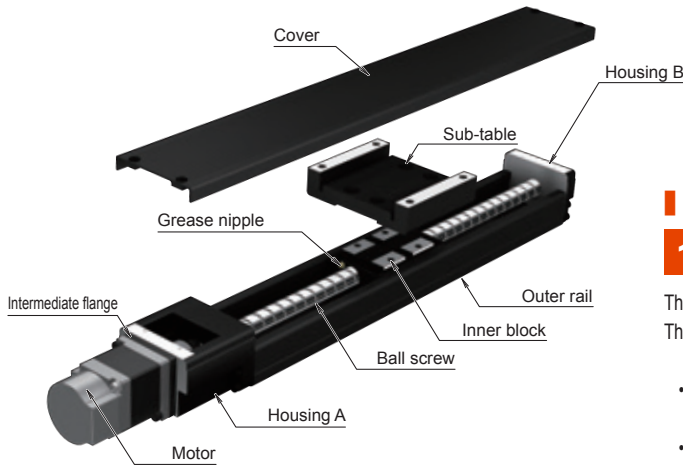
SKR46

KR20

KR26

KR30H

KR45H

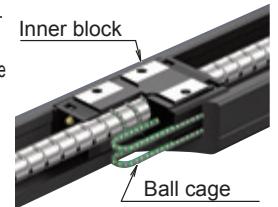


Features

1 Caged Ball (SKR)

The ball cage drastically improves the SKR's performance. The ball cage offers the following advantages.

- Long service life and long-term maintenance-free operation
- Low noise, acceptable running sound
- Superbly high speed
- Smoother movement
- Low dust generation



2 4-Way Equal Load

Each row of balls is arranged at a contact angle of 45° so that the rated load on the inner block is uniform under loads applied in four directions (radial, reverse radial, right, and left). Due to this, the SKR/KR can be used in a variety of mounting orientations, making it suitable for a wide range of applications.

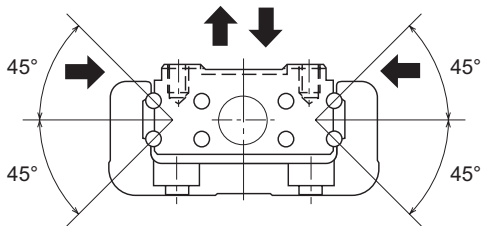


Diagram: SKR/KR load capacity and contact angle

3 High-Speed Specifications

Enables high-speed feed by using an LM Guide for the linear motion guide portion.

Max. speed

Model No.	Ball screw lead (mm)	Max. speed (mm/s)	Model No.	Ball screw lead (mm)	Max. speed (mm/s)
SKR20	1	100	KR20	1	100
	6	600		6	600
SKR26	2	200	KR26	2	200
	6	600		6	590
SKR33	6	600	KR30H	6	470
	10	1000		10	790
	20	2000		10	520
SKR46	10	1000	KR45H	10	520
	20	2000		20	1050

Note 1) These values refer to a 1 block type (A Type).

Note 2) The maximum speed is restricted by the motor rotational speed (at 6,000 min⁻¹), or by the permissible rotational speed of the ball screw.

Model Number Coding Example

SKR33 10 A - 0395 - 0 - 1 - Q - D M G S L

- Model No. SKR33
- Ball screw lead 10
- Block type A: 1 block, B: 2 blocks, C: 1 short block, D: 2 short blocks
- Stroke (mm) 0395: 395 mm
- With or without motor/Wrap direction 0: Direct coupling (without motor), R1: Non-standard side wrapping (without motor), R2: Standard side wrapping (without motor), R3: Bottom-side wrapping (without motor)
- Intermediate flange/Wrapping specifications For details, see the specification table
- Cover 0: Uncovered, 1: Covered

Semi-custom series structure (Represented by five symbols)

- Low dust-generating grease 0: Standard grease L: AFF grease (Standard grease differs by model number. See p. 8 for details.)
- Surface treatment (THK AP-C coating) 0: Without S: With
- Sub-table greasing holes 0: Without G: With
- Metal positioning bolts 0: Without M: With
- Dowel pin holes 0: Without D: With

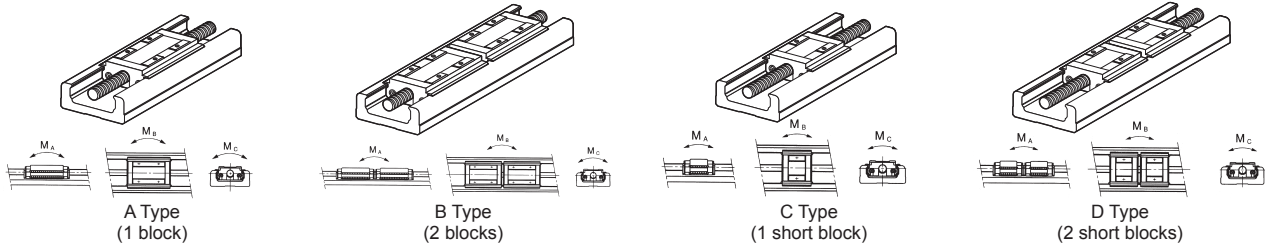
SKR/KR Product Specifications

Model No.	Ball screw lead (mm)	Max. stroke ¹ (mm)	Rated speed ² (mm/s)	Motor rated output (W)	Maximum load capacity ³ (kg)			
					Horizontal	Vertical		
SKR20	1	130	50	50	12.5	3		
	6		300			4		
SKR26	2	210	100	50	27.5	14		
	6		300			7		
SKR33	6	595	300	100	43.5	19		
	10		500			12		
	20		1000			21	6	
SKR46	10	790	500	200	77	18		
						400	23	
	20		1000			200	42	8
						400	90	18

¹ Maximum stroke refers to the value for 1 block (A Type).
² Rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹). However, this varies depending on the stroke.
³ The maximum load capacity refers to the load capacity of 1 block (A Type) with a direct motor coupling at the rated speed and an acceleration and deceleration rate of 0.3G (0.15G for leads of 6 mm and below, 0.5G for leads of 20 mm and above).

Model No.	Ball screw lead (mm)	Max. stroke ¹ (mm)	Rated speed ² (mm/s)	Motor rated output (W)	Maximum load capacity ³ (kg)			
					Horizontal	Vertical		
KR20	1	130	50	50	12.5	3		
	6		300			4		
KR26	2	210	100	50	27.5	14		
	6		300			7		
KR30H	6	500	300	100	43.5	19		
	10		500			12		
	20		1000			21	6	
KR45H	10	800	500	200	77	18		
						400	23	
	20		1000			200	42	8
						400	90	18

Static Permissible Moments of SKR/KR



Unit: N·m

Model No.	Block type*	Static permissible moment		
		MA	MB	MC
SKR20	A	38	38	98
	B	207	207	197
SKR26	A	117	117	265
	B	589	589	530
SKR33	A	173	173	424
	B	990	990	848
	C	58	58	240
	D	390	390	480
SKR46	A	579	579	1390
	B	3240	3240	2780
	C	236	236	870
	D	1460	1460	1740

Unit: N·m

Model No.	Block type*	Static permissible moment		
		MA	MB	MC
KR20	A	31	31	83
	B	176	176	165
KR26	A	84	84	208
	B	480	480	416
KR30H	A	166	166	428
	B	908	908	857
	C	44	44	214
	D	319	319	427
KR45H	A	486	486	925
	B	2732	2732	1850
	C	130	130	463
	D	994	994	925

*Block types A, B, C, and D refer to types of inner blocks.
A: 1 block
B: 2 blocks
C: 1 short block
D: 2 short blocks
Note 1) The values for models SKR-B/D, KR-B/D refer to values when 2 inner blocks are used in close contact with each other.
Note 2) Static permissible moment is the maximum moment that can be permitted while the product is stationary.

Accuracy Standards for SKR/KR

Model No.	Stroke* (mm)	Outer rail length (mm)	Positioning repeatability (mm)	Positioning accuracy (mm)	Running parallelism (vertical) (mm)	Backlash (mm)	Starting torque (N·cm)
SKR20	30	100	±0.01	No standard defined	No standard defined	0.02	0.5
	80	150					
	130	200					
SKR26	60	150	±0.01	No standard defined	No standard defined	0.02	1.5
	110	200					
	160	250					
	210	300					
SKR33	45	150	±0.01	No standard defined	No standard defined	0.02	7
	95	200					
	195	300					
	295	400					
	395	500					
	495	600					
SKR46	190	340	±0.01	No standard defined	No standard defined	0.02	10
	290	440					
	390	540					
	490	640					
	590	740					
	690	840					
	790	940					

Model No.	Stroke* (mm)	Outer rail length (mm)	Positioning repeatability (mm)	Positioning accuracy (mm)	Running parallelism (vertical) (mm)	Backlash (mm)	Starting torque (N·cm)
KR20	30	100	±0.01	No standard defined	No standard defined	0.02	0.5
	80	150					
	130	200					
KR26	60	150	±0.01	No standard defined	No standard defined	0.02	1.5
	110	200					
	160	250					
	210	300					
	300	300					
KR30H	50	150	±0.01	No standard defined	No standard defined	0.02	7
	100	200					
	200	300					
	300	400					
	400	500					
	500	600					
KR45H	200	340	±0.01	No standard defined	No standard defined	0.02	10
	300	440					
	400	540					
	500	640					
	600	740					
	700	840					
	800	940					

*These values refer to 1 block (A Type).
Note 1) These values refer to a normal accuracy grade.
Note 2) The evaluation method complies with THK standards.
Note 3) Measurements are taken using an inspection motor. Also, for motor wrapping specifications, the measurements are not taken with completed motor wrapping.
Note 4) The starting torque refers to the values when THK AFB-LF Grease is used. However, the values for SKR20/26 and KR20/26 refer to the values when using THK AFA Grease.
Note 5) If highly viscous grease such as vacuum grease or clean room grease is used, the actual starting torque may exceed the corresponding value in the table. Use caution when selecting a motor.

- SKR20
- SKR26
- SKR33
- SKR46
- KR20
- KR26
- KR30H
- KR45H

Five Customizations

SKR20

SKR26

SKR33

SKR46

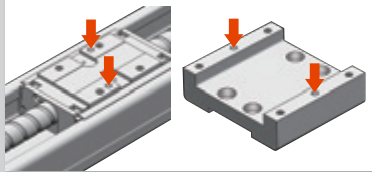
KR20

KR26

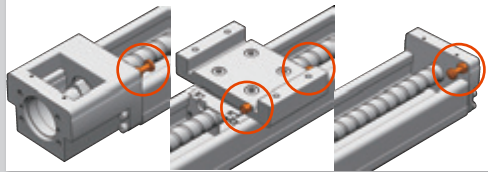
KR30H

KR45H

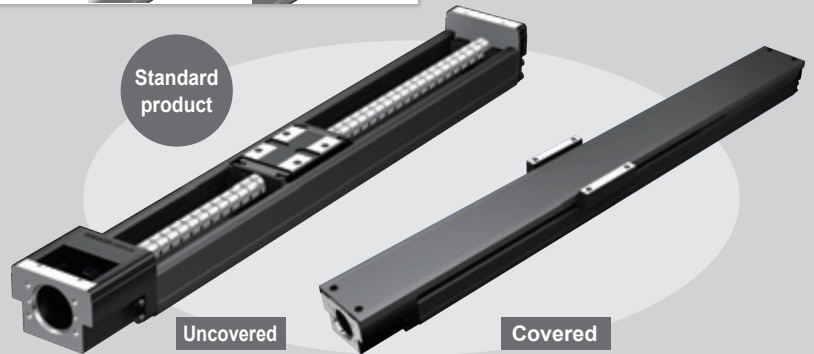
1 Positioning during installation



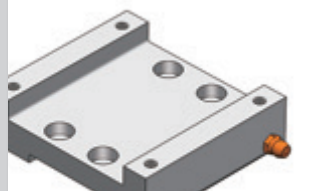
2 Aligning home position during installation



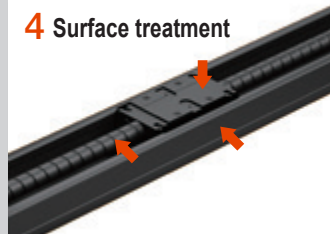
By adding five customizations to standard specifications, we have created a semi-custom series to quickly respond to a wide variety of orders.



3 Easier grease application



4 Surface treatment



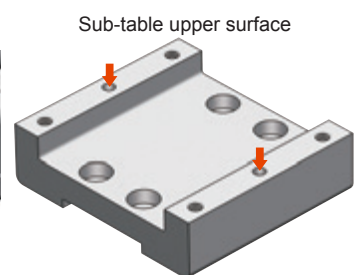
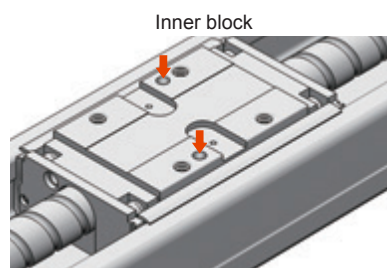
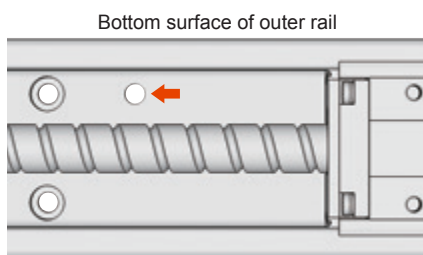
5 Compatible with clean environments



1 Easy positioning during installation

Dowel pin holes can be provided for positioning during installation. They help prevent misalignments and improve repositioning when replacing components.

Machined areas

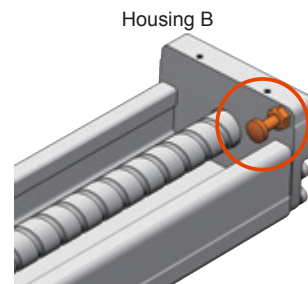
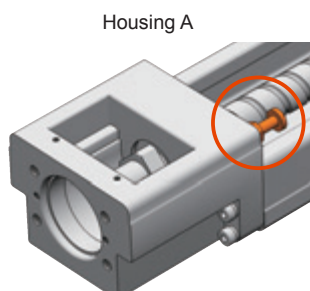
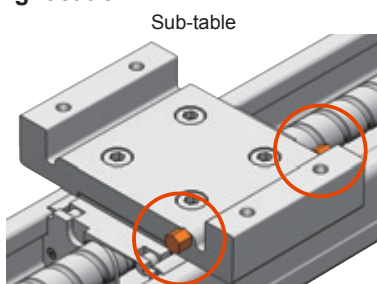


2 Easy home position alignment during installation*

*Only available on covered models

Metal positioning bolts can be installed for aligning the home position during installation. They also help reproducibility of the home position when replacing motors.

Mounting location



3 Easy grease application*

*Only available on covered models

A grease nipple can be installed by drilling a greasing hole in the side surface of the sub-table. This enables the product to be greased without removing the cover. Greasing holes are drilled on both sides, so you can use either based on the device's layout.



Grease nipple model No.	Block type	No. of blocks
A-M6F	A, C	1
	B, D	2

*Plugs are installed in both greasing holes for shipment.

4 Improved corrosion resistance with surface treatment*

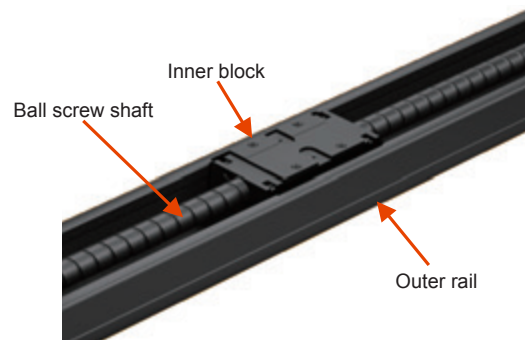
*Only available on SKR33/46 and KR30H/45H

The surface can be treated with an industrial black chrome plating (AP-C treatment) to improve corrosion resistance. Specify this option if the product will be used in an environment where rusting occurs easily.

Treated Areas

- Ball screw shaft
- Inner block
- Outer rail

*Only the surface of the outer rail is treated (with AP-C treatment) as standard. (This excludes SKR20/26, KR20/26.)



AP-C Treatment

AP-C treatment is a type of industrial black chrome plating designed to increase corrosion resistance. It costs less and achieves higher corrosion resistance than martensitic stainless steel.

*Products with surface treatment will ship **12 days after the order is placed (production time + 2 days)**.

*Anti-rust oil is applied. Please contact THK if anti-rust oil is not required.

5 Compatible with clean environments. Reduces dust generation.

Standard greases (AFA/AFB-LF) can be substituted with a low dust-generating grease (AFF grease), which is ideal for clean environments. Specify this option if the product will be used in a clean environment.

Grease Used (Standard Specifications)

Model No.	Standard grease
SKR20/26	AFA Grease
KR20/26	
SKR33/46	
KR30H/45H	AFB-LF Grease

*Anti-rust oil is applied. (Please contact THK if anti-rust oil is not required.)

Grease Feature Comparison

Name of Grease	AFF Grease	AFA Grease	AFB-LF Grease
Characteristics	Grease for clean environment	Long service life	All-purpose grease
Base oil	High-grade synthetic oil	High-grade synthetic oil	Refined mineral oil
Consistency enhancer	Lithium-based	Urea-based	Lithium-based
Features	Long service life	○	○
	High speed	○	○
	Micro-vibration/Very small stroke	○	
	High load		○
	Low dust generation (clean environments)	◎	
	Wide temperature range		○
	Water resistance		○
Machine stability		○	

◎: Superior ○: Good



SKR/KR Selection Guidelines

SKR20

SKR26

SKR33

SKR46

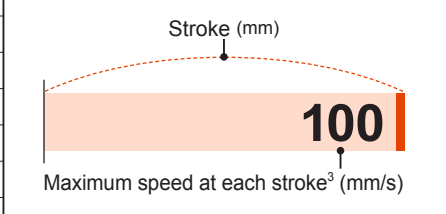
KR20

KR26

KR30H

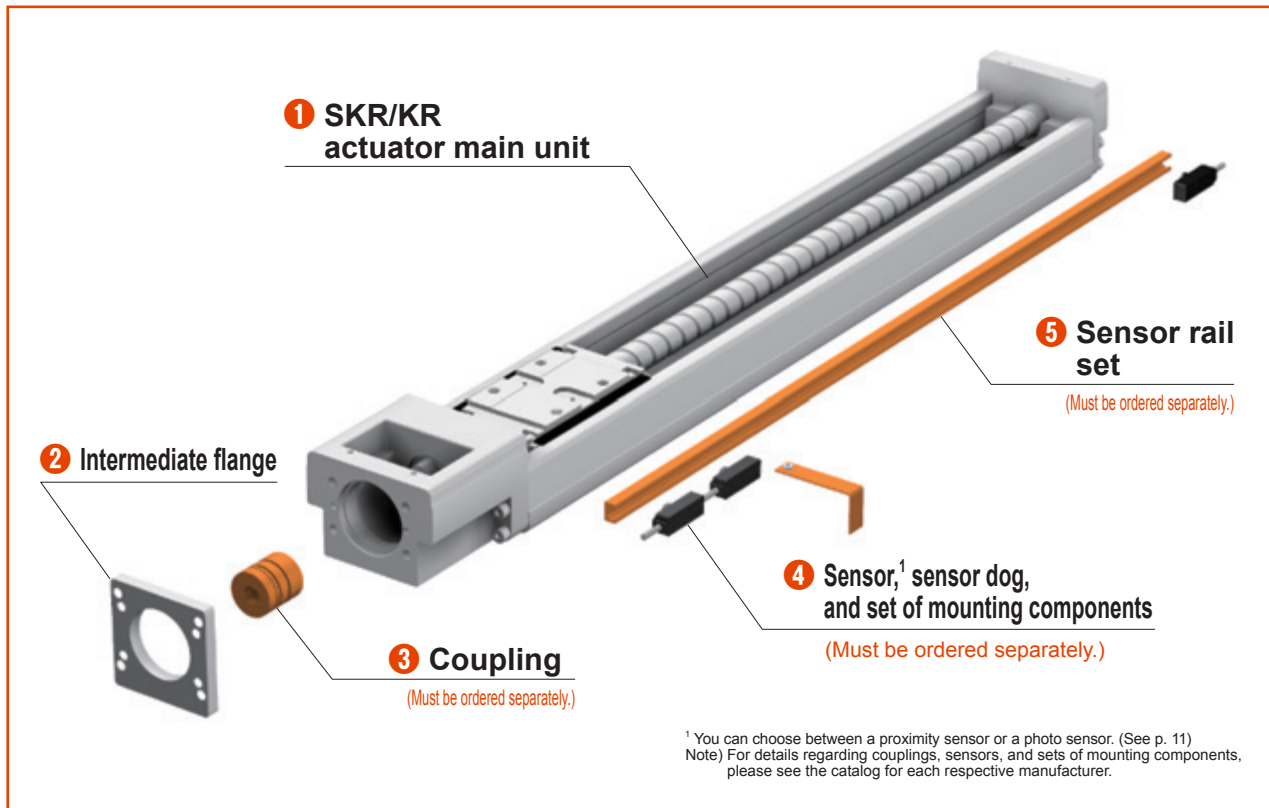
KR45H

Model No. (Page)	Ball screw lead (mm)	Block type	Max. stroke (mm)	Rated speed ¹ (mm/s)	Motor rated output (W)	Maximum load capacity ² (kg)		Stroke (mm)								
						Horizontal	Vertical	100	200	300	400	500	600	700	800	
SKR20 (p. 15 on)	1	A	130	50	50	12.5	3	100								
		B	85					100								
	6	A	130	300	50	12.5	6	600								
		B	85					600								
SKR26 (p. 21 on)	2	A	210	100	50	27.5	14	200								
		B	145					200								
	6	A	210	300	50	27.5	7	600								
		B	145					600								
SKR33 (p. 27 on)	6	A	595	300	100	43.5	19	600 550 390								
		B	520					600 550 390								
		C	620					600 500 360								
		D	570					600 500 360								
	10	A	595	500	100	34.5	12	1000 920 650								
		B	520					1000 920 650								
		C	620					1000 830 600								
		D	570					1000 830 600								
	20	A	595	1000	100	21	6	2000 1780 1270								
		B	520					2000 1780 1270								
								600 550 390								
								600 500 360								
SKR46 (p. 39 on)	10	A	790	500	200	77	18	1000 730 550 430								
		B	680					1000 730 550 430								
		C	820					1000 910 660 500 400								
		D	745					1000 910 660 500 400								
	20	A	790	1000	200	42	8	2000 1980 1430 1080 840								
		B	680					2000 1980 1430 1080 840								
		C	820					2000 1770 1300 990 780								
		D	745					2000 1770 1300 990 780								
	400					400	96	23	1000 910 660 500 400							
									1000 910 660 500 400							
									2000 1770 1300 990 780							
									2000 1770 1300 990 780							
KR20 (p. 51 on)	1	A	130	50	50	12.5	3	100								
		B	85					100								
	6	A	130	300	50	12.5	4	600								
		B	85					600								
KR26 (p. 57 on)	2	A	210	100	50	27.5	9.5	200								
		B	145					200								
	6	A	210	300	50	27.5	7	600								
		B	145					600								
KR30H (p. 63 on)	6	A	500	300	100	35	15	470 395								
		B	420					470 395								
		C	520					470 360								
		D	470					470 360								
	10	A	500	500	100	28.5	9	790 650								
		B	420					790 650								
		C	520					790 600								
		D	470					790 600								
KR45H (p. 75 on)	10	A	800	500	200	65	18	520 430								
		B	690					520 430								
		C	830					520 490 380								
		D	760					520 490 380								
	20	A	800	1000	200	42	8	1050 840								
		B	690					1050 840								
		C	830					1050 980 770								
		D	760					1050 980 770								
	400					400	65	24.5	520 490 380							
									520 490 380							
									1050 980 770							
									1050 980 770							



¹ Rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹). However, this varies depending on the stroke.
² The maximum load capacity refers to the approximate load capacity of 1 block (A Type) with a direct motor coupling at the rated speed and an acceleration and deceleration rate of 0.3G (0.15G for leads of 6 mm and below, 0.5G for leads of 20 mm and above).
³ The maximum speed is restricted by the motor rotational speed (at 6,000 min⁻¹), or by the permissible rotational speed of the ball screw. When used at speeds higher than the rated speed, the permissible load will differ.

Product Configuration



6 Servo motor or stepper motor

Note) For details regarding different types, please see the catalog for each respective motor manufacturer.

- Available from THK
(Can be selected by the Optimal Product Selection Tool)
- To be prepared by the customer

Model Number Coding Example

SKR33 **10** **A** - **0395** - **0** - **0** - **Q** - **00000**

Model No. Ball screw lead Block type Stroke (in mm) With or without motor/ Wrap direction Cover Intermediate flange²/ Wrap specifications Semi-custom series

For the above model numbers, you can specify { **1 SKR/KR actuator main unit** } ² If "0" is selected for the intermediate flange, **2** intermediate flange will not be included.

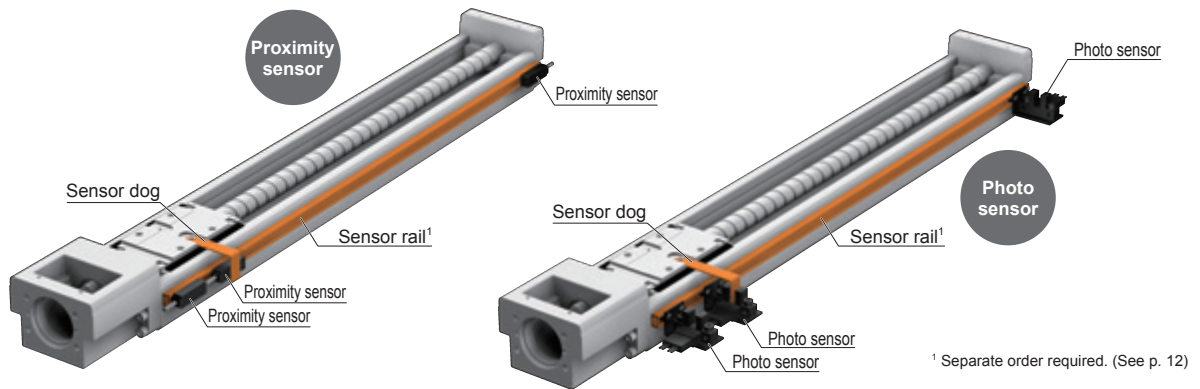
{ **2 Intermediate flange** }

Product configuration	Description
1 Actuator main unit ³	
2 Intermediate flange ³	
3 Coupling ³	
4 Sensor, sensor dog, and set of mounting components (see p. 11)	
5 Sensor rail set (see p. 12)	
6 Servo motor or stepper motor	Motors should be prepared by the user.

³ Refer to the corresponding model number configuration for each model number.

Sensor Option

Optional proximity sensors and photo sensors are available.



Sensor Set Model Number Coding Example

SKR26 - 02 Type² (One side)³ Photo sensor⁴/set of mounting components⁵

Model No. SKR26
 Sensor symbol 02 (See "Sensor symbol" in the "Sensors" table below.)
 Block type Type (See "Sensor symbol" in the "Sensors" table below.)
 Type A/B block (SKR33 only)
 C/D block (SKR33 only)
² Will be automatically input depending on the actuator's model number.

Sensor type
 Proximity sensor: Proximity sensor
 Photo sensor: Photo sensor
 Sensor: Proximity sensor/Photo sensor (SKR33 only)
⁴ The sensor type will be automatically determined by the sensor symbol.

Locations where sensors are installed
 (One side): For strokes 70 mm and above
 (Both sides): For strokes under 70 mm
³ Will be automatically input depending on the actuator's stroke.

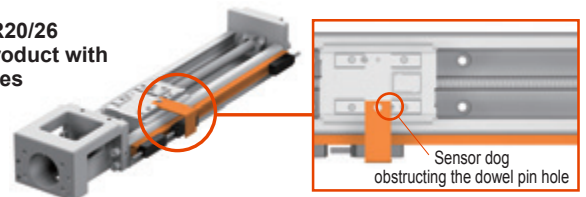
- SKR20
- SKR26
- SKR33
- SKR46
- KR20
- KR26
- KR30H
- KR45H

Sensors

Model No.	Sensor type	Manufacturer	Sensor model	Sensor symbol		Description ⁸	Accessory
				Uncovered	Covered		
SKR20 ⁶ SKR26 ⁶ SKR33 SKR46	Proximity sensor	Azbil Corp. ⁷	APM-D3A1-001	07	17	N.O. contact (3 pc.)	Mounting screws, nuts, sensor dog
			APM-D3B1-003	0B	1B	N.C. contact (3 pc.)	
			APM-D3A1-001	0E	1E	N.O. contact (1 pc.)	
			APM-D3B1-003			N.C. contact (2 pc.)	
KR20 ⁶ KR26 ⁶ KR30H KR45H	Proximity sensor	Panasonic Device SUNX Co., Ltd.	GX-F12A	0H	1H	N.O. contact (3 pc.)	Mounting screws, nuts, sensor dog
			GX-F12B	0L	1L	N.C. contact (3 pc.)	
			GX-F12A	0J	1J	N.O. contact (1 pc.)	
			GX-F12B			N.C. contact (2 pc.)	
Photo sensor ⁹	OMRON Corporation	GX-F12A-P	0M	1M	N.O. contact (1 pc.) (PNP output)	Mounting plate, connector (EE-1001 3 pc.)	
		GX-F12B-P			N.C. contact (2 pc.) (PNP output)		
		EE-SX671	02	12	(3 pc.)		
			EE-SX674	06	16	(3 pc.)	

⁶ Please be aware that if "uncovered" is selected in combination with "dowel pin holes" for SKR20/26 and KR20/26, the sensor dog will obstruct the dowel pin hole. (See figure on right.)
⁷ The corresponding Azbil Corp. sensors are the special products combined with THK sensor rails located on p. 10.
⁸ N.O. contact: Normally open contact
 N.C. contact: Normally closed contact
⁹ The photo sensors can be switched between ON when lit and ON when unlit.
 Note) Sensor rails not included.
 Separate order required. (See p. 10)

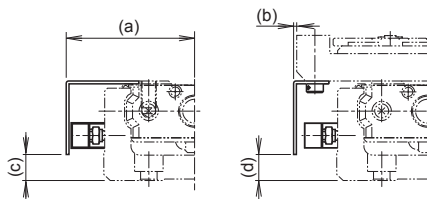
SKR20/26, KR20/26 Uncovered product with dowel pin holes



Proximity Sensors

Azbil Corp.

- APM-D3A1-001
- APM-D3B1-003



Unit: mm

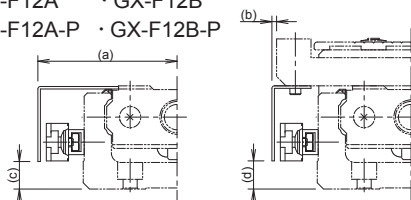
Model No.	a	b	c	d
SKR20	32.5	6.6	6	6
SKR26	37.5	6.4	8	8
SKR33	43	0.3	14.8	15
SKR46	56.2	0.2	26.8	22

Unit: mm

Model No.	a	b	c	d
KR20	32.5	6.6	6	6
KR26	37	6.4	8	8
KR30H	43.3	3.3	8.8	9
KR45H	53.2	1.2	14	14

Panasonic Device SUNX Co., Ltd.

- GX-F12A
- GX-F12B
- GX-F12A-P
- GX-F12B-P



Unit: mm

Model No.	a	b	c	d
SKR20	34	8.1	3.6	4
SKR26	39	7.9	6	6
SKR33	44.7	2	13.8	15
SKR46	57.7	1.8	24.8	22

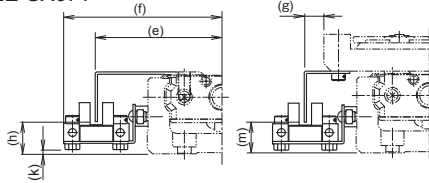
Unit: mm

Model No.	a	b	c	d
KR20	34	8.1	3.6	4
KR26	38.5	7.9	6	6
KR30H	45	5	8.8	9
KR45H	54.8	2.8	13.8	14

Photo Sensors

OMRON Corporation

• EE-SX671



Model No.	Unit: mm					
	e	f	g	h	k	m
SKR20	41	53.8	15	9.4	0.9	9.5
SKR26	45.9	58.7	14.9	11.4	2.9	11.5
SKR33	51.1	63.6	8.3	18.8	7.4	19.5
SKR46	64.1	76.6	8.3	29.8	16.4	26.5

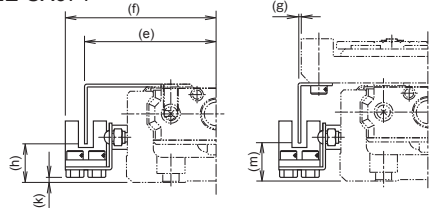
Note) Three EE-1001 (OMRON Corporation) connectors are included.

Model No.	Unit: mm					
	e	f	g	h	k	m
KR20	41.3	53.8	15	9.4	0.9	9.5
KR26	46	58.7	14.9	11.4	2.9	11.5
KR30H	51.3	63.9	11.3	13.8	1.4	13.5
KR45H	61.2	73.8	9.3	18.3	6.4	18.5

Note) Three EE-1001 (OMRON Corporation) connectors are included.

OMRON Corporation

• EE-SX674



Model No.	Unit: mm					
	e	f	g	h	k	m
SKR20	38.3	44.8	12.5	10.9	0.6	11
SKR26	43.3	49.7	12.5	12.9	2.6	13
SKR33	45.9	52.1	3.3	17.8	7.1	20
SKR46	58.9	65.1	3.2	28.8	16.1	27

Note) Three EE-1001 (OMRON Corporation) connectors are included.

Model No.	Unit: mm					
	e	f	g	h	k	m
KR20	38.3	44.8	12.5	10.9	0.6	11
KR26	43.5	49.7	12.5	12.9	2.6	13
KR30H	46.2	52.4	6.3	13.8	1.1	14
KR45H	56.2	62.3	4.2	19	6.1	19

Note) Three EE-1001 (OMRON Corporation) connectors are included.

SKR20

SKR26

SKR33

SKR46

KR20

KR26

KR30H

KR45H

Sensor Rail Option

Sensor rails for attaching optional proximity sensors and photo sensors are available.

They require a separate order from the sensors (p. 11).

Sensor Rail Model Number Coding Example

KR30/33/SKR33 - Sensor rail set - **500**¹ × **2**

Sensor rail model No.

Outer rail length (in mm)

No. of sensor rails

¹ The outer rail length is determined by the stroke. (See "Outer rail length" in the "Outer Rail Length by Model No. and Stroke" table below.)

No symbol: 1 rail
×2: 2 rails

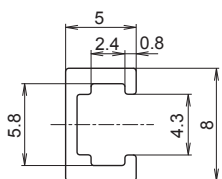
Note) Sensor rail mounting screws are included.

Outer Rail Length by Model No. and Stroke

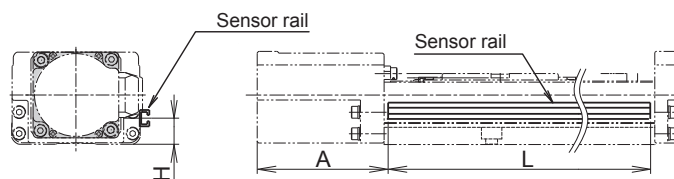
Model No. (Sensor rail model No.)	Stroke ² (mm)	Outer rail length (mm)	H (mm)	A (mm)	L (mm)	No. of sensor rails			
						A Type	B Type	C Type	D Type
SKR20 (KR20/26/SKR20/26)	30	100	10	43	111	2	-	-	-
	80	150			161	1	2	-	-
	130	200			211	1	1	-	-
	60	150			161	2	-	-	-
SKR26 (KR20/26/SKR20/26)	110	200	12	54	211	1	2	-	-
	160	250			261	1	1	-	-
	210	300			311	1	1	-	-
	SKR33 (KR30/33/SKR33)	45			150	20	61	146	2
95		200	196	1	-			1	1
195		300	296	1	1			1	1
295		400	396	1	1			1	1
395		500	496	1	1			1	1
495		600	596	1	1			1	1
595		700	696	1	1			1	1
SKR46 (KR45/46/SKR46)	190	340	29	89.5	336	1	1	1	1
	290	440			436	1	1	1	1
	390	540			536	1	1	1	1
	490	640			636	1	1	1	1
	590	740			736	1	1	1	1
	690	840			836	1	1	1	1
	790	940			936	1	1	1	1

Model No. (Sensor rail model No.)	Stroke ² (mm)	Outer rail length (mm)	H (mm)	A (mm)	L (mm)	No. of sensor rails			
						A Type	B Type	C Type	D Type
KR20 (KR20/26/SKR20/26)	30	100	10	43	111	2	-	-	-
	80	150			161	1	2	-	-
	130	200			211	1	1	-	-
	60	150			161	2	-	-	-
KR26 (KR20/26/SKR20/26)	110	200	12	54	211	1	2	-	-
	160	250			261	1	1	-	-
	210	300			311	1	1	-	-
	KR30H (KR30/33/SKR33)	50			150	14	61	146	2
100		200	196	1	-			1	1
200		300	296	1	1			1	1
300		400	396	1	1			1	1
400		500	496	1	1			1	1
500		600	596	1	1			1	1
600		700	696	1	1			1	1
KR45H (KR45/46/SKR46)	200	340	19	90	336	1	1	1	1
	300	440			436	1	1	1	1
	400	540			536	1	1	1	1
	500	640			636	1	1	1	1
	600	740			736	1	1	1	1
	700	840			836	1	1	1	1
	800	940			936	1	1	1	1

² These values refer to 1 block (A Type). See each model's page for the B, C, and D block type values.



Sensor rail details



LM GUIDE ACTU

Linear Motion Guide Actuator

INDEX



SKR

The Model SKR is a highly accurate and compact actuator that has an inner block, which is a combination of an LM block and ball screw nut, inside a highly rigid, U-shaped outer rail.

The use of caged ball technology enables high-speed, low-noise, and long-term maintenance-free operation.

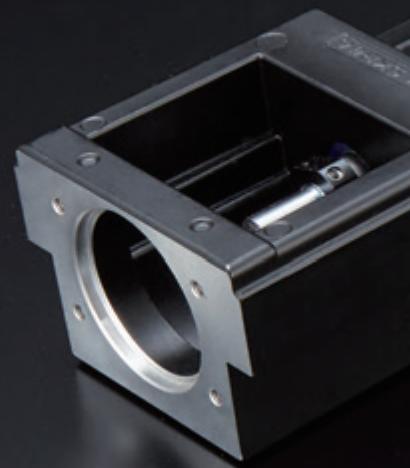
▶ p. 15 to 50



KR

The Model KR is a highly accurate and compact actuator that has an inner block, which is a combination of an LM block and ball screw nut, inside a highly rigid, U-shaped outer rail.

▶ p. 51 to 86



ATOR



SKR20 A/B Direct Motor Coupling

General Specifications

Motor rated output (W)		50	
Ball screw lead (mm)		1	6
Rated speed ¹ (mm/s)		50	300
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.15G 12.5 12.5
		Vertical	0.15G 3 6
			0.3G 3 6
	Rated thrust ³ (N)		735
Maximum thrust ⁴ (N)		735	397

Load Rating

Item		SKR2001	SKR2006
LM Guide unit	Basic dynamic load rating C (N)	6010	
	Basic static load rating C ₀ (N)	8030	
	Radial clearance (mm)	-0.004 to 0	
Ball screw unit	Basic dynamic load rating Ca (N)	660	860
	Basic static load rating C _{0a} (N)	1170	1450
	Screw shaft diameter (mm)	φ6	
	Ball screw lead (mm)	1	6
	Bearing unit (fixed side)	Static permissible load P _{0a} (N)	735

Motor Used and Applicable Intermediate Flanges

Motor type		Rated output	Flange size	Intermediate flange symbol			
Yaskawa Electric Corporation	Σ-Vmini	SGMMV-A1	10W	N			
		SGMMV-A2	20W	□25			
		SGMMV-A3	30W	N			
	Σ-V	SGMJV-A5	50W	□40	Q		
		SGMAV-A5			Q		
		SGM7J-A5	SGM7A-A5	50W	□40	Q	
Mitsubishi Electric Corporation	MEISERVO	J3	HF-MP053	50W	□40	Q	
		J4	HF-KP053	50W	□40	Q	
			HG-AK0136	10W	□25	N	
			HG-AK0236	20W		N	
			HG-AK0336	30W	N		
	JN	HF-KN053	50W	□40	Q		
	Tamagawa Seiki Co., Ltd.	TBL-III	TS4602	50W	□40	Q	
		TBL-IV	TSM3102	50W	□40	Q	
	Panasonic Corporation	MINAS	A5	MSMD5A	50W	□38	P
			A6	MSME5A	50W	□38	P
SV		MSMF5A	50W	□40	Q		
		MHMF5A	50W	□40	Q		
Keyence Corporation	SV2	SV2-M005	50W	□40	Q		
Sanyo Denki Co., Ltd.	SANMOTION R	R2□A04005	50W	□40	Q		
OMRON Corporation	OMNUC G5	R88M-K05030	50W	□40	Q		
Fanuc Corporation	β is series	βis0.2/5000	50W	□40	Q		

SKR20

SKR26

SKR33

SKR46

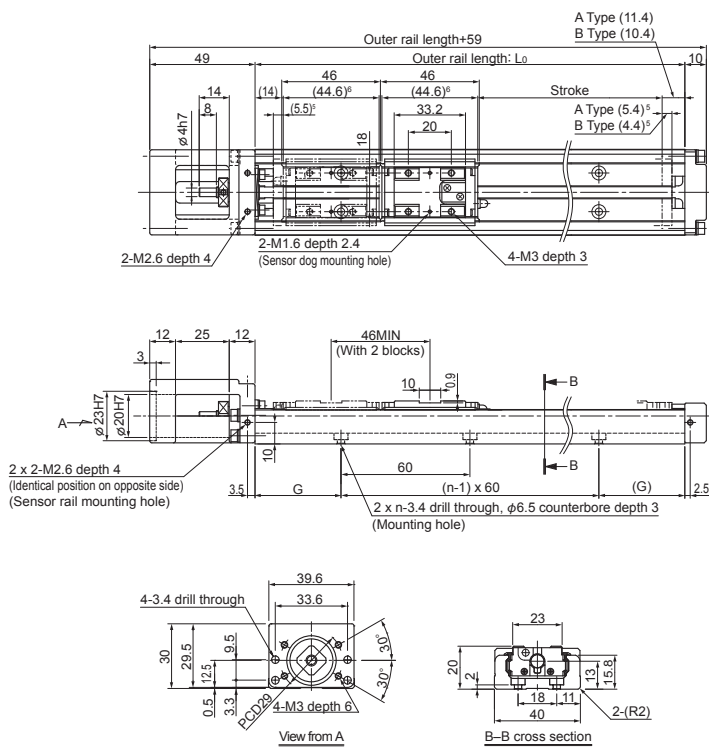
KR20

KR26

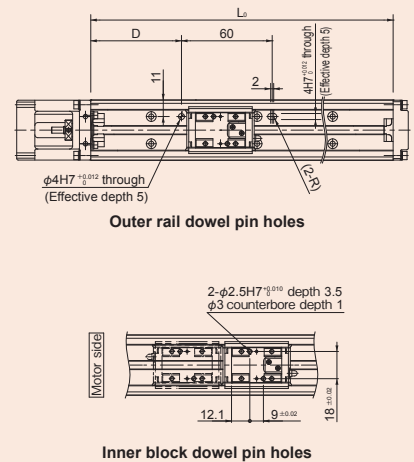
KR30H

KR45H

Uncovered Type



Customization: Dowel Pin Holes



¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (A Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates the block length when calculating the possible stroke range. It is 90.6 mm for an SKR20 with 2 blocks in close contact with each other (B Type).
⁷ This indicates a value when 2 blocks are in close contact with each other.
⁸ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

Specification Table (Uncovered/Covered)

Stroke (mm) (Stroke between mechanical stoppers)	A Type		30 (40.9)	80 (90.9)	130 (140.9)
	B Type ⁷		-	35 (44.9)	85 (94.9)
Maximum speed ⁸ (mm/s)	Ball screw lead	1 mm	50 (100)		
		6 mm	300 (600)		
Dimensions (mm)	Outer rail length: L ₀		100	150	200
	D		30	25	50
	G		20	15	40
No. of mounting holes	n		2	3	3
Mass (kg)	Uncovered	A Type	0.47	0.6	0.74
		B Type	-	0.67	0.81
	Covered	A Type	0.55	0.69	0.84
		B Type	-	0.81	0.96

Intermediate flange dimensions ⇨ p. 17

Stepper motor	Motor type		Flange size	Intermediate flange symbol	
	Oriental Motor	αStep	AZ2*, AR2*	□28	S
AZ4*, AR4* (excluding the AZM48)			□42	R	
5-phase		CRK	AZ4*, AR4* (AZM48)	□42	R
			CRK52*	□28	S
		CRK54*	□42	R	
		RKII	RKS54*	□42	R
		PKA	PKA544	□42	R
		CVK	CVK52*	□28	S
			CVK54*	□42	R
		2-phase	CVK	CVK22*	□28
	CVK24*		□42	R	
Sanyo Denki Co., Ltd.	PB	PBDM28*	□28	S	
		PBDM423, PBA**423	□42	R	
	5-phase	FAF/FDF52*	□28	S	
		FAF54*/FDF54*/FA511M42/FB511M42	□42	R	
	2-phase	D*14S28*	□28	S	
		DB14H52*	□42	R	
Keyence Corporation	2-phase	DU15H52*	□42	R	
		QS-M28	□28	S	
		QS-M42	□42	R	

Detailed Specifications

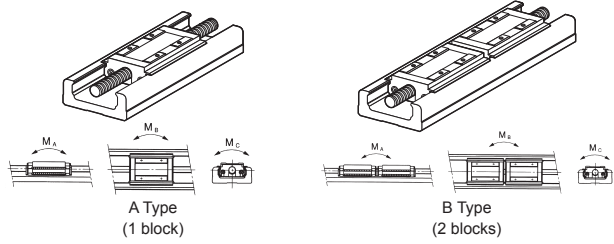
Recommended coupling		SFC-010DA2 (Miki Pulley Co., LTD.) φ4 to 8
Outer diameter of ball screw shaft end (mm)		φ4h7
Permissible input torque (N·m)	Ball screw lead	1 mm
		6 mm
		0.12
		0.42

Note) The recommended coupling is for use with a servo motor. Please refer to the optimal product selection tool when using a stepper motor.

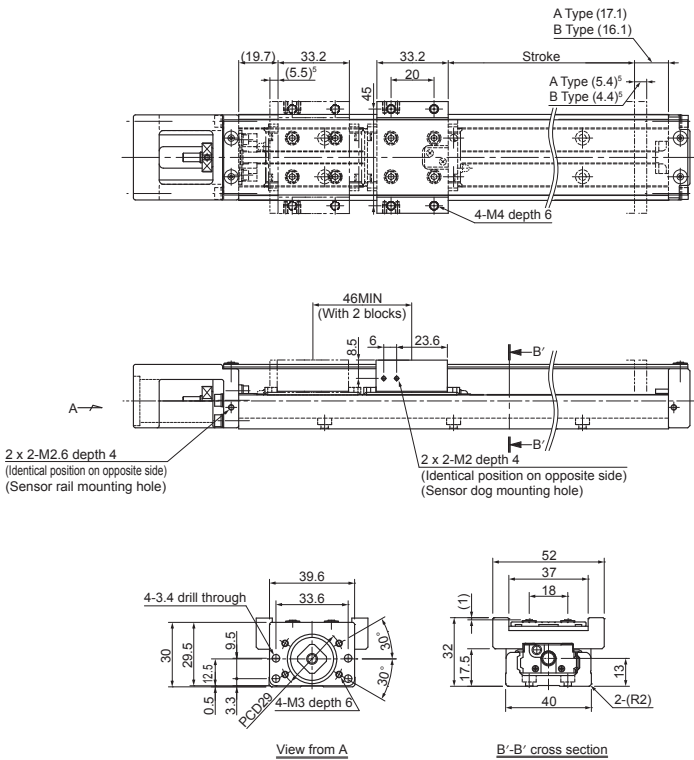
Static Permissible Moment

Unit: N·m

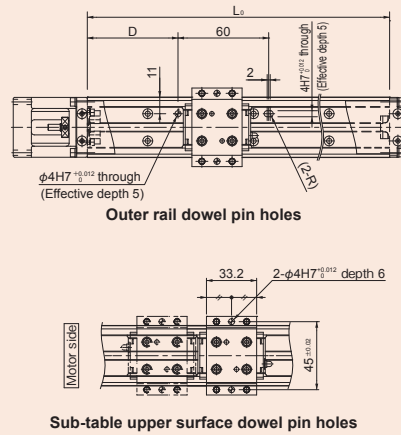
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
SKR20	A	38	38	98
	B	207	207	197



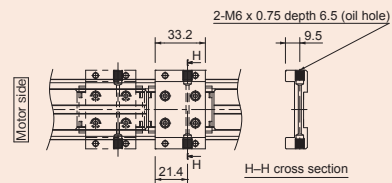
Covered Type



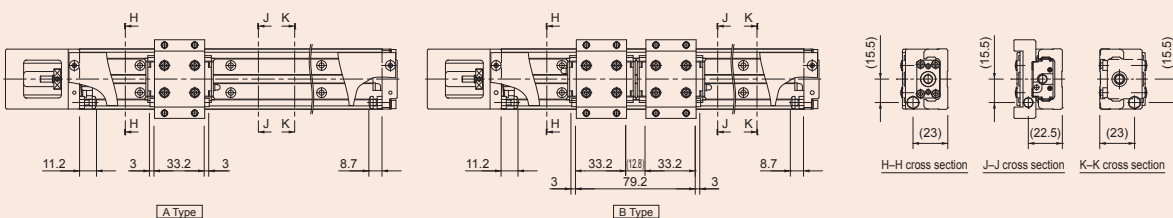
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



SKR20 A/B Motor Wrapping

General Specifications

Motor rated output (W)		50			
Ball screw lead (mm)		1	6		
Rated speed ¹ (mm/s)		50	300		
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.15G	12.5	12.5
			0.3G	12.5	12.5
		Vertical	0.15G	3	6
			0.3G	3	6
Rated thrust ³ (N)		735	149		
Maximum thrust ⁴ (N)		735	397		

Load Rating

Item		SKR2001	SKR2006
LM Guide unit	Basic dynamic load rating C (N)	6010	
	Basic static load rating C ₀ (N)	8030	
	Radial clearance (mm)	-0.004 to 0	
Ball screw unit	Basic dynamic load rating Ca (N)	660	860
	Basic static load rating C _{0a} (N)	1170	1450
	Screw shaft diameter (mm)	φ6	
	Ball screw lead (mm)	1	6
Bearing unit (fixed side)	Axial direction	Basic dynamic load rating Ca (N)	1150
		Static permissible load P _{0a} (N)	735

Motor Used and Wrapping Symbol

Motor type		Rated output	Flange size	Wrapping symbol
Yaskawa Electric Corporation	Σ-Vmini	SGMMV-A1	10W	□25
		SGMMV-A2	20W	□25
		SGMMV-A3	30W	□25
	Σ-V	SGMJV-A5	50W	□40
		SGMAV-A5	50W	□40
		SGM7J-A5	50W	□40
Mitsubishi Electric Corporation	MEISERVO	HF-MP053	50W	□40
		HF-KP053	50W	□40
		HG-AK0136	10W	□25
		HG-AK0236	20W	□25
		HG-AK0336	30W	□25
		HG-MR053	50W	□40
	J3	HF-KN053	50W	□40
		HF-KN053	50W	□40
		HF-KN053	50W	□40
		HF-KN053	50W	□40
		HF-KN053	50W	□40
		HF-KN053	50W	□40
Tamagawa Seiki Co., Ltd.	TBL-III	TS4602	50W	□40
	TBL-IV	TSM3102	50W	□40
Panasonic Corporation	MINAS	A5	MSMD5A	50W
		A5	MSME5A	50W
	A6	A6	M5MF5A	50W
		A6	M5HM5A	50W
Keyence Corporation	SV	SV-M005	50W	
	SV2	SV2-M005	50W	
Sanyo Denki Co., Ltd.	SANMOTION R	R2□A04005	50W	
OMRON Corporation	OMNUC G5	R88M-K05030	50W	
Fanuc Corporation	β is series	βis0.2/5000	50W	

SKR20

SKR26

SKR33

SKR46

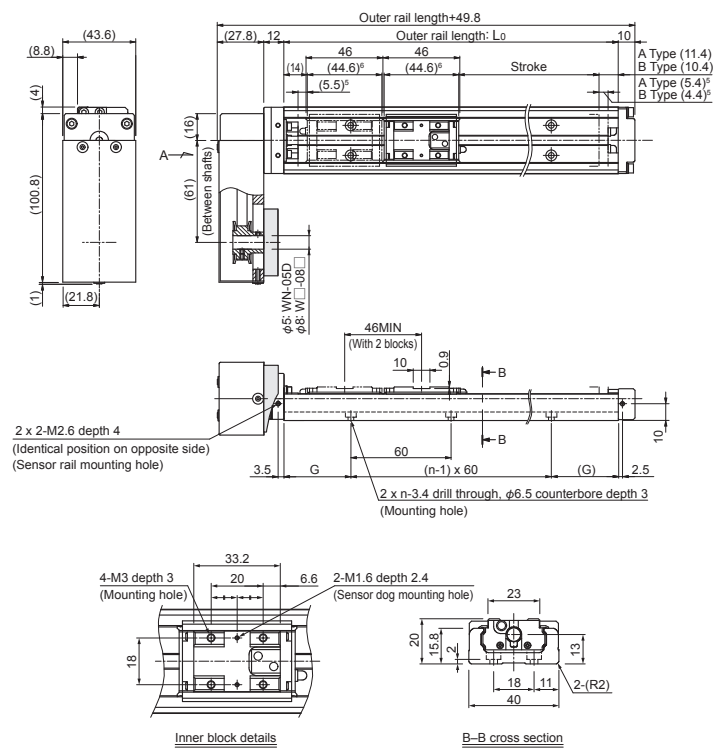
KR20

KR26

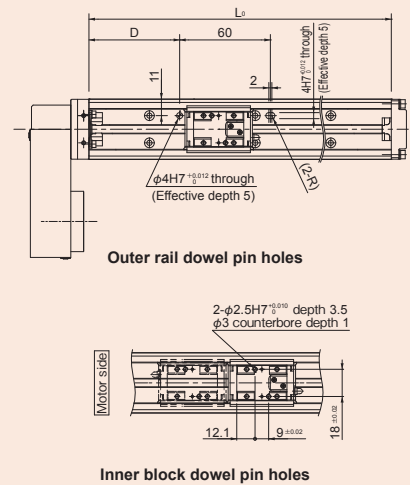
KR30H

KR45H

Uncovered Type



Customization: Dowel Pin Holes

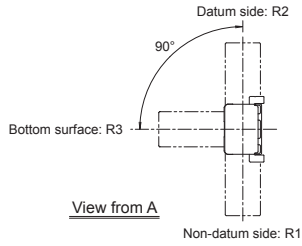


Specification Table (Uncovered/Covered)

Stroke (mm) (Stroke between mechanical stoppers)	A Type		30 (40.9)	80 (90.9)	130 (140.9)
	B Type ⁷		-	35 (44.9)	85 (94.9)
Maximum speed ⁸ (mm/s)	Ball screw lead	1 mm	50 (100)		
		6 mm	300 (600)		
Dimensions (mm)	Outer rail length: L ₀		100	150	200
	D		30	25	50
	G		20	15	40
No. of mounting holes	n		2	3	3
Mass (kg)	Uncovered	A Type	0.72	0.86	0.99
		B Type	-	0.93	1.06
	Covered	A Type	0.81	0.95	1.09
		B Type	-	1.07	1.21

¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (A Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque, or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates the block length when calculating the possible stroke range. It is 90.6 mm for an SKR20 with 2 blocks in close contact with each other (B Type).
⁷ This indicates a value when 2 blocks are in close contact with each other.
⁸ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

Wrapping Direction



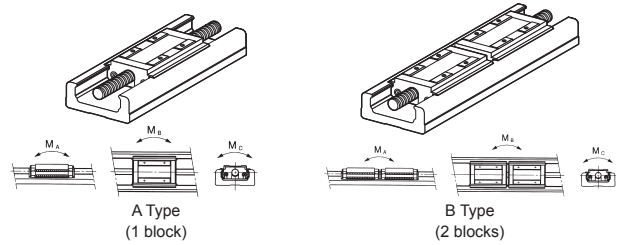
Detailed Specifications

Recommended coupling		-	
Outer diameter of ball screw shaft end (mm)		φ4h7	
Permissible input torque (N·m)	Ball screw lead	1 mm	0.12
		6 mm	0.40

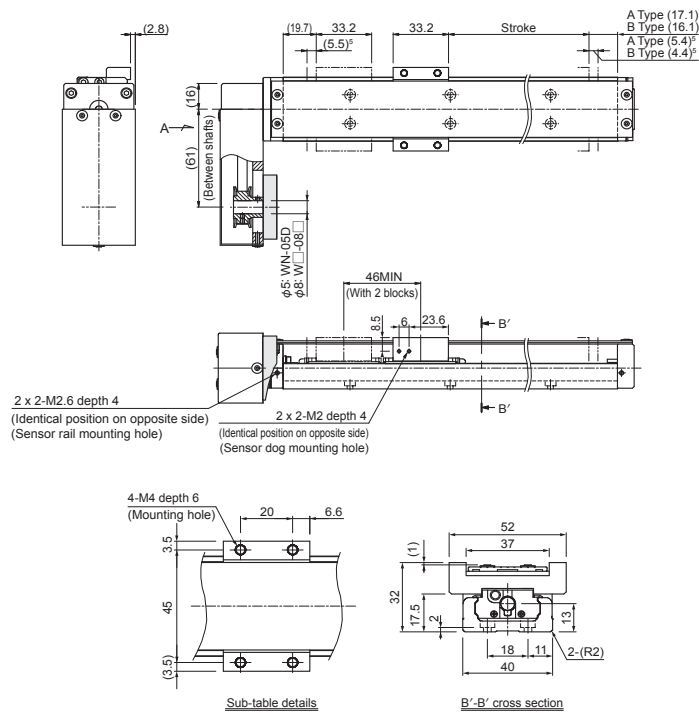
Static Permissible Moment

Unit: N·m

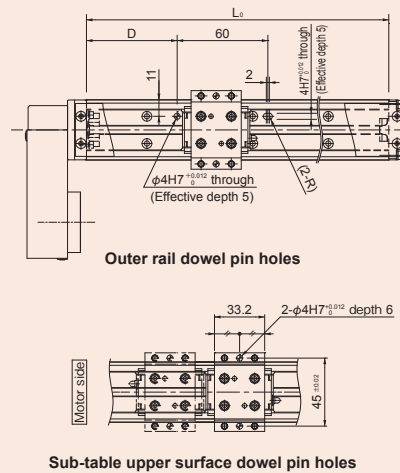
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
SKR20	A	38	38	98
	B	207	207	197



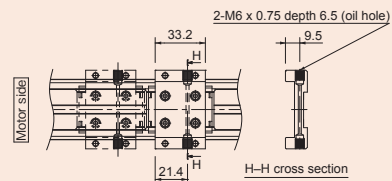
Covered Type



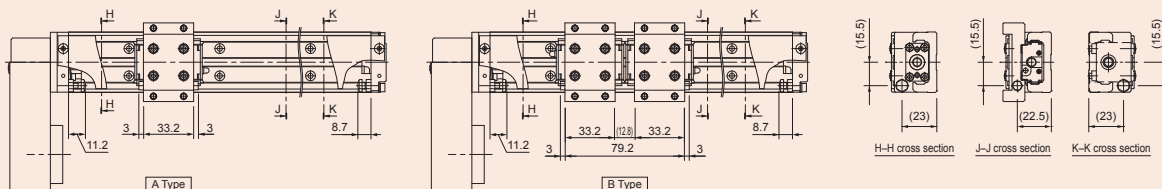
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



SKR20 A/B Direct Motor Coupling

Model Number Coding

Model No.	Ball screw lead	Block type	Basic Configuration				Semi-Custom Series				
			Stroke	Direct coupling/ Wrapping	Cover ¹	Housing A/ Intermediate flange	Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)
SKR20	01: 1 mm	A: 1 block	A Type 0030: 30 mm	0: Direct coupling	0: Without 1: With	Direct coupling 0: Without (Housing A only) P/Q/S/N/R (Housing A and intermediate flange); See the following table	0: Without D: With	0: Without M: With	0: Without G: With	0: Without	0: Standard grease (AFA Grease) L: Low dust-generating grease (AFF Grease)
	06: 6 mm	B: 2 blocks	0080: 80 mm 0130: 130 mm								

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.
² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.
³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.
⁴ Sub-table greasing holes are only available on covered products.
⁵ SKR20 cannot be specified with surface treatment. (The outer rail, ball screw, and inner block are made of stainless steel.)

SKR20

SKR26

SKR33

SKR46

KR20

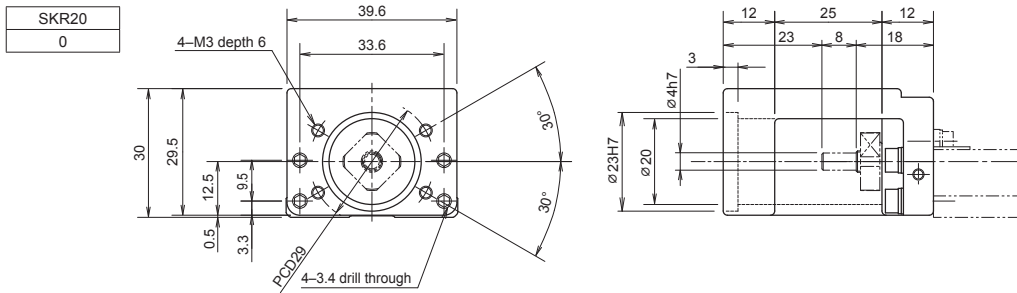
KR26

KR30H

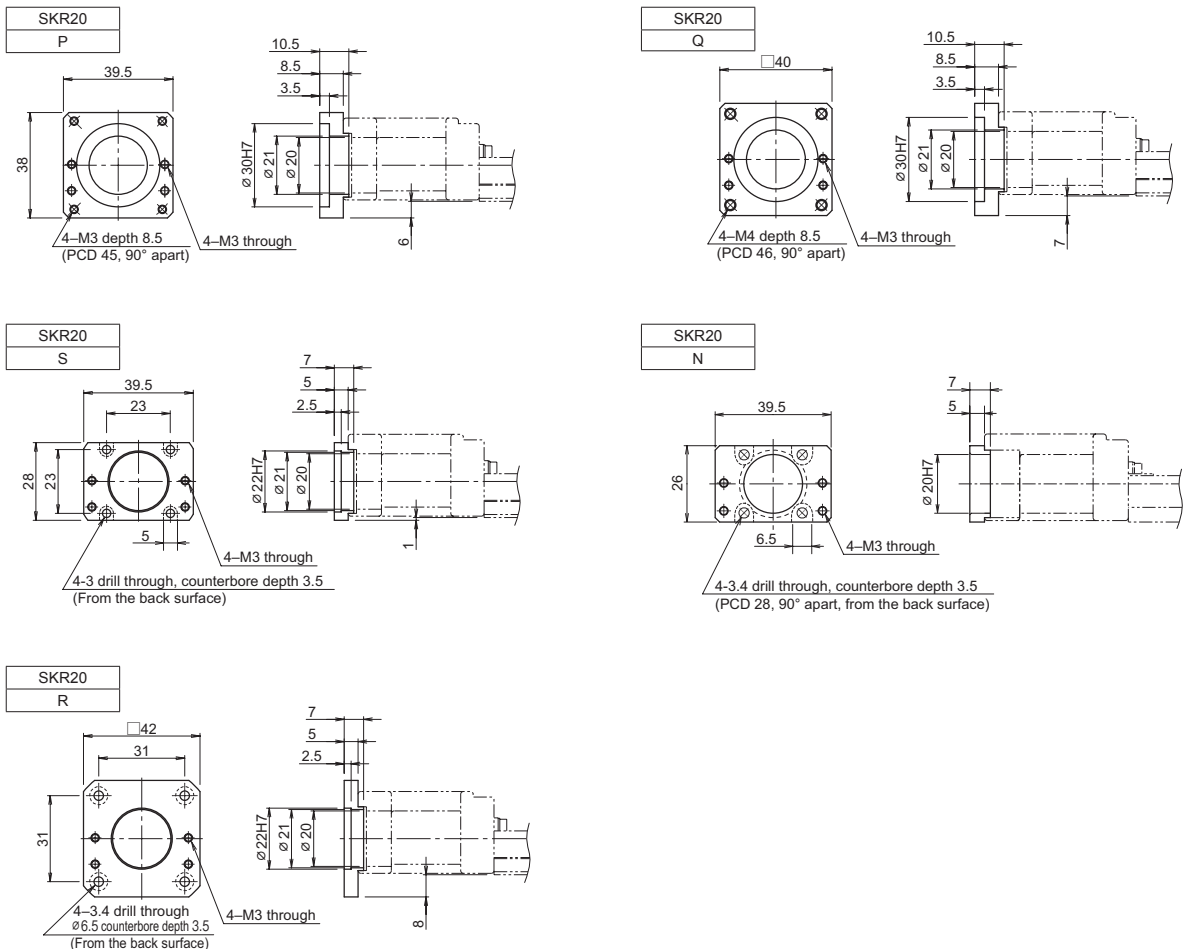
KR45H

SKR20 A/B Direct Coupling Dimensional Diagrams for Motor Mounting

Housing A



Intermediate Flange



SKR20 A/B Motor Wrapping

Model Number Coding

Wrapping direction details → p. 16

Model No.	Ball screw lead	Block type	Basic Configuration			Semi-Custom Series					
			Stroke	Direct coupling Wrapping	Cover ¹	Motor mounting plate	Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)
SKR20	01: 1 mm	A: 1 block	A Type	R1: Non-standard side wrapping R2: Standard side wrapping R3: Bottom surface wrapping	0: Without 1: With	Wrapping P08K/P08D/Q08K Q08D/N05D (Wrapping specifications): See the following table	0: Without	0: Without	0: Without	0: Without	0: Standard grease (AFA Grease) L: Low dust-generating grease (AFF Grease)
	06: 6 mm	B: 2 blocks	0030: 30 mm 0080: 80 mm 0130: 130 mm				D: With	M: With	G: With		
			B Type								
			0035: 35 mm 0085: 85 mm								

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.
² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.
³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.
⁴ Sub-table greasing holes are only available on covered products.
⁵ SKR20 cannot be specified with surface treatment. (The outer rail, ball screw, and inner block are made of stainless steel.)

Q 08 K

① ② ③

- ①: Motor mounting plate type
- ②: Motor shaft diameter (mm)
- ③: Motor shaft securing method

K: Key
D: Flat

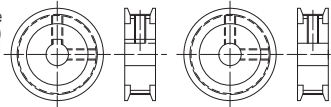
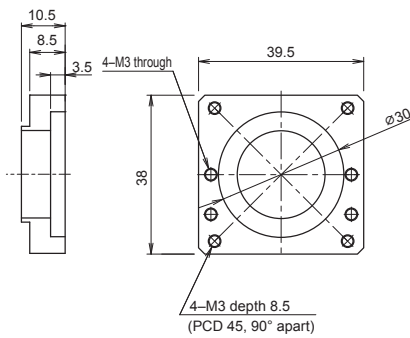


Figure: Motor shaft securing method

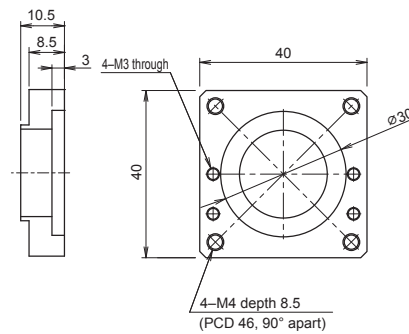
SKR20 A/B Wrapping Dimensional Diagrams for Motor Mounting

Wrapping Specifications (Motor Mounting Plate)

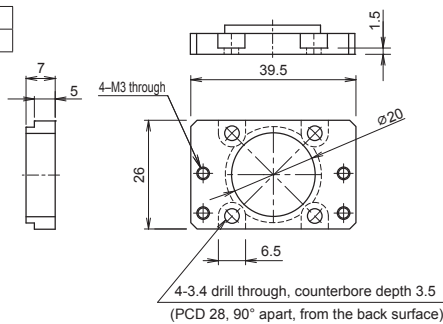
SKR20
P08K
P08D



SKR20
Q08K
Q08D



SKR20
N05D



SKR26 A/B Direct Motor Coupling

General Specifications

Motor rated output (W)		50			
Ball screw lead (mm)		2	6		
Rated speed ¹ (mm/s)		100	300		
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.15G	27.5	27.5
			0.3G	27.5	27.5
		Vertical	0.15G	14	7
			0.3G	14	7
Rated thrust ³ (N)		449	149		
Maximum thrust ⁴ (N)		1229	452		

Load Rating

Item		SKR2602	SKR2606
LM Guide unit	Basic dynamic load rating C (N)	13000	
	Basic static load rating C ₀ (N)	16500	
	Radial clearance (mm)	-0.006 to 0	
Ball screw unit	Basic dynamic load rating Ca (N)	2350	1950
	Basic static load rating C _{0a} (N)	4020	3510
	Screw shaft diameter (mm)	ø8	
	Ball screw lead (mm)	2	6
	Bearing unit (fixed side)	Ball screw lead (mm)	2
Axial direction	Basic dynamic load rating Ca (N)	2000	
	Static permissible load P _{0a} (N)	1230	

Motor Used and Applicable Intermediate Flanges

AC servo motor	Motor type		Rated output	Flange size	Intermediate flange symbol	
	Yaskawa Electric Corporation	Σ-Vmini	SGMMV-A1	10W	□25	N
SGMMV-A2			20W	N		
SGMMV-A3			30W	N		
Σ-V		SGMJV-A5	50W	□40	Q	
		SGMAV-A5			Q	
		SGM7J-A5			Q	
Mitsubishi Electric Corporation	MEISERVO	J3	HF-MP053	□40	Q	
			HF-KP053		Q	
			HG-AK0136		N	
		J4	HG-AK0236	□25	N	
			HG-AK0336		N	
			HG-MR053		Q	
	Tamagawa Seiki Co., Ltd.	TBL-III	TS4602	□40	Q	
			TSM3102		Q	
			MSMD5A		P	
		MINAS	A5	MSME5A	□38	P
				MSMF5A		P
			A6	MHMF5A	□40	Q
Keyence Corporation	SV	SV-M005	50W	□40	Q	
	SV2	SV2-M005	50W	□40	Q	
Sanyo Denki Co., Ltd.	SANMOTION R	R2□A04005	50W	□40	Q	
OMRON Corporation	OMNUC G5	R88M-K05030	50W	□40	Q	
Fanuc Corporation	β is series	βis0.2/5000	50W	□40	Q	

SKR20

SKR26

SKR33

SKR46

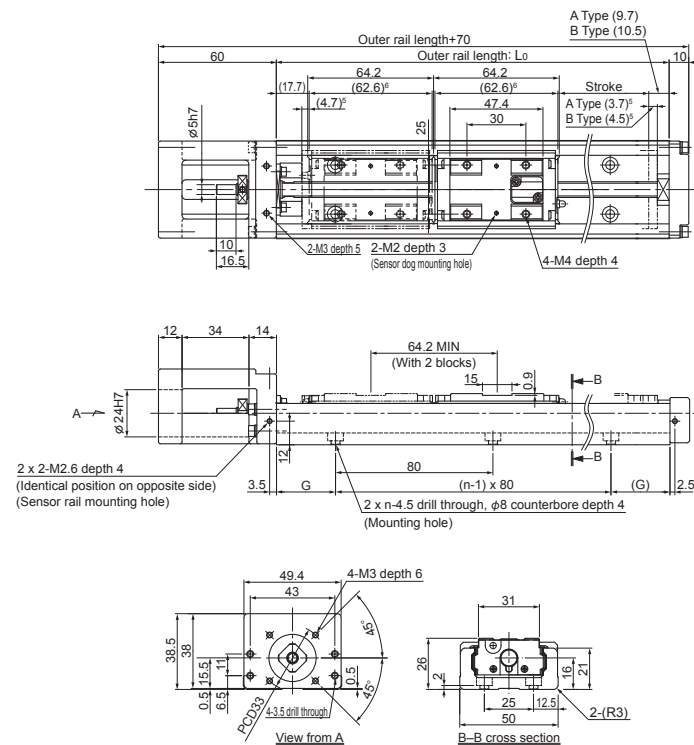
KR20

KR26

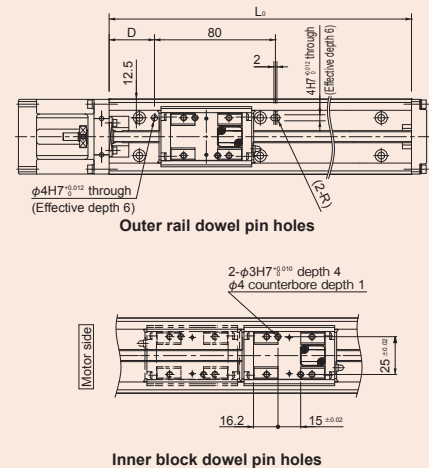
KR30H

KR45H

Uncovered Type



Customization: Dowel Pin Holes



¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (A Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque, or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates the block length when calculating the possible stroke range. It is 126.8 mm for an SKR26 with 2 blocks in close contact with each other (B Type).
⁷ This indicates a value when 2 blocks are in close contact with each other.
⁸ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

Specification Table (Uncovered/Covered)

Stroke (mm) (Stroke between mechanical stoppers)	A Type		60 (68.4)	110 (118.4)	160 (168.4)	210 (218.4)
	B Type ⁷		—	45 (54.2)	95 (104.2)	145 (154.2)
Maximum speed ⁸ (mm/s)	Ball screw lead	2 mm	100 (200)			
		6 mm	300 (600)			
Dimensions (mm)	Outer rail length: L ₀		150	200	250	300
	D		45	30	55	40
	G		35	20	45	30
No. of mounting holes	n		2	3	3	4
Mass (kg)	Uncovered	A Type	1.01	1.22	1.43	1.64
		B Type	—	1.39	1.6	1.81
	Covered	A Type	1.17	1.39	1.61	1.83
		B Type	—	1.64	1.86	2.08

Intermediate flange dimensions ⇨ p. 23

Stepper motor	Motor type		Flange size	Intermediate flange symbol		
	Oriental Motor	αStep	AZ2*, AR2*	□28	S	
AZ4*, AR4* (excluding the AZM48)			□42	R		
AZ4*, AR4* (AZM48)			□42	R		
5-phase		CRK	CRK52*	□28	S	
			CRK54*	□42	R	
			RKS54*	□42	R	
		PKA	PKA544	□42	R	
			CVK	CVK52*	□28	S
		2-phase	CVK	CVK54*	□42	R
			CVK	CVK22*	□28	S
Sanyo Denki Co., Ltd.	PB	PBDM28*	□28	S		
		PBDM423, PBA**423	□42	R		
		FAF/FDF52*	□28	S		
	5-phase	FAF54*/FDF54*/FA511M42/FB511M42	□42	R		
		2-phase	D*14S28*	□28	S	
	DB14H52*		□42	R		
	DU15H52*		□42	R		
	Keyence Corporation	2-phase	QS-M28	□28	S	
			QS-M42	□42	R	

Detailed Specifications

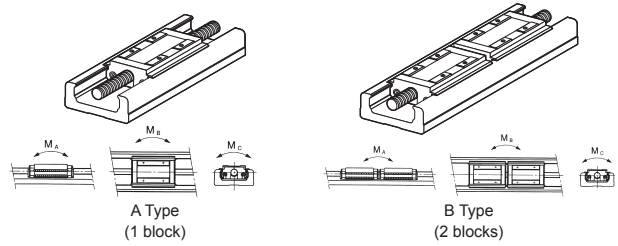
Recommended coupling		SFC-010DA2 (Miki Pulley Co., LTD.) φ4 to 8
Outer diameter of ball screw shaft end (mm)		φ5h7
Permissible input torque (N·m)	Ball screw lead	2 mm
	6 mm	0.80

Note) The recommended coupling is for use with a servo motor. Please refer to the optimal product selection tool when using a stepper motor.

Static Permissible Moment

Unit: N·m

Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
SKR26	A	117	117	265
	B	589	589	530



SKR20

SKR26

SKR33

SKR46

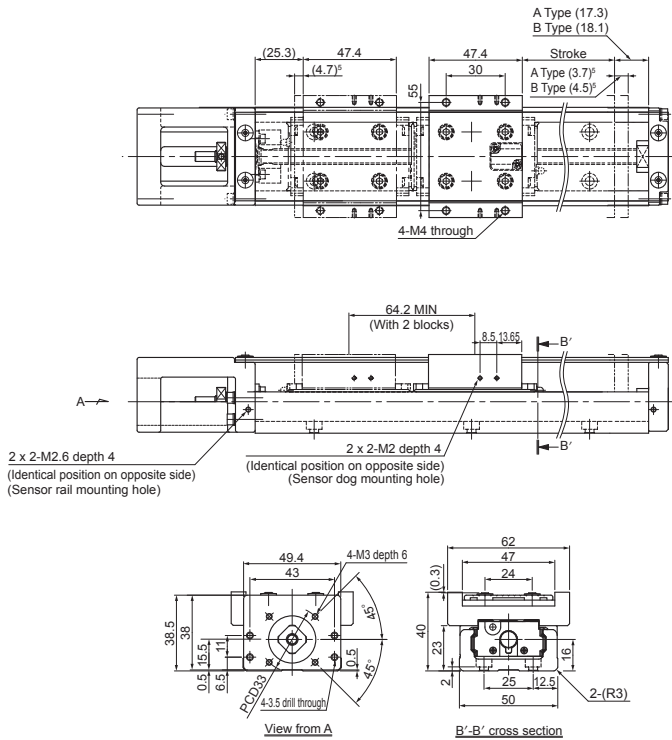
KR20

KR26

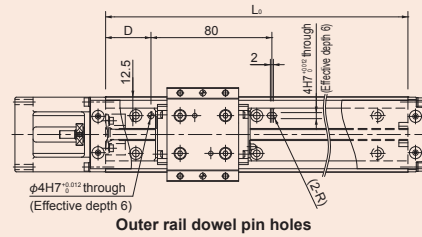
KR30H

KR45H

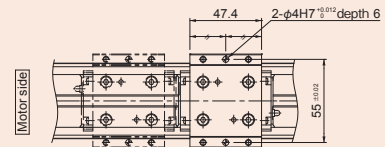
Covered Type



Customization: Dowel Pin Holes

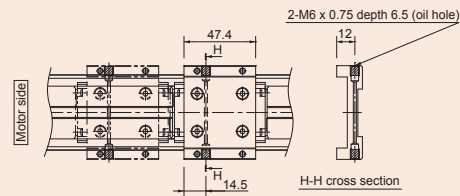


Outer rail dowel pin holes

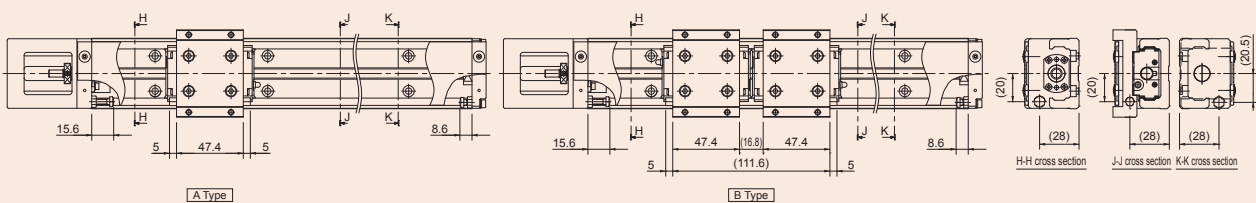


Sub-table upper surface dowel pin holes

Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



SKR26 A/B Motor Wrapping

General Specifications

Motor rated output (W)		50		
Ball screw lead (mm)		2	6	
Rated speed ¹ (mm/s)		100	300	
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.15G 27.5 0.3G 27.5	
		Vertical	0.15G 14 0.3G 7	
	Rated thrust ³ (N)		449	149
	Maximum thrust ⁴ (N)		1229	452

Load Rating

Item		SKR2602	SKR2606
LM Guide unit	Basic dynamic load rating C (N)	13000	
	Basic static load rating C ₀ (N)	16500	
	Radial clearance (mm)	-0.006 to 0	
Ball screw unit	Basic dynamic load rating Ca (N)	2350	1950
	Basic static load rating C _{0a} (N)	4020	3510
	Screw shaft diameter (mm)	ø8	
	Ball screw lead (mm)	2	6
Bearing unit (fixed side)	Axial direction	Basic dynamic load rating Ca (N)	2000
		Static permissible load P _{0a} (N)	1230

Motor Used and Wrapping Symbol

Wrapping specification details (dimensions of motor mounting plate) → p. 24

Motor type		Rated output	Flange size	Wrapping symbol		
Yaskawa Electric Corporation	Σ-Vmini	SGMMV-A1	10W	□25		
		SGMMV-A2	20W	□25		
		SGMMV-A3	30W	□25		
	Σ-V	SGMJV-A5	50W	□40		
		SGMAV-A5	50W	□40		
		SGM7J-A5	50W	□40		
Mitsubishi Electric Corporation	MELSERVO	J3	HF-MP053	50W	□40	
			HF-KP053	50W	□40	
		J4	HG-AK0136	10W	□25	
			HG-AK0236	20W	□25	
			HG-AK0336	30W	□25	
			HG-MR053	50W	□40	
	JN	HF-KN053	50W	□40		
		HF-KN053	50W	□40		
	Tamagawa Seiki Co., Ltd.	TBL-III	TS4602	50W	□40	
		TBL-IV	TSM3102	50W	□40	
	Panasonic Corporation	MINAS	A5	MSMD5A	50W	□38
			A6	MSME5A	50W	□38
SV		MSMF5A	50W	□40		
		MHMF5A	50W	□40		
Keyence Corporation	SV	SV-M005	50W	□40		
	SV2	SV2-M005	50W	□40		
Sanyo Denki Co., Ltd.	SANMOTION R	R2□A04005	50W	□40		
OMRON Corporation	OMNUC G5	R88M-K05030	50W	□40		
Fanuc Corporation	β is series	βis0.2/5000	50W	□40		

SKR20

SKR26

SKR33

SKR46

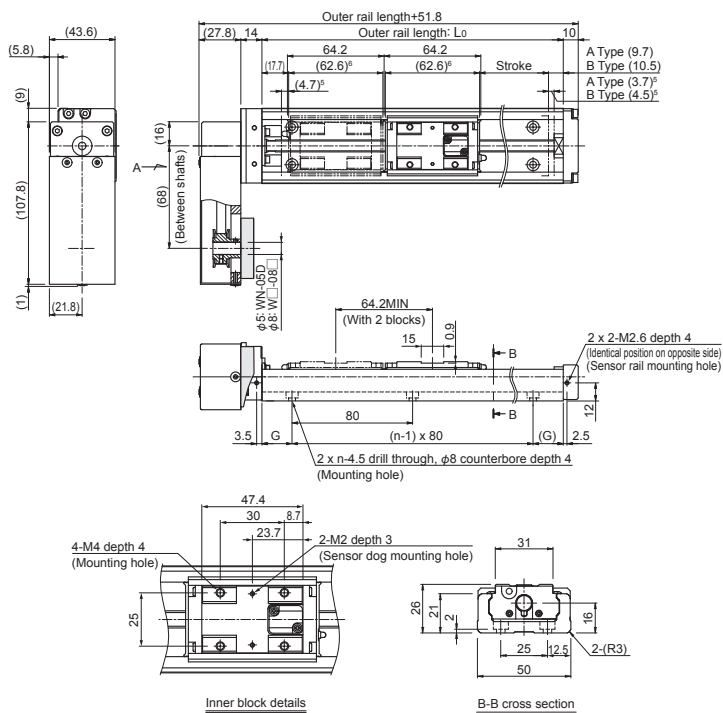
KR20

KR26

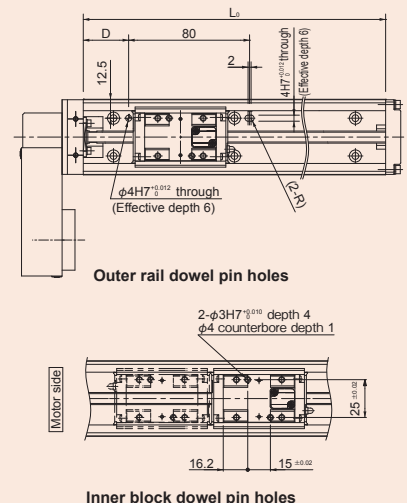
KR30H

KR45H

Uncovered Type



Customization: Dowel Pin Holes

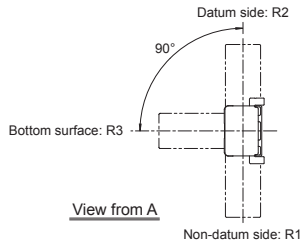


Specification Table (Uncovered/Covered)

Stroke (mm) (Stroke between mechanical stoppers)	A Type					
	B Type ⁷	60 (68.4)	110 (118.4)	160 (168.4)	210 (218.4)	
Maximum speed ⁸ (mm/s)	Ball screw lead	2 mm	100 (200)			
		6 mm	300 (600)			
Dimensions (mm)	Outer rail length: L ₀	150	200	250	300	
	D	45	30	55	40	
	G	35	20	45	30	
No. of mounting holes	n	2	3	3	4	
Mass (kg)	Uncovered	A Type	1.24	1.45	1.66	1.87
		B Type	—	1.62	1.83	2.04
	Covered	A Type	1.39	1.61	1.84	2.06
		B Type	—	1.86	2.09	2.31

¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (A Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque, or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates the block length when calculating the possible stroke range. It is 126.8 mm for an SKR26 with 2 blocks in close contact with each other (B Type).
⁷ This indicates a value when 2 blocks are in close contact with each other.
⁸ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

Wrapping Direction



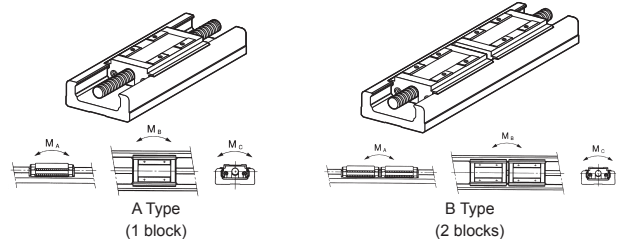
Detailed Specifications

Recommended coupling			—
Outer diameter of ball screw shaft end (mm)			φ5h7
Permissible input torque (N·m)	Ball screw lead	2 mm	0.40
		6 mm	0.40

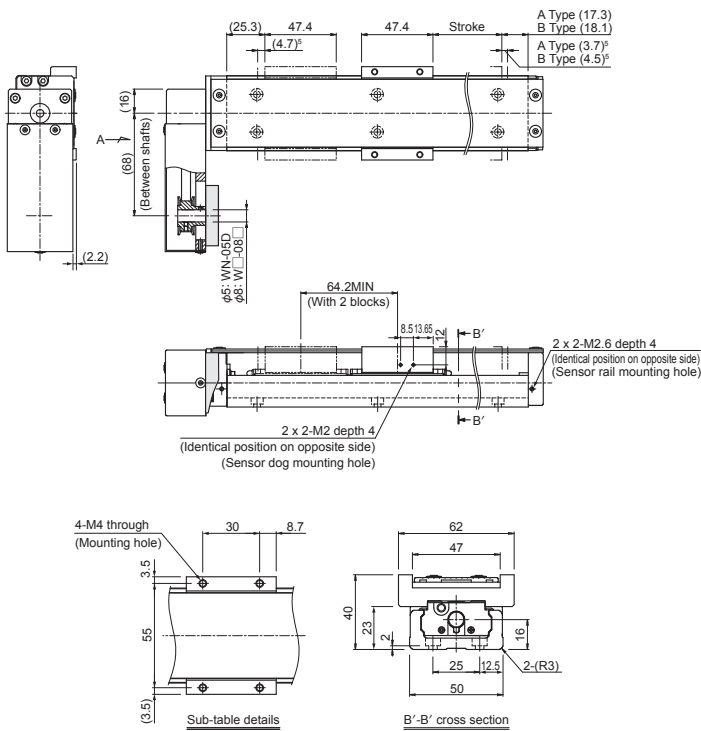
Static Permissible Moment

Unit: N·m

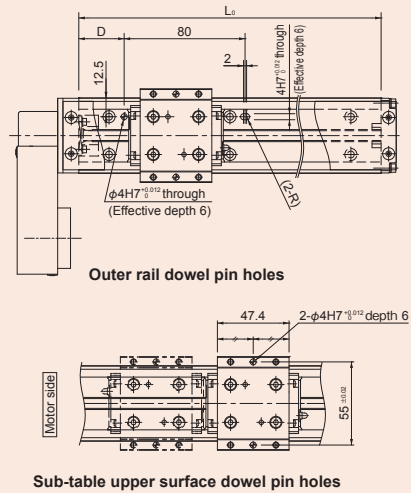
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
SKR26	A	117	117	265
	B	589	589	530



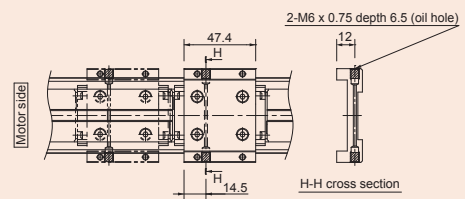
Covered Type



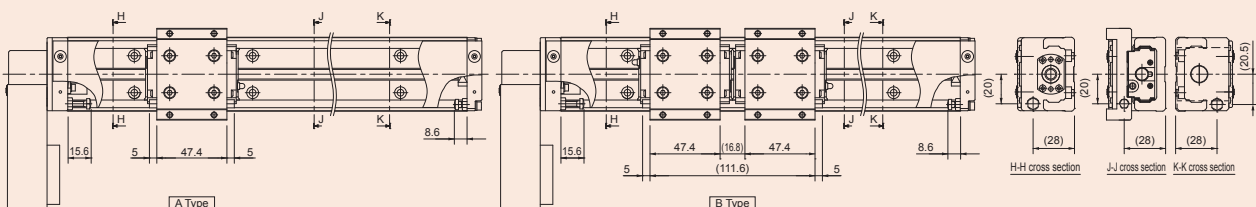
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



SKR26 A/B Direct Motor Coupling

Model Number Coding

Model No.	Ball screw lead	Block type	Basic Configuration			Semi-Custom Series						
			Stroke	Direct coupling/ Wrapping	Cover ¹	Housing A/ Intermediate flange	Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)	
SKR26	02: 2 mm 06: 6 mm	A: 1 block B: 2 blocks	A Type		0: Direct coupling 1: With	0: Without (Housing A only) P/Q/R/N/S (Housing A and intermediate flange); See the following table	0: Without D: With	0: Without M: With	0: Without G: With	0: Without	0: Standard grease (AFA Grease) L: Low dust-generating grease (AFF Grease)	
			0060: 60 mm	0110: 110 mm								
	0160: 160 mm	0210: 210 mm										
	B Type		0045: 45 mm	0095: 95 mm								0145: 145 mm

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.
² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.
³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.
⁴ Sub-table greasing holes are only available on covered products.
⁵ SKR26 cannot be specified with surface treatment. (The outer rail, ball screw, and inner block are made of stainless steel.)

SKR20

SKR26

SKR33

SKR46

KR20

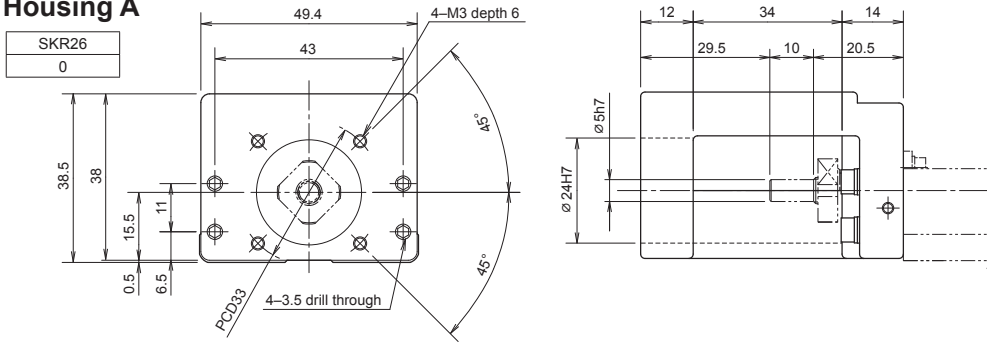
KR26

KR30H

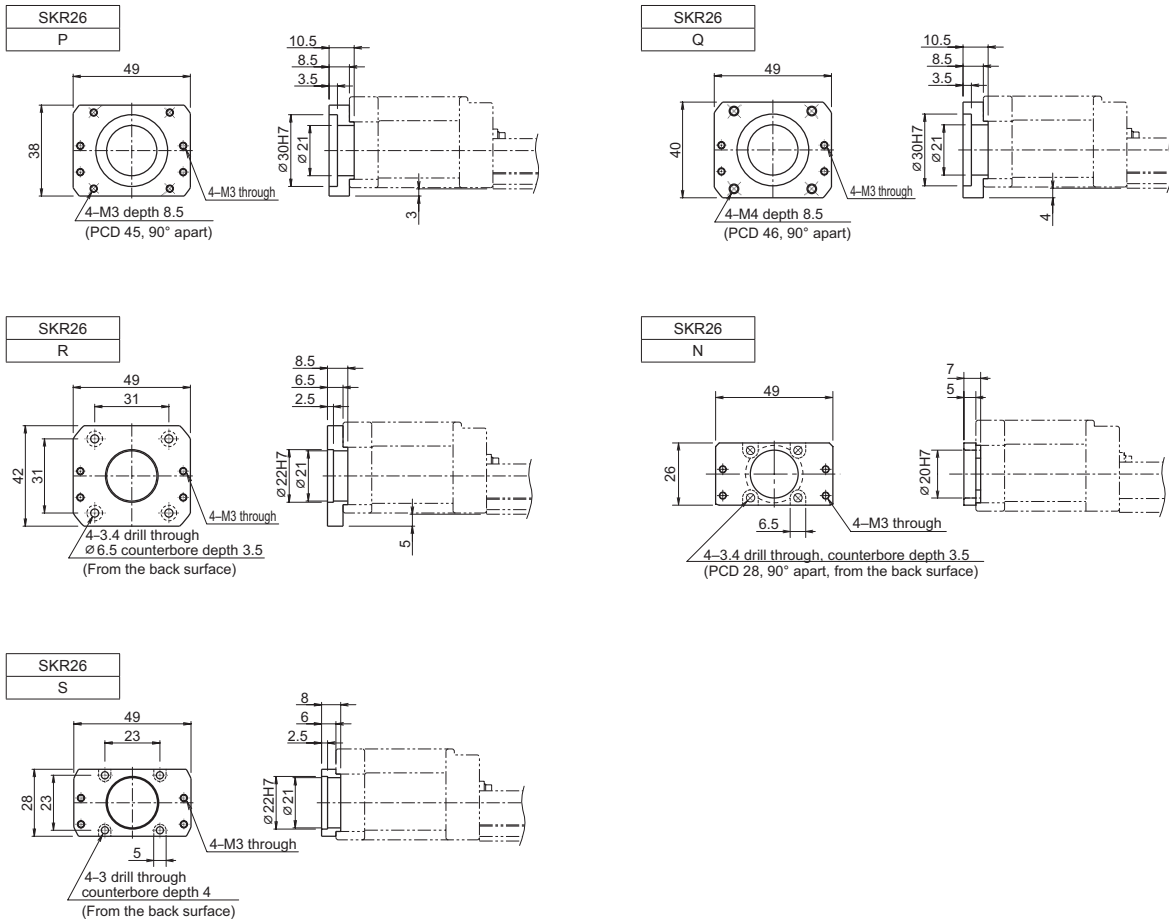
KR45H

SKR26 A/B Direct Coupling Dimensional Diagrams for Motor Mounting

Housing A



Intermediate Flange



SKR26 A/B Motor Wrapping

Model Number Coding

Wrapping direction details → p. 22

Basic Configuration					Semi-Custom Series							
Model No.	Ball screw lead	Block type	Stroke	Direct coupling Wrapping	Cover ¹	Motor mounting plate	Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)	
SKR26	02: 2 mm 06: 6 mm	A: 1 block B: 2 blocks	A Type			0: Without 1: With	Wrapping P08K/P08D/Q08K Q08D/N05D (Wrapping specifications): See the following table	0: Without D: With	0: Without M: With	0: Without G: With	0: Without	0: Standard grease (AFA Grease) L: Low dust-generating grease (AFF Grease)
			0060: 60 mm	R1: Non-standard side wrapping R2: Standard side wrapping R3: Bottom surface wrapping								
	0110: 110 mm											
	0160: 160 mm											
	0210: 210 mm	B Type										
0045: 45 mm												
0095: 95 mm												
0145: 145 mm												

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.
² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.
³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.
⁴ Sub-table greasing holes are only available on covered products.
⁵ SKR26 cannot be specified with surface treatment. (The outer rail, ball screw, and inner block are made of stainless steel.)

Q 08 K

① ② ③

- ①: Motor mounting plate type
- ②: Motor shaft diameter (mm)
- ③: Motor shaft securing method

K: Key
D: Flat

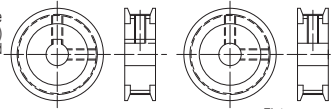
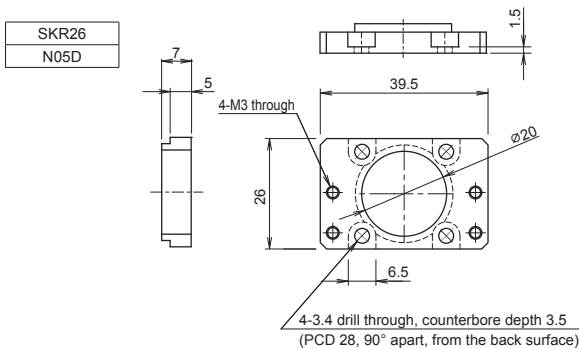
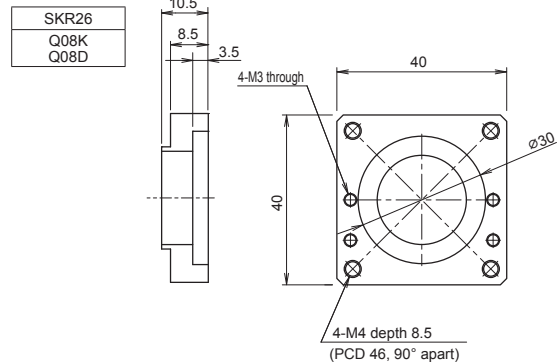
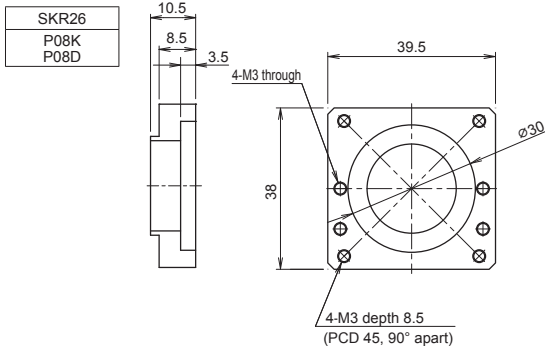


Figure: Motor shaft securing method

SKR26 A/B Wrapping Dimensional Diagrams for Motor Mounting

Wrapping Specifications (Motor Mounting Plate)



SKR33 A/B Direct Motor Coupling

General Specifications

Motor rated output (W)		100				
Ball screw lead (mm)		6	10	20		
Rated speed ¹ (mm/s)		300	500	1000		
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.15G	43.5	—	—
			0.3G	43.5	34.5	—
			0.5G	—	34.5	21
		Vertical	0.15G	19	—	—
			0.3G	19	12	—
			0.5G	—	12	6
Rated thrust ³ (N)		299	179	89		
Maximum thrust ⁴ (N)		895	537	268		

Load Rating

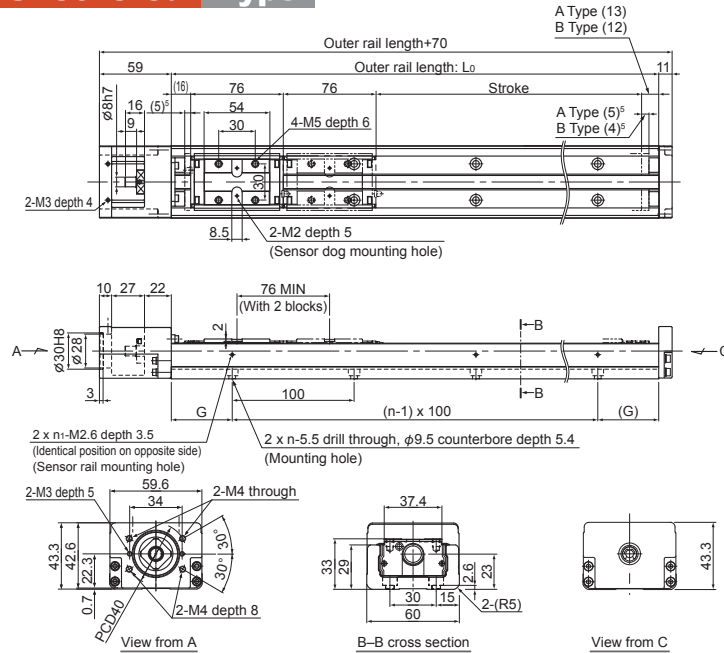
Item	SKR3306	SKR3310	SKR3320		
LM Guide unit	Basic dynamic load rating C (N)			17000	
	Basic static load rating C ₀ (N)			20400	
Ball screw unit	Radial clearance (mm)			-0.004 to 0	
	Basic dynamic load rating C _a (N)			4400 2700 2620	
	Basic static load rating C _{0a} (N)			6290 3780 3770	
	Screw shaft diameter (mm)			φ13	
	Ball screw lead (mm)			6 10 20	
	Ball screw lead (mm)			6 10 20	
Bearing unit (fixed side)	Axial direction	Basic dynamic load rating C _a (N)			6250
		Static permissible load P _{0a} (N)			2700

Motor Used and Applicable Intermediate Flanges

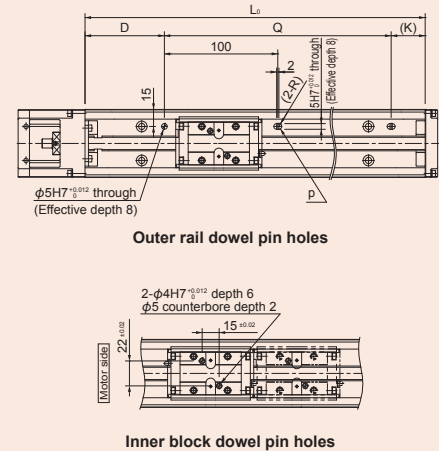
Motor type	Rated output	Flange size	Intermediate flange symbol
Yaskawa Electric Corporation	SGMJV-A5	□40	Q
	SGMAV-A5		Q
	SGMJV-01		Q
	SGMAV-01		Q
	SGMJV-C2		Q

Motor type	Rated output	Flange size	Intermediate flange symbol
Yaskawa Electric Corporation	50W	□40	Q
			Q
			Q
			Q
			Q
Mitsubishi Electric Corporation	50W	□40	Q
			Q
			Q
			Q
			Q
			Q
	100W	□40	Q
			Q
			Q
			Q
			Q
			Q
Tamagawa Seiki Co., Ltd.	50W	□40	Q
			Q
			Q
	100W	□40	Q
			Q
			Q
			Q
			Q
			Q
			Q
Panasonic Corporation	50W	□38	P
			P
			P
			P
			P
	100W	□38	P
			P
			P
			P
			P
Keyence Corporation	50W	□40	Q
			Q
			Q
			Q

Uncovered Type



Customization: Dowel Pin Holes



Specification Table (Uncovered/Covered)

Stroke (mm) (Stroke between mechanical stoppers)	A Type		45 (55)	95 (105)	195 (205)	295 (305)	395 (405)	495 (505)	595 (605)
	B Type ⁶		—	—	120 (129)	220 (229)	420 (429)	520 (529)	—
Maximum speed ⁷ (mm/s)	Ball screw lead	6 mm	300 (600)			300 (329)		300 (550)	300 (390)
		10 mm	500 (1000)			500 (920)		500 (920)	500 (650)
		20 mm	1000 (2000)			1000 (1780)		1000 (1780)	1000 (1270)
Dimensions (mm)	Outer rail length: L ₀		150	200	300	400	500	600	700
	G		25	50	50	50	50	50	50
	F		100	100	200	200	200	200	200
	H		25	50	50	100	50	100	50
	D		45	70	70	70	70	70	70
	Q		—	—	—	—	400	500	600
	K		—	—	—	—	30	30	30
No. of elongated holes	p		1	1	1	1	2	2	2
No. of mounting holes	n		2	2	3	4	5	6	7
	n ₁		2	2	2	2	3	3	4
Mass (kg)	Uncovered	A Type	1.9	2.3	3	3.7	4.5	5.2	5.9
		B Type	—	—	3.4	4.1	4.9	5.6	6.3
	Covered	A Type	2.3	2.6	3.4	4.2	4.9	5.7	6.4
		B Type	—	—	4	4.8	5.5	6.3	7

¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (A Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque, or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates a value when 2 blocks are in close contact with each other.
⁷ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

		Motor type		Rated output	Flange size	Intermediate flange symbol
AC servo motor	Sanyo Denki Co., Ltd.	SANMOTION R	R2□A04005	50W	□40	Q
			R2EA04008	80W		Q
			R2□A04010	100W		Q
OMRON Corporation	OMNUC G5	1S	R88M-K05030	50W	□40	Q
			R88M-K10030	100W		Q
			R88M-1M10030	100W		Q
Fanuc Corporation	β is series		β is 0.2/5000	50W	□40	Q
			β is 0.3/5000	100W		Q
Stepper motor	Oriental Motor	αStep	AZ4*, AR4* (excluding the AZM48)		□42	R
			AZ4*, AR4* (AZM48)			R
			AZ6, AR6			U
			CRK54*			R
			CRK56*φ8 564, 566			U
			CRK56*φ10 569			U
		5-phase	CRK	RKS54*		R
				RKS56*		U
				PKA544		R
			PKA	PKA566		U
				CVK54*		R
				CVK56*φ8 564, 566		U
		2-phase	CVK	CVK56*φ8 564		T
				CVK24*		R
		SANYO Electric	PB	PBDM423, PBA**423		R
				PBDM60*, PBA**60*		U
				FAF54*/FDF54*/FA511M42/FB511M42		R
			5-phase		FAF56*/FDF56*/FA512M60/FB512M60	
2-phase	DB14H52*					R
	DU15H52*					R
	D*16H71*			T		
Keyence Corporation	2-phase		DB16H78*		U	
			QS-M42		R	
			QS-M60		U	

Detailed Specifications

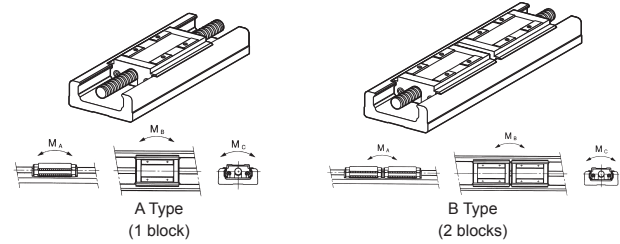
Recommended coupling		SFC-020DA2 (Miki Pulley Co., LTD.) φ8 (50W to 100W) XGT2-19C (Nabeya Bi-tech Kaisha) φ8 (50W to 100W)
Outer diameter of ball screw shaft end (mm)		φ8h7
Permissible input torque (N·m)	Ball screw lead	6 mm
		10, 20 mm
		3.2

Note) The recommended coupling is for use with a servo motor. Please refer to the optimal product selection tool when using a stepper motor.

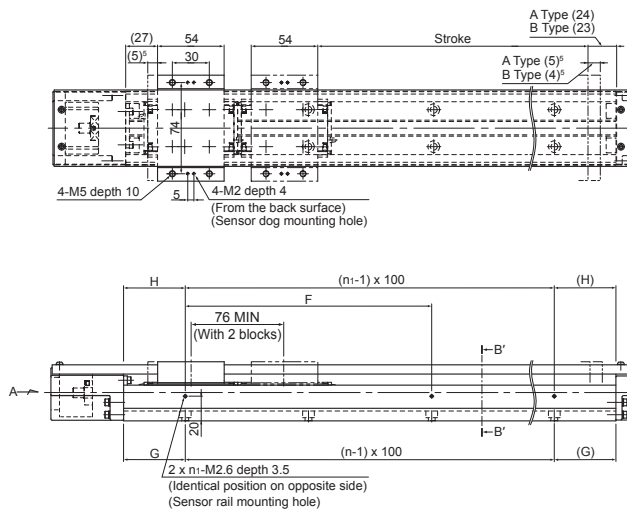
Static Permissible Moment

Unit: N·m

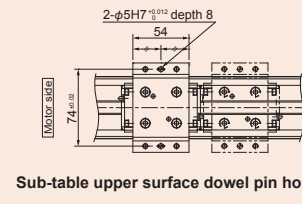
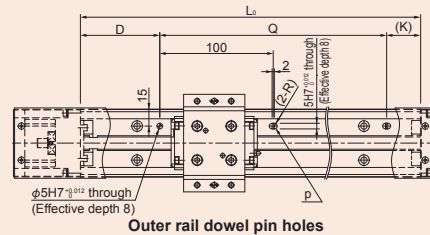
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
SKR33	A	173	173	424
	B	990	990	848



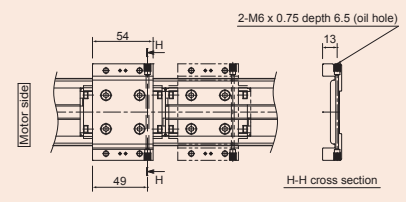
Covered Type



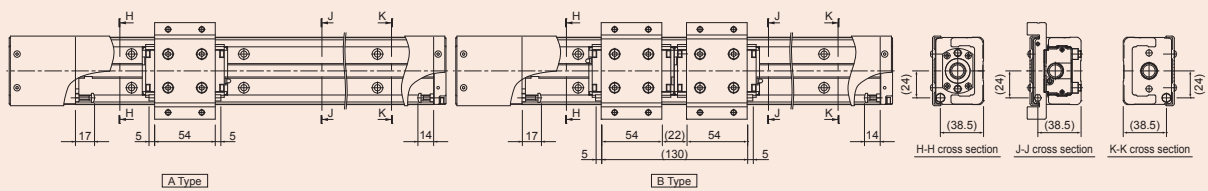
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



SKR33 A/B Motor Wrapping

General Specifications

Motor rated output (W)		100				
Ball screw lead (mm)		6	10	20		
Rated speed ¹ (mm/s)		300	500	1000		
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.15G	43.5	—	—
			0.3G	43.5	34.5	—
			0.5G	—	34.5	18.5
		Vertical	0.15G	19	—	—
			0.3G	19	11.5	—
			0.5G	—	11.5	5.5
Rated thrust ³ (N)		299	179	89		
Maximum thrust ⁴ (N)		895	537	268		

Load Rating

Item		SKR3306	SKR3310	SKR3320
LM Guide unit	Basic dynamic load rating C (N)	17000		
	Basic static load rating C ₀ (N)	20400		
	Radial clearance (mm)	-0.004 to 0		
Ball screw unit	Basic dynamic load rating Ca (N)	4400	2700	2620
	Basic static load rating C _{0a} (N)	6290	3780	3770
	Screw shaft diameter (mm)	φ13		
	Ball screw lead (mm)	6	10	20
	Bearing unit (fixed side)	Axial direction	Basic dynamic load rating Ca (N) Static permissible load P _{0a} (N)	
			6250 2700	

Motor Used and Wrapping Symbol

Motor type		Rated output	Flange size	Wrapping symbol			
Yaskawa Electric Corporation	Σ-V	SGMJV-A5	50W	□40	Q08K, Q08M		
		SGMAV-A5			Q08K, Q08M		
		SGMJV-01			Q08K, Q08M		
		SGMAV-01			Q08K, Q08M		
		SGMJV-C2			Q08K, Q08M		
		SGMAV-C2			Q08K, Q08M		
	Σ-7	SGM7J-A5	50W	□40	Q08K, Q08M		
		SGM7A-A5			Q08K, Q08M		
		SGM7J-01			Q08K, Q08M		
		SGM7A-01			Q08K, Q08M		
		SGM7J-C2			Q08K, Q08M		
		SGM7A-C2			Q08K, Q08M		
Mitsubishi Electric Corporation	J3	HF-MP053	50W	□40	Q08D, Q08M		
		HF-KP053			Q08D, Q08M		
		HF-MP13			Q08D, Q08M		
		HF-KP13			Q08D, Q08M		
		HG-MR053			Q08D, Q08M		
		HG-KR053			Q08D, Q08M		
	J4	HG-MR13	100W	□40	Q08D, Q08M		
		HG-KR13			Q08D, Q08M		
		JN			50W	□40	Q08D, Q08M
		HF-KN053					Q08D, Q08M
		HF-KN13					Q08D, Q08M
		TS4602					50W
TS4603	100W	Q08D, Q08M					
TS4604	150W	Q08D, Q08M					
TSM3102	50W	□40	Q08D, Q08M				
TSM3104	100W		Q08D, Q08M				
Panasonic Corporation	MINAS A5		MSMD5A	50W	□38	P08K, P08D, P08M	
			MSME5A			P08K, P08D, P08M	
			MSMD01			P08K, P08D, P08M	
			MSME01			100W	P08K, P08D, P08M

SKR20

SKR26

SKR33

SKR46

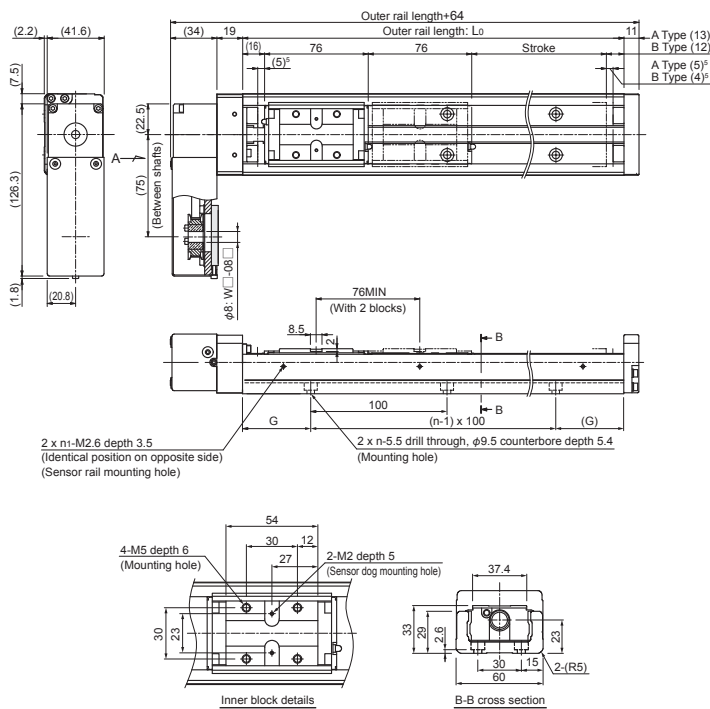
KR20

KR26

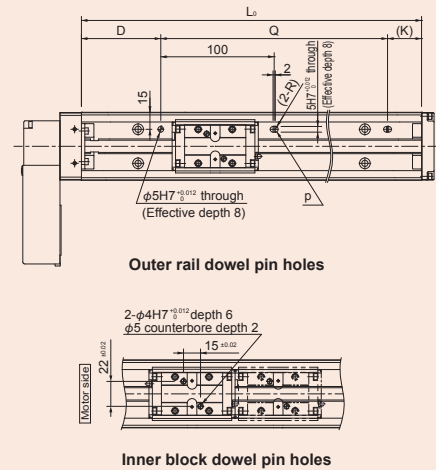
KR30H

KR45H

Uncovered Type



Customization: Dowel Pin Holes



Specification Table (Uncovered/Covered)

Stroke (mm) (Stroke between mechanical stoppers)	A Type		45 (55)	95 (105)	195 (205)	295 (305)	395 (405)	495 (505)	595 (605)	
	B Type ⁶		—	—	120 (129)	220 (229)	320 (329)	420 (429)	520 (529)	
Maximum speed ⁷ (mm/s)	Ball screw lead	6 mm	300 (600)			400		500	600 (550)	700 (390)
		10 mm	500 (1000)			200		300	500 (920)	650 (650)
		20 mm	1000 (2000)			100		150	1000 (1780)	1270 (1270)
Dimensions (mm)	Outer rail length: L ₀		150	200	300	400	500	600	700	
	G		25	50	50	50	50	50	50	
	F		100	100	200	200	200	200	200	
	H		25	50	50	100	50	100	50	
	D		45	70	70	70	70	70	70	
	Q		—	—	—	—	400	500	600	
K		—	—	—	—	30	30	30		
No. of elongated holes	p		1	1	1	1	2	2	2	
No. of mounting holes	n		2	2	3	4	5	6	7	
	n ₁		2	2	2	2	3	3	4	
Mass (kg)	Uncovered	A Type	2.2	2.6	3.3	4	4.8	5.5	6.2	
		B Type	—	—	3.7	4.4	5.2	5.9	6.6	
	Covered	A Type	2.5	2.9	3.7	4.4	5.2	6	6.7	
		B Type	—	—	4.3	5	5.8	6.6	7.3	

¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (A Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque, or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates a value when 2 blocks are in close contact with each other.
⁷ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

Wrapping specification details (dimensions of motor mounting plate) ⇨ p. 30

		Motor type		Rated output	Flange size	Wrapping symbol
AC servo motor	Panasonic Corporation	MINAS	A6	MSMF5A	□38	P08K, P08M
				MHMF5A		Q08K, Q08M
				MHMF01		
	Keyence Corporation	SV	SV-M005	□40	Q08K, Q08M	
			SV-M010		Q08K, Q08M	
		SV2	SV2-M005		Q08K, Q08M	
			SV2-M010		Q08K, Q08M	
	SANYO Electric	SANMOTION R	R2□A04005	□40	Q08M	
			R2EA04008		Q08M	
			R2□A04010		Q08M	
	OMRON Corporation	OMNUC G5	R88M-K05030	□40	Q08K, Q08M	
			R88M-K10030		Q08K, Q08M	
		1S	R88M-1M10030		Q08K, Q08M	

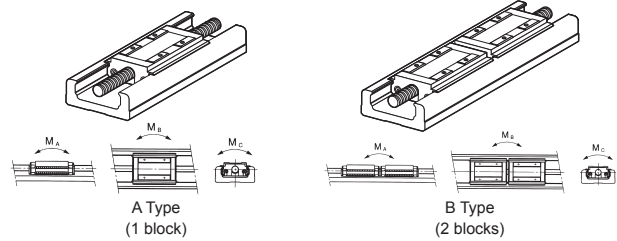
Detailed Specifications

Recommended coupling		—	
Outer diameter of ball screw shaft end (mm)		φ8h7	
Permissible input torque (N·m)	Ball screw lead	6 mm	0.98
		10, 20 mm	0.98

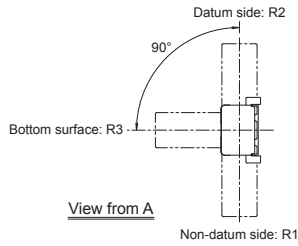
Static Permissible Moment

Unit: N·m

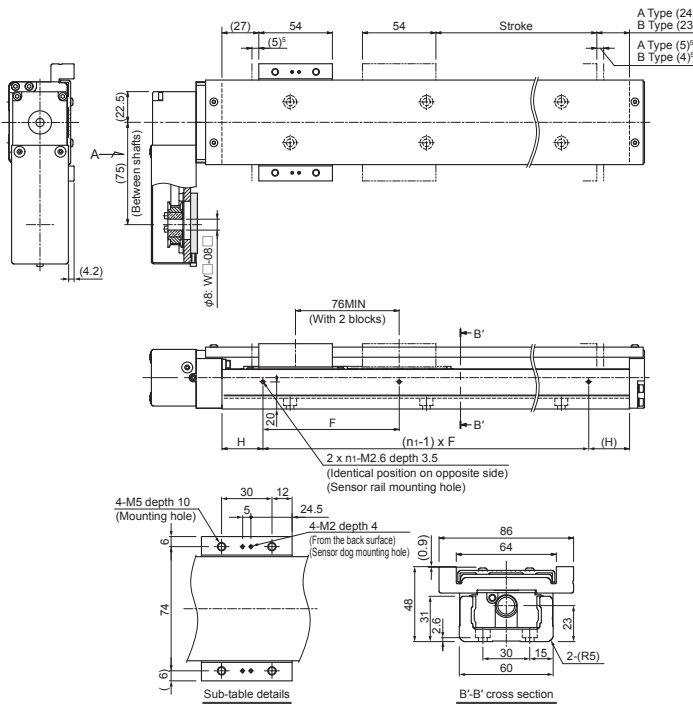
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
SKR33	A	173	173	424
	B	990	990	848



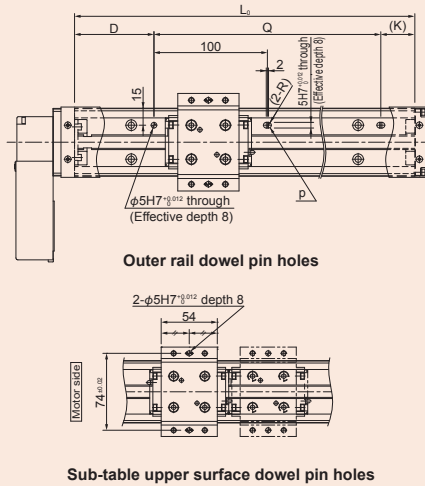
Wrapping Direction



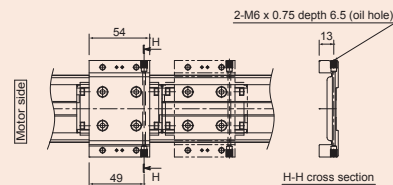
Covered Type



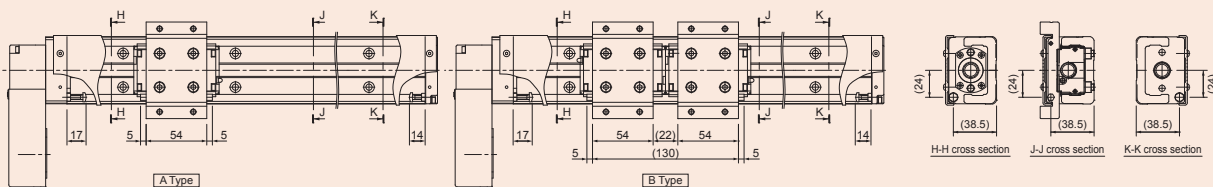
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



SKR33 A/B Direct Motor Coupling

Model Number Coding

Model No.	Ball screw lead	Block type	Basic Configuration				Semi-Custom Series					
			Stroke		Direct coupling/ Wrapping	Cover ¹	Housing A/ Intermediate flange	Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)
			A Type	B Type								
SKR33	06: 6 mm	A: 1 block	0045: 45 mm	0120: 120 mm	0: Direct coupling	0: Without 1: With	0: Without (Housing A only) P/Q/R/T/U (Housing A and intermediate flange); See the following table	0: Without D: With	0: Without M: With	0: Without G: With	0: Without S: With	0: Standard grease (AFB-LF Grease) L: Low dust-generating grease (AFF Grease)
	10: 10 mm	B: 2 blocks	0095: 95 mm	0220: 220 mm								
	20: 20 mm		0195: 195 mm	0320: 320 mm								
			0295: 295 mm	0420: 420 mm								
			0395: 395 mm	0520: 520 mm								
			0495: 495 mm									
			0595: 595 mm									

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.
² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.
³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.
⁴ Sub-table greasing holes are only available on covered products.
⁵ When surface treatment is selected, THK AP-C coating will be applied to the inner block and ball screw. (This treatment is already standard on the outer rail.)

SKR20

SKR26

SKR33

SKR46

KR20

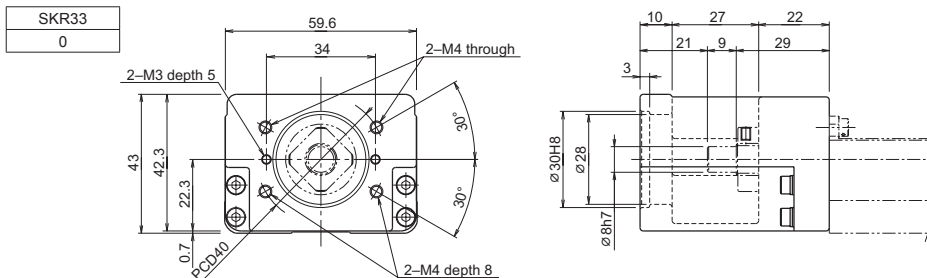
KR26

KR30H

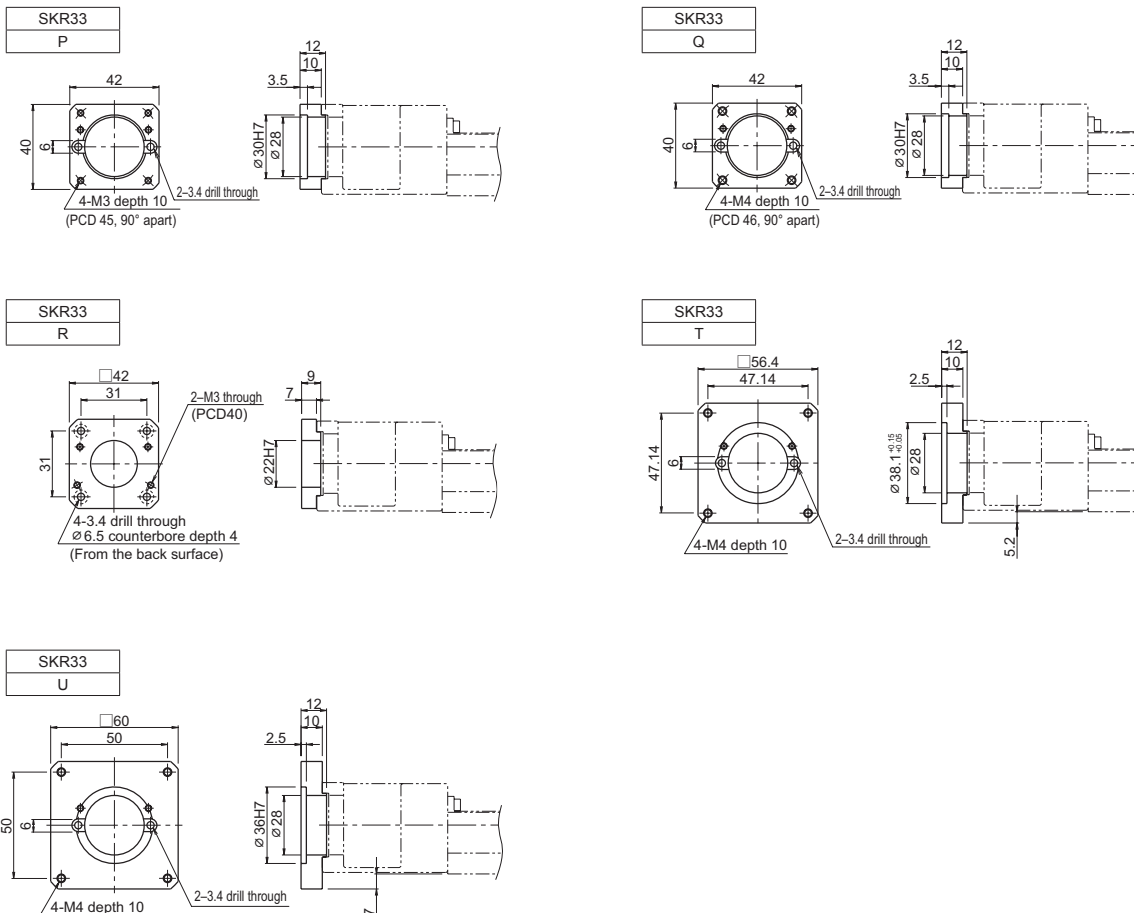
KR45H

SKR33 A/B Direct Coupling Dimensional Diagrams for Motor Mounting

Housing A



Intermediate Flange



SKR33 A/B Motor Wrapping

Model Number Coding

Wrapping direction details → p. 28

Basic Configuration						Semi-Custom Series						
Model No.	Ball screw lead	Block type	Stroke		Direct coupling wrapping	Cover ¹	Motor mounting plate	Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)
SKR33	06: 6 mm	A: 1 block	A Type	B Type	R1: Non-standard side wrapping R2: Standard side wrapping R3: Bottom surface wrapping	0: Without 1: With	P08K/P08D/P08M Q08K/Q08D/Q08M (Wrapping specifications): See the following table	0: Without D: With	0: Without M: With	0: Without G: With	0: Without S: With	0: Standard grease (AFB-LF Grease) L: Low dust-generating grease (AFF Grease)
	10: 10 mm	B: 2 blocks	0045: 45 mm	0120: 120 mm								
	20: 20 mm		0095: 95 mm	0220: 220 mm								
			0195: 195 mm	0320: 320 mm								
			0295: 295 mm	0420: 420 mm								
			0395: 395 mm	0520: 520 mm								
		0495: 495 mm										
		0595: 595 mm										

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.

² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.

³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.

⁴ Sub-table greasing holes are only available on covered products.

⁵ When surface treatment is selected, THK AP-C coating will be applied to the inner block and ball screw. (This treatment is already standard on the outer rail.)

Q 08 K

① ② ③

- ①: Motor mounting plate type
 - ②: Motor shaft diameter (mm)
 - ③: Motor shaft securing method
- K: Key
D: Flat
M: Friction fastener

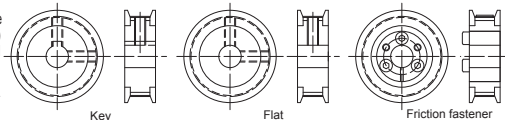


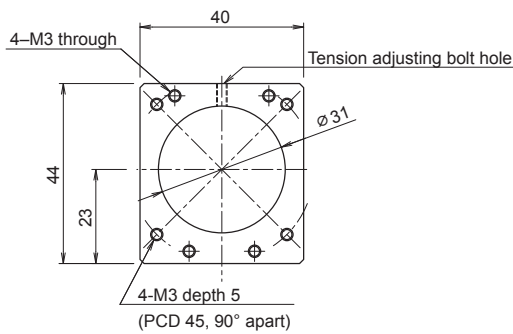
Figure: Motor shaft securing method

SKR33 A/B Wrapping Dimensional Diagrams for Motor Mounting

Wrapping Specifications (Motor Mounting Plate)

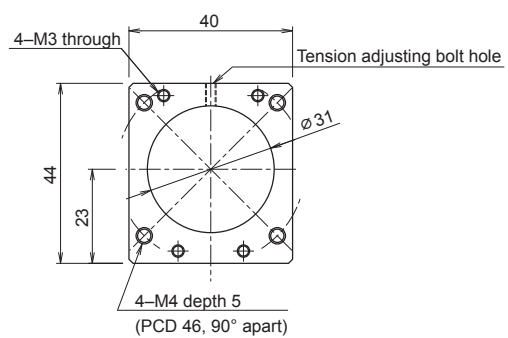
SKR33 P08K/P08D/P08M

Thickness: 5 mm



SKR33 Q08K/Q08D/Q08M

Thickness: 5 mm



SKR33 C/D Direct Motor Coupling

General Specifications

Motor rated output (W)		100			
Ball screw lead (mm)		6	10		
Rated speed ¹ (mm/s)		300	500		
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.15G	31.5	—
			0.3G	31.5	27
		0.5G	—	27	
	Vertical	0.15G	10.5	—	
		0.3G	10.5	8.5	
		0.5G	—	8.5	
Rated thrust ³ (N)		299	179		
Maximum thrust ⁴ (N)		895	537		

Load Rating

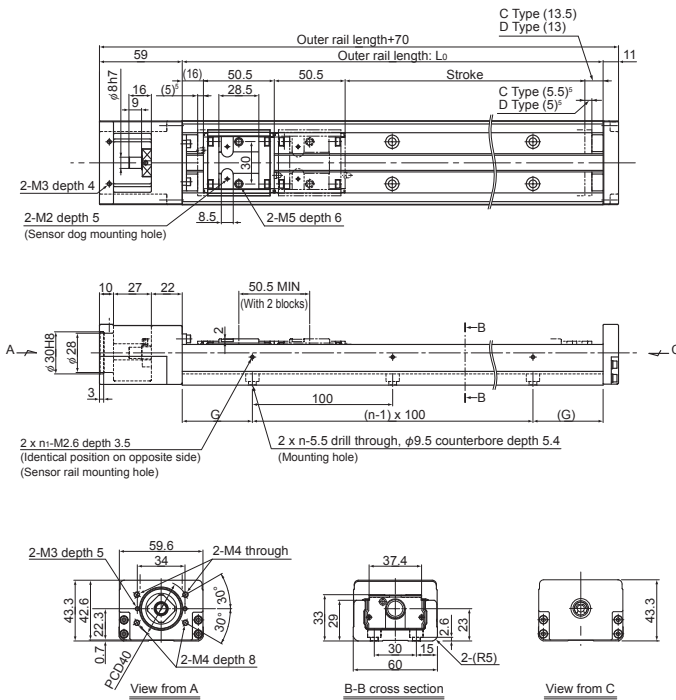
Item		SKR3306	SKR3310
LM Guide unit	Basic dynamic load rating C (N)	11300	
	Basic static load rating C ₀ (N)	11500	
	Radial clearance (mm)	-0.004 to 0	
Ball screw unit	Basic dynamic load rating Ca (N)	4400	2700
	Basic static load rating C _{0a} (N)	6290	3780
	Screw shaft diameter (mm)	φ13	
	Ball screw lead (mm)	6	10
	Bearing unit (fixed side)	Basic dynamic load rating Ca (N)	6250
	Static permissible load P _{0a} (N)	2700	

Motor Used and Applicable Intermediate Flanges Intermediate flange dimensions → p. 35

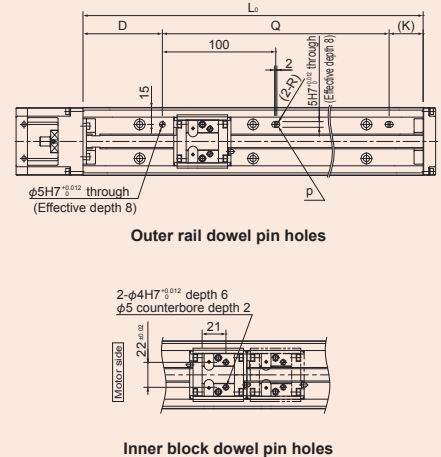
Motor type		Rated output	Flange size	Intermediate flange symbol	
AC servo motor	Yaskawa Electric Corporation	Σ-V	□40	SGMJV-A5	Q
				SGMAV-A5	Q
		100W		SGMJV-01	Q
				SGMAV-01	Q
				SGMJV-C2	150W

Motor type		Rated output	Flange size	Intermediate flange symbol			
AC servo motor	Yaskawa Electric Corporation	Σ-7	□40	SGM7J-A5	Q		
				SGM7A-A5	Q		
				SGM7J-01	Q		
				SGM7A-01	100W	Q	
				SGM7J-C2	150W	Q	
	Mitsubishi Electric Corporation	MELSERVO	J3	□40	HF-MP053	Q	
					HF-KP053	Q	
					HF-MP13	50W	Q
					HF-KP13	100W	Q
					HF-MR053	100W	Q
J4		□40	HG-MR053	50W	Q		
			HG-KR053	Q			
			HG-MR13	100W	Q		
			HG-KR13	Q			
			JN	HF-KN053	50W	Q	
Tamagawa Seiki Co., Ltd.	TBL-III	□40	TS4602	50W	Q		
			TS4603	100W	Q		
			TS4604	150W	Q		
			TSM3102	50W	Q		
			TSM3104	100W	Q		
Panasonic Corporation	MINAS	□38	MSMD5A	50W	P		
			MSME5A	P			
			MSMD01	100W	P		
			MSME01	P			
			MSMF5A	50W	□38 P		
	A6	□40	MHMF5A	□40 Q			
			MSMF01	□38 P			
			MHMF01	□40 Q			
			SV-M005	50W	Q		
			SV-M010	100W	Q		
Keyence Corporation	SV2	□40	SV2-M005	50W	Q		
			SV2-M010	100W	Q		
			SV2-M010	100W	Q		

Uncovered Type



Customization: Dowel Pin Holes



Specification Table (Uncovered/Covered)

Stroke (mm) (Stroke between mechanical stoppers)	C Type		70 (80.5)	120 (130.5)	220 (230.5)	320 (330.5)	420 (430.5)	520 (530.5)	620 (630.5)
	D Type ⁶		20 (30)	70 (80)	170 (180)	270 (280)	370 (380)	470 (480)	570 (580)
Maximum speed ⁷ (mm/s)	Ball screw lead	6 mm	300 (600)				300 (600)		300 (360)
		10 mm	500 (1000)				500 (830)		500 (600)
Dimensions (mm)	Outer rail length: L ₀		150	200	300	400	500	600	700
	G		25	50	50	50	50	50	50
	F		100	100	200	200	200	200	200
	H		25	50	50	100	50	100	50
	D		45	70	70	70	70	70	70
	Q		—	—	—	—	400	500	600
	K		—	—	—	—	30	30	30
No. of elongated holes	p	1	1	1	1	2	2	2	
No. of mounting holes	n	2	2	3	4	5	6	7	
	n ₁	2	2	2	2	3	3	4	
Mass (kg)	Uncovered	C Type	1.7	2.1	2.8	3.5	4.3	5	5.7
		D Type	1.9	2.3	3	3.7	4.5	5.2	5.9
	Covered	C Type	2	2.3	3.1	3.9	4.6	5.4	6.1
		D Type	2.3	2.6	3.4	4.2	4.9	5.7	6.4

¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (C Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque, or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates a value when 2 blocks are in close contact with each other.
⁷ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

		Motor type		Rated output	Flange size	Intermediate flange symbol		
AC servo motor	SANYO Electric	SANMOTION R	R2□A04005	50W	□40	Q		
			R2EA04008	80W		Q		
			R2□A04010	100W		Q		
OMRON Corporation	OMNUC G5	1S	R88M-K05030	50W	□40	Q		
			R88M-K10030	100W		Q		
			R88M-1M10030	100W		Q		
Fanuc Corporation	β is series	β is 0.2/5000	β is 0.2/5000	50W	□40	Q		
			β is 0.3/5000	100W		Q		
Stepper motor	Oriental Motor	αStep	AZ4*, AR4* (excluding the AZM48)		□42	R		
			AZ4*, AR4* (AZM48)		□42	R		
			AZ6*, AR6*		□60	U		
			CRK54*		□42	R		
			CRK56*φ8 564, 566		□60	U		
			CRK56*φ10 569		□60	U		
		5-phase	CRK	RKS54*		□42	R	
				RKS56*		□60	U	
				PKA544		□42	R	
			PKA	PKA566		□60	U	
				CVK54*		□42	R	
				CVK56*φ8 564, 566		□60	U	
		2-phase	CVK	CVK56*φ8 564		□56.4	T	
				CVK24*		□42	R	
				CVK26*		□56.4	T	
			5-phase	PB	PBDM423, PBA**423		□42	R
					PBDM60*, PBA**60*		□60	U
				SANYO Electric	5-phase	FAF54*/FDF54*/FA511M42/FB511M42		□42
FAF56*/FDF56*/FA512M60/FB512M60		□60				U		
2-phase	DB14H52*					□42	R	
	DU15H52*					□42	R	
Keyence Corporation	2-phase	D*16H71*		□56	T			
		DB16H78*		□60	U			
			QS-M42		□42	R		
			QS-M60		□60	U		

Detailed Specifications

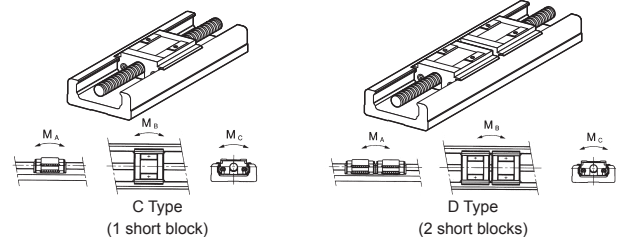
Recommended coupling		SFC-020DA2 (Miki Pulley Co., LTD.) φ8 (50W to 100W) XGT2-19C (Nabeya Bi-tech Kaisha) φ8 (50W to 100W)
Outer diameter of ball screw shaft end (mm)		φ8h7
Permissible input torque (N·m)	Ball screw lead	2.8
	10 mm	2.8

Note) The recommended coupling is for use with a servo motor. Please refer to the optimal product selection tool when using a stepper motor.

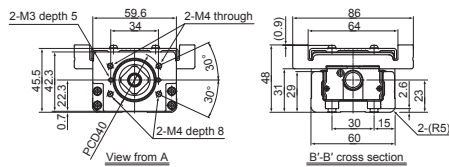
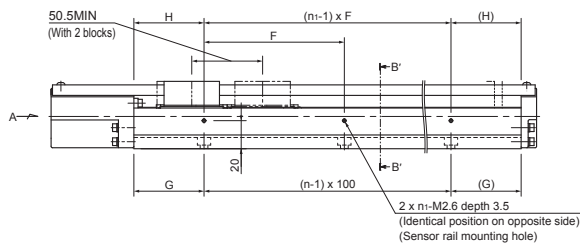
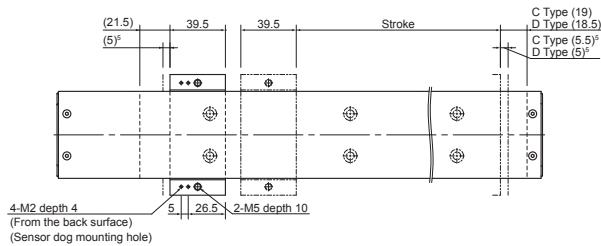
Static Permissible Moment

Unit: N·m

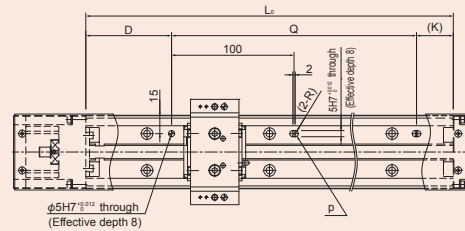
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
SKR33	C	58	58	240
	D	390	390	480



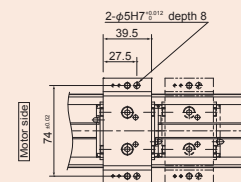
Covered Type



Customization: Dowel Pin Holes

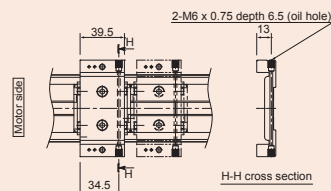


Outer rail dowel pin holes

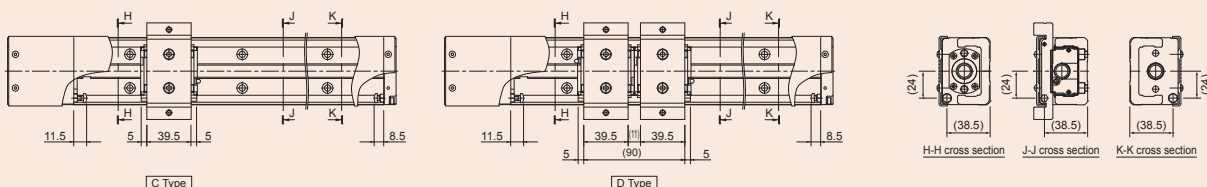


Sub-table upper surface dowel pin holes

Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



SKR33 C/D Motor Wrapping

KR

General Specifications

Motor rated output (W)	100				
Ball screw lead (mm)	6	10			
Rated speed ¹ (mm/s)	300	500			
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.15G	31.5	—
			0.3G	31.5	27
			0.5G	—	27
	Vertical	0.15G	10.5	—	
		0.3G	10.5	8.5	
		0.5G	—	8.5	
Rated thrust ³ (N)	299		179		
Maximum thrust ⁴ (N)	895		537		

Load Rating

Item		SKR3306	SKR3310
LM Guide unit	Basic dynamic load rating C (N)	11300	
	Basic static load rating C ₀ (N)	11500	
	Radial clearance (mm)	-0.004 to 0	
Ball screw unit	Basic dynamic load rating Ca (N)	4400	2700
	Basic static load rating C _{0a} (N)	6290	3780
	Screw shaft diameter (mm)	φ13	
	Ball screw lead (mm)	6	10
	Bearing unit (fixed side)	Axial direction	Basic dynamic load rating Ca (N)
		Static permissible load P _{0a} (N)	2700

Motor Used and Wrapping Symbol

Motor type		Rated output	Flange size	Wrapping symbol					
Yaskawa Electric Corporation	Σ-V	SGMJV-A5	50W	□40	Q08K, Q08M				
		SGMAV-A5			Q08K, Q08M				
		SGMJV-01			100W	Q08K, Q08M			
		SGMAV-01				Q08K, Q08M			
		SGMJV-C2				150W	Q08K, Q08M		
		SGM7J-A5					Q08K, Q08M		
	Σ-7	SGM7A-A5	50W	□40	Q08K, Q08M				
		SGM7J-01			Q08K, Q08M				
		SGM7A-01	100W		Q08K, Q08M				
		SGM7J-C2			Q08K, Q08M				
		Mitsubishi Electric Corporation	J3		HF-MP053	50W	□40	Q08D, Q08M	
					HF-KP053			Q08D, Q08M	
					HF-MP13			100W	Q08D, Q08M
					HF-KP13				Q08D, Q08M
HG-MR053	50W			Q08D, Q08M					
HG-KR053				Q08D, Q08M					
J4	HG-MR13		100W	Q08D, Q08M					
	HG-KR13			Q08D, Q08M					
	JN		HF-KN053	50W	□40	Q08D, Q08M			
			HF-KN13			Q08D, Q08M			
Tamagawa Seiki Co., Ltd.			TBL-II	TS4602		50W	□40	Q08D, Q08M	
				TS4603				Q08D, Q08M	
	TS4604			Q08D, Q08M					
	TBL-IV		TSM3102	50W	Q08D, Q08M				
		TSM3104	Q08D, Q08M						
		MSMD5A	50W		P08K, P08D, P08M				
MSME5A	100W	P08K, P08D, P08M							
MSMD01		P08K, P08D, P08M							
MSME01	P08K, P08D, P08M								

SKR20

SKR26

SKR33

SKR46

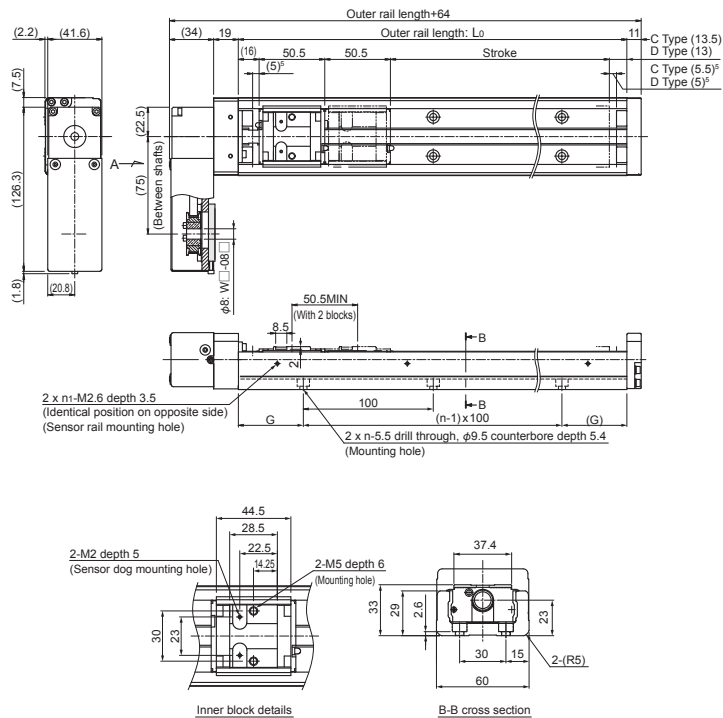
KR20

KR26

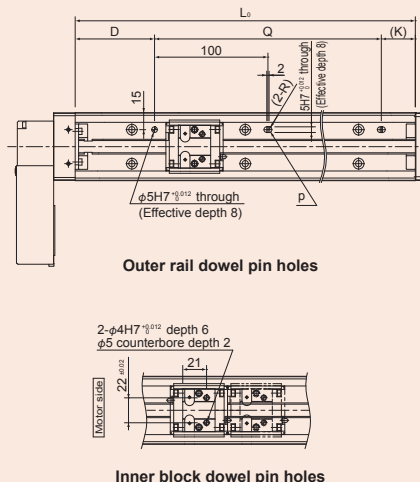
KR30H

KR45H

Uncovered Type



Customization: Dowel Pin Holes



Specification Table (Uncovered/Covered)

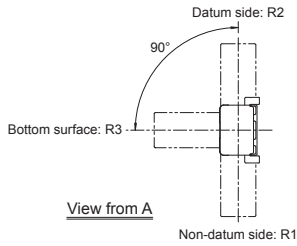
Stroke (mm) (Stroke between mechanical stoppers)	C Type								
	D Type ⁶	70 (80.5)	120 (130.5)	220 (230.5)	320 (330.5)	420 (430.5)	520 (530.5)	620 (630.5)	
Maximum speed ⁷ (mm/s)	Ball screw lead	6 mm	300 (600)				300 (550)	300 (360)	
		10 mm	500 (1000)				500 (830)	500 (600)	
Dimensions (mm)	Outer rail length: L ₀	150	200	300	400	500	600	700	
	G	25	50	50	50	50	50	50	
	F	100	100	200	200	200	200	200	
	H	25	50	50	100	50	100	50	
	D	45	70	70	70	70	70	70	
	Q	—	—	—	—	400	500	600	
	K	—	—	—	—	30	30	30	
No. of elongated holes	p	1	1	1	1	2	2	2	
No. of mounting holes	n	2	2	3	4	5	6	7	
	n ₁	2	2	2	2	3	3	4	
Mass (kg)	Uncovered	C Type	2.2	2.4	3.1	3.8	4.6	5.3	6
		D Type	2.2	2.6	3.3	4	4.8	5.5	6.2
	Covered	C Type	2.2	2.6	3.4	4.1	4.9	5.7	6.4
		D Type	2.5	2.9	3.7	4.4	5.2	6	6.7

¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (C Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque, or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates a value when 2 blocks are in close contact with each other.
⁷ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

Wrapping specification details (dimensions of motor mounting plate) ⇨ p. 36

		Motor type		Rated output	Flange size	Wrapping symbol
AC servo motor	Panasonic Corporation	MINAS	A6	MSMF5A	□38	P08K, P08M
				MHMF5A		Q08K, Q08M
				MHMF01		
	Keyence Corporation	SV	SV2	SV-M005	□40	Q08K, Q08M
				SV-M010		Q08K, Q08M
				SV2-M005		Q08K, Q08M
				SV2-M010		Q08K, Q08M
				R2□A04005		Q08M
	SANYO Electric	SANMOTION R		R2EA04008	□40	Q08M
				R2□A04010		Q08M
				R88M-K05030		Q08K, Q08M
	OMRON Corporation	OMNUC G5	1S	R88M-K10030	□40	Q08K, Q08M
				R88M-1M10030		Q08K, Q08M
						Q08K, Q08M

Wrapping Direction



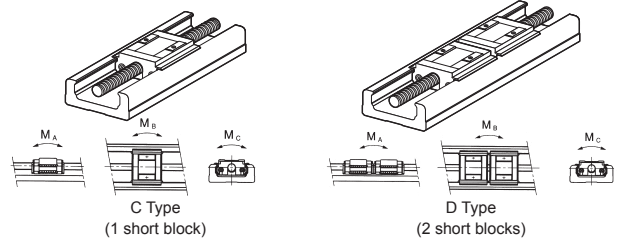
Detailed Specifications

Recommended coupling		—	
Outer diameter of ball screw shaft end (mm)		φ8h7	
Permissible input torque (N·m)	Ball screw lead	6 mm	0.98
		10, 20 mm	0.98

Static Permissible Moment

Unit: N·m

Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
SKR33	C	58	58	240
	D	390	390	480



KR

SKR20

SKR26

SKR33

SKR46

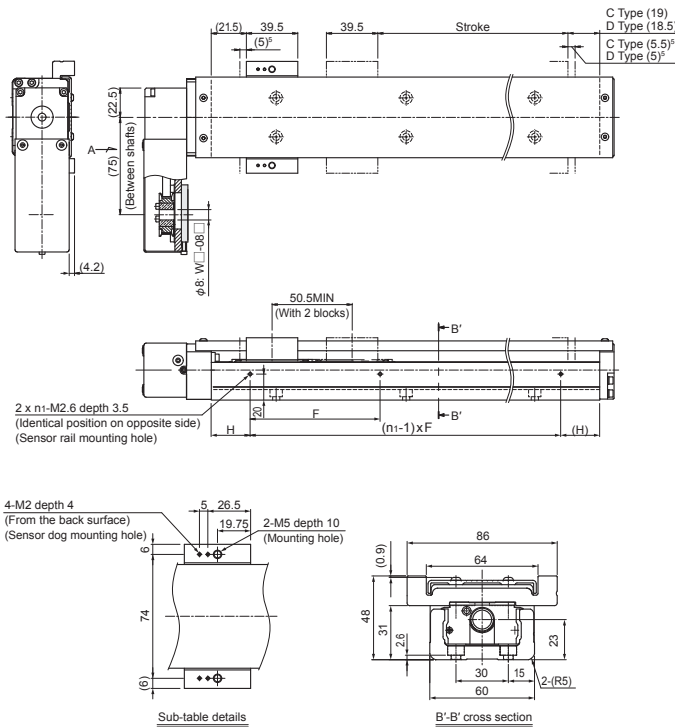
KR20

KR26

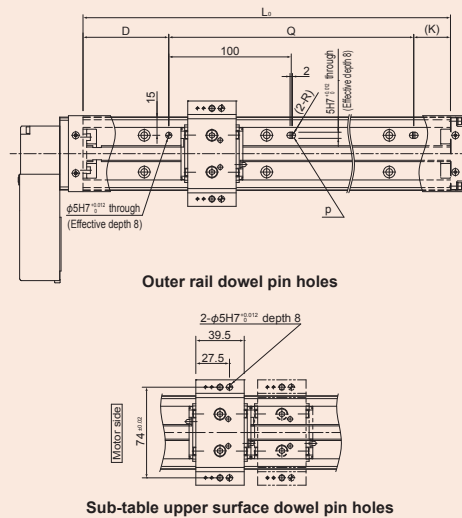
KR30H

KR45H

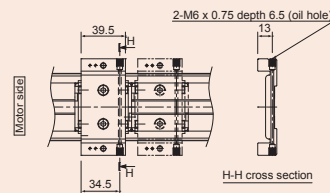
Covered Type



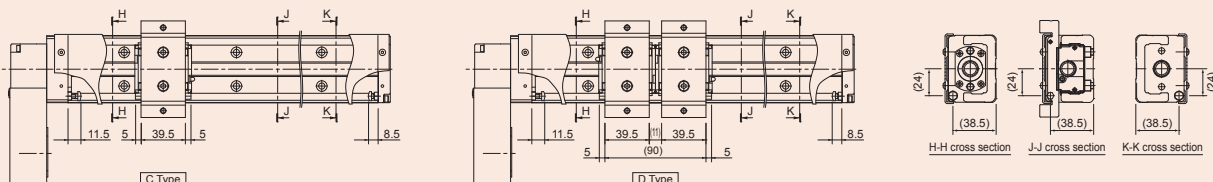
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



SKR33 C/D Direct Motor Coupling

Model Number Coding

Model No.	Ball screw lead	Block type	Basic Configuration				Semi-Custom Series					
			Stroke		Direct coupling/ Wrapping	Cover ¹	Housing A/ Intermediate flange	Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)
			C Type	D Type								
SKR33	06: 6 mm	C: 1 block (short block)	0070: 70 mm	0020: 20 mm	0: Direct coupling	0: Without 1: With	0: Without (Housing A only) P/Q/R/T/U (Housing A and intermediate flange); See the following table	0: Without D: With	0: Without M: With	0: Without G: With	0: Without S: With	0: Standard grease (AFB-LF Grease) L: Low dust-generating grease (AFF Grease)
	10: 10 mm		D: 2 blocks (short block)	0120: 120 mm								
		0220: 220 mm		0170: 170 mm								
			0320: 320 mm	0270: 270 mm								
			0420: 420 mm	0370: 370 mm								
			0520: 520 mm	0470: 470 mm								
		0620: 620 mm	0570: 570 mm									

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.
² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.
³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.
⁴ Sub-table greasing holes are only available on covered products.
⁵ When surface treatment is selected, THK AP-C coating will be applied to the inner block and ball screw. (This treatment is already standard on the outer rail.)

SKR20

SKR26

SKR33

SKR46

KR20

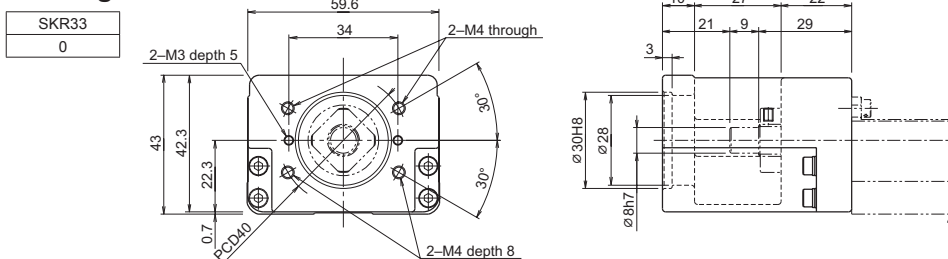
KR26

KR30H

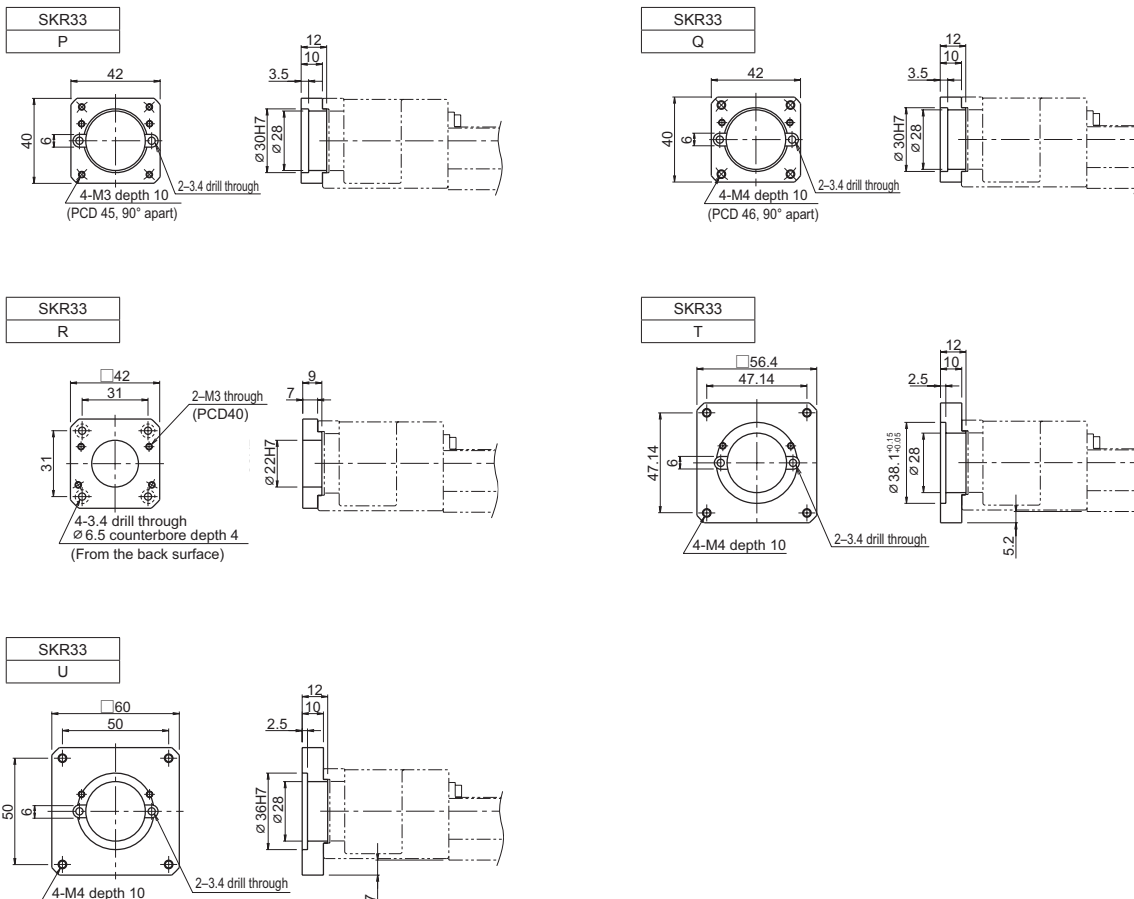
KR45H

SKR33 C/D Direct Coupling Dimensional Diagrams for Motor Mounting

Housing A



Intermediate Flange



SKR33 C/D Motor Wrapping

Model Number Coding

Wrapping direction details → p. 34

Basic Configuration							Semi-Custom Series					
Model No.	Ball screw lead	Block type	Stroke		Direct coupling/ Wrapping	Cover ¹	Motor mounting plate	Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)
SKR33	06: 6 mm	C: 1 block (short block) D: 2 blocks (short block)	C Type		R1: Non-standard side wrapping R2: Standard side wrapping R3: Bottom surface wrapping	0: Without 1: With	Wrapping P08K/P08D/P08M Q08K/Q08D/Q08M (Wrapping specifications): See the following table	0: Without	0: Without	0: Without	0: Without	0: Standard grease (AFB-LF Grease) L: Low dust-generating grease (AFF Grease)
	10: 10 mm		0070: 70 mm	0020: 20 mm				D: With	M: With	G: With	S: With	
			0120: 120 mm	0070: 70 mm								
			0220: 220 mm	0170: 170 mm								
			0320: 320 mm	0270: 270 mm								
			0420: 420 mm	0370: 370 mm								
			0520: 520 mm	0470: 470 mm								
			0620: 620 mm	0570: 570 mm								

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.
² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.
³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.
⁴ Sub-table greasing holes are only available on covered products.
⁵ When surface treatment is selected, THK AP-C coating will be applied to the inner block and ball screw. (This treatment is already standard on the outer rail.)

Q 08 K

① ② ③

- ①: Motor mounting plate type
 - ②: Motor shaft diameter (mm)
 - ③: Motor shaft securing method
- K: Key
D: Flat
M: Friction fastener

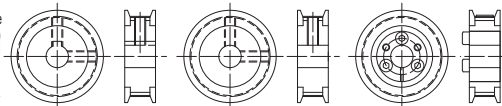
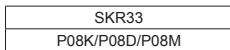


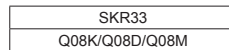
Figure: Motor shaft securing method

SKR33 C/D Wrapping Dimensional Diagrams for Motor Mounting

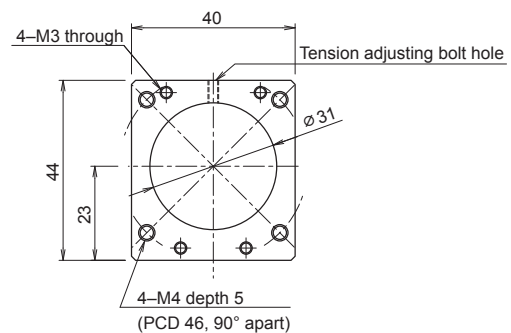
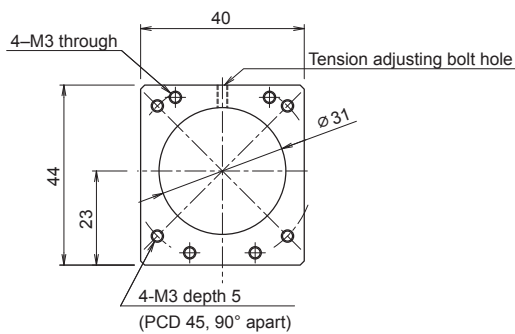
Wrapping Specifications (Motor Mounting Plate)



Thickness: 5 mm



Thickness: 5 mm



SKR46 A/B Direct Motor Coupling

General Specifications

Motor rated output (W)		200		400			
Ball screw lead (mm)		10	20	10	20		
Rated speed ¹ (mm/s)		500	1000	500	1000		
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.3G	77	—	96	—
			0.5G	77	42	96	90
		Vertical	0.3G	18	—	23	—
			0.5G	18	8	23	18
Rated thrust ³ (N)		361	180	718	359		
Maximum thrust ⁴ (N)		1080	540	2160	1080		

Load Rating

Item		SKR4610	SKR4620
LM Guide unit	Basic dynamic load rating C (N)	39500	
	Basic static load rating C ₀ (N)	45900	
	Radial clearance (mm)	-0.006 to 0	
Ball screw unit	Basic dynamic load rating Ca (N)	4350	4240
	Basic static load rating C _{0a} (N)	6990	7040
	Screw shaft diameter (mm)	φ15	
	Ball screw lead (mm)	10	20
Bearing unit (fixed side)	Axial direction	Basic dynamic load rating Ca (N)	6700
		Static permissible load P _{0a} (N)	3330

Motor Used and Applicable Intermediate Flanges

Motor type	Rated output	Flange size	Intermediate flange symbol
Yaskawa Electric Corporation	Σ-V	50W	Q
			Q
		100W	Q
			Q
		150W	V
			V
	Σ-7	400W	V
			V
		600W	V
			V
		50W	Q
			Q

Motor type	Rated output	Flange size	Intermediate flange symbol		
Yaskawa Electric Corporation	Σ-7	100W	Q		
			Q		
		150W	Q		
			Q		
		200W	V		
			V		
	400W	V	V		
			V		
		600W	V	V	
				V	
		Mitsubishi Electric Corporation	J3	50W	Q
					Q
100W	Q				
	Q				
200W	V				
	V				
400W	V		V		
			V		
	50W		Q	Q	
				Q	
	100W		Q	Q	
				Q	
200W		V	V		
			V		
400W		V	V		
			V		
	J4	50W	Q	Q	
				Q	
		100W	Q	Q	
				Q	
200W		V	V		
			V		
400W	V	V			
		V			
	JN	50W	Q	Q	
				Q	
		100W	Q	Q	
				Q	
200W		V	V		
			V		
400W	V	V			
		V			
	Tamagawa Seiki Co., Ltd.	TBL-III	50W	Q	
				Q	
			100W	Q	Q
					Q
150W			Q	Q	
				Q	
200W	V	V			
		V			
400W	V	V			
		V			
	TBL-IV	30W	Q	Q	
				Q	
		50W	Q	Q	
				Q	
100W		Q	Q		
			Q		
200W	V	V			
		V			
400W	V	V			
		V			

SKR20

SKR26

SKR33

SKR46

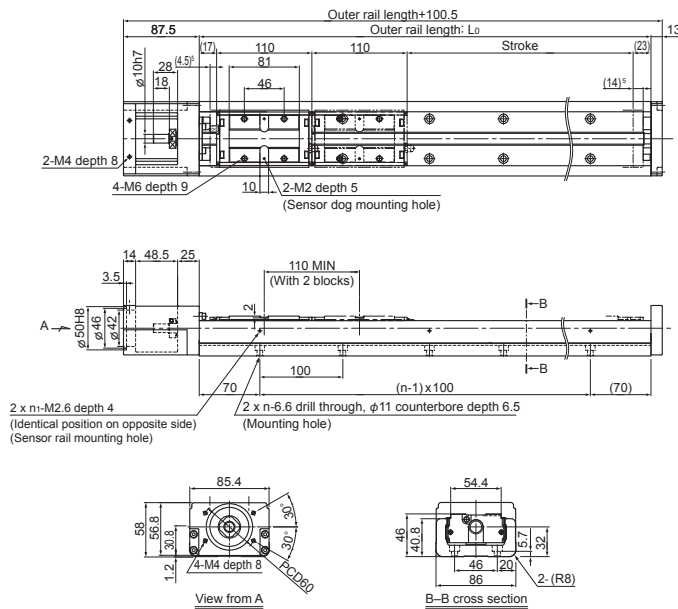
KR20

KR26

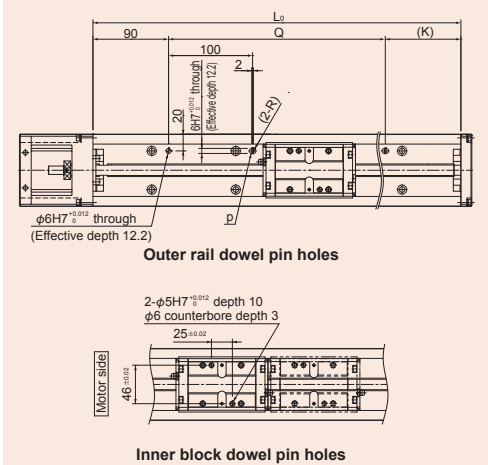
KR30H

KR45H

Uncovered Type



Customization: Dowel Pin Holes



Specification Table (Uncovered/Covered)

Stroke (mm) (Stroke between mechanical stoppers)	A Type								
	190 (208.5)	290 (308.5)	390 (408.5)	490 (508.5)	590 (608.5)	690 (708.5)	790 (808.5)		
	B Type ⁶								
	80 (98.5)	180 (198.5)	280 (298.5)	380 (398.5)	480 (498.5)	580 (598.5)	680 (698.5)		
Maximum speed ⁷ (mm/s)	Ball screw lead	10 mm	500 (1000)			500 (730)	500 (550)	430	
		20 mm	1000 (2000)			1000 (1430)	1000 (1080)	840	
	Outer rail length: L ₀	340	440	540	640	740	840	940	
		H	70	20	70	20	70	20	70
Dimensions (mm)	Q	—	—	360	460	560	660	760	
	K	—	—	90	90	90	90	90	
	p	1	1	2	2	2	2	2	
No. of elongated holes	n	3	4	5	6	7	8	9	
No. of mounting holes	n ₁	2	3	3	4	4	5	5	
		6.7	8.1	9.5	10.9	12.3	13.8	15.2	
Mass (kg)	Uncovered	A Type	7.7	9.1	10.5	11.9	13.3	14.8	16.2
		B Type	7.7	9.2	10.7	12.2	13.7	15.2	16.7
	Covered	A Type	7.7	9.2	10.7	12.2	13.7	15.2	16.7
		B Type	9.1	10.6	12.1	13.6	15.1	16.6	18.1

¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (A Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque, or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates a value when 2 blocks are in close contact with each other.
⁷ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

Motor type		Rated output	Flange size	Intermediate flange symbol			
AC servo motor	Panasonic Corporation	MINAS	A5	MSMD5A	50W	□38	P
				MSME5A	100W	P	
				MSMD01	100W	P	
				MSME01	100W	P	
				MSMD02	200W	Y	
		MSME02	200W	Y			
		MSMD04	400W	□60	Y		
		MSME04	400W	Y			
		A6	MSMF5A	50W	□38	P	
			MHMF5A	50W	□40	Q	
	MSMF01		100W	□38	P		
	MHMF01		100W	□40	Q		
	MSMF02		200W	□60	Y		
	Keyence Corporation	SV	SV-M005	50W	□40	Q	
			SV-M010	100W	Q		
			SV-M020	200W	V		
			SV-M040	400W	V		
			SV2-M005	50W	□40	Q	
		SV2	SV2-M010	100W	Q		
			SV2-M020	200W	V		
SV2-M040			400W	□60	V		
Sanyo Denki Co., Ltd.			SANMOTION R	R2□A04003	30W	□40	Q
				R2□A04005	50W	Q	
	R2EA04008	80W		Q			
	R2□A04010	100W		Q			
	R2□A06020	200W		□60	V		
	R2AA06040	400W		V			
	OMRON Corporation	OMNUC G5		R88M-K05030	50W	□40	Q
				R88M-K10030	100W	Q	
				R88M-K20030	200W	Y	
				R88M-K40030	400W	Y	
R88M-1M10030			100W	□40	Q		
1S		R88M-1M20030	200W	□60	Y		
		R88M-1M40030	400W	Y			
		Fanuc Corporation	β is series	βis0.2/5000	50W	□40	Q
				βis0.3/5000	100W	Q	

Motor type		Flange size	Intermediate flange symbol			
Stepper motor	Oriental Motor	αStep	AZ6°, AR6*	□60	U	
		CRK	CRK56	□60	U	
		RKII	RKS56*	□60	U	
		PKA	PKA566	□60	U	
		CVK	PKP56	□60	U	
	Sanyo Denki Co., Ltd.	PB	PBDM60°, PBA**60*	□60	U	
		5-phase	FAF56°/FDF56°/FA512M60/FA512M60	□60	U	
			2-phase	DB16H78*	□60	U
		Keyence Corporation	2-phase	QS-M60	□60	U

Detailed Specifications

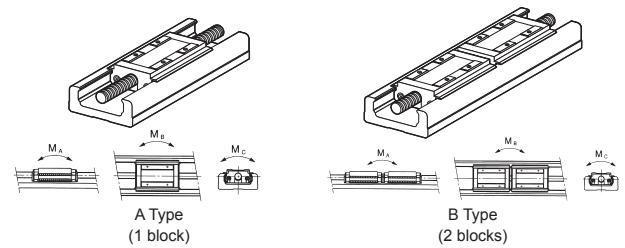
Recommended coupling	SFC-030DA2/SFC-035DA2 (Miki Pulley Co., LTD.) φ10 to 14 (200, 400W) XGT2-27C/XGT2-30C (Nabeya Bi-tech Kaisha) φ10 to 14 (200, 400W)
Outer diameter of ball screw shaft end (mm)	φ10h7
Permissible input torque (N·m)	10, 20 mm
Ball screw lead	5.3

(Note) The recommended coupling is for use with a servo motor. Please refer to the optimal product selection tool when using a stepper motor.

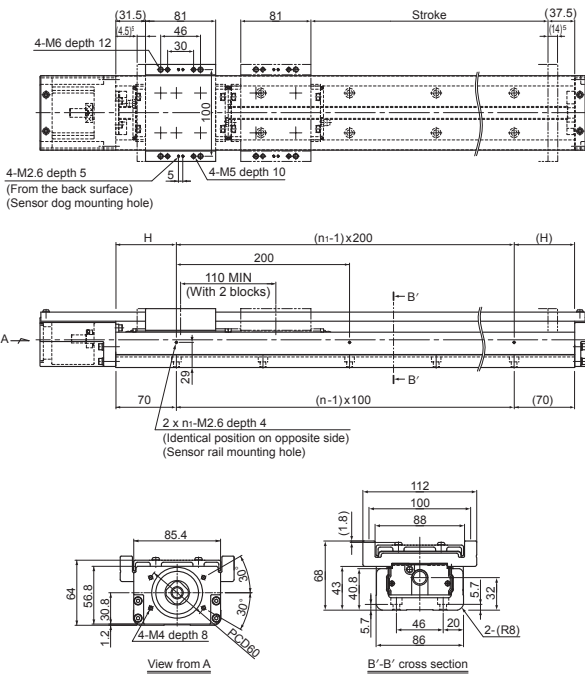
Static Permissible Moment

Unit: N·m

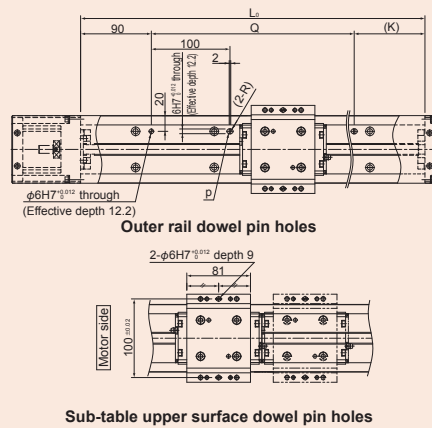
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
SKR46	A	579	579	1390
	B	3240	3240	2780



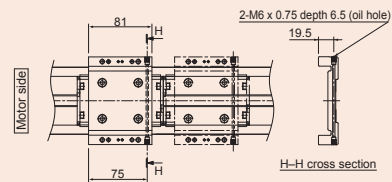
Covered Type



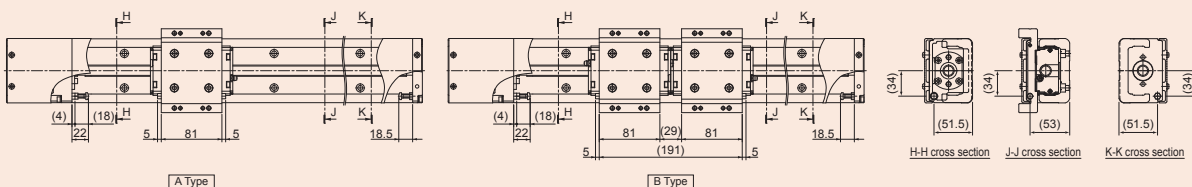
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



SKR46 A/B Motor Wrapping

General Specifications

Motor rated output (W)			200		400	
Ball screw lead (mm)			10	20	10	20
Rated speed ¹ (mm/s)			500	1000	500	1000
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.3G	77	—	96
			0.5G	70	31	96
		Vertical	0.3G	16	—	16
			0.5G	16	8	16
Rated thrust ³ (N)			361	180	718	359
Maximum thrust ⁴ (N)			1080	540	2160	1080

Load Rating

Item		SKR4610	SKR4620
LM Guide unit	Basic dynamic load rating C (N)	39500	
	Basic static load rating C ₀ (N)	45900	
	Radial clearance (mm)	-0.006 to 0	
Ball screw unit	Basic dynamic load rating Ca (N)	4350	4240
	Basic static load rating C _{0a} (N)	6990	7040
	Screw shaft diameter (mm)	φ15	
	Ball screw lead (mm)	10	20
	Bearing unit (fixed side)	Axial direction	Basic dynamic load rating Ca (N)
		Static permissible load P _{0a} (N)	3330

Motor Used and Wrapping Symbol

Motor type		Rated output	Flange size	Wrapping symbol
Yaskawa Electric Corporation	Σ-V	SGMJV-02	□60	V14M
		SGMAV-02		V14M
		SGMJV-04		V14M
		SGMAV-04		V14M
		SGMJV-06		V14M
		SGM7J-02		V14M
	Σ-7	SGM7A-02	□60	V14M
		SGM7J-04		V14M
		SGM7A-04		V14M
		SGM7J-06		V14M
		HF-MP23		V14M
		HF-KP23		V14M
Mitsubishi Electric Corporation	J3	HF-MP43	□60	V14M
		HF-KP43		V14M
		HG-MR23		V14M
		HG-KR23		V14M
		HG-MR43		V14M
		HG-KR43		V14M
	J4	HF-KN23	□60	V14M
		HF-KN43		V14M
		TS4607		V14M
		TS4609		V14M
		TSM3202		V14M
		TSM3204		V14M
TBL-III	TBL-III	□60	V14M	
				TSM3204
Panasonic Corporation	MINAS A5	□60	MSMD02	Y11M
			MSME02	Y11M
			MSMD04	Y14M
			MSME04	Y14M

SKR20

SKR26

SKR33

SKR46

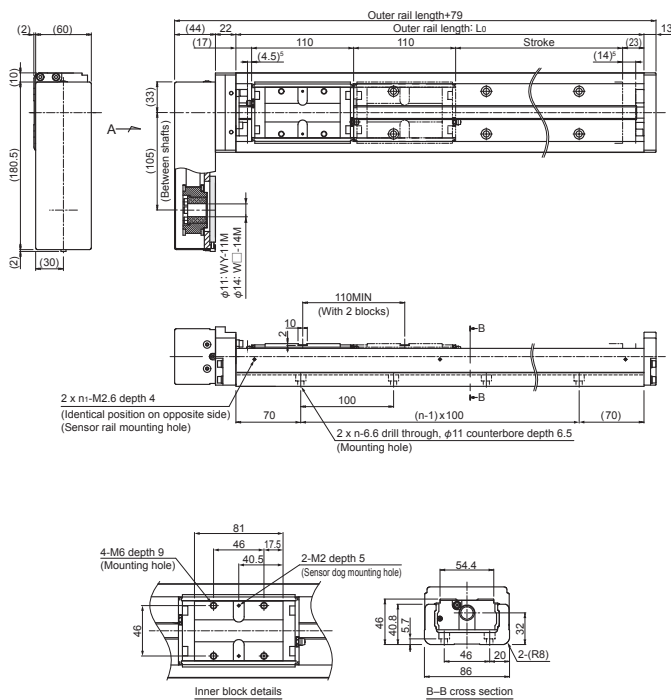
KR20

KR26

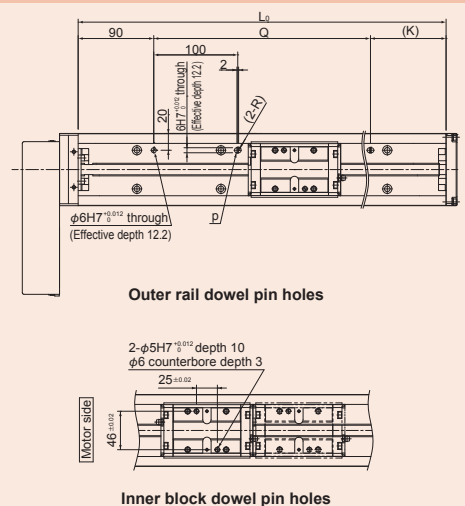
KR30H

KR45H

Uncovered Type



Customization: Dowel Pin Holes



Specification Table (Uncovered/Covered)

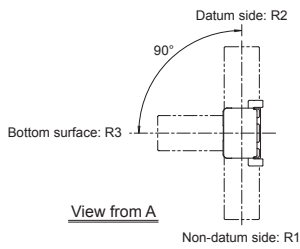
Stroke (mm) (Stroke between mechanical stoppers)	A Type								
	190 (208.5)	290 (308.5)	390 (408.5)	490 (508.5)	590 (608.5)	690 (708.5)	790 (808.5)		
	B Type ^e								
	80 (98.5)	180 (198.5)	280 (298.5)	380 (398.5)	480 (498.5)	580 (598.5)	680 (698.5)		
Maximum speed ⁷ (mm/s)	Ball screw lead	10 mm	500 (1000)			500 (730)	500 (550)	430	
		20 mm	1000 (2000)			1000 (1430)	1000 (1080)	840	
Dimensions (mm)	Outer rail length: L_0	340	440	540	640	740	840	940	
	H	70	20	70	20	70	20	70	
	Q	—	—	360	460	560	660	760	
	K	—	—	90	90	90	90	90	
No. of elongated holes	p	1	1	2	2	2	2	2	
No. of mounting holes	n	3	4	5	6	7	8	9	
	n ₁	2	3	3	4	4	5	5	
Mass (kg)	Uncovered	A Type	7.7	9.1	10.5	11.9	13.3	14.7	16.1
		B Type	8.7	10.1	11.5	12.9	14.3	15.7	17.1
	Covered	A Type	8.6	10.1	11.6	13.1	14.6	16.1	17.6
		B Type	10	11.5	13	14.5	16	17.5	19

¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (A Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque, or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates a value when 2 blocks are in close contact with each other.
⁷ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

Wrapping specification details (dimensions of motor mounting plate) ⇒ p. 42

Motor type				Rated output	Flange size	Wrapping symbol	
AC servo motor	Panasonic Corporation	MINAS	A6	MSMF02	□60	Y11M	
				MHMF02		Y11M	
				MSMF04		Y14M	
				MHMF04	400W	Y14M	
	Keyence Corporation	SV		SV-M020	200W	□60	V14M
				SV-M040	400W		V14M
		SV2		SV2-M020	200W	□60	V14M
				SV2-M040	400W		V14M
	Sanyo Denki Co., Ltd.	SANMOTION R		R2□A06020	200W	□60	V14M
				R2AA06040	400W		V14M
				R88M-K20030	200W		Y11M
	OMRON Corporation	OMNUC G5		R88M-K40030	400W	□60	Y14M
			R88M-1M20030	200W	Y11M		
1S			R88M-1M40030	400W	□60	Y14M	

Wrapping Direction



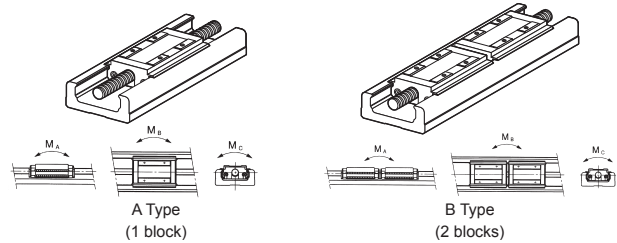
Detailed Specifications

Recommended coupling			
Outer diameter of ball screw shaft end (mm)			φ10h7
Permissible input torque (N·m)	Ball screw lead	10, 20 mm	4.5

Static Permissible Moment

Unit: N·m

Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
SKR46	A	579	579	1390
	B	3240	3240	2780



SKR20

SKR26

SKR33

SKR46

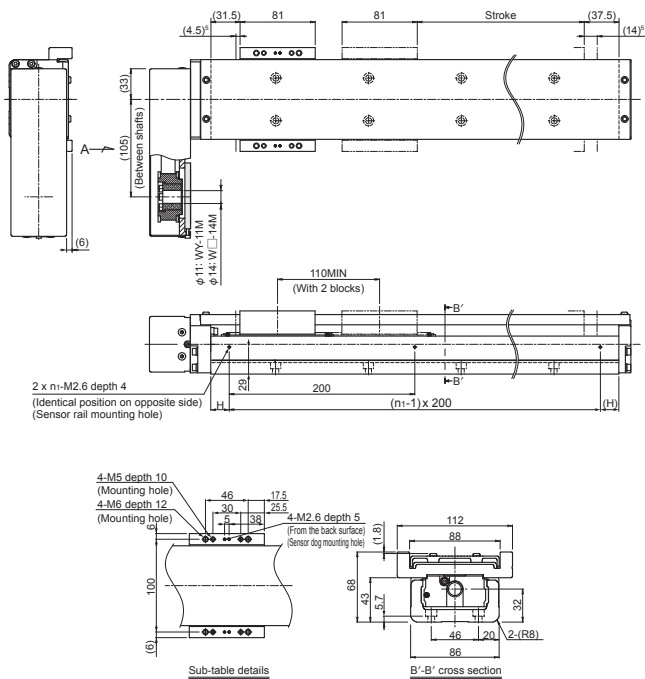
KR20

KR26

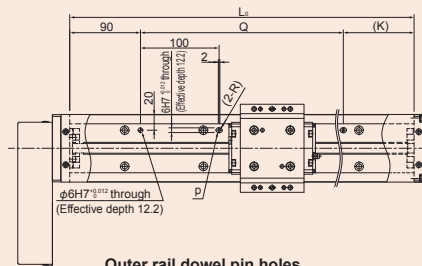
KR30H

KR45H

Covered Type



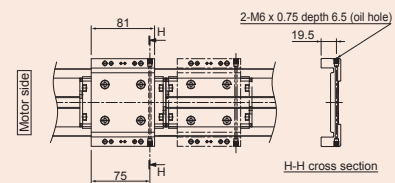
Customization: Dowel Pin Holes



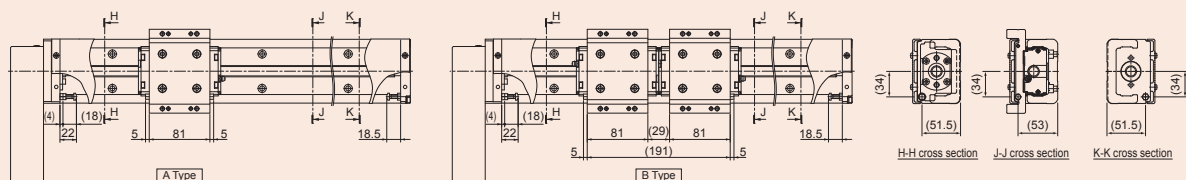
Outer rail dowel pin holes

Sub-table upper surface dowel pin holes

Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



SKR46 A/B Direct Motor Coupling

Model Number Coding

Model No.	Ball screw lead	Block type	Basic Configuration				Semi-Custom Series					
			Stroke		Direct coupling/ Wrapping	Cover ¹	Housing A/ Intermediate flange	Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)
			A Type	B Type								
SKR46	10: 10 mm	A: 1 block	0190: 190 mm	0080: 80 mm	0: Direct coupling	0: Without 1: With	0: Without (Housing A only) P/Q/V/Y/U (Housing A and intermediate flange); See the following table	0: Without D: With	0: Without M: With	0: Without G: With	0: Without S: With	0: Standard grease (AFB-LF Grease) L: Low dust-generating grease (AFF Grease)
	20: 20 mm	B: 2 blocks	0290: 290 mm	0180: 180 mm								
			0390: 390 mm	0280: 280 mm								
			0490: 490 mm	0380: 380 mm								
			0590: 590 mm	0480: 480 mm								
			0690: 690 mm	0580: 580 mm								
			0790: 790 mm	0680: 680 mm								

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.
² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.
³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.
⁴ Sub-table greasing holes are only available on covered products.
⁵ When surface treatment is selected, THK AP-C coating will be applied to the inner block and ball screw. (This treatment is already standard on the outer rail.)

SKR20

SKR26

SKR33

SKR46

KR20

KR26

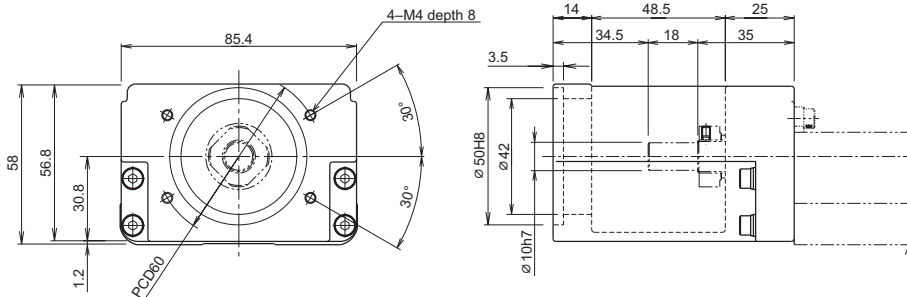
KR30H

KR45H

SKR46 A/B Direct Coupling Dimensional Diagrams for Motor Mounting

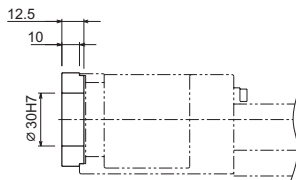
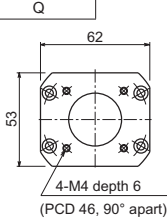
Housing A

SKR46
0

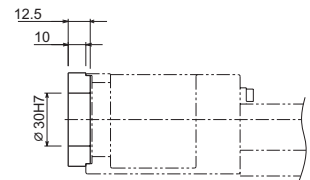
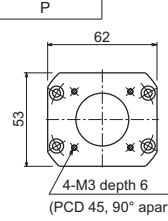


Intermediate Flange

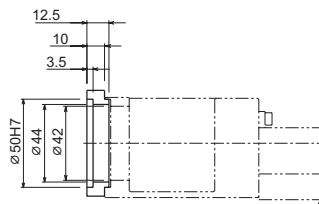
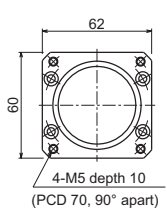
SKR46
Q



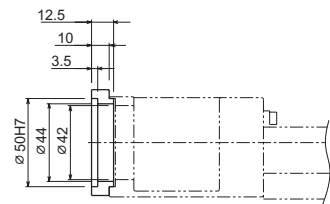
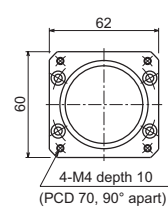
SKR46
P



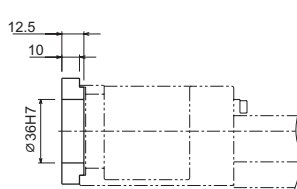
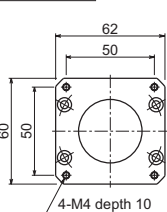
SKR46
V



SKR46
Y



SKR46
U



SKR46 A/B Motor Wrapping

Model Number Coding

Wrapping direction details → p. 40

Model No.	Ball screw lead	Block type	Basic Configuration		Direct coupling Wrapping	Cover ¹	Motor mounting plate	Semi-Custom Series				
			Stroke					Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)
SKR46	10: 10 mm 20: 20 mm	A: 1 block B: 2 blocks	A Type	B Type	R1: Non-standard side wrapping R2: Standard side wrapping R3: Bottom surface wrapping	0: Without 1: With	Wrapping V14M Y11M/Y14M (Wrapping specifications): See the following table	0: Without	0: Without	0: Without	0: Without	0: Standard grease (AFB-LF Grease) L: Low dust-generating grease (AFF Grease)
			0190: 190 mm	0080: 80 mm				D: With	M: With	G: With	S: With	
	0290: 290 mm	0180: 180 mm										
	0390: 390 mm	0280: 280 mm										
	0490: 490 mm	0380: 380 mm										
	0590: 590 mm	0480: 480 mm										
	0690: 690 mm	0580: 580 mm										
0790: 790 mm	0680: 680 mm											

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.

² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.

³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.

⁴ Sub-table greasing holes are only available on covered products.

⁵ When surface treatment is selected, THK AP-C coating will be applied to the inner block and ball screw. (This treatment is already standard on the outer rail.)

V 14 M

- ① ② ③

- ①: Motor mounting plate type
②: Motor shaft diameter (mm)
③: Motor shaft securing method
M: Friction fastener

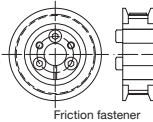


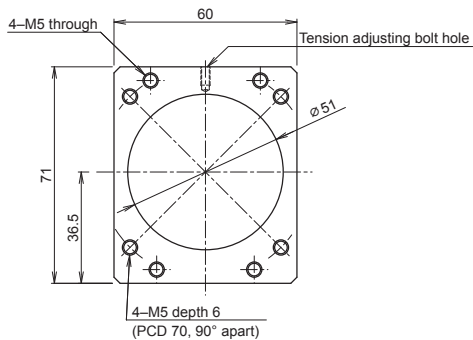
Figure: Motor shaft securing method

SKR46 A/B Wrapping Dimensional Diagrams for Motor Mounting

Wrapping Specifications (Motor Mounting Plate)

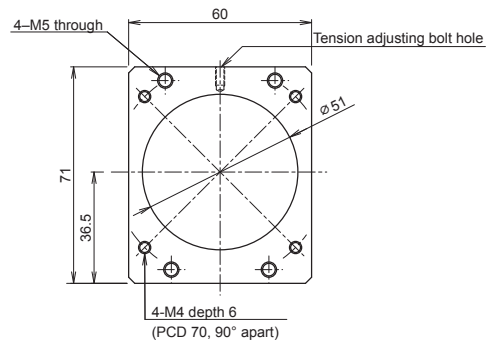
SKR46
V14M

Thickness: 6 mm



SKR46
Y11M/Y14M

Thickness: 6 mm



SKR46 C/D Direct Motor Coupling

General Specifications

Motor rated output (W)		200		400			
Ball screw lead (mm)		10	20	10	20		
Rated speed ¹ (mm/s)		500	1000	500	1000		
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.3G	55.5	69.5	—	
			0.5G	55.5	36.5	69.5	53.5
		Vertical	0.3G	13	—	16.5	—
			0.5G	13	5.5	16.5	13
Rated thrust ³ (N)		361	180	718	359		
Maximum thrust ⁴ (N)		1080	540	2160	1080		

Load Rating

Item		SKR4610	SKR4620
LM Guide unit	Basic dynamic load rating C (N)	28400	
	Basic static load rating C ₀ (N)	28700	
	Radial clearance (mm)	-0.006 to 0	
Ball screw unit	Basic dynamic load rating Ca (N)	4350	4240
	Basic static load rating C _{0a} (N)	6990	7040
	Screw shaft diameter (mm)	φ15	
	Ball screw lead (mm)	10	20
Bearing unit (fixed side)	Axial direction	Basic dynamic load rating Ca (N)	6700
		Static permissible load P _{0a} (N)	3330

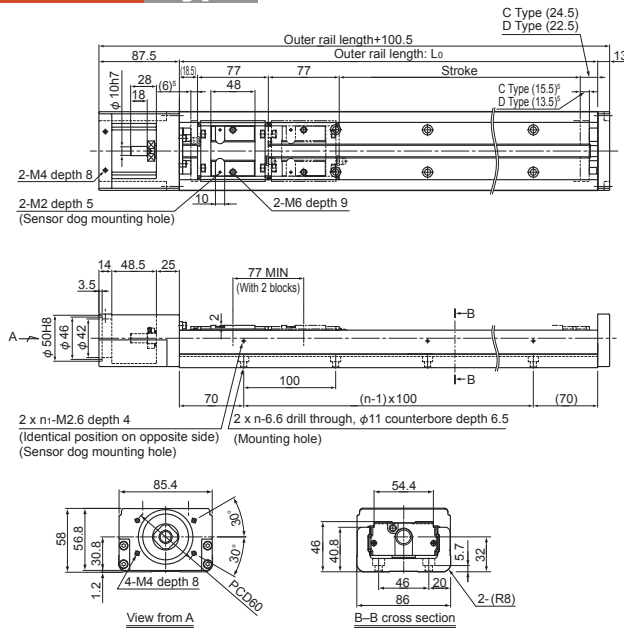
Motor Used and Applicable Intermediate Flanges

Motor type	Rated output	Flange size	Intermediate flange symbol
Yaskawa Electric Corporation Σ-V	SGMJV-A5	50W	Q
	SGMAV-A5	100W	Q
	SGMJV-01	150W	Q
	SGMAV-01	200W	V
	SGMJV-C2	400W	V
	SGMJV-02	600W	V
	SGMAV-02	400W	V
	SGMJV-04	400W	V
	SGMAV-04	600W	V
	SGMJV-06	600W	V
Σ-7	SGM7J-A5	50W	Q
	SGM7A-A5	100W	Q

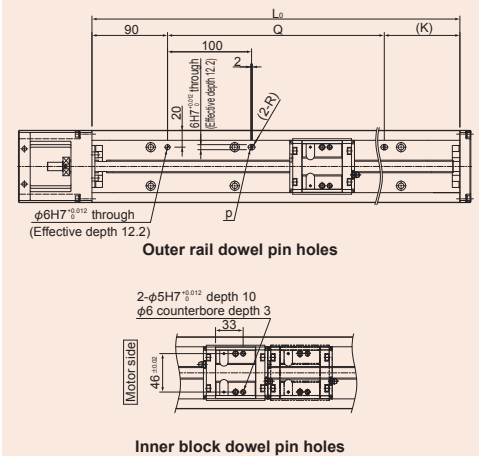
Motor type	Rated output	Flange size	Intermediate flange symbol	
Yaskawa Electric Corporation Σ-7	SGM7J-01	100W	Q	
	SGM7A-01	150W	Q	
	SGM7J-C2	200W	V	
	SGM7J-02	400W	V	
	SGM7A-02	600W	V	
	SGM7J-04	50W	Q	
	SGM7A-04	100W	Q	
	SGM7J-06	200W	V	
	HF-MP053	400W	V	
	HF-KP053	400W	V	
Mitsubishi Electric Corporation MEISERVO	J3	HF-MP13	Q	
		HF-KP13	Q	
		HF-MP23	V	
		HF-KP23	V	
		HF-MP43	V	
	J4	HG-MR053	Q	
		HG-KR053	Q	
		HG-MR13	Q	
		HG-KR13	Q	
		HG-MR23	V	
JN	HF-KN053	Q		
	HF-KN13	Q		
	HF-KN23	V		
	HF-KN43	V		
	HF-KN43	V		
Tamagawa Seiki Co., Ltd. TBL-III	TS4602	50W	Q	
	TS4603	100W	Q	
	TS4604	150W	Q	
	TS4607	200W	V	
	TS4609	400W	V	
	TBL-IV	TSM3101	30W	Q
		TSM3102	50W	Q
		TSM3104	100W	Q
		TSM3202	200W	V
		TSM3204	400W	V

- SKR20
- SKR26
- SKR33
- SKR46**
- KR20
- KR26
- KR30H
- KR45H

Uncovered Type



Customization: Dowel Pin Holes



Specification Table (Uncovered/Covered)

Stroke (mm) (Stroke between mechanical stoppers)	C Type		220 (241.5)	320 (341.5)	420 (441.5)	520 (541.5)	620 (641.5)	720 (741.5)	820 (841.5)
	D Type ^e		145 (164.5)	245 (264.5)	345 (364.5)	445 (464.5)	545 (564.5)	645 (664.5)	745 (764.5)
Maximum speed ¹ (mm/s)	Ball screw lead	10 mm	500 (1000)			500 (910)	500 (660)	500	400
		20 mm	1000 (2000)			1000 (1770)	1000 (1300)	990	780
Dimensions (mm)	Outer rail length: L ₀		340	440	540	640	740	840	940
	H		70	20	70	20	70	20	70
	Q		—	—	360	460	560	660	760
	K		—	—	90	90	90	90	90
No. of elongated holes	p		1	1	2	2	2	2	2
No. of mounting holes	n		3	4	5	6	7	8	9
	n ₁		2	3	3	4	4	5	5
Mass (kg)	Uncovered	C Type	6.3	7.7	9.1	10.5	11.9	13.4	14.8
		D Type	6.9	8.3	9.7	11.1	12.5	14	15.4
	Covered	C Type	7.1	8.6	10.1	11.6	13.1	14.6	16.1
		D Type	7.9	9.4	10.9	12.4	13.9	15.4	16.9

¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (C Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque, or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates a value when 2 blocks are in close contact with each other.
⁷ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

Motor type		Rated output	Flange size	Intermediate flange symbol			
Panasonic Corporation	MINAS	A5	□38	MSMD5A	50W	P	
				MSME5A	P		
				MSMD01	100W	P	
				MSME01	P		
				MSMD02	200W	Y	
		MSME02	Y				
		MSMD04	400W	□60	Y		
		MSME04	Y				
		MSMF5A	50W	□38	P		
		MHMF5A	□40	Q			
	A6	100W	MSMF01	□38	P		
			MHMF01	□40	Q		
			MSMF02	200W	Y		
			MHMF02	Y			
			MSMF04	400W	□60	Y	
		MHMF04	Y				
		Keyence Corporation	SV	SV-M005	50W	□40	Q
				SV-M010	100W	Q	
				SV-M020	200W	V	
				SV-M040	400W	V	
SV2-M005	50W			□40	Q		
SV2	SV2-M010		100W	Q			
	SV2-M020		200W	V			
	SV2-M040		400W	□60	V		
	Sanyo Denki Co., Ltd.		SANMOTION R	R2□A04003	30W	□40	Q
				R2□A04005	50W	Q	
R2EA04008		80W		Q			
R2□A04010		100W		Q			
R2□A06020		200W		V			
R2AA06040		400W		□60	V		
OMRON Corporation		OMNUC G5		R88M-K05030	50W	□40	Q
				R88M-K10030	100W	Q	
				R88M-K20030	200W	Y	
				R88M-K40030	400W	□60	Y
	R88M-1M10030		100W	□40	Q		
	1S	R88M-1M20030	200W	□60	Y		
		R88M-1M40030	400W	□60	Y		
		Fanuc Corporation	β is series	βis0.2/5000	50W	□40	Q
				βis0.3/5000	100W	Q	

Motor type		Flange size	Intermediate flange symbol		
Stepper motor	Oriental Motor	αStep	AZ6°, AR6*	□60	U
		CRK	CRK56	□60	U
		RKII	RKS56*	□60	U
		PKA	PKA566	□60	U
		CVK	PKP56	□60	U
	Sanyo Denki Co., Ltd.	PB	PBDM60°, PBA**60*	□60	U
		5-phase	FAF56°/FDF56°/FA512M60/FA512M60	□60	U
Keyence Corporation	2-phase	DB16H78*	□60	U	
	2-phase	QS-M60	□60	U	

Detailed Specifications

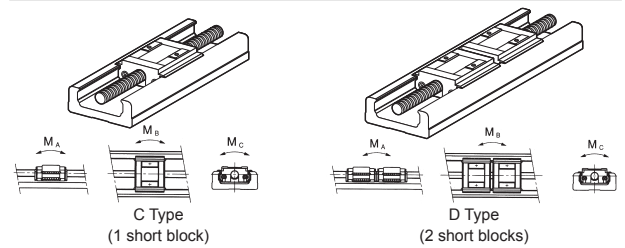
Recommended coupling	SFC-030DA2/SFC-035DA2 (Miki Pulley Co., LTD.) φ10 to 14 (200, 400W) XGT2-27C/XGT2-30C (Nabeya Bi-tech Kaisha) φ10 to 14 (200, 400W)
Outer diameter of ball screw shaft end (mm)	φ10h7
Permissible input torque (N·m)	5.3
Ball screw lead	10, 20 mm

Note) The recommended coupling is for use with a servo motor. Please refer to the optimal product selection tool when using a stepper motor.

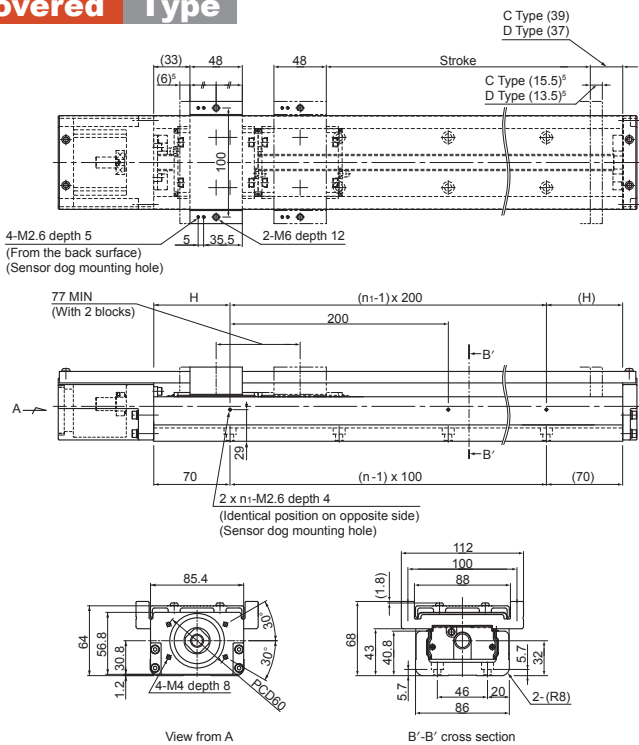
Static Permissible Moment

Unit: N·m

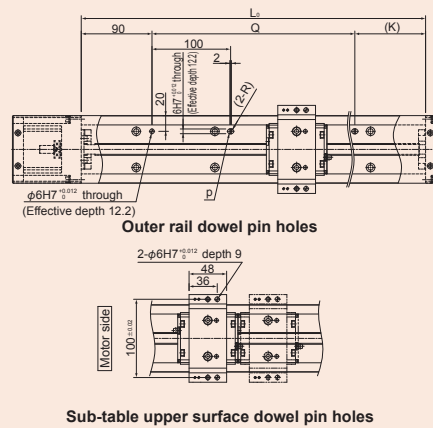
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
SKR46	C	236	236	870
	D	1460	1460	1740



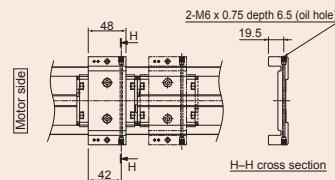
Covered Type



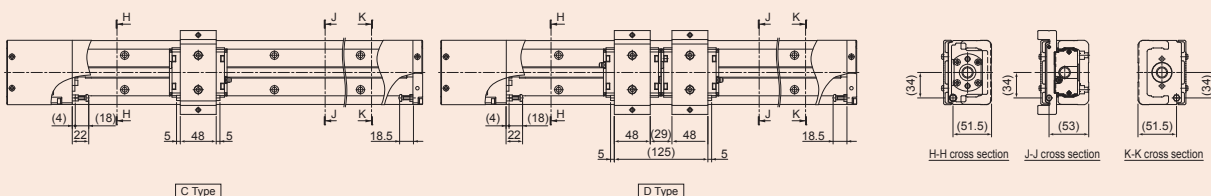
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



SKR46 C/D Motor Wrapping

General Specifications

Motor rated output (W)		200		400			
Ball screw lead (mm)		10	20	10	20		
Rated speed ¹ (mm/s)		500	1000	500	1000		
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.3G	55.5	—	69.5	—
			0.5G	55.5	32.5	69.5	53.5
		Vertical	0.3G	13	—	16.5	—
			0.5G	13	5.5	16.5	13
Rated thrust ³ (N)		361	180	718	359		
Maximum thrust ⁴ (N)		1080	540	2160	359		

Load Rating

Item		SKR4610	SKR4620
LM Guide unit	Basic dynamic load rating C (N)	28400	
	Basic static load rating C ₀ (N)	28700	
	Radial clearance (mm)	-0.006 to 0	
Ball screw unit	Basic dynamic load rating Ca (N)	4350	4240
	Basic static load rating C _{0a} (N)	6990	7040
	Screw shaft diameter (mm)	φ15	
	Ball screw lead (mm)	10	20
	Bearing unit (fixed side) Axial direction	Basic dynamic load rating Ca (N)	6700
	Static permissible load P _{0a} (N)	3330	

Motor Used and Wrapping Symbol

Motor type		Rated output	Flange size	Wrapping symbol
Yaskawa Electric Corporation	Σ-V	SGMJV-02	□60	V14M
		SGMAV-02		V14M
		SGMJV-04		V14M
		SGMAV-04		V14M
		SGMJV-06		V14M
		SGM7J-02		V14M
	Σ-7	SGM7A-02	□60	V14M
		SGM7J-04		V14M
		SGM7A-04		V14M
		SGM7J-06		V14M
		SGM7A-06		V14M
		SGM7J-06		V14M
Mitsubishi Electric Corporation	J3	HF-MP23	□60	V14M
		HF-MP43		V14M
		HF-KP43		V14M
		HG-MR23		V14M
		HG-KR23		V14M
		HG-MR43		V14M
	J4	HG-KR43	□60	V14M
		HF-KN23		V14M
		HF-KN43		V14M
		TS4607		V14M
		TS4609		V14M
		TSM3202		V14M
TBL-III	TSM3204	□60	V14M	
	TSM3204		V14M	
Panasonic Corporation	MINAS A5	MSMD02	□60	Y11M
		MSME02		Y11M
		MSMD04		Y14M
		MSME04		Y14M

SKR20

SKR26

SKR33

SKR46

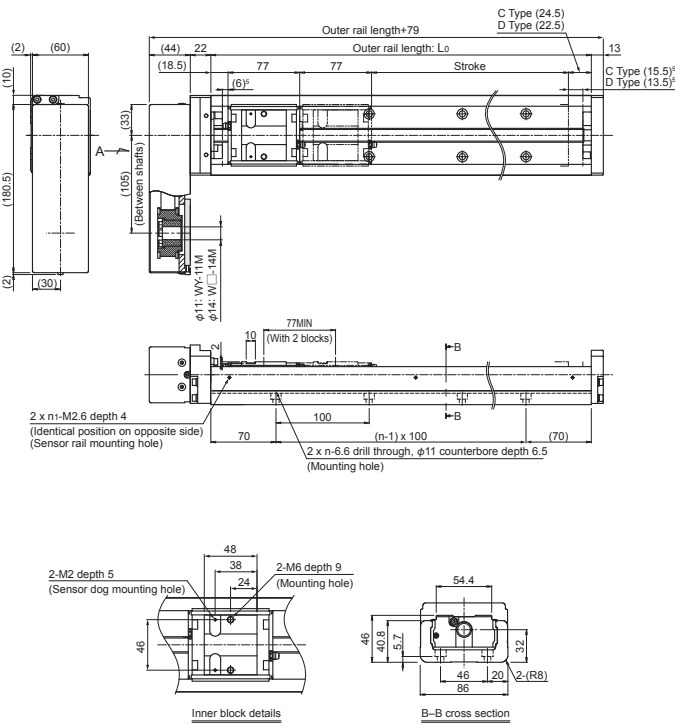
KR20

KR26

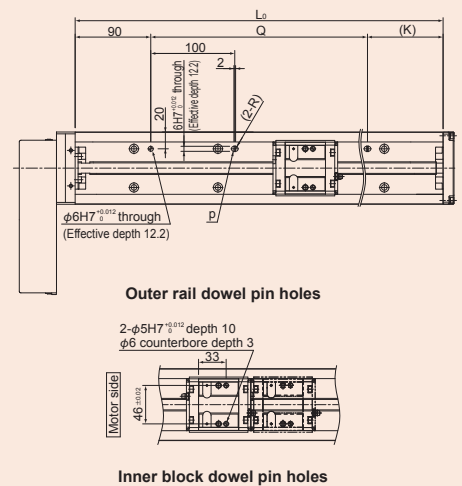
KR30H

KR45H

Uncovered Type



Customization: Dowel Pin Holes



Specification Table (Uncovered/Covered)

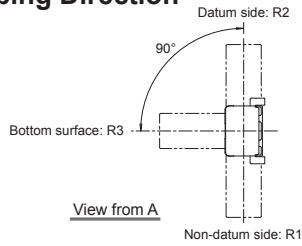
Stroke (mm) (Stroke between mechanical stoppers)	C Type		220 (241.5)	320 (341.5)	420 (441.5)	520 (541.5)	620 (641.5)	720 (741.5)	820 (841.5)
	D Type ⁶		145 (164.5)	245 (264.5)	345 (364.5)	445 (464.5)	545 (564.5)	645 (664.5)	745 (764.5)
Maximum speed ⁷ (mm/s)	Ball screw lead	10 mm	500 (1000)		500 (910)		500 (660)	500	400
		20 mm	1000 (2000)		1000 (1770)		1000 (1300)	990	780
Dimensions (mm)	Outer rail length: L ₀		340	440	540	640	740	840	940
	H		70	20	70	20	70	20	70
	Q		—	—	360	460	560	660	760
	K		—	—	90	90	90	90	90
No. of elongated holes	p		1	1	2	2	2	2	2
No. of mounting holes	n		3	4	5	6	7	8	9
	n ₁		2	3	3	4	4	5	5
Mass (kg)	Uncovered	C Type	7.3	8.7	10.1	11.5	12.9	14.3	15.7
		D Type	7.9	9.3	10.7	12.1	13.5	14.9	16.3
	Covered	C Type	8	9.5	11	12.5	14	15.5	17
		D Type	8.8	10.3	11.8	13.3	14.8	16.3	17.8

¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (C Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque, or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates a value when 2 blocks are in close contact with each other.
⁷ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

Wrapping specification details (dimensions of motor mounting plate) ⇒ p. 48

Motor type			Rated output	Flange size	Wrapping symbol	
AC servo motor	Panasonic Corporation	MINAS A6	MSMF02	200W	□60	Y11M
			MHMF02			Y11M
			MSMF04			Y14M
			MHMF04			Y14M
	Keyence Corporation	SV	SV-M020	200W	□60	V14M
			SV-M040			V14M
			SV2-M020			V14M
			SV2-M040			V14M
	Sanyo Denki Co., Ltd.	SANMOTION R	R2□A06020	200W	□60	V14M
			R2AA06040			V14M
			R88M-K20030			Y11M
			R88M-K40030			Y14M
OMRON Corporation	OMNUC G5	R88M-1M20030	200W	□60	Y11M	
		R88M-1M40030			Y14M	
		R88M-1M20030			Y11M	
		R88M-1M40030			Y14M	

Wrapping Direction



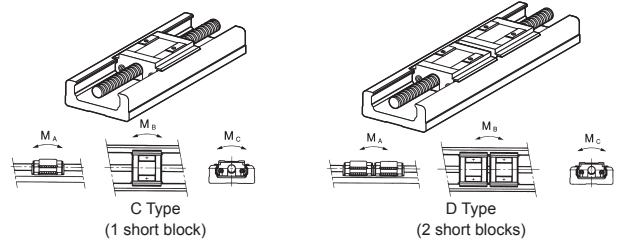
Detailed Specifications

Recommended coupling			—
Outer diameter of ball screw shaft end (mm)			φ10h7
Permissible input torque (N·m)	Ball screw lead	10, 20 mm	4.5

Static Permissible Moment

Unit: N·m

Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
SKR46	C	236	236	870
	D	1460	1460	1740



KR

SKR20

SKR26

SKR33

SKR46

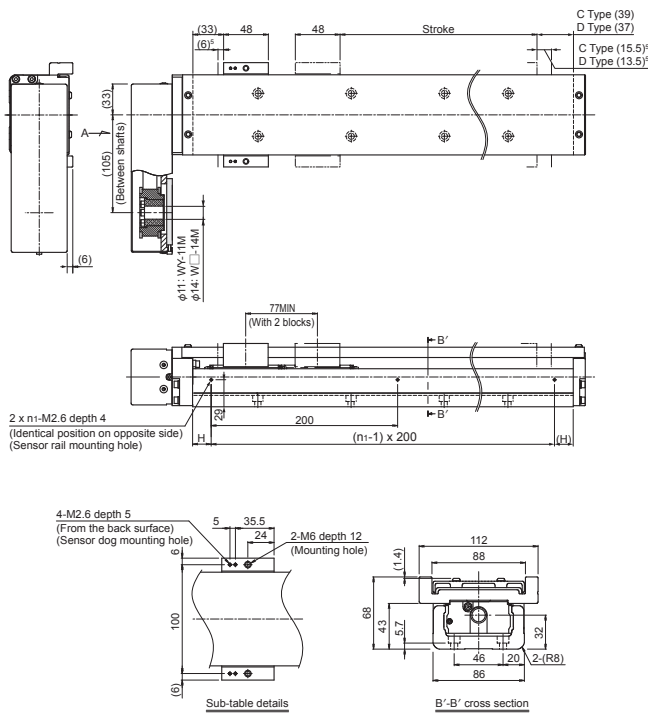
KR20

KR26

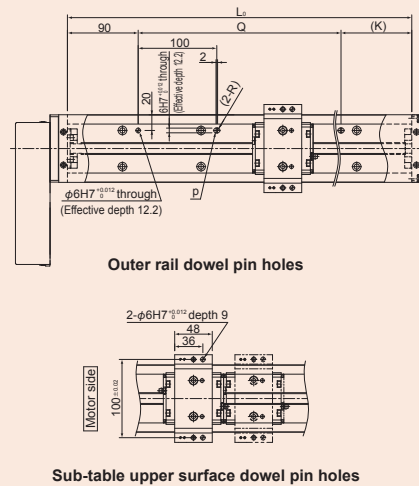
KR30H

KR45H

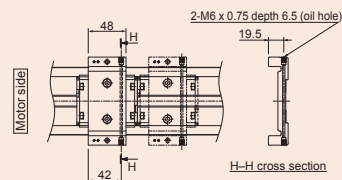
Covered Type



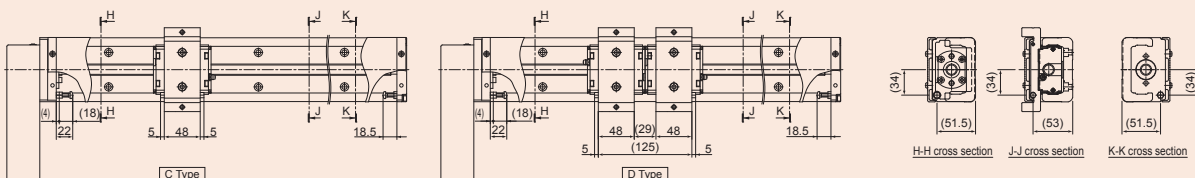
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



SKR46 C/D Direct Motor Coupling

Model Number Coding

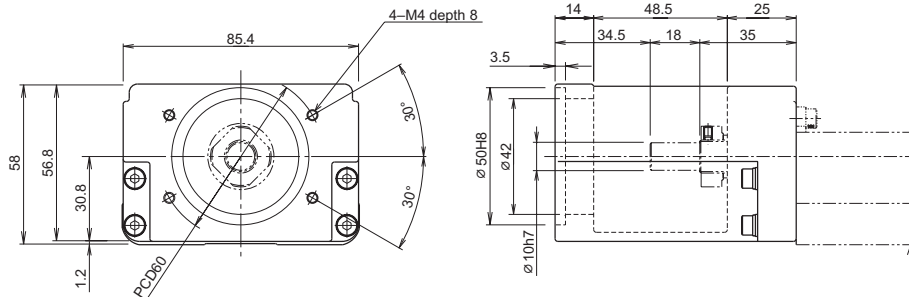
Model No.	Ball screw lead	Block type	Basic Configuration				Semi-Custom Series					
			Stroke		Direct coupling/ Wrapping	Cover ¹	Housing A/ Intermediate flange	Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)
			C Type	D Type								
SKR46	10: 10 mm	C: 1 block (short block)	0220: 220 mm	0145: 145 mm	0: Direct coupling	0: Without (Housing A only)	0: Without D: With	0: Without M: With	0: Without G: With	0: Without S: With	0: Standard grease (AFB-LF Grease) L: Low dust-generating grease (AFF Grease)	
	20: 20 mm		0320: 320 mm	0245: 245 mm								
		D: 2 blocks (short block)	0420: 420 mm	0345: 345 mm								
			0520: 520 mm	0445: 445 mm								
			0620: 620 mm	0545: 545 mm								
			0720: 720 mm	0645: 645 mm								
		0820: 820 mm	0745: 745 mm									

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.
² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.
³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.
⁴ Sub-table greasing holes are only available on covered products.
⁵ When surface treatment is selected, THK AP-C coating will be applied to the inner block and ball screw. (This treatment is already standard on the outer rail.)

SKR46 C/D Direct Coupling Dimensional Diagrams for Motor Mounting

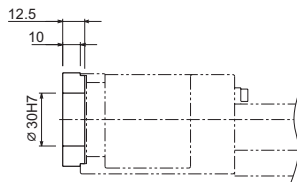
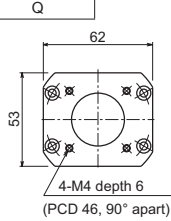
Housing A

SKR46
0

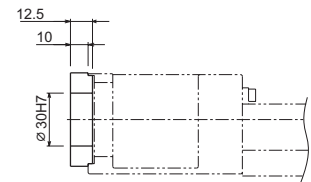
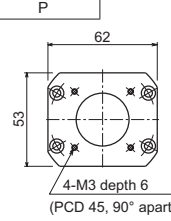


Intermediate Flange

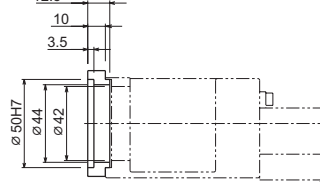
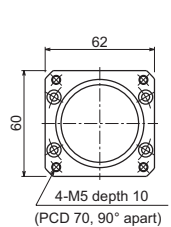
SKR46
Q



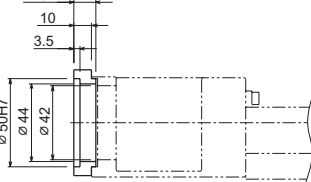
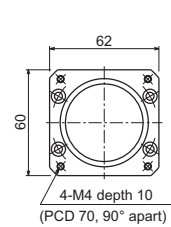
SKR46
P



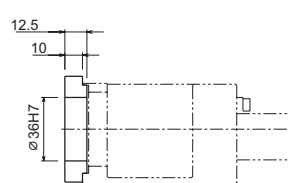
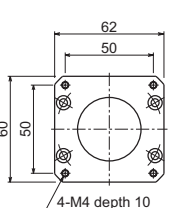
SKR46
V



SKR46
Y



SKR46
U



SKR46 C/D Motor Wrapping

Model Number Coding

Wrapping direction details → p. 46

Basic Configuration							Semi-Custom Series					
Model No.	Ball screw lead	Block type	Stroke		Direct coupling/ Wrapping	Cover ¹	Motor mounting plate	Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)
SKR46	10: 10 mm	C: 1 block (short block) D: 2 blocks (short block)	C Type		R1: Non-standard side wrapping R2: Standard side wrapping R3: Bottom surface wrapping	0: Without 1: With	Wrapping V14M Y11M/Y14M (Wrapping specifications): See the following table	0: Without	0: Without	0: Without	0: Without	0: Standard grease (AFB-LF Grease) L: Low dust-generating grease (AFF Grease)
	20: 20 mm		D Type					D: With	M: With	G: With	S: With	
			0220: 220 mm	0145: 145 mm								
			0320: 320 mm	0245: 245 mm								
			0420: 420 mm	0345: 345 mm								
			0520: 520 mm	0445: 445 mm								
			0620: 620 mm	0545: 545 mm								
			0720: 720 mm	0645: 645 mm								
			0820: 820 mm	0745: 745 mm								

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.

² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.

³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.

⁴ Sub-table greasing holes are only available on covered products.

⁵ When surface treatment is selected, THK AP-C coating will be applied to the inner block and ball screw. (This treatment is already standard on the outer rail.)

V 14 M

- ① ② ③

- ①: Motor mounting plate type
②: Motor shaft diameter (mm)
③: Motor shaft securing method
M: Friction fastener

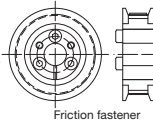


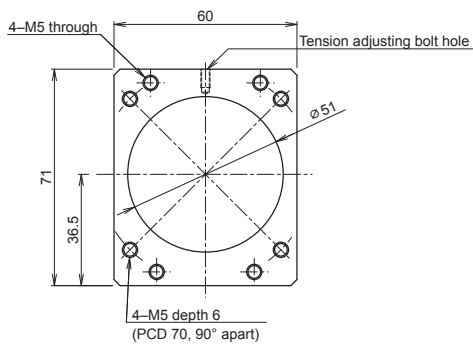
Figure: Motor shaft securing method

SKR46 C/D Wrapping Dimensional Diagrams for Motor Mounting

Wrapping Specifications (Motor Mounting Plate)

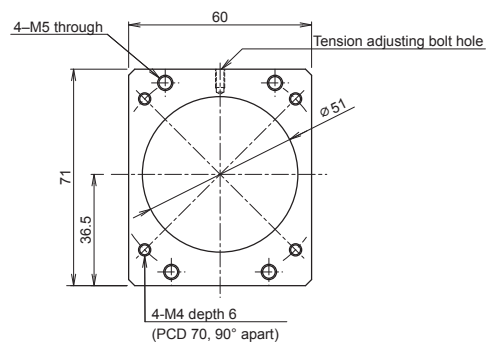
SKR46
V14M

Thickness: 6 mm



SKR46
Y11M/Y14M

Thickness: 6 mm



KR20 A/B Direct Motor Coupling

General Specifications

Motor rated output (W)		50			
Ball screw lead (mm)		1	6		
Rated speed ¹ (mm/s)		50	300		
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.15G	12.5	12.5
			0.3G	12.5	12.5
		Vertical	0.15G	3	4
			0.3G	3	4
Rated thrust ³ (N)		899	149		
Maximum thrust ⁴ (N)		1170	397		

Load Rating

Item		KR2001	KR2006
LM Guide unit	Basic dynamic load rating C (N)	3590	
	Basic static load rating C ₀ (N)	6300	
	Radial clearance (mm)	-0.003 to +0.002	
Ball screw unit	Basic dynamic load rating Ca (N)	660	860
	Basic static load rating C _{0a} (N)	1170	1450
	Screw shaft diameter (mm)	φ6	
	Ball screw lead (mm)	1	6
Bearing unit (fixed side)	Axial direction	Basic dynamic load rating Ca (N)	1000
		Static permissible load P _{0a} (N)	1240

Motor Used and Applicable Intermediate Flanges

Motor type		Rated output	Flange size	Intermediate flange symbol
Yaskawa Electric Corporation	Σ-Vmini	SGMMV-A1	10W	N
		SGMMV-A2	20W	□25
		SGMMV-A3	30W	N
	Σ-V	SGMJV-A5	20W	□40
		SGMAV-A5	50W	□40
		SGM7J-A5	50W	□40
Mitsubishi Electric Corporation	MEI SERVO	HF-MP053	50W	□40
		HF-KP053	50W	□40
		HG-AK0136	10W	N
		HG-AK0236	20W	□25
		HG-AK0336	30W	N
		HG-MR053	50W	□40
	TBL-III	TS4602	50W	□40
		TSM3102	50W	□40
		MSMD5A	50W	□38
		MSME5A	50W	□38
		MSMF5A	50W	□40
		MHMF5A	50W	□40
Panasonic Corporation	MINAS	SV	SV-M005	50W
		SV2	SV2-M005	50W
Keyence Corporation	SV	SV-M005	50W	□40
		SV2-M005	50W	□40
Sanyo Denki Co., Ltd.	SANMOTION R	R2□A04005	50W	□40
OMRON Corporation	OMNUC G5	R88M-K05030	50W	□40
Fanuc Corporation	β is series	βis0.2/5000	50W	□40

SKR20

SKR26

SKR33

SKR46

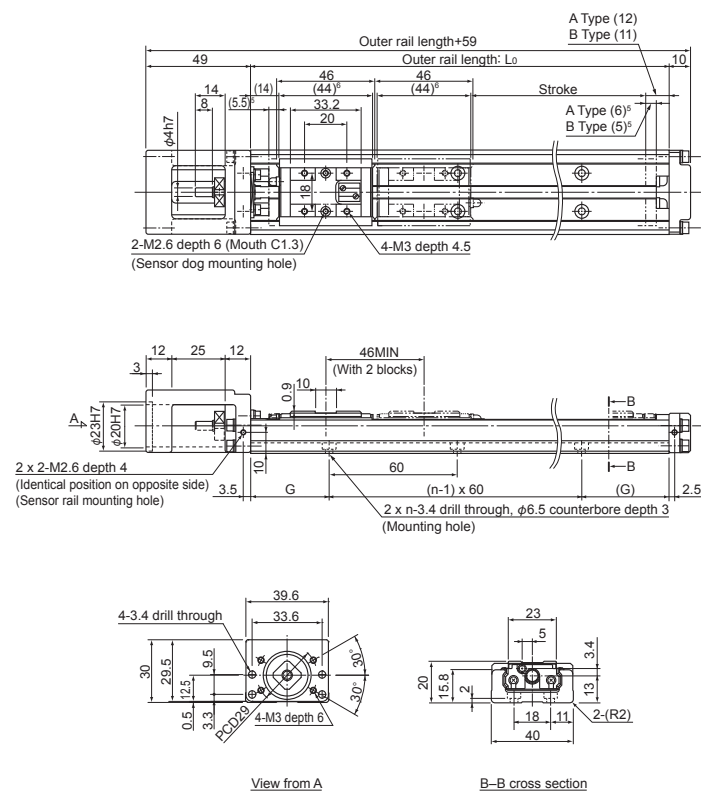
KR20

KR26

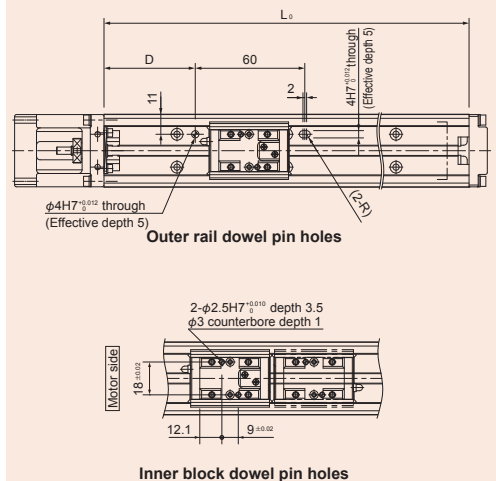
KR30H

KR45H

Uncovered Type



Customization: Dowel Pin Holes



Specification Table (Uncovered/Covered)

Stroke (mm) (Stroke between mechanical stoppers)	A Type		30 (41.5)	80 (91.5)	130 (141.5)
	B Type ⁷		-	35 (45.5)	85 (95.5)
Maximum speed ⁸ (mm/s)	Ball screw lead	1 mm	50 (100)		
		6 mm	300 (600)		
Dimensions (mm)	Outer rail length: L ₀		100	150	200
	D		30	25	50
G		20	15	40	
No. of mounting holes	n		2	3	3
Mass (kg)	Uncovered	A Type	0.48	0.61	0.75
		B Type	-	0.69	0.83
	Covered	A Type	0.56	0.71	0.85
		B Type	-	0.84	0.98

¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (A Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque, or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates the block length when calculating the possible stroke range. It is 90 mm for a KR20 with 2 blocks in close contact with each other (B Type).
⁷ This indicates a value when 2 blocks are in close contact with each other.
⁸ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

Intermediate flange dimensions ⇨ p. 53

Stepper motor	Motor type		Flange size	Intermediate flange symbol		
	Oriental Motor	αStep	AZ2*, AR2*	□28	S	
AZ4*, AR4* (excluding the AZM48)			□42	R		
AZ4*, AR4* (AZM48)			□42	R		
5-phase		CRK	CRK52*	□28	S	
			CRK54*	□42	R	
			RK54*	□42	R	
		PKA	PKA544	□42	R	
			CVK	CVK52*	□28	S
		2-phase	CVK	CVK54*	□42	R
			CVK	CVK22*	□28	S
Sanyo Denki Co., Ltd.	PB	PBDM28*	□28	S		
		PBDM423, PBA**423	□42	R		
		FAF/FDF52*	□28	S		
	5-phase	FAF54*/FDF54*/FA511M42/FB511M42	□42	R		
		2-phase	D*14S28*	□28	S	
			DB14H52*	□42	R	
	Keyence Corporation	2-phase	QS-M28	□28	S	
			QS-M42	□42	R	

Detailed Specifications

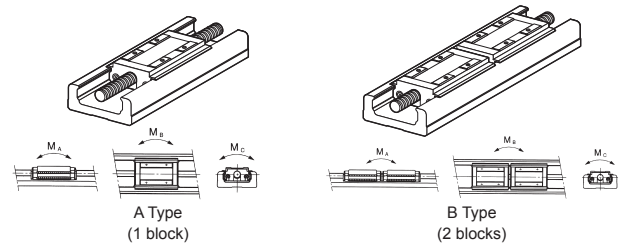
Recommended coupling		SFC-010DA2 (Miki Pulley Co., LTD.) φ4 to 8
Outer diameter of ball screw shaft end (mm)		φ4h7
Permissible input torque (N·m)	Ball screw lead	1 mm
		6 mm
		0.20
		0.42

Note) The recommended coupling is for use with a servo motor. Please refer to the optimal product selection tool when using a stepper motor.

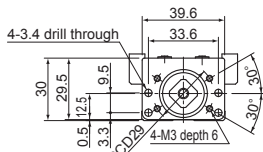
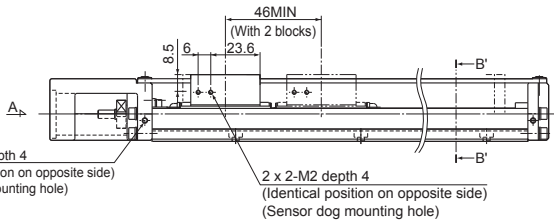
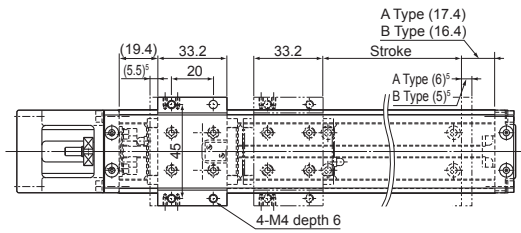
Static Permissible Moment

Unit: N·m

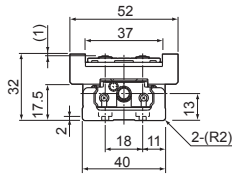
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
KR20	A	31	31	83
	B	176	176	165



Covered Type

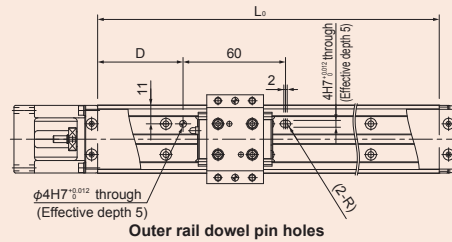


View from A

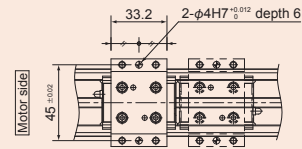


B'-B' cross section

Customization: Dowel Pin Holes

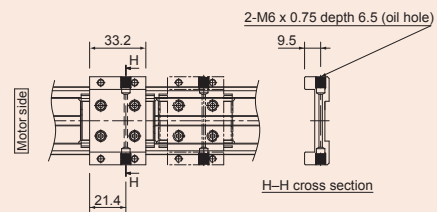


Outer rail dowel pin holes



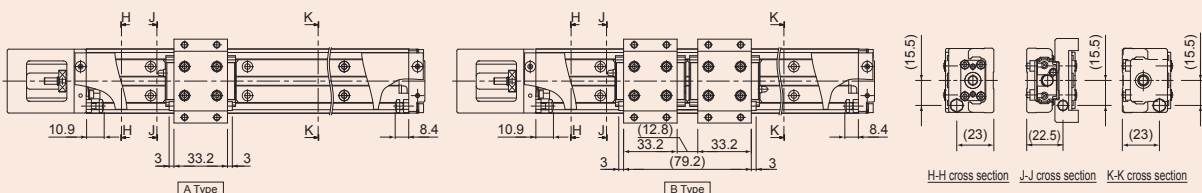
Sub-table upper surface dowel pin holes

Customization: Sub-Table Side Greasing Holes



H-H cross section

Customization: Metal Positioning Bolts



A Type

B Type

H-H cross section J-J cross section K-K cross section

KR20 A/B Motor Wrapping

General Specifications

Motor rated output (W)		50			
Ball screw lead (mm)		1	6		
Rated speed ¹ (mm/s)		50	300		
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.15G	12.5	12.5
			0.3G	12.5	12.5
		Vertical	0.15G	2.5	4
			0.3G	2.5	4
Rated thrust ³ (N)		899	149		
Maximum thrust ⁴ (N)		1170	397		

Load Rating

Item		KR2001	KR2006
LM Guide unit	Basic dynamic load rating C (N)	3590	
	Basic static load rating C ₀ (N)	6300	
	Radial clearance (mm)	-0.003 to +0.002	
Ball screw unit	Basic dynamic load rating Ca (N)	660	860
	Basic static load rating C _{0a} (N)	1170	1450
	Screw shaft diameter (mm)	φ6	
	Ball screw lead (mm)	1	6
Bearing unit (fixed side)	Axial direction	Basic dynamic load rating Ca (N)	1000
		Static permissible load P _{0a} (N)	1240

Motor Used and Wrapping Symbol

Motor type		Rated output	Flange size	Wrapping symbol		
Yaskawa Electric Corporation	Σ-Vmini	SGMMV-A1	10W	□25		
		SGMMV-A2	20W	□25		
		SGMMV-A3	30W	□25		
	Σ-V	SGMJV-A5	20W	□40		
		SGMAV-A5	50W	□40		
		SGMJ7-A5	50W	□40		
Mitsubishi Electric Corporation	MEISERVO	HF-MP053	50W	□40		
		HF-KP053	50W	□40		
		HG-AK0136	10W	□25		
		HG-AK0236	20W	□25		
		HG-AK0336	30W	□25		
	J4	HG-MR053	50W	□40		
		HF-KR053	50W	□40		
		JN	50W	□40		
		Tamagawa Seiki Co., Ltd.	TBL-III	TS4602	50W	□40
			TBL-IV	TSM3102	50W	□40
Panasonic Corporation	MINAS	A5	MSME5A	50W	□38	
		A6	MSMF5A	50W	□38	
	Keyence Corporation	SV	MHMF5A	50W	□40	
			SV-M005	50W	□40	

SKR20

SKR26

SKR33

SKR46

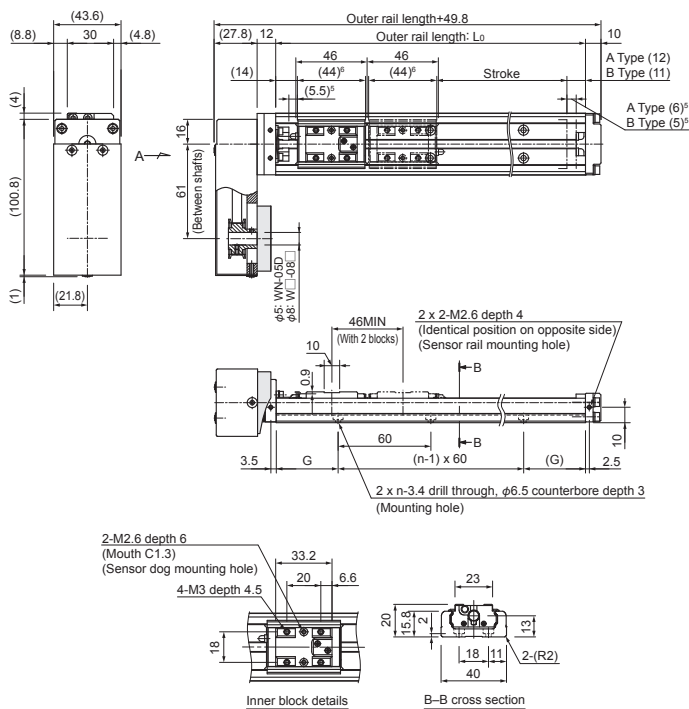
KR20

KR26

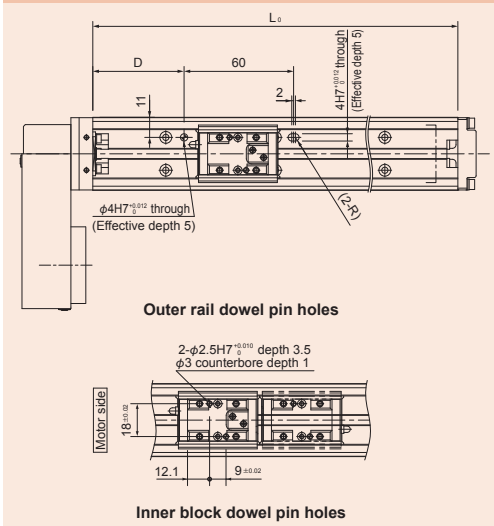
KR30H

KR45H

Uncovered Type



Customization: Dowel Pin Holes



¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (A Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque, or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates the block length when calculating the possible stroke range. It is 90 mm for a KR20 with 2 blocks in close contact with each other (B Type).
⁷ This indicates a value when 2 blocks are in close contact with each other.
⁸ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

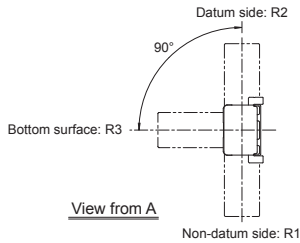
Specification Table (Uncovered/Covered)

Stroke (mm) (Stroke between mechanical stoppers)	A Type		30 (41.5)	80 (91.5)	130 (141.5)
	B Type ⁷		—	35 (45.5)	85 (95.5)
Maximum speed ⁸ (mm/s)	Ball screw lead	1 mm	50 (100)		
		6 mm	300 (600)		
Dimensions (mm)	Outer rail length: L ₀		100	150	200
	D	G	30	25	50
No. of mounting holes	n		2	3	3
	Mass (kg)	Uncovered	A Type	0.73	0.87
B Type			—	0.95	1.09
Covered		A Type	0.82	0.96	1.11
		B Type	—	1.09	1.24

Wrapping specification details (dimensions of motor mounting plate) ⇒ p. 54

Motor type	Rated output	Flange size	Wrapping symbol
Keyence Corporation SV2	SV2-M005	50W □40	Q08K
OMRON Corporation OMNUC G5	R88M-K05030	50W □40	Q08K
Fanuc Corporation β is series	βis0.2/5000	50W □40	Q08K

Wrapping Direction



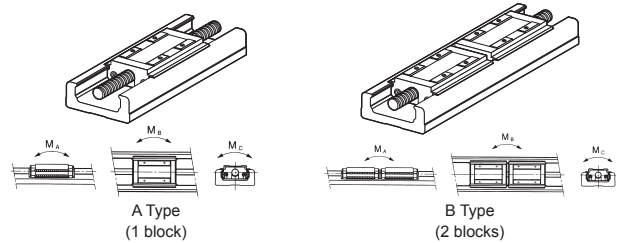
Detailed Specifications

Recommended coupling		-	
Outer diameter of ball screw shaft end (mm)		φ4h7	
Permissible input torque (N·m)	Ball screw lead	1 mm	0.20
		6 mm	0.40

Static Permissible Moment

Unit: N·m

Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
KR20	A	31	31	83
	B	176	176	165



KR

SKR20

SKR26

SKR33

SKR46

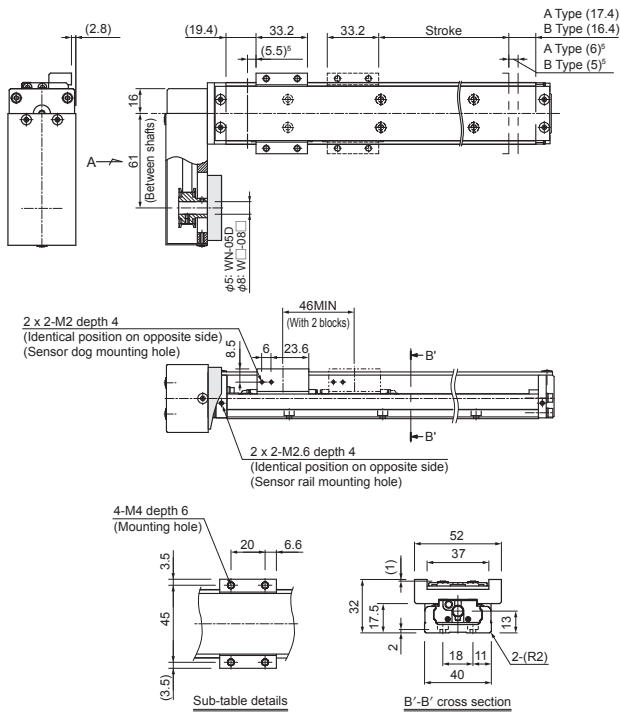
KR20

KR26

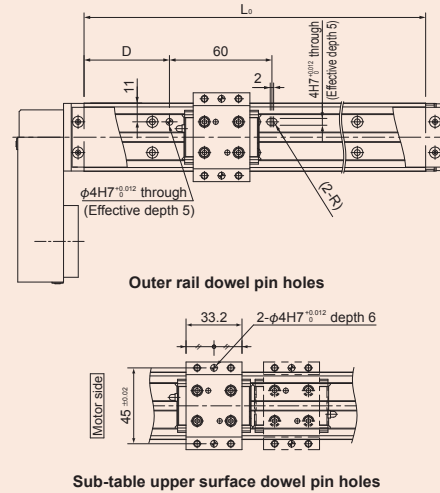
KR30H

KR45H

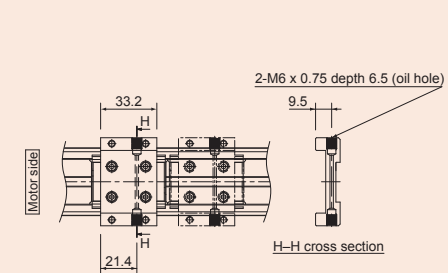
Covered Type



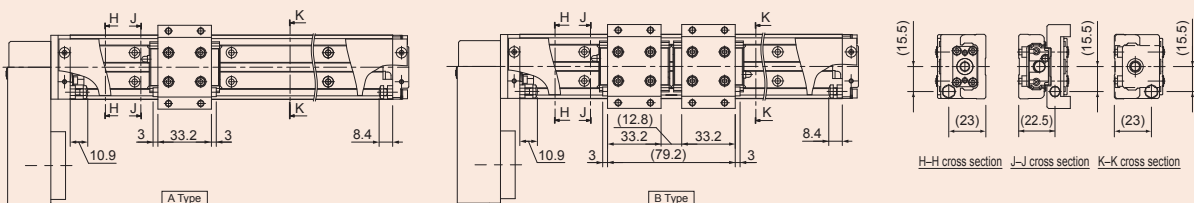
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



KR20 A/B Direct Motor Coupling

Model Number Coding

Model No.	Ball screw lead	Block type	Basic Configuration			Semi-Custom Series				
			Stroke	Direct coupling/ Wrapping	Cover ¹	Housing A/ Intermediate flange	Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)
KR20	01: 1 mm	A: 1 block	A Type	0: Direct coupling	0: Without 1: With	Direct coupling 0: Without (Housing A only) P/Q/S/N/R (Housing A and intermediate flange); See the following table	0: Without D: With	0: Without M: With	0: Without G: With	0: Without L: Low dust-generating grease (AFF Grease)
	06: 6 mm	B: 2 blocks	0030: 30 mm 0080: 80 mm 0130: 130 mm							
			B Type							0: Standard grease (AFA Grease)
			0035: 35 mm 0085: 85 mm							L: Low dust-generating grease (AFF Grease)

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.
² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.
³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.
⁴ Sub-table greasing holes are only available on covered products.
⁵ KR20 cannot be specified with surface treatment. (The outer rail, ball screw, and inner block are made of stainless steel.)

SKR20

SKR26

SKR33

SKR46

KR20

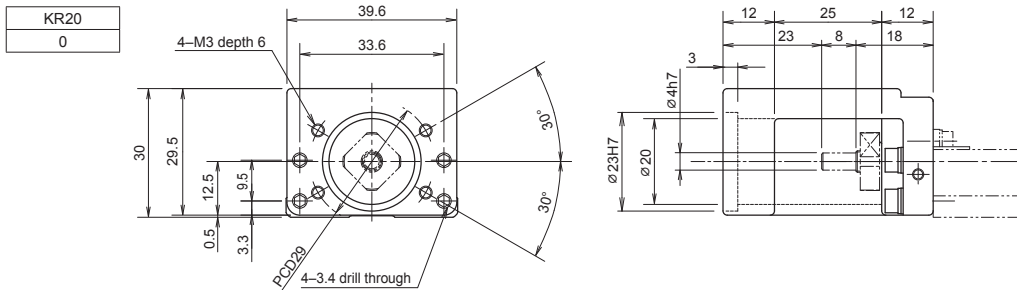
KR26

KR30H

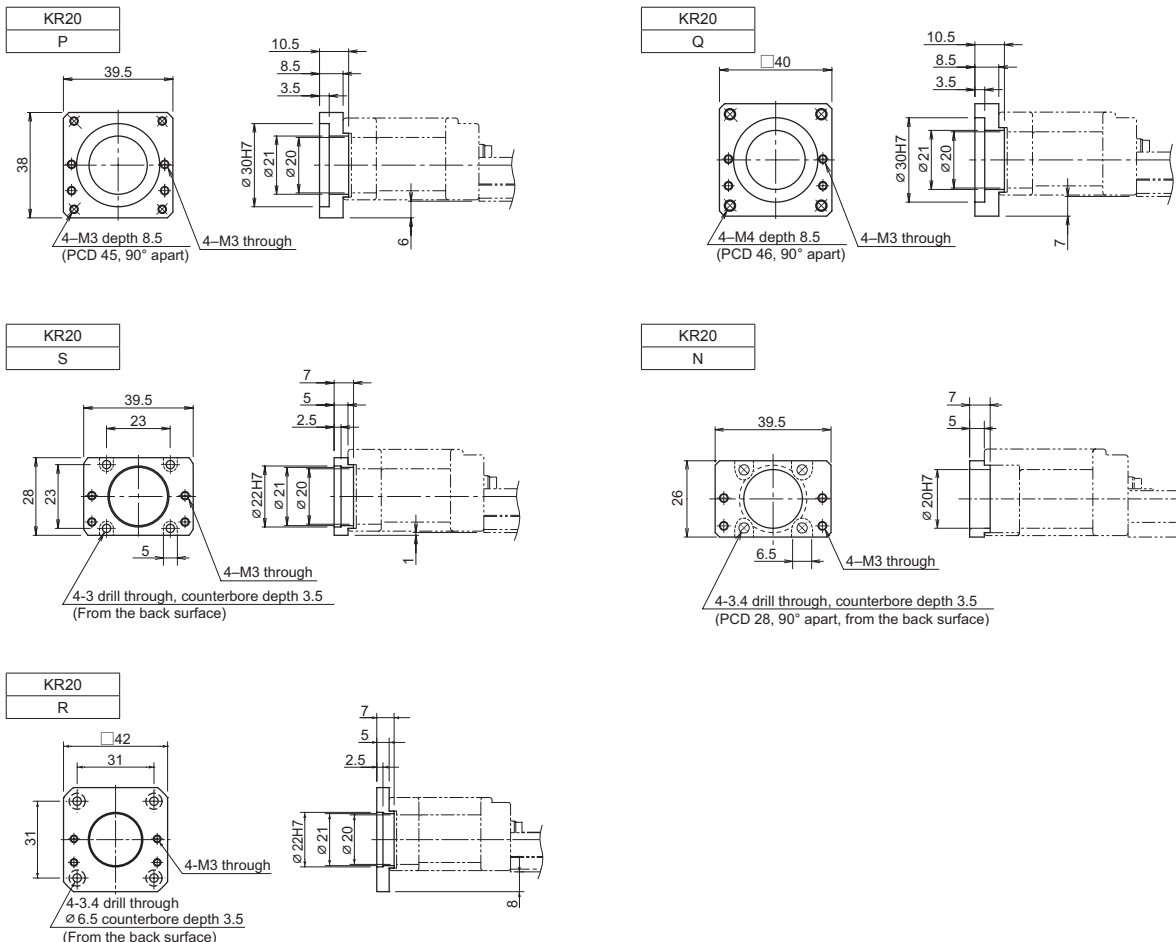
KR45H

KR20 A/B Direct Coupling Dimensional Diagrams for Motor Mounting

Housing A



Intermediate Flange



KR20 A/B Motor Wrapping

Model Number Coding

Wrapping direction details → p. 52

Basic Configuration						Semi-Custom Series					
Model No.	Ball screw lead	Block type	Stroke	Direct coupling Wrapping	Cover ¹	Motor mounting plate	Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)
KR20	01: 1 mm	A: 1 block	A Type	R1: Non-standard side wrapping R2: Standard side wrapping R3: Bottom surface wrapping	0: Without 1: With	Wrapping P08K/Q08K/Q08D/N05D (Wrapping specifications): See the following table	0: Without	0: Without	0: Without	0: Without	0: Standard grease (AFA Grease) L: Low dust-generating grease (AFF Grease)
	06: 6 mm	B: 2 blocks	0030: 30 mm				D: With	M: With	G: With		
			0080: 80 mm 0130: 130 mm								
			B Type								
			0035: 35 mm 0085: 85 mm								

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.
² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.
³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.
⁴ Sub-table greasing holes are only available on covered products.
⁵ KR20 cannot be specified with surface treatment. (The outer rail, ball screw, and inner block are made of stainless steel.)

Q 08 K

① ② ③

- ①: Motor mounting plate type
 - ②: Motor shaft diameter (mm)
 - ③: Motor shaft securing method
- K: Key
D: Flat

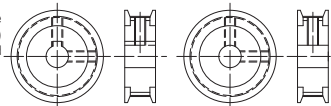
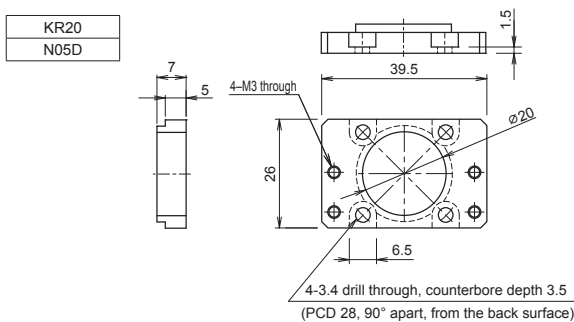
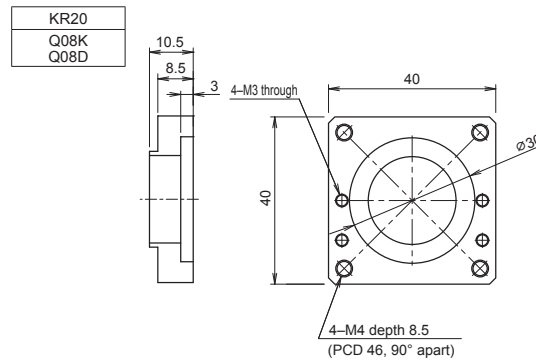
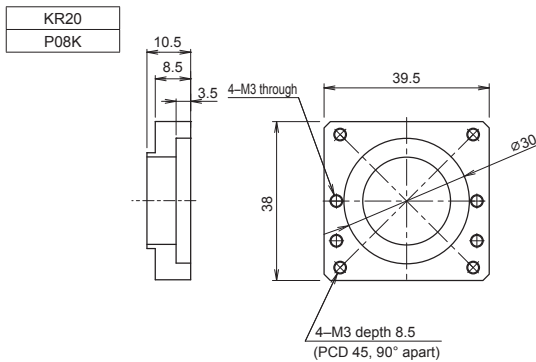


Figure: Motor shaft securing method

KR20 A/B Wrapping Dimensional Diagrams for Motor Mounting

Wrapping Specifications (Motor Mounting Plate)



KR26 A/B Direct Motor Coupling

General Specifications

Motor rated output (W)		50	
Ball screw lead (mm)		2	6
Rated speed ¹ (mm/s)		100	300
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.15G 27.5 0.3G 27.5
		Vertical	0.15G 9.5 0.3G 9.5
	Rated thrust ³ (N)		449
	Maximum thrust ⁴ (N)		1357

Load Rating

Item		KR2602	KR2606
LM Guide unit	Basic dynamic load rating C (N)	7240	
	Basic static load rating C ₀ (N)	12150	
	Radial clearance (mm)	-0.004 to +0.002	
Ball screw unit	Basic dynamic load rating Ca (N)	2350	1950
	Basic static load rating C _{0a} (N)	4020	3510
	Screw shaft diameter (mm)	ø8	
	Ball screw lead (mm)	2	6
	Bearing unit (fixed side)	Static permissible load P _{0a} (N)	1760

Motor Used and Applicable Intermediate Flanges

Motor type		Rated output	Flange size	Intermediate flange symbol				
Yaskawa Electric Corporation	Σ-Vmini	SGMMV-A1	10W	N				
		SGMMV-A2	20W	□25				
		SGMMV-A3	30W	N				
	Σ-V	SGMJV-A5	50W	□40	Q			
		SGMAV-A5			Q			
		SGM7J-A5	SGM7A-A5	50W	□40	Q		
Mitsubishi Electric Corporation	MEI-SERVO	J3	HF-MP053	50W	□40	Q		
		J4	HF-KP053	50W	□40	Q		
			HG-AK0136	10W	□25	N		
			HG-AK0236	20W		N		
			HG-AK0336	30W	N			
	JN	HF-KN053	50W	□40	Q			
		Tamagawa Seiki Co., Ltd.	TBL-III	TS4602	50W	□40	Q	
			TBL-IV	TSM3102	50W	□40	Q	
		Panasonic Corporation	MINAS	A5	MSMD5A	50W	□38	P
				A6	MSME5A			P
SV	MSMF5A		50W	□40	P			
	MHMF5A				Q			
Keyence Corporation	SV2	SV2-M005	50W	□40	Q			
Sanyo Denki Co., Ltd.	SANMOTION R	R2□A04005	50W	□40	Q			
OMRON Corporation	OMNUC G5	R88M-K05030	50W	□40	Q			
Fanuc Corporation	β is series	βis0.2/5000	50W	□40	Q			

SKR20

SKR26

SKR33

SKR46

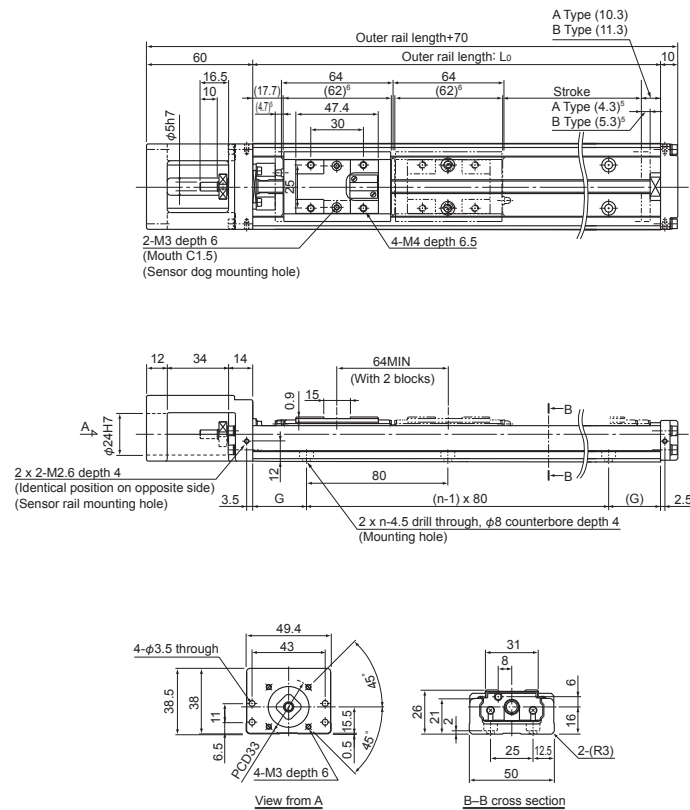
KR20

KR26

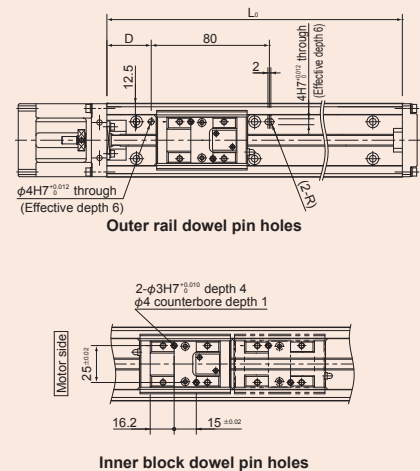
KR30H

KR45H

Uncovered Type



Customization: Dowel Pin Holes



Specification Table (Uncovered/Covered)

Stroke (mm) (Stroke between mechanical stoppers)	A Type		60 (69)	110 (119)	160 (169)	210 (219)
	B Type ⁷		—	45 (55)	95 (105)	145 (155)
Maximum speed ⁸ (mm/s)	Ball screw lead	2 mm	100 (200)			
		6 mm	300 (600)			
Dimensions (mm)	Outer rail length: L ₀		150	200	250	300
	D		45	30	55	40
	G		35	20	45	30
No. of mounting holes	n		2	3	3	4
Mass (kg)	Uncovered	A Type	1.04	1.25	1.46	1.67
		B Type	—	1.44	1.65	1.86
	Covered	A Type	1.2	1.42	1.65	1.87
		B Type	—	1.7	1.93	2.15

¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (A Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque, or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates the block length when calculating the possible stroke range. It is 126 mm for a KR26 with 2 blocks in close contact with each other (B Type).
⁷ This indicates a value when 2 blocks are in close contact with each other.
⁸ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

Intermediate flange dimensions ⇨ p. 59

Stepper motor	Motor type		Flange size	Intermediate flange symbol		
	Oriental Motor	αStep	AZ2*, AR2*	□28	S	
AZ4*, AR4* (excluding the AZM48)			□42	R		
AZ4*, AR4* (AZM48)			□42	R		
CRK52*			□28	S		
5-phase		CRK	CRK54*	□42	R	
			RKII	□42	R	
		PKA	PKA544	□42	R	
			CVK	CVK52*	□28	S
		2-phase	CVK	CVK54*	□42	R
			CVK	CVK22*	□28	S
Sanyo Denki Co., Ltd.	PB	PBDM28*	□28	S		
		PBDM423, PBA**423	□42	R		
		FAF/DF52*	□28	S		
	5-phase	FAF54*/FDF54*/FA511M42/FB511M42	□42	R		
		2-phase	D*14S28*	□28	S	
			DB14H52*	□42	R	
	2-phase	DU15H52	□42	R		
		2-phase	QS-M28	□28	S	
	QS-M42		□42	R		
	Keyence Corporation	2-phase	QS-M28	□28	S	
QS-M42			□42	R		

Detailed Specifications

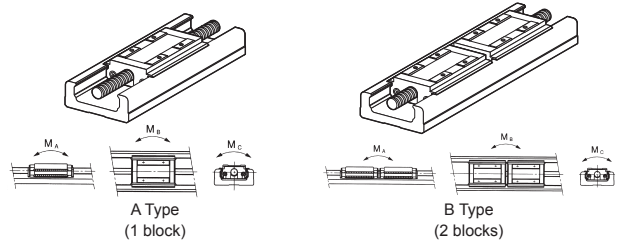
Recommended coupling		SFC-010DA2 (Miki Pulley Co., LTD.)	
Outer diameter of ball screw shaft end (mm)		φ5 to 8	
Permissible input torque (N·m)	Ball screw lead	2 mm	0.62
	6 mm		0.80

Note) The recommended coupling is for use with a servo motor. Please refer to the optimal product selection tool when using a stepper motor.

Static Permissible Moment

Unit: N·m

Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
KR26	A	84	84	208
	B	480	480	416



SKR20

SKR26

SKR33

SKR46

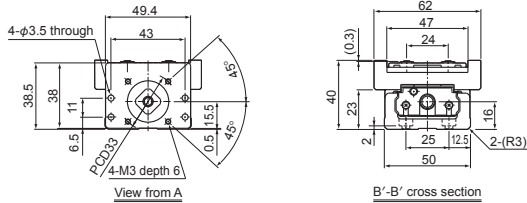
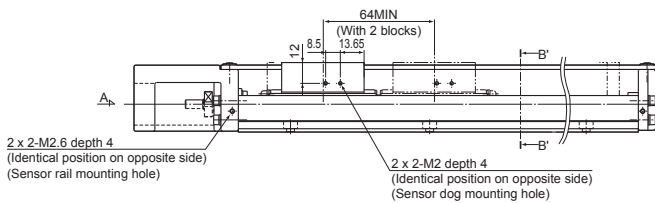
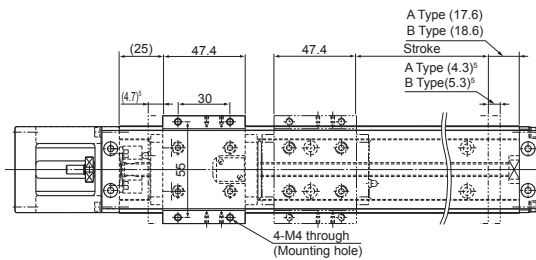
KR20

KR26

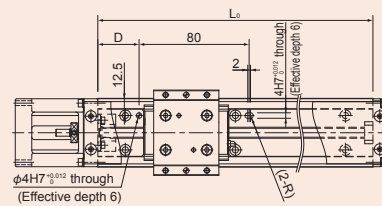
KR30H

KR45H

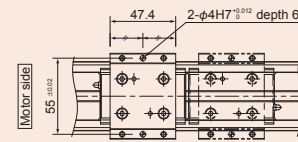
Covered Type



Customization: Dowel Pin Holes

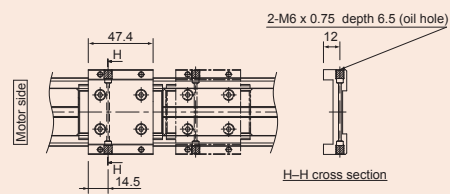


Outer rail dowel pin holes

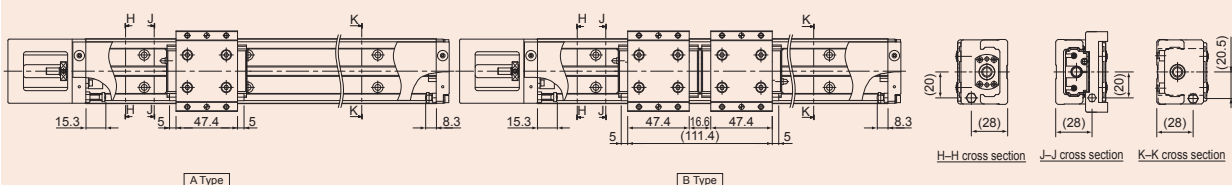


Sub-table upper surface dowel pin holes

Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



KR26 A/B Motor Wrapping

General Specifications

Motor rated output (W)		50		
Ball screw lead (mm)		2	6	
Rated speed ¹ (mm/s)		100	300	
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.15G 27.5 0.3G 27.5	
		Vertical	0.15G 6.5 0.3G 6.5	
	Rated thrust ³ (N)		449	149
	Maximum thrust ⁴ (N)		1357	452

Load Rating

Item		KR2602	KR2606
LM Guide unit	Basic dynamic load rating C (N)	7240	
	Basic static load rating C ₀ (N)	12150	
	Radial clearance (mm)	-0.004 to +0.002	
Ball screw unit	Basic dynamic load rating Ca (N)	2350	1950
	Basic static load rating C _{0a} (N)	4020	3510
	Screw shaft diameter (mm)	ø8	
	Ball screw lead (mm)	2	6
Bearing unit (fixed side)	Axial direction	Basic dynamic load rating Ca (N)	
		Static permissible load P _{0a} (N)	
		1380	1760

Motor Used and Wrapping Symbol

Motor type		Rated output	Flange size	Wrapping symbol
Yaskawa Electric Corporation	Σ-Vmini	SGMMV-A1	10W	□25
		SGMMV-A2	20W	□25
		SGMMV-A3	30W	□25
	Σ-V	SGMJV-A5	20W	□40
		SGMAV-A5	50W	□40
		SGM7J-A5	50W	□40
Mitsubishi Electric Corporation	MEI-SERVO	HF-MP053	50W	□40
		HF-KP053	50W	□40
		HF-KN053	50W	□40
	J3	HG-AK0136	10W	□25
		HG-AK0236	20W	□25
		HG-AK0336	30W	□25
		HG-MR053	50W	□40
	J4	HG-AK053	50W	□40
		HF-KR053	50W	□40
		HF-KN053	50W	□40
Tamagawa Seiki Co., Ltd.	TBL-III	TS4602	50W	□40
	TBL-IV	TSM3102	50W	□40
Panasonic Corporation	MINAS	A5	MSME5A	50W
		A6	MSMF5A	50W
Keyence Corporation	SV	MHMF5A	50W	□38
		SV-M005	50W	□40

SKR20

SKR26

SKR33

SKR46

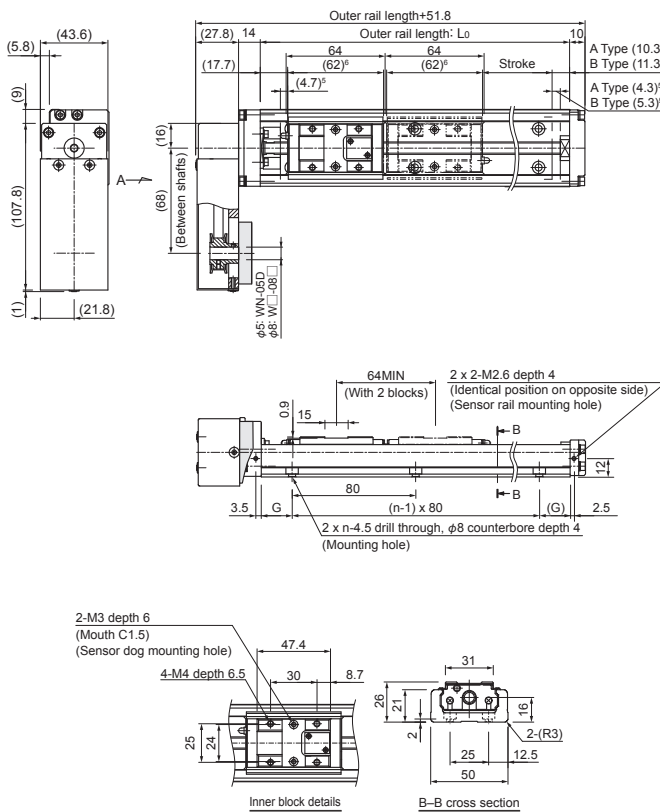
KR20

KR26

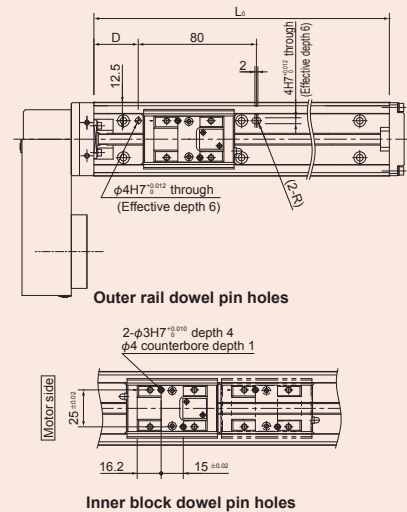
KR30H

KR45H

Uncovered Type



Customization: Dowel Pin Holes



Specification Table (Uncovered/Covered)

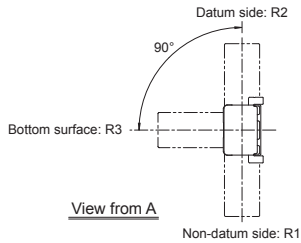
Stroke (mm) (Stroke between mechanical stoppers)	A Type		60 (69)	110 (119)	160 (169)	210 (219)
	B Type ⁷		—	45 (55)	95 (105)	145 (155)
Maximum speed ⁸ (mm/s)	Ball screw lead	2 mm	100 (200)			
		6 mm	300 (600)			
Dimensions (mm)	Outer rail length: L ₀		150	200	250	300
	D		45	30	55	40
	G		35	20	45	30
No. of mounting holes	n		2	3	3	4
Mass (kg)	Uncovered	A Type	1.26	1.47	1.69	1.9
		B Type	—	1.66	1.88	2.09
	Covered	A Type	1.43	1.65	1.87	2.1
		B Type	—	1.93	2.15	2.38

¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (A Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque, or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates the block length when calculating the possible stroke range. It is 126 mm for a KR26 with 2 blocks in close contact with each other (B Type).
⁷ This indicates a value when 2 blocks are in close contact with each other.
⁸ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

Wrapping specification details (dimensions of motor mounting plate) ⇨ [p. 60](#)

Motor type	Rated output	Flange size	Wrapping symbol
Keyence Corporation AC servo SV2	SV2-M005	50W □40	Q08K
OMRON Corporation OMNUC G5	R88M-K05030	50W □40	Q08K
Fanuc Corporation β is series	βis0.2/5000	50W □40	Q08K

Wrapping Direction



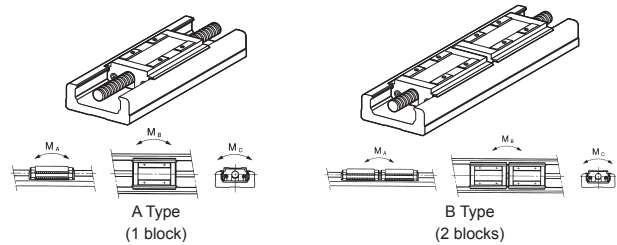
Detailed Specifications

Recommended coupling			—
Outer diameter of ball screw shaft end (mm)			φ5h7
Permissible input torque (N·m)	Ball screw lead	2 mm	0.40
		6 mm	0.40

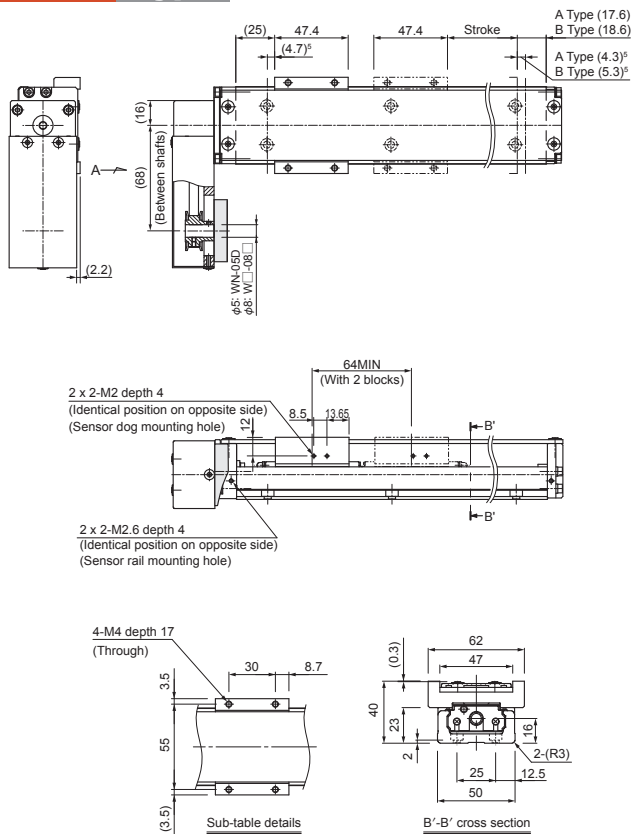
Static Permissible Moment

Unit: N·m

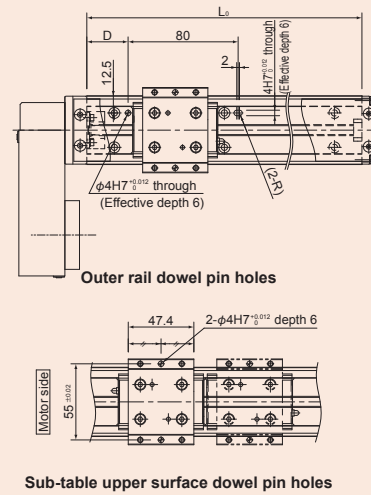
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
KR26	A	84	84	208
	B	480	480	416



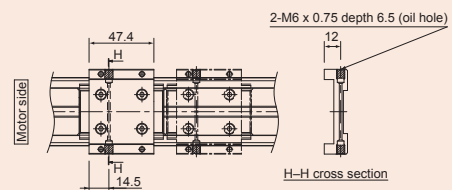
Covered Type



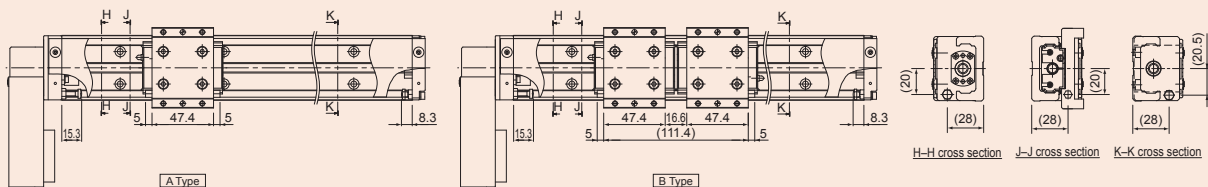
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



KR26 A/B Direct Motor Coupling

Model Number Coding

Model No.	Ball screw lead	Block type	Basic Configuration			Semi-Custom Series					
			Stroke	Direct coupling/ Wrapping	Cover ¹	Housing A/ Intermediate flange	Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)
KR26	02: 2 mm	A: 1 block	A Type	0: Direct coupling	0: Without 1: With	Direct coupling 0: Without (Housing A only) P/Q/R/N/S (Housing A and intermediate flange); See the following table	0: Without D: With	0: Without M: With	0: Without G: With	0: Without	0: Standard grease (AFA Grease) L: Low dust-generating grease (AFF Grease)
	06: 6 mm	B: 2 blocks	0060: 60 mm 0110: 110 mm 0160: 160 mm 0210: 210 mm								

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.
² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.
³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.
⁴ Sub-table greasing holes are only available on covered products.
⁵ KR26 cannot be specified with surface treatment. (The outer rail, ball screw, and inner block are made of stainless steel.)

SKR20

SKR26

SKR33

SKR46

KR20

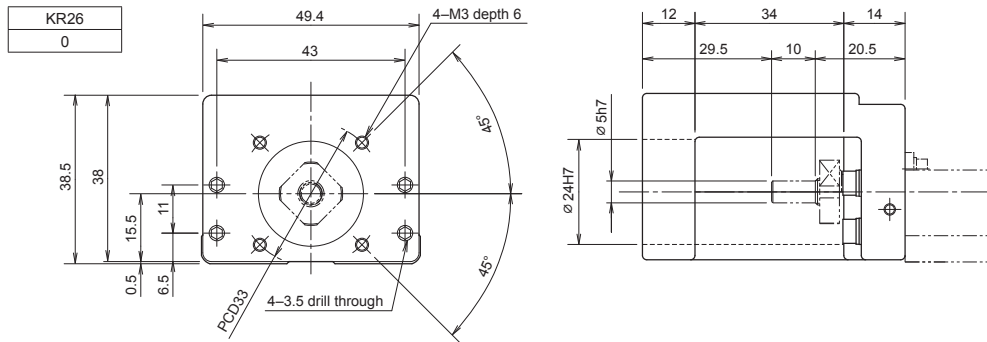
KR26

KR30H

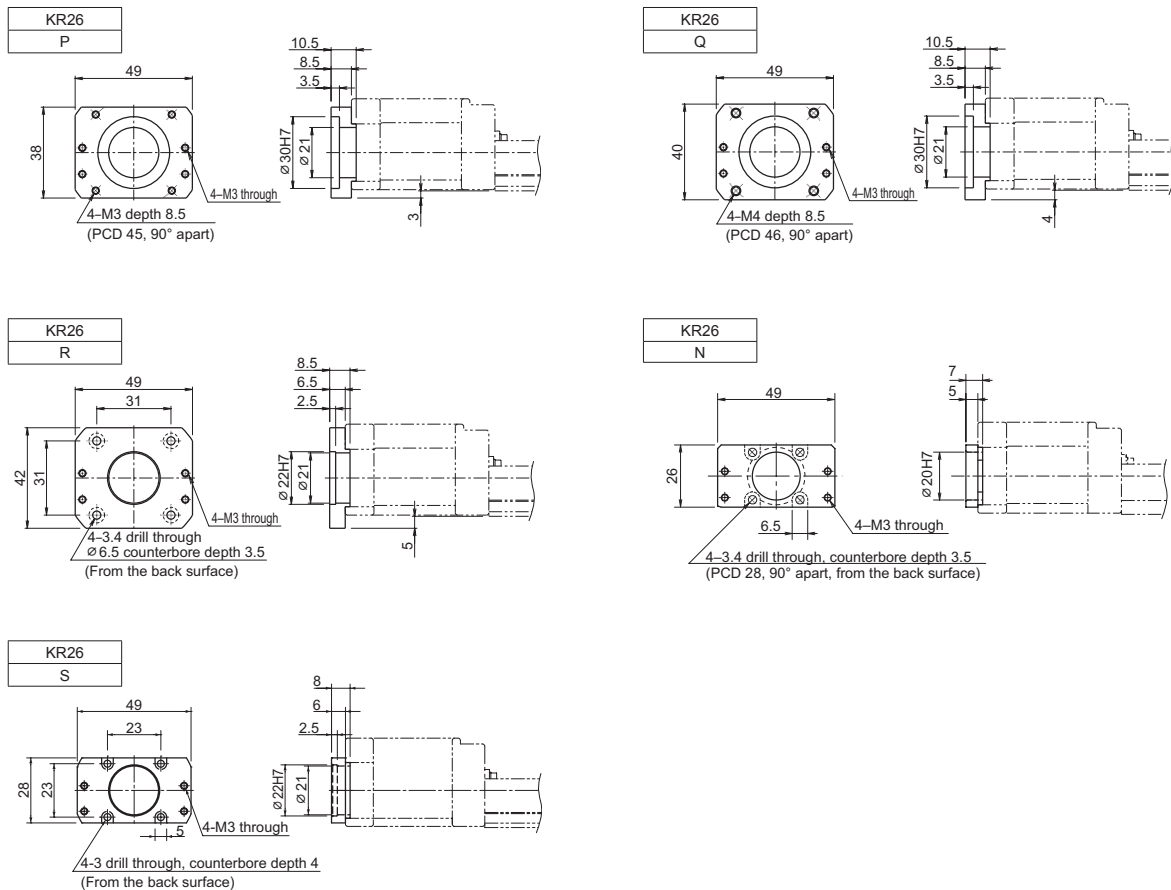
KR45H

KR26 A/B Direct Coupling Dimensional Diagrams for Motor Mounting

Housing A



Intermediate Flange



KR26 A/B Motor Wrapping

Model Number Coding

Wrapping direction details → p. 58

Basic Configuration					Semi-Custom Series									
Model No.	Ball screw lead	Block type	Stroke	Direct coupling Wrapping	Cover ¹	Motor mounting plate	Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)			
KR26	02: 2 mm 06: 6 mm	A: 1 block B: 2 blocks	A Type			0: Without 1: With	P08K/Q08K/Q08D/N05D (Wrapping specifications): See the following table	0: Without D: With	0: Without M: With	0: Without G: With	0: Without	0: Standard grease (AFA Grease) L: Low dust-generating grease (AFF Grease)		
			0060: 60 mm	R1: Non-standard side wrapping R2: Standard side wrapping R3: Bottom surface wrapping	B Type									
	0110: 110 mm	0045: 45 mm												
	0160: 160 mm	0095: 95 mm												
				0210: 210 mm	0145: 145 mm									

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.
² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.
³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.
⁴ Sub-table greasing holes are only available on covered products.
⁵ KR26 cannot be specified with surface treatment. (The outer rail, ball screw, and inner block are made of stainless steel.)

Q 08 K

① ② ③

- ①: Motor mounting plate type
- ②: Motor shaft diameter (mm)
- ③: Motor shaft securing method

K: Key
D: Flat

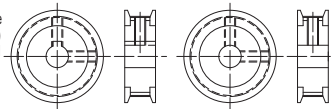
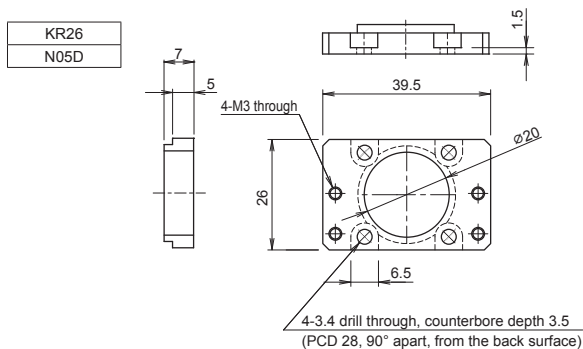
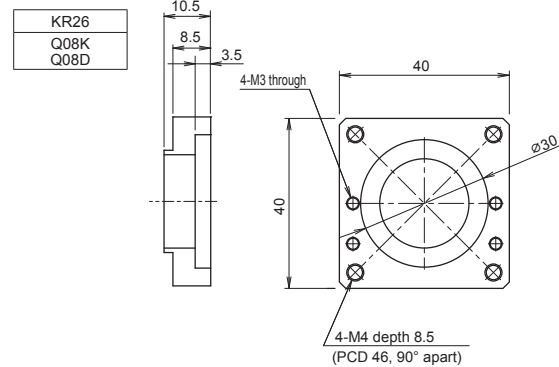
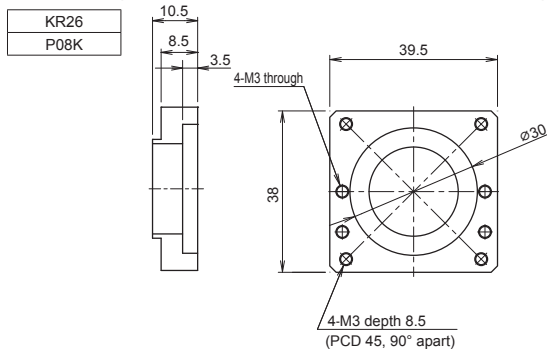


Figure: Motor shaft securing method

KR26 A/B Wrapping Dimensional Diagrams for Motor Mounting

Wrapping Specifications (Motor Mounting Plate)



KR30H A/B Direct Motor Coupling

General Specifications

Motor rated output (W)		100			
Ball screw lead (mm)		6	10		
Rated speed ¹ (mm/s)		300	500		
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.15G	35	—
			0.3G	35	28.5
			0.5G	—	28.5
		Vertical	0.15G	15.5	—
			0.3G	15	9
			0.5G	—	9
Rated thrust ³ (N)		299	179		
Maximum thrust ⁴ (N)		895	537		

Load Rating

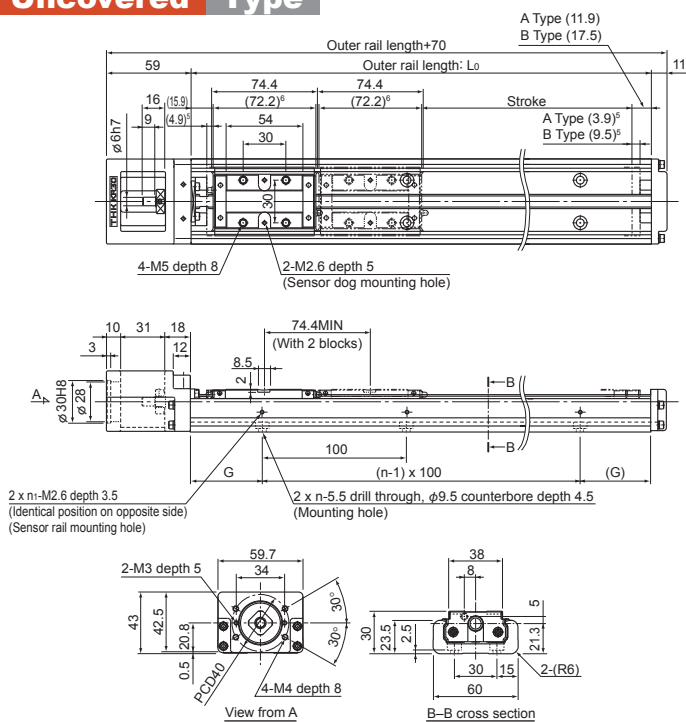
Item		KR30H06	KR30H10
LM Guide unit	Basic dynamic load rating C (N)	11600	
	Basic static load rating C ₀ (N)	20200	
	Radial clearance (mm)	-0.004 to +0.002	
Ball screw unit	Basic dynamic load rating C _a (N)	2840	1760
	Basic static load rating C _{0a} (N)	4900	2840
	Screw shaft diameter (mm)	φ10	
	Ball screw lead (mm)	6	10
	Bearing unit (fixed side)	Ball screw lead (mm)	6
Bearing unit (fixed side)	Axial direction	Basic dynamic load rating C _a (N)	1790
		Static permissible load P _{0a} (N)	2590

Motor Used and Applicable Intermediate Flanges

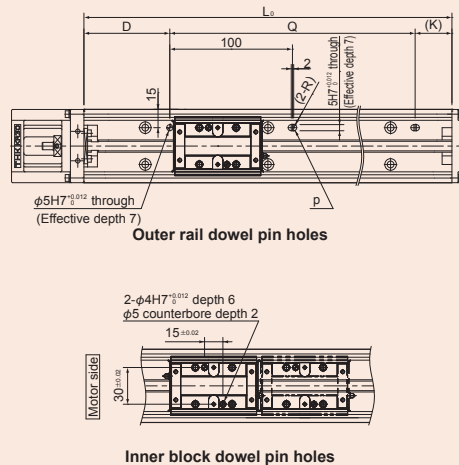
Motor type		Rated output	Flange size	Intermediate flange symbol	
AC servo motor	Yaskawa Electric Corporation	Σ-V	□40	SGMJV-A5	Q
				SGMAV-A5	Q
				SGMJV-01	Q
				SGMAV-01	Q
				SGMJV-C2	Q

Motor type		Rated output	Flange size	Intermediate flange symbol	
Yaskawa Electric Corporation	Σ-7	SGM7J-A5	50W	Q	
		SGM7A-A5	50W	Q	
		SGM7J-01	100W	Q	
		SGM7A-01	100W	Q	
		SGM7J-C2	150W	Q	
Mitsubishi Electric Corporation	MELSERVO	J3	HF-MP053	50W	Q
			HF-KP053	50W	Q
			HF-MP13	100W	Q
		HF-KP13	100W	Q	
		J4	HG-MR053	50W	Q
	HG-KR053		50W	Q	
	HG-MR13		100W	Q	
	HG-KR13		100W	Q	
	JN		HF-KN053	50W	Q
	Tamagawa Seiki Co., Ltd.	TBL-III	TS4602	50W	Q
TS4603			100W	Q	
TS4604			150W	Q	
TBL-IV		TSM3102	50W	Q	
		TSM3104	100W	Q	
Panasonic Corporation	MINAS	A5	MSMD5A	50W	P
			MSME5A	50W	P
			MSMD01	100W	P
		A6	MSME01	100W	P
			MSMF5A	50W	P
	MHMF5A		50W	Q	
	MSMF01		100W	P	
	MHMF01		100W	Q	
	Keyence Corporation	SV	SV-M005	50W	Q
			SV-M010	100W	Q
SV2		SV2-M005	50W	Q	
		SV2-M010	100W	Q	

Uncovered Type



Customization: Dowel Pin Holes



Specification Table (Uncovered/Covered)

Stroke (mm) (Stroke between mechanical stoppers)	A Type		50 (58.8)	100 (108.8)	200 (208.8)	300 (308.8)	400 (408.8)	500 (508.8)
	B Type ⁷		—	—	120 (134.4)	220 (234.4)	320 (334.4)	420 (434.4)
Maximum speed ⁸ (mm/s)	Ball screw lead	6 mm	300 (470)			300 (395)		
		10 mm	500 (790)			500 (650)		
Dimensions (mm)	Outer rail length: L ₀		150	200	300	400	500	600
	G		25	50	50	50	50	50
	F		100	100	200	200	200	200
	H		25	50	50	100	50	100
	D		45	70	70	70	70	70
	Q		—	—	—	—	400	500
No. of elongated holes	p		1	1	1	1	2	2
	n		2	2	3	4	5	6
No. of mounting holes	n ₁		2	2	2	2	3	3
	Mass (kg)	Uncovered	A Type	1.6	1.9	2.5	3	3.6
B Type			—	—	2.9	3.4	4	4.6
Covered		A Type	1.9	2.2	2.8	3.4	4	4.6
		B Type	—	—	3.4	4	4.6	5.2

¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (A Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque, or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates the block length when calculating the possible stroke range. It is 146.6 mm for a KR30H with 2 blocks in close contact with each other (B Type).
⁷ This indicates a value when 2 blocks are in close contact with each other.
⁸ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

		Motor type	Rated output	Flange size	Intermediate flange symbol	
AC servo motor	Sanyo Denki Co., Ltd.	SANMOTION R	R2□A04005	50W	□40	Q
			R2EA04008	80W	□40	Q
			R2□A04010	100W	□40	Q
OMRON Corporation	OMNUC G5	R88M-K05030	50W	□40	Q	
		R88M-K10030	100W	□40	Q	
Fanuc Corporation	β is series	βis0.2/5000	50W	□40	Q	
		βis0.3/5000	100W	□40	Q	
Stepper motor	Oriental Motor	αStep	AZ4*, AR4* (excluding the AZM48)	□42	R	
			AZ4*, AR4* (AZM48)	□42	R	
			AZ6*, AR6*	□60	U	
		CRK	CRK54*	□42	R	
			CRK56*φ8 564, 566	□60	U	
			CRK56*φ10 569	□60	U	
		RKII	RKS54*	□42	R	
			RKS56*	□60	U	
		PKA	PKA544	□42	R	
			PKA566	□60	U	
	CVK	CVK54*	□42	R		
		CVK56*φ8 564, 566	□60	U		
	2-phase	CVK	CVK56*φ8 564	□56.4	T	
		CVK2*	□42	R		
	Sanyo Denki Co., Ltd.	PB	PBDM423, PBA**423	□42	R	
			PBDM60*, PBA**60*	□60	U	
		5-phase	FAF54*/FDF54*/FA511M42/FB511M42	□42	R	
			FAF56*/FDF56*/FA512M60/FB512M60	□60	U	
		2-phase	DB14H52*	□42	R	
			DU15H52*	□42	R	
D*16H71*			□56	T		
DB16H78*			□60	U		
Keyence Corporation		2-phase	QS-M42	□42	R	
			QS-M60	□60	U	

Detailed Specifications

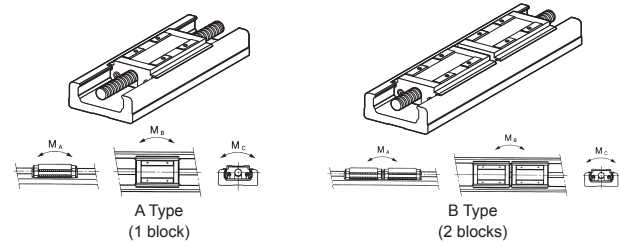
Recommended coupling			SFC-020DA2 (Miki Pulley Co., LTD.) φ6 to 8
Outer diameter of ball screw shaft end (mm)			φ6h7
Permissible input torque (N·m)	Ball screw lead	6, 10 mm	1.2

Note) The recommended coupling is for use with a servo motor. Please refer to the optimal product selection tool when using a stepper motor.

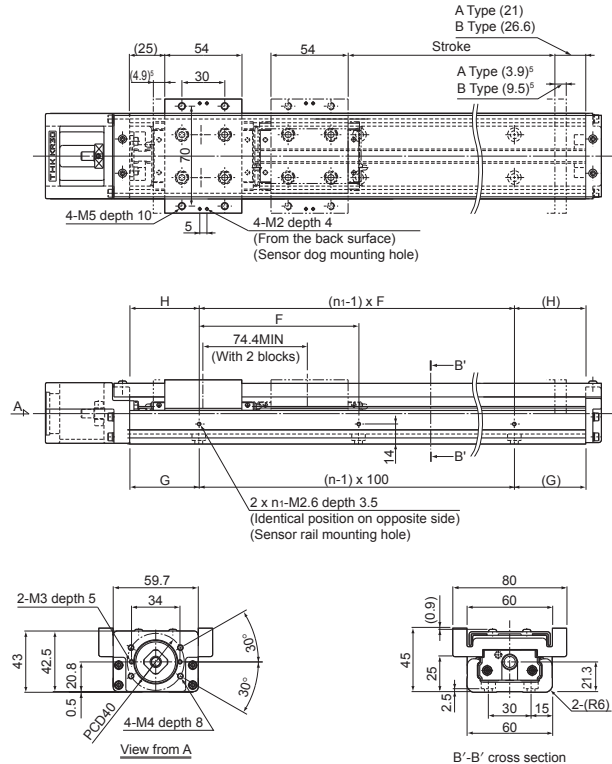
Static Permissible Moment

Unit: N·m

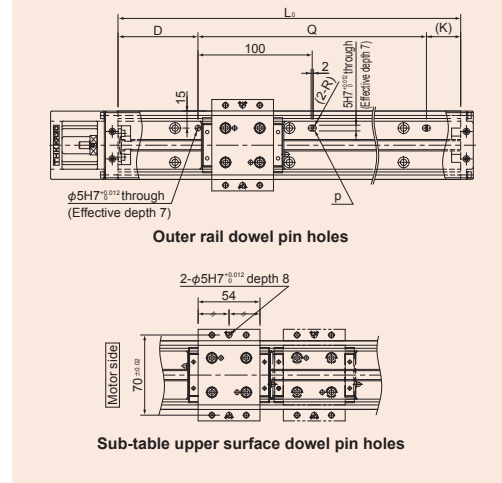
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
KR30H	A	166	166	428
	B	908	908	857



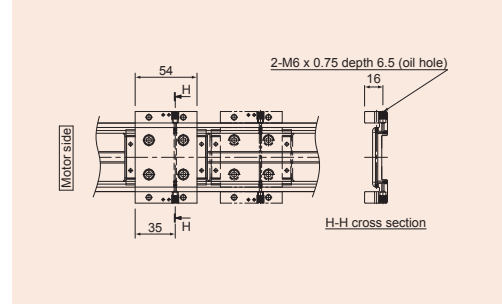
Covered Type



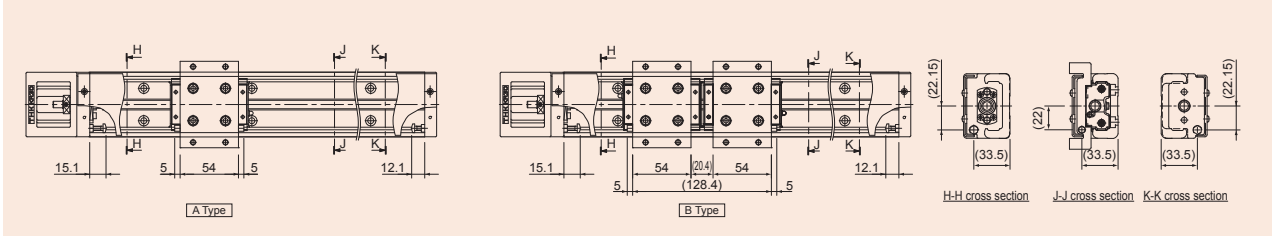
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



KR30H A/B Motor Wrapping

General Specifications

Motor rated output (W)		100			
Ball screw lead (mm)		6	10		
Rated speed ¹ (mm/s)		300	500		
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.15G	35	—
			0.3G	35	28.5
			0.5G	—	28.5
		Vertical	0.15G	12	—
			0.3G	11.5	9
			0.5G	—	9
Rated thrust ³ (N)		299	179		
Maximum thrust ⁴ (N)		895	537		

Load Rating

Item		KR30H06	KR30H10
LM Guide unit	Basic dynamic load rating C (N)	11600	
	Basic static load rating C ₀ (N)	20200	
	Radial clearance (mm)	-0.004 to +0.002	
Ball screw unit	Basic dynamic load rating C _a (N)	2840	1760
	Basic static load rating C _{0a} (N)	4900	2840
	Screw shaft diameter (mm)	φ10	
	Ball screw lead (mm)	6	10
	Bearing unit (fixed side)	Axial direction	Basic dynamic load rating C _a (N)
		Static permissible load P _{0a} (N)	2590

Motor Used and Wrapping Symbol

Motor type		Rated output	Flange size	Wrapping symbol			
Yaskawa Electric Corporation	Σ-V	SGMJV-A5	50W	□40	Q08K, Q08M		
		SGMAV-A5			Q08K, Q08M		
		SGMJV-01			Q08K, Q08M		
		SGMAV-01			Q08K, Q08M		
		SGMJV-C2			Q08K, Q08M		
	Σ-7	SGM7J-A5	50W	□40	Q08K, Q08M		
		SGM7A-A5			Q08K, Q08M		
		SGM7J-01			Q08K, Q08M		
		SGM7A-01			Q08K, Q08M		
		SGM7J-C2			Q08K, Q08M		
Mitsubishi Electric Corporation	J3	HF-MP053	50W	□40	Q08D, Q08M		
		HF-MP13			Q08D, Q08M		
		HF-KP13			Q08D, Q08M		
		HG-MR053			Q08D, Q08M		
		HG-KR053			Q08D, Q08M		
	J4	HG-MR13	100W	□40	Q08D, Q08M		
		HG-KR13			Q08D, Q08M		
		JN			50W	□40	Q08D, Q08M
		HF-KN053					Q08D, Q08M
		HF-KN13					Q08D, Q08M
Tamagawa Seiki Co., Ltd.	TBL-II	TS4602	50W	□40	Q08D, Q08M		
		TS4603			Q08D, Q08M		
		TS4604			Q08D, Q08M		
		TSM3102			Q08D, Q08M		
		TSM3104			Q08D, Q08M		
Panasonic Corporation	MINAS A5	MSMD5A	50W	□38	P08K, P08D, P08M		
		MSME5A			P08K, P08D, P08M		
		MSMD01			P08K, P08D, P08M		
		100W			□38	P08K, P08D, P08M	
						MSME01	P08K, P08D, P08M

SKR20

SKR26

SKR33

SKR46

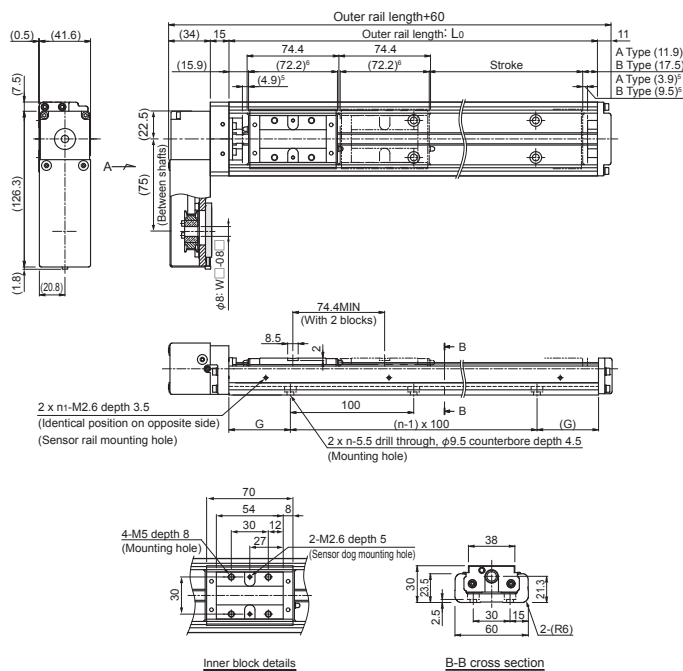
KR20

KR26

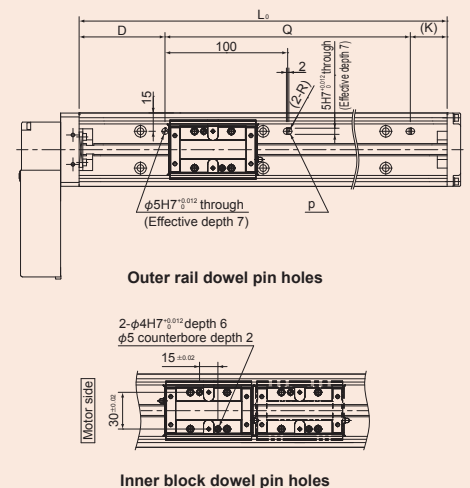
KR30H

KR45H

Uncovered Type



Customization: Dowel Pin Holes



Specification Table (Uncovered/Covered)

Stroke (mm) (Stroke between mechanical stoppers)	A Type		50 (58.8)	100 (108.8)	200 (208.8)	300 (308.8)	400 (408.8)	500 (508.8)
	B Type ⁷		—	—	120 (134.4)	220 (234.4)	320 (334.4)	420 (434.4)
Maximum speed ⁸ (mm/s)	Ball screw lead	6 mm	300 (470)			500 (790)		300 (395)
Dimensions (mm)	Outer rail length: L ₀		150	200	300	400	500	600
	G		25	50	50	50	50	50
	F		100	100	200	200	200	200
	H		25	50	50	100	50	100
	D		45	70	70	70	70	70
	Q		—	—	—	—	400	500
	K		—	—	—	—	30	30
No. of elongated holes	p		1	1	1	1	2	2
No. of mounting holes	n		2	2	3	4	5	6
	n ₁		2	2	2	2	3	3
Mass (kg)	Uncovered	A Type	1.9	2.2	2.8	3.4	3.9	4.5
		B Type	—	—	3.2	3.8	4.3	4.9
	Covered	A Type	2.2	2.5	3.1	3.7	4.4	5
		B Type	—	—	3.7	4.3	5	5.6

¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (A Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates the block length when calculating the possible stroke range. It is 146.6 mm for a KR30H with 2 blocks in close contact with each other (B Type).
⁷ This indicates a value when 2 blocks are in close contact with each other.
⁸ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

Wrapping specification details (dimensions of motor mounting plate) ⇨ p. 66

		Motor type		Rated output	Flange size	Wrapping symbol
AC servo motor	Panasonic Corporation	MINAS	A6	MSMF5A	□38	P08K, P08M
				MHMF5A		Q08K, Q08M
				MSMF01		
	MHMF01	100W	□40	P08K, P08M		
	Keyence Corporation	SV	SV2	SV-M005	□40	Q08K, Q08M
				SV-M010		Q08K, Q08M
				SV2-M005		Q08K, Q08M
				SV2-M010		Q08K, Q08M
				R2□A04005		50W
	Sanyo Denki Co., Ltd.	SANMOTION R	R2EA04008	□40	Q08M	
			R2□A04010		100W	Q08M
			R88M-K05030		50W	Q08K, Q08M
	OMRON Corporation	OMNUC G5	R88M-K10030	□40	Q08K, Q08M	
			R88M-1M10030		100W	Q08K, Q08M
1S			100W		Q08K, Q08M	

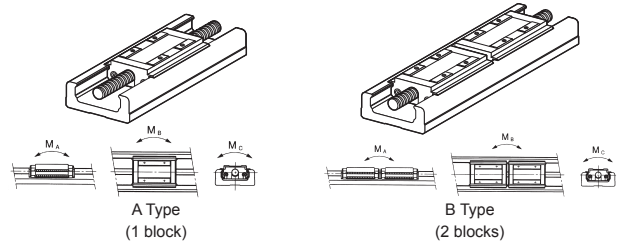
Detailed Specifications

Recommended coupling			—
Outer diameter of ball screw shaft end (mm)			φ6h7
Permissible input torque (N·m)	Ball screw lead	6, 10 mm	0.98

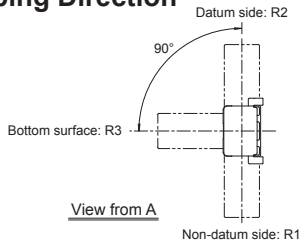
Static Permissible Moment

Unit: N·m

Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
KR30H	A	166	166	428
	B	908	908	857



Wrapping Direction



KR

SKR20

SKR26

SKR33

SKR46

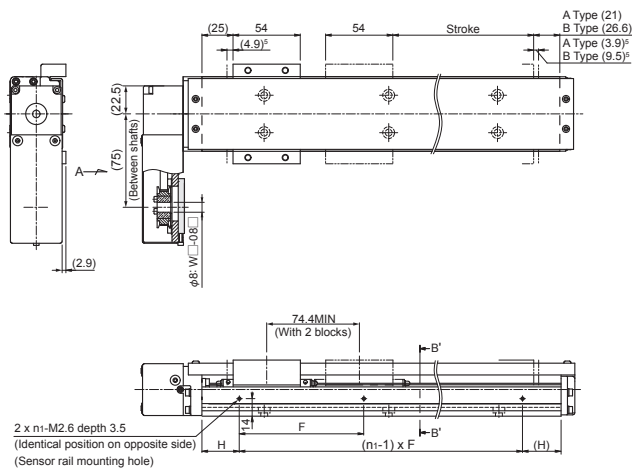
KR20

KR26

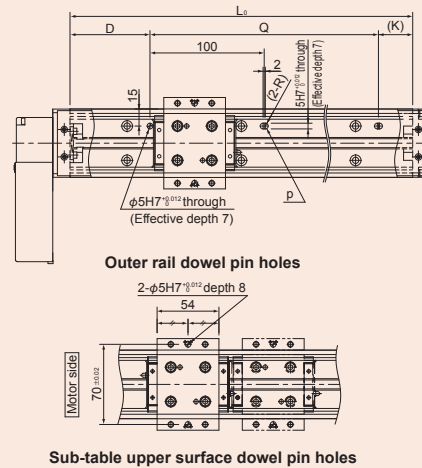
KR30H

KR45H

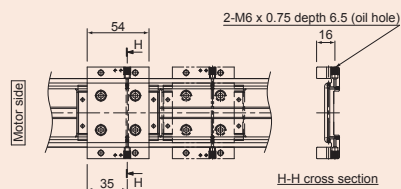
Covered Type



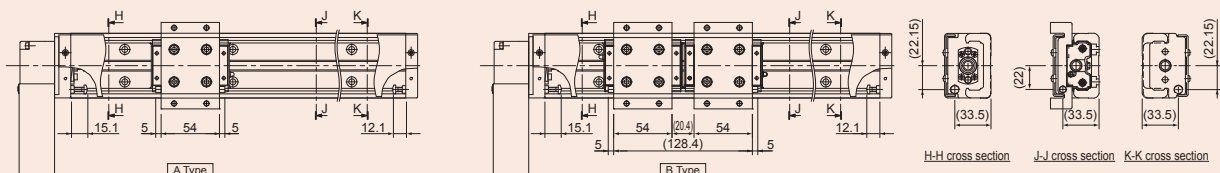
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



KR30H A/B Direct Motor Coupling

Model Number Coding

Model No.	Ball screw lead	Block type	Basic Configuration				Semi-Custom Series					
			Stroke		Direct coupling/ Wrapping	Cover ¹	Housing A/ Intermediate flange	Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)
			A Type	B Type								
KR30H	06: 6 mm	A: 1 block	0050: 50 mm	0120: 120 mm	0: Direct coupling	0: Without 1: With	0: Without (Housing A only) P/Q/R/T/U (Housing A and intermediate flange); See the following table	0: Without D: With	0: Without M: With	0: Without G: With	0: Without S: With	0: Standard grease (AFB-LF Grease) L: Low dust-generating grease (AFF Grease)
	10: 10 mm	B: 2 blocks	0100: 100 mm	0220: 220 mm								

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.

² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.

³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.

⁴ Sub-table greasing holes are only available on covered products.

⁵ When surface treatment is selected, THK AP-C coating will be applied to the inner block and ball screw. (This treatment is already standard on the outer rail.)

SKR20

SKR26

SKR33

SKR46

KR20

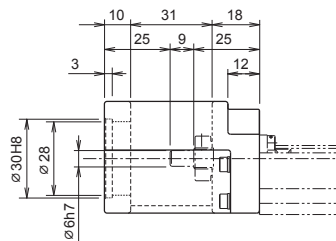
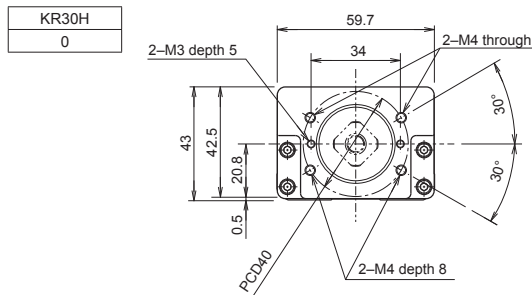
KR26

KR30H

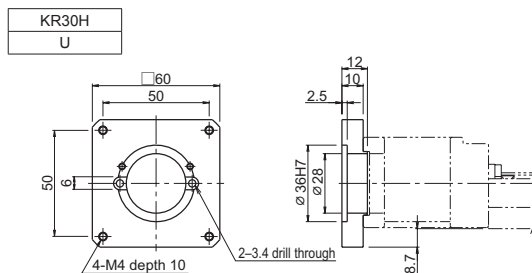
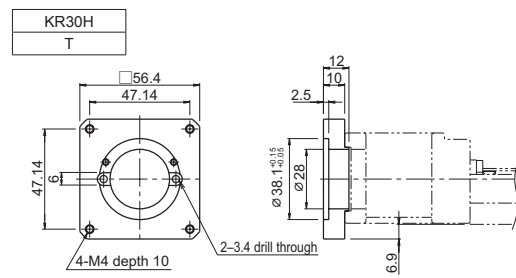
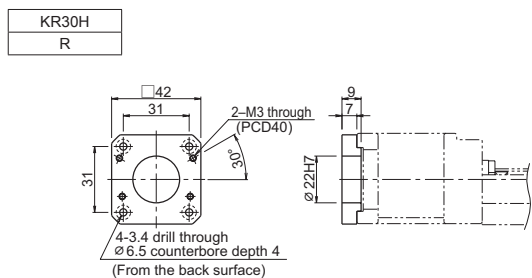
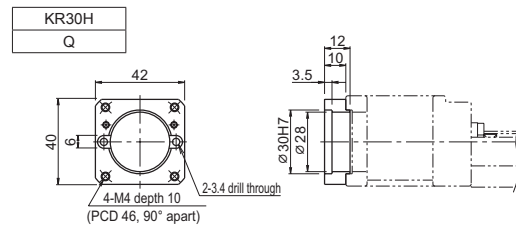
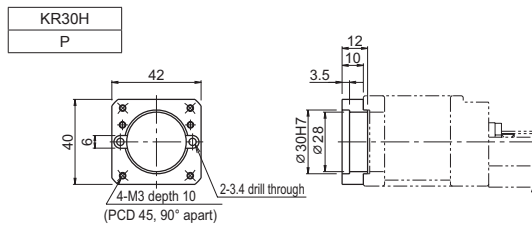
KR45H

KR30H A/B Direct Coupling Dimensional Diagrams for Motor Mounting

Housing A



Intermediate Flange



KR30H A/B Motor Wrapping

Model Number Coding

Wrapping direction details → p. 64

Model No.	Ball screw lead	Block type	Basic Configuration		Direct coupling wrapping	Cover ¹	Motor mounting plate	Semi-Custom Series					
			Stroke					Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)	
KR30H	06: 6 mm	A: 1 block	A Type	B Type	R1: Non-standard side wrapping R2: Standard side wrapping R3: Bottom surface wrapping	0: Without 1: With	Wrapping P08K/P08D/P08M Q08K/Q08D/Q08M (Wrapping specifications): See the following table	0: Without	0: Without	0: Without	0: Without	0: Standard grease (AFB-LF Grease) L: Low dust-generating grease (AFF Grease)	
	10: 10 mm	B: 2 blocks	0050: 50 mm	0120: 120 mm				0: With	D: With	M: With	G: With		S: With
			0100: 100 mm	0220: 220 mm									
			0200: 200 mm	0320: 320 mm									
			0300: 300 mm	0420: 420 mm									
			0400: 400 mm										
			0500: 500 mm										

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.

² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.

³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.

⁴ Sub-table greasing holes are only available on covered products.

⁵ When surface treatment is selected, THK AP-C coating will be applied to the inner block and ball screw. (This treatment is already standard on the outer rail.)

Q 08 K

① ② ③

- ①: Motor mounting plate type
 - ②: Motor shaft diameter (mm)
 - ③: Motor shaft securing method
- K: Key
D: Flat
M: Friction fastener

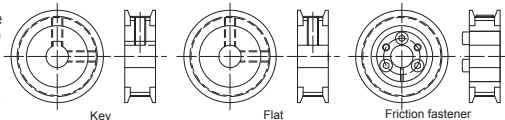


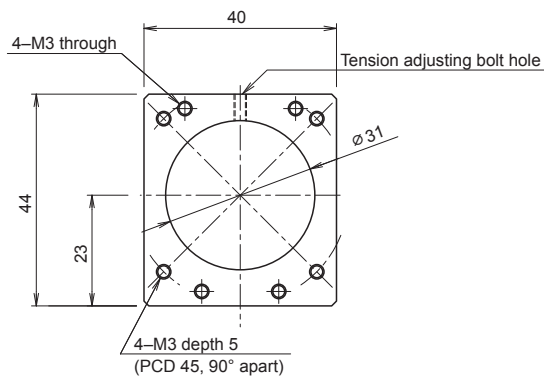
Figure: Motor shaft securing method

KR30H A/B Wrapping Dimensional Diagrams for Motor Mounting

Wrapping Specifications (Motor Mounting Plate)

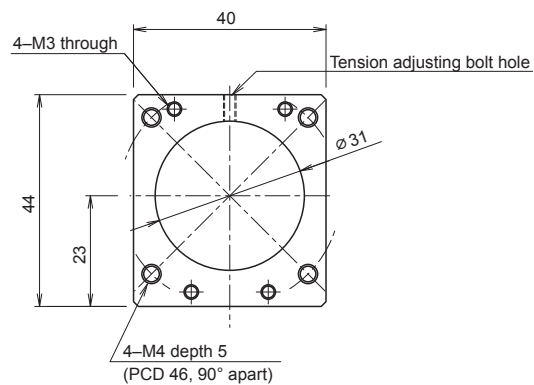
KR30H
P08K/P08D/P08M

Thickness: 5 mm



KR30H
Q08K/Q08D/Q08M

Thickness: 5 mm



KR30H C/D Direct Motor Coupling

General Specifications

Motor rated output (W)		100			
Ball screw lead (mm)		6	10		
Rated speed ¹ (mm/s)		300	500		
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.15G	25	-
			0.3G	25	16.5
		0.5G	-	13	
	Vertical	0.15G	4.5	-	
		0.3G	4.5	3.5	
		0.5G	-	3.5	
Rated thrust ³ (N)		299	179		
Maximum thrust ⁴ (N)		895	537		

Load Rating

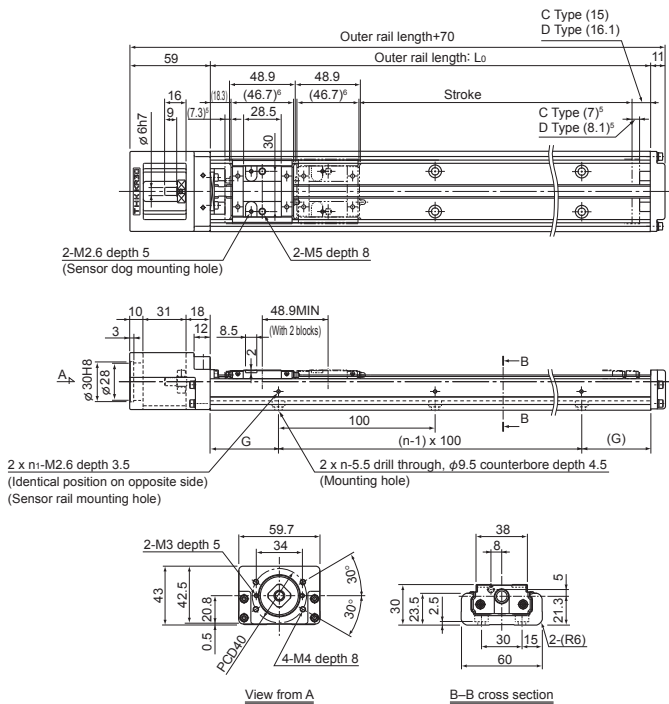
Item		KR30H06	KR30H10
LM Guide unit	Basic dynamic load rating C (N)	4900	
	Basic static load rating C ₀ (N)	10000	
	Radial clearance (mm)	-0.004 to +0.002	
Ball screw unit	Basic dynamic load rating Ca (N)	2840	1760
	Basic static load rating C _{0a} (N)	4900	2840
	Screw shaft diameter (mm)	φ10	
	Ball screw lead (mm)	6	10
	Bearing unit (fixed side)	Basic dynamic load rating Ca (N)	1790
	Static permissible load P _{0a} (N)	2590	

Motor Used and Applicable Intermediate Flanges Intermediate flange dimensions → p. 71

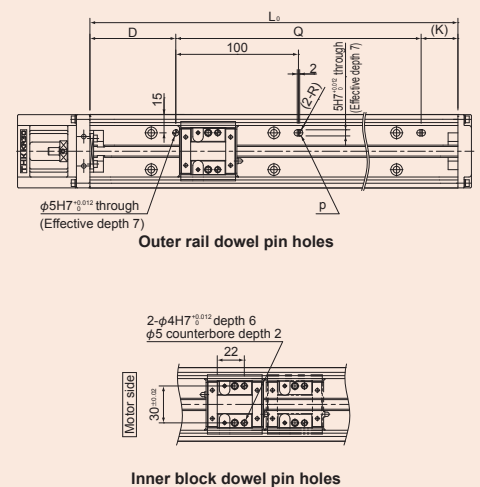
Motor type		Rated output	Flange size	Intermediate flange symbol	
AC servo motor	Yaskawa Electric Corporation	Σ-V	□40	SGMJV-A5	Q
				SGMAV-A5	Q
				SGMJV-01	Q
		SGMAV-01		Q	
		SGMJV-C2		Q	

Motor type		Rated output	Flange size	Intermediate flange symbol				
AC servo motor	Yaskawa Electric Corporation	Σ-7	□40	SGM7J-A5	Q			
				SGM7A-A5	Q			
				SGM7J-01	Q			
				SGM7A-01	Q			
				SGM7J-C2	Q			
	Mitsubishi Electric Corporation	MELSERVO	J3	□40	HF-MP053	Q		
					HF-KP053	Q		
					HF-MP13	Q		
			J4		HF-KP13	Q		
					HG-MR053	Q		
					HG-KR053	Q		
					HG-MR13	Q		
JN	HF-KN053	Q						
	HF-KN13	Q						
Tamagawa Seiki Co., Ltd.	TBL-III	□40	TS4602	Q				
			TS4603	Q				
			TS4604	Q				
			TSM3102	Q				
			TSM3104	Q				
Panasonic Corporation	MINAS	A5	□38	MSMD5A	P			
				MSME5A	P			
				MSMD01	P			
				MSME01	P			
				MSMF5A	P			
		A6		MHMF5A	Q			
				MSMF01	P			
				MHMF01	Q			
				Keyence Corporation	SV	□40	SV-M005	Q
							SV-M010	Q
SV2-M005	Q							
SV2-M010	Q							

Uncovered Type



Customization: Dowel Pin Holes



Specification Table (Uncovered/Covered)

Stroke (mm) (Stroke between mechanical stoppers)	C Type							
	70 (84.3)	120 (134.3)	220 (234.3)	320 (334.3)	420 (434.3)	520 (534.3)		
Maximum speed ⁸ (mm/s)	Ball screw lead	6 mm	10 mm	300 (470)	500 (790)	300 (360)	500 (600)	
	Outer rail length: L ₀	150	200	300	400	500	600	
Dimensions (mm)	G	25	50	50	50	50	50	
	F	100	100	200	200	200	200	
	H	25	50	50	100	50	100	
	D	45	70	70	70	70	70	
	Q	-	-	-	-	400	500	
No. of elongated holes	p	1	1	1	1	2	2	
	n	2	2	3	4	5	6	
No. of mounting holes	n ₁	2	2	2	2	3	3	
		2	2	2	2	3	3	
Mass (kg)	Uncovered	C Type	1.4	1.7	2.3	2.8	3.4	4
		D Type	1.6	1.9	2.5	3	3.6	4.2
	Covered	C Type	1.6	1.9	2.5	3.1	3.7	4.3
		D Type	1.9	2.2	2.8	3.4	4	4.6

¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (C Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque, or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates the block length when calculating the possible stroke range. It is 95.6 mm for a KR30H with 2 blocks in close contact with each other (D Type).
⁷ This indicates a value when 2 blocks are in close contact with each other.
⁸ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

		Motor type	Rated output	Flange size	Intermediate flange symbol	
AC servo motor	Sanyo Denki Co., Ltd.	SANMOTION R	R2□A04005	50W	□40	Q
			R2EA04008	80W		Q
			R2□A04010	100W		Q
OMRON Corporation	OMNUC G5	R88M-K05030	50W	□40	Q	
		R88M-K10030	100W		Q	
Fanuc Corporation	β is series	βis0.2/5000	50W	□40	Q	
		βis0.3/5000	100W		Q	
Stepper motor	Oriental Motor	αStep	AZ4*, AR4* (excluding the AZM48)	□42	R	
			AZ4*, AR4* (AZM48)	□42	R	
			AZ6*, AR6*	□60	U	
		5-phase	CRK	CRK54*	□42	R
				CRK56*φ8 564, 566	□60	U
				CRK56*φ10 569	□60	U
			RKS	RKS54*	□42	R
				RKS56*	□60	U
				PKA	PKA544	□42
		CVK	PKA566	□60	U	
			CVK54*	□42	R	
			CVK56*φ8 564, 566	□60	U	
		2-phase	CVK	CVK56*φ8 564	□56.4	T
				CVK24*	□42	R
				CVK26*	□56.4	T
		Sanyo Denki Co., Ltd.	PB	PBDM423, PBA**423	□42	R
				PBDM60*, PBA**60*	□60	U
			5-phase	FAF54*/FDF54*/FA511M42/FB511M42	□42	R
FAF56*/FDF56*/FA512M60/FB512M60	□60			U		
DB14H52*	□42			R		
2-phase	DU15H52*		□42	R		
	D*16H71*		□56	T		
Keyence Corporation	2-phase		DB16H78*	□60	U	
			QS-M42	□42	R	
QS-M60	□60		U			

Detailed Specifications

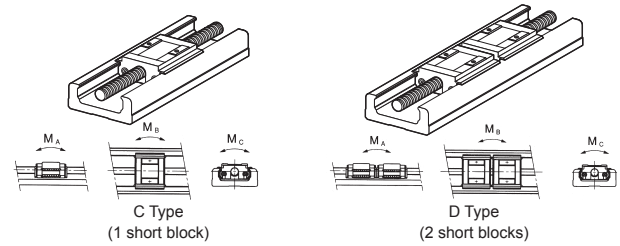
Recommended coupling			SFC-020DA2 (Miki Pulley Co., LTD.) φ6 to 8
Outer diameter of ball screw shaft end (mm)			φ6h7
Permissible input torque (N·m)	Ball screw lead	6, 10 mm	1.2

Note) The recommended coupling is for use with a servo motor. Please refer to the optimal product selection tool when using a stepper motor.

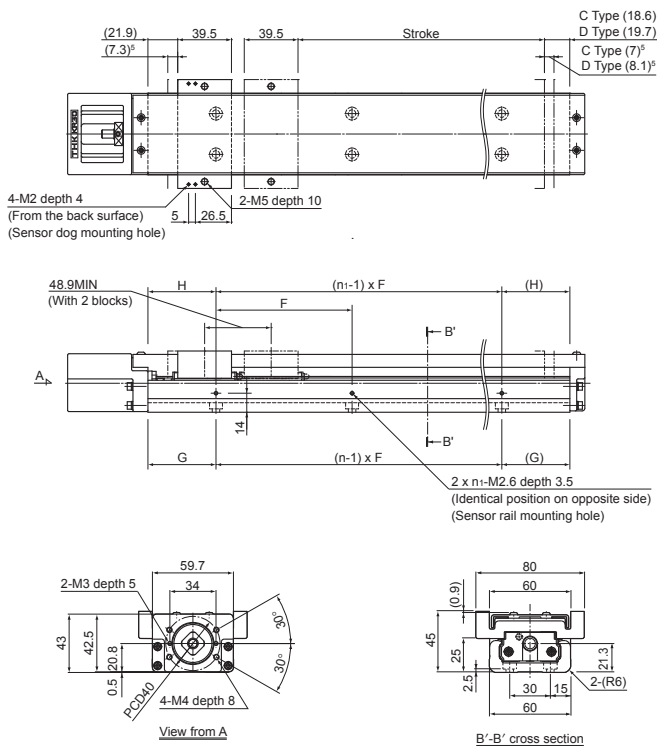
Static Permissible Moment

Unit: N·m

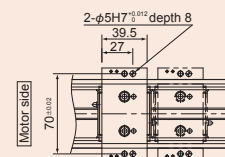
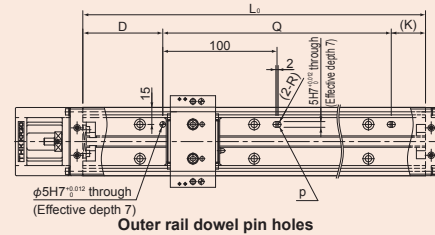
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
KR30H	C	44	44	214
	D	319	319	427



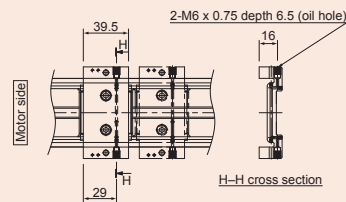
Covered Type



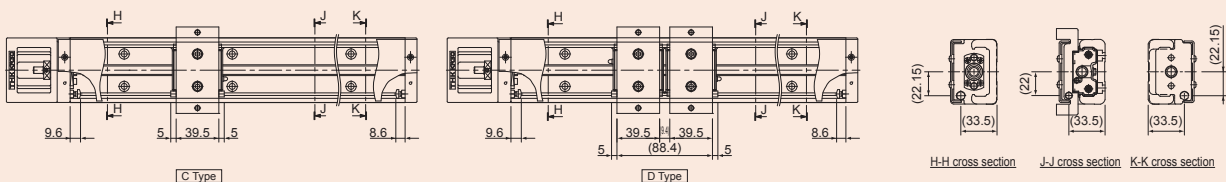
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



KR30H C/D Motor Wrapping

General Specifications

Motor rated output (W)		100			
Ball screw lead (mm)		6	10		
Rated speed ¹ (mm/s)		300	500		
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.15G	25	—
			0.3G	25	16.5
			0.5G	—	13
		Vertical	0.15G	4.5	—
			0.3G	4.5	3.5
			0.5G	—	3.5
Rated thrust ³ (N)		299	179		
Maximum thrust ⁴ (N)		895	537		

Load Rating

Item		KR30H06	KR30H10
LM Guide unit	Basic dynamic load rating C (N)	4900	
	Basic static load rating C ₀ (N)	10000	
	Radial clearance (mm)	-0.004 to +0.002	
Ball screw unit	Basic dynamic load rating Ca (N)	2840	1760
	Basic static load rating C _{0a} (N)	4900	2840
	Screw shaft diameter (mm)	φ10	
	Ball screw lead (mm)	6	10
	Bearing unit (fixed side)	Axial direction	Basic dynamic load rating Ca (N)
		Static permissible load P _{0a} (N)	2590

Motor Used and Wrapping Symbol

Motor type		Rated output	Flange size	Wrapping symbol		
Yaskawa Electric Corporation	Σ-V	SGMJV-A5	50W	□40	Q08K, Q08M	
		SGMAV-A5			Q08K, Q08M	
		SGMJV-01			Q08K, Q08M	
		SGMAV-01			Q08K, Q08M	
		SGMJV-C2			Q08K, Q08M	
	Σ-7	SGM7J-A5	50W	□40	Q08K, Q08M	
		SGM7A-A5			Q08K, Q08M	
		SGM7J-01			Q08K, Q08M	
		SGM7A-01			Q08K, Q08M	
		SGM7J-C2			Q08K, Q08M	
Mitsubishi Electric Corporation	MEISERVO	J3	□40	HF-MP053	Q08D, Q08M	
				HF-MP13	Q08D, Q08M	
				HF-KP13	Q08D, Q08M	
		J4		HG-MR053	Q08D, Q08M	
				HG-KR053	Q08D, Q08M	
				HG-MR13	Q08D, Q08M	
	JN	HF-KN053	50W	□40	Q08D, Q08M	
		HF-KN13			Q08D, Q08M	
		TS4602			Q08D, Q08M	
		TS4603			Q08D, Q08M	
Tamagawa Seiki Co., Ltd.	TBL-II	TS4604	150W	□40	Q08D, Q08M	
		TSM3102			Q08D, Q08M	
	TBL-IV	TSM3104	100W	□40	Q08D, Q08M	
		MSMD5A			50W	□38
Panasonic Corporation	MINAS	A5	MSME5A	50W	P08K, P08D, P08M	
			MSMD01	100W	P08K, P08D, P08M	
		A5	MSME01	100W	P08K, P08D, P08M	

SKR20

SKR26

SKR33

SKR46

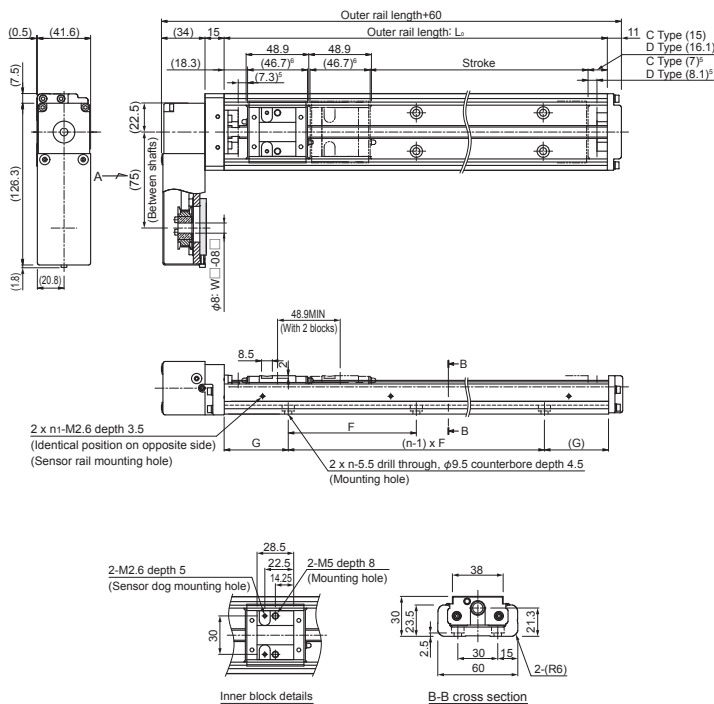
KR20

KR26

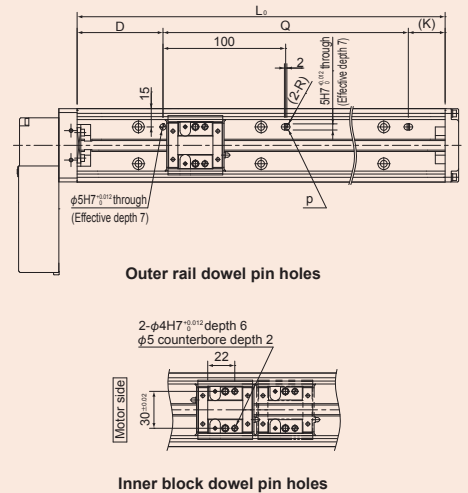
KR30H

KR45H

Uncovered Type



Customization: Dowel Pin Holes



Specification Table (Uncovered/Covered)

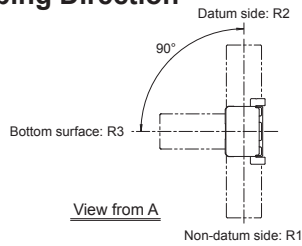
Stroke (mm) (Stroke between mechanical stoppers)	C Type		70 (84.3)	120 (134.3)	220 (234.3)	320 (334.3)	420 (434.3)	520 (534.3)
	D Type ⁷		20 (35.4)	70 (85.4)	170 (185.4)	270 (285.4)	370 (385.4)	470 (485.4)
Maximum speed ⁸ (mm/s)	Ball screw lead	6 mm	300 (470)					300 (360)
		10 mm	500 (790)					500 (600)
Dimensions (mm)	Outer rail length: L ₀		150	200	300	400	500	600
	G		25	50	50	50	50	50
	F		100	100	200	200	200	200
	H		25	50	50	100	50	100
	D		45	70	70	70	70	70
	Q		—	—	—	—	400	500
No. of elongated holes	p		1	1	1	1	2	2
	n		2	2	3	4	5	6
No. of mounting holes	n ₁		2	2	2	2	3	3
	Mass (kg)	Uncovered	C Type	1.7	2	2.6	3.2	3.7
D Type			1.9	2.2	2.8	3.4	3.9	4.5
Covered		C Type	1.9	2.2	2.8	3.4	4.1	4.7
		D Type	2.2	2.5	3.1	3.7	4.4	5

¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (C Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates the block length when calculating the possible stroke range. It is 95.6 mm for a KR30H with 2 blocks in close contact with each other (D Type).
⁷ This indicates a value when 2 blocks are in close contact with each other.
⁸ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

Wrapping specification details (dimensions of motor mounting plate) ⇨ p. 72

AC servo motor	Motor type		Rated output	Flange size	Wrapping symbol
	Manufacturer	Model			
Panasonic Corporation	MINAS	A6	MSMF5A	50W	□38 P08K, P08M
			MHMF5A	100W	□40 Q08K, Q08M
			MHMF01		□38 P08K, P08M
Keyence Corporation	SV	SV	SV-M005	50W	□40 Q08K, Q08M
			SV-M010	100W	Q08K, Q08M
	SV2	SV2	SV2-M005	50W	Q08K, Q08M
			SV2-M010	100W	Q08K, Q08M
Sanyo Denki Co., Ltd.	SANMOTION R	R	R2□A04005	50W	Q08M
			R2EA04008	80W	Q08M
			R2□A04010	100W	Q08M
OMRON Corporation	OMNUC G5	1S	R88M-K05030	50W	Q08K, Q08M
			R88M-K10030	100W	Q08K, Q08M
			R88M-1M10030	100W	Q08K, Q08M

Wrapping Direction



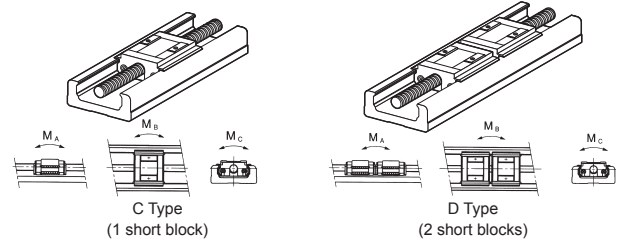
Detailed Specifications

Recommended coupling			—
Outer diameter of ball screw shaft end (mm)			φ6h7
Permissible input torque (N·m)	Ball screw lead	6, 10 mm	0.98

Static Permissible Moment

Unit: N·m

Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
KR30H	C	44	44	214
	D	319	319	427



KR

SKR20

SKR26

SKR33

SKR46

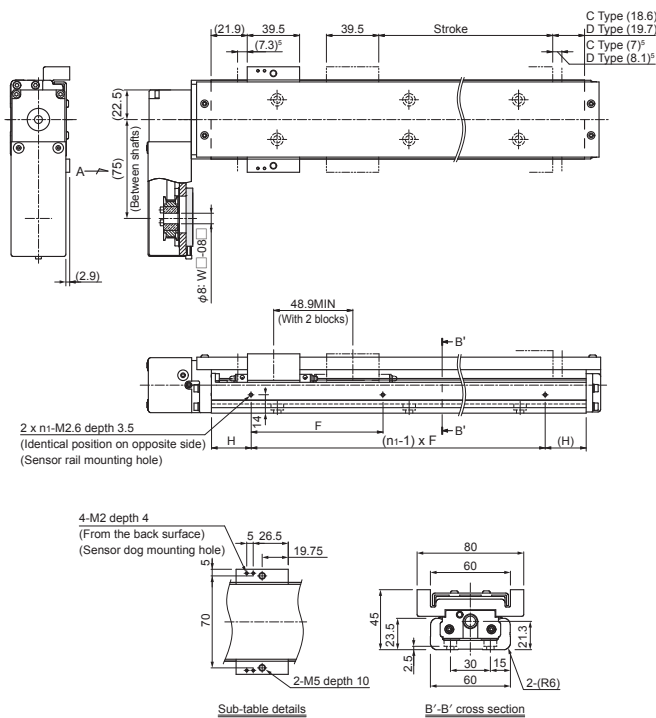
KR20

KR26

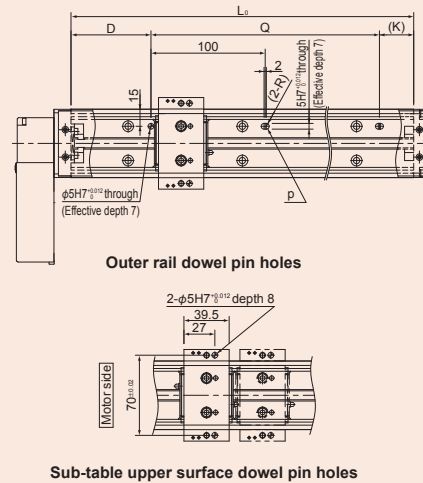
KR30H

KR45H

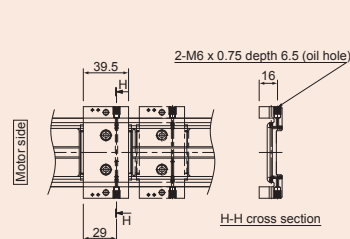
Covered Type



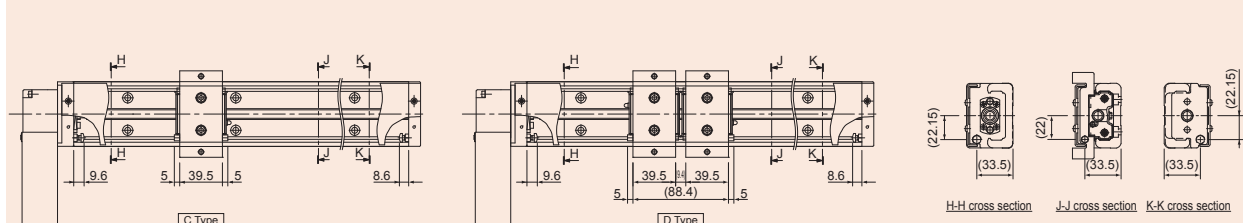
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



KR30H C/D Direct Motor Coupling

Model Number Coding

Model No.	Ball screw lead	Block type	Basic Configuration				Semi-Custom Series					
			Stroke		Direct coupling/ Wrapping	Cover ¹	Housing A/ Intermediate flange	Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)
			C Type	D Type								
KR30H	06: 6 mm	C: 1 block (short block)	0070: 70 mm	0020: 20 mm	0: Direct coupling	0: Without 1: With	0: Without (Housing A only) P/Q/R/T/U (Housing A and intermediate flange); See the following table	0: Without D: With	0: Without M: With	0: Without G: With	0: Without S: With	0: Standard grease (AFB-LF Grease) L: Low dust-generating grease (AFF Grease)
	10: 10 mm		D: 2 blocks (short block)	0120: 120 mm								
		0220: 220 mm		0170: 170 mm								
		0320: 320 mm		0270: 270 mm								
		0420: 420 mm		0370: 370 mm								
		0520: 520 mm	0470: 470 mm									

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.
² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.
³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.
⁴ Sub-table greasing holes are only available on covered products.
⁵ When surface treatment is selected, THK AP-C coating will be applied to the inner block and ball screw. (This treatment is already standard on the outer rail.)

SKR20

SKR26

SKR33

SKR46

KR20

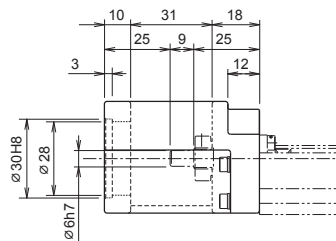
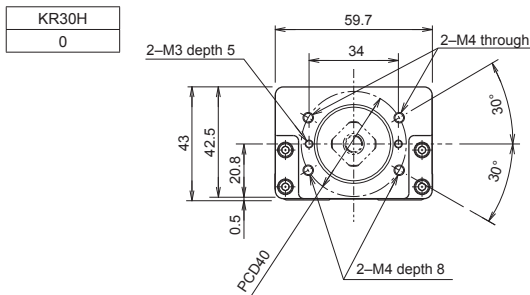
KR26

KR30H

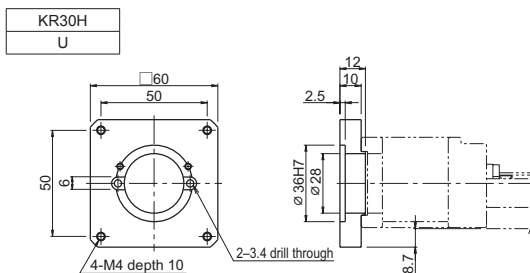
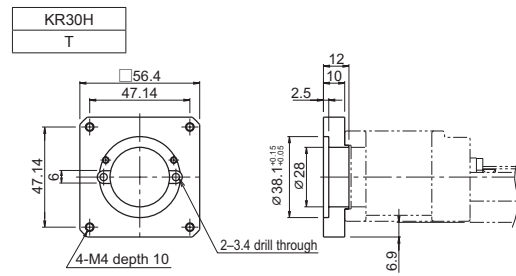
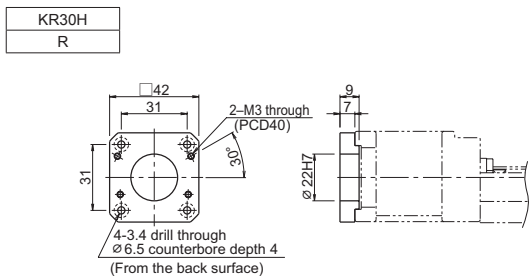
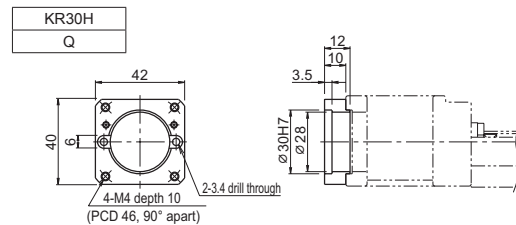
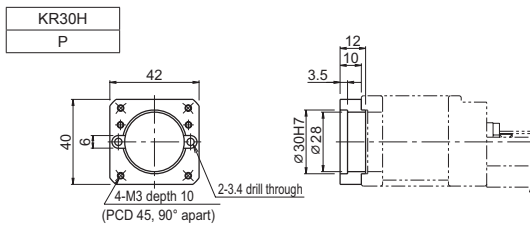
KR45H

KR30H C/D Direct Coupling Dimensional Diagrams for Motor Mounting

Housing A



Intermediate Flange



KR30H C/D Motor Wrapping

Model Number Coding

Wrapping direction details → p. 70

Model No.	Ball screw lead	Block type	Basic Configuration		Direct coupling/ Wrapping	Cover ¹	Motor mounting plate	Semi-Custom Series				
			Stroke					Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)
KR30H	06: 6 mm 10: 10 mm	C: 1 block (short block) D: 2 blocks (short block)	C Type	D Type	R1: Non-standard side wrapping R2: Standard side wrapping R3: Bottom surface wrapping	0: Without 1: With	Wrapping P08K/P08D/P08M Q08K/Q08D/Q08M (Wrapping specifications): See the following table	0: Without	0: Without	0: Without	0: Without	0: Standard grease (AFB-LF Grease) L: Low dust-generating grease (AFF Grease)
			0070: 70 mm	0020: 20 mm				D: With	M: With	G: With	S: With	
	0120: 120 mm	0070: 70 mm										
	0220: 220 mm	0170: 170 mm										
	0320: 320 mm	0270: 270 mm										
	0420: 420 mm	0370: 370 mm										
0520: 520 mm	0470: 470 mm											

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.
² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.
³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.
⁴ Sub-table greasing holes are only available on covered products.
⁵ When surface treatment is selected, THK AP-C coating will be applied to the inner block and ball screw. (This treatment is already standard on the outer rail.)

Q 08 K

① ② ③

- ①: Motor mounting plate type
 - ②: Motor shaft diameter (mm)
 - ③: Motor shaft securing method
- K: Key
D: Flat
M: Friction fastener

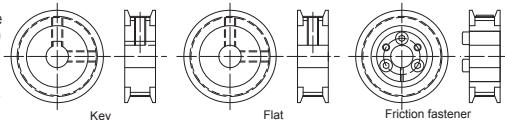


Figure: Motor shaft securing method

KR30H C/D Wrapping Dimensional Diagrams for Motor Mounting

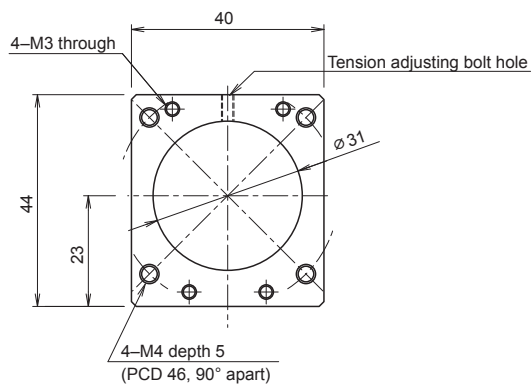
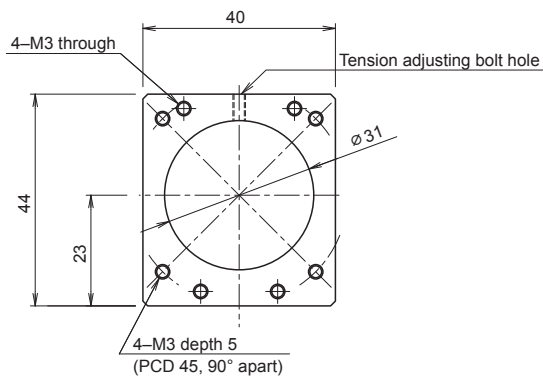
Wrapping Specifications (Motor Mounting Plate)

KR30H P08K/P08D/P08M

Thickness: 5 mm

KR30H Q08K/Q08D/Q08M

Thickness: 5 mm



KR45H A/B Direct Motor Coupling

General Specifications

Motor rated output (W)		200		400			
Ball screw lead (mm)		10	20	10	20		
Rated speed ¹ (mm/s)		500	1000	500	1000		
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.3G	65	—	65	—
			0.5G	65	42	65	59.5
		Vertical	0.3G	18	—	24.5	—
			0.5G	18	8	24.5	18
Rated thrust ³ (N)		361	180	718	359		
Maximum thrust ⁴ (N)		1080	540	2160	1080		

Load Rating

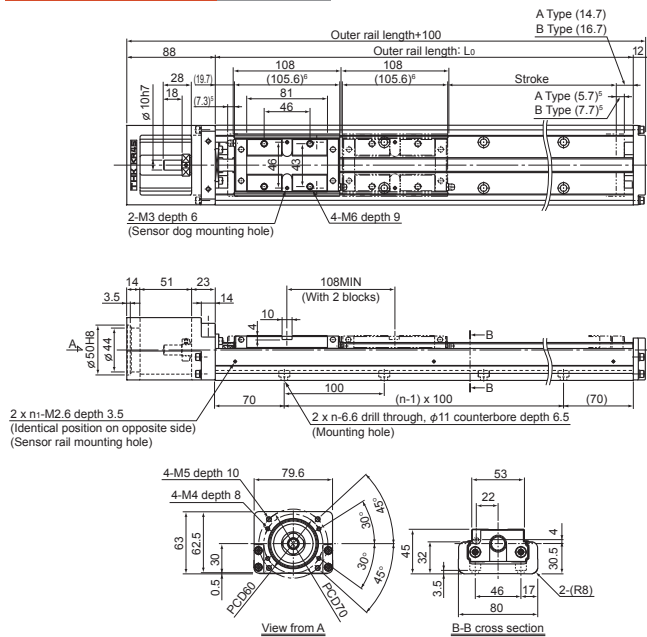
Item		KR45H10	KR45H20
LM Guide unit	Basic dynamic load rating C (N)	23300	
	Basic static load rating C ₀ (N)	39200	
	Radial clearance (mm)	-0.006 to +0.003	
Ball screw unit	Basic dynamic load rating Ca (N)	3140	3040
	Basic static load rating C _{0a} (N)	6760	7150
	Screw shaft diameter (mm)	φ15	
	Ball screw lead (mm)	10	20
Bearing unit (fixed side)	Axial direction	Basic dynamic load rating Ca (N)	6660
		Static permissible load P _{0a} (N)	3240

Motor Used and Applicable Intermediate Flanges

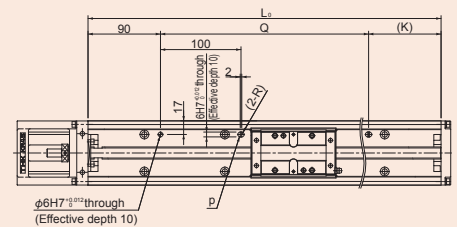
Motor type	Rated output	Flange size	Intermediate flange symbol
Yaskawa Electric Corporation	Σ-V	50W	Q
			Q
		100W	Q
			Q
	Σ-7	150W	Q
			Q
		200W	0
			0
	Σ-7	400W	0
			0
		600W	0
			0
	Σ-7	50W	Q
			Q

Motor type	Rated output	Flange size	Intermediate flange symbol	
Yaskawa Electric Corporation	Σ-7	100W	Q	
			Q	
		150W	Q	
			Q	
		200W	0	
			0	
	400W	0		
		0		
	600W	0		
		0		
	Mitsubishi Electric Corporation	J3	50W	Q
				Q
			100W	Q
				Q
200W			0	
			0	
400W		0		
		0		
J4		50W	Q	
			Q	
		100W	Q	
			Q	
		200W	0	
			0	
400W	0			
	0			
JN	50W	Q		
		Q		
	100W	Q		
		Q		
	200W	0		
		0		
400W	0			
	0			
Tamagawa Seiki Co., Ltd.	TBL-III	50W	Q	
			Q	
		100W	Q	
			Q	
	TBL-IV	30W	Q	
			Q	
		50W	Q	
			Q	
		200W	0	
			0	

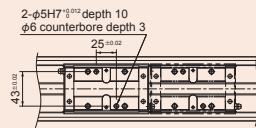
Uncovered Type



Customization: Dowel Pin Holes



Outer rail dowel pin holes



Inner block dowel pin holes

Specification Table (Uncovered/Covered)

Stroke (mm) (Stroke between mechanical stoppers)	A Type								
	B Type ⁷		200 (213)	300 (313)	400 (413)	500 (513)	600 (613)	700 (713)	800 (813)
Maximum speed ⁵ (mm/s)	Ball screw lead	10 mm	500 (520)						430
	20 mm	1000 (1050)						840	
Dimensions (mm)	Outer rail length: L ₀	340	440	540	640	740	840	940	
	F	200	400	400	600	600	800	800	
	H	70	20	70	20	70	20	70	
	Q	—	—	360	460	560	660	760	
	K	—	—	90	90	90	90	90	
No. of elongated holes	p	1	1	2	2	2	2	2	
No. of mounting holes	n	3	4	5	6	7	8	9	
	n ₁	2	3	3	4	4	5	5	
Mass (kg)	Uncovered	A Type	5.4	6.5	7.5	8.6	9.7	10.7	11.8
		B Type	6.4	7.5	8.5	9.6	10.7	11.7	12.8
	Covered	A Type	6.4	7.6	8.7	9.9	11	12.2	13.3
		B Type	7.8	9	10.1	11.3	12.4	13.6	14.7

¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (A Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque, or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates the block length when calculating the possible stroke range. It is 213.6 mm for a KR45H with 2 blocks in close contact with each other (B Type).
⁷ This indicates a value when 2 blocks are in close contact with each other.
⁸ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

Motor type		Rated output	Flange size	Intermediate flange symbol				
AC servo motor	Panasonic Corporation	MINAS	A5	MSMD5A	50W	□38	P	
				MSME5A	100W	P		
				MSMD01	200W	P		
				MSME01	400W	P		
				MSMD02	Y			
		A6	MSME02	Y				
			MSMD04	Y				
			MSME04	Y				
			MSMF5A	Y				
			MHMF5A	Y				
	Keyence Corporation	SV	SV-M005	50W	□38	P		
			SV-M010	100W	□38	P		
			SV-M020	200W	□40	Q		
			SV-M040	400W	□40	Q		
			SV2-M005	50W	□40	Q		
		SV2	SV2-M010	100W	□40	Q		
			SV2-M020	200W	□60	0		
			SV2-M040	400W	□60	0		
			Sanyo Denki Co., Ltd.	SANMOTION R	R2□A04003	30W	□40	Q
					R2□A04005	50W	Q	
R2EA04008	80W	Q						
R2□A04010	100W	Q						
R2□A06020	200W	□60			0			
R2AA06040	400W	0						
OMRON Corporation	OMNUC G5	R88M-K05030			50W	□40	Q	
		R88M-K10030			100W	Q		
		R88M-K20030			200W	□60	Y	
		R88M-K40030			400W	Y		
		R88M-1M10030	100W	□40	Q			
	1S	R88M-1M20030	200W	□60	Y			
		R88M-1M40030	400W	Y				
		Fanuc Corporation	β is series	βis0.2/5000	50W	□40	Q	
				βis0.3/5000	100W	Q		

Motor type		Flange size	Intermediate flange symbol			
Stepper motor	Oriental Motor	αStep	AZ6°, AR6*	□60	U	
		CRK	CRK56	□60	U	
		RKII	RKS56*	□60	U	
		PKA	PKA566	□60	U	
		CVK	PKP56	□60	U	
	Sanyo Denki Co., Ltd.	5-phase	PB	PBDM60°, PBA**60*	□60	U
			FAF56*/FDF56*/FA512M60/FA512M60	□60	U	
		Keyence Corporation	2-phase	DB16H78*	□60	U
			2-phase	QS-M60	□60	U

Detailed Specifications

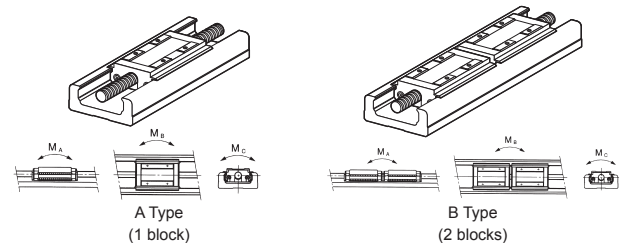
Recommended coupling	SFC-030DA2/SFC-035DA2 (Miki Pulley Co., LTD.) φ10 to 14
Outer diameter of ball screw shaft end (mm)	φ10h7
Permissible input torque (N·m)	Ball screw lead 10, 20 mm 5.3

Note) The recommended coupling is for use with a servo motor. Please refer to the optimal product selection tool when using a stepper motor.

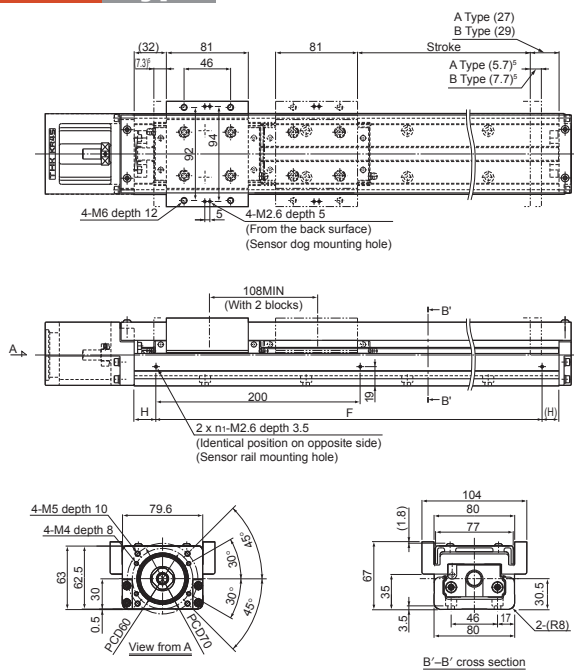
Static Permissible Moment

Unit: N·m

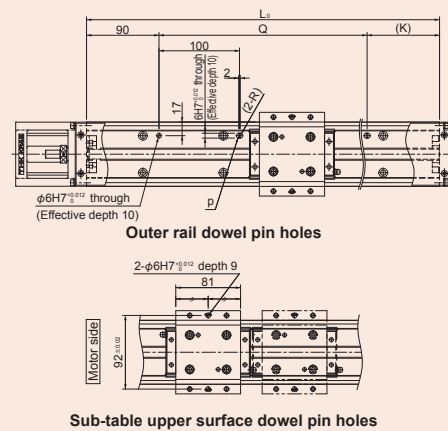
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
KR45H	A	486	486	925
	B	2732	2732	1850



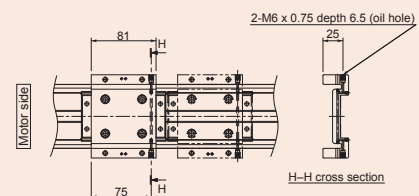
Covered Type



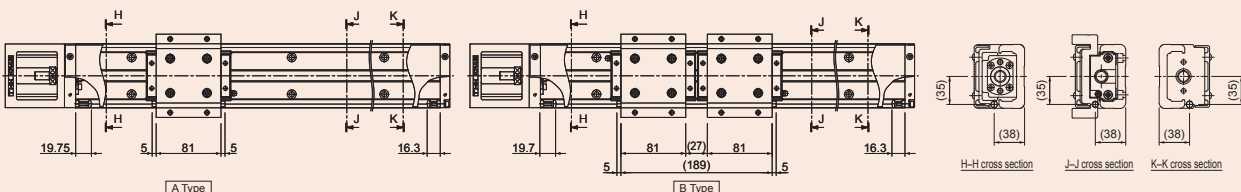
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



KR45H A/B Motor Wrapping

General Specifications

Motor rated output (W)			200		400		
Ball screw lead (mm)			10	20	10	20	
Rated speed ¹ (mm/s)			500	1000	500	1000	
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.3G	65	—	65	
			0.5G	65	31	65	
		Vertical	0.3G	18	—	18.5	—
			0.5G	18	8	18	18
Rated thrust ³ (N)			361	180	718	359	
Maximum thrust ⁴ (N)			1080	540	2160	1080	

Load Rating

Item		KR45H10	KR45H20
LM Guide unit	Basic dynamic load rating C (N)	23300	
	Basic static load rating C ₀ (N)	39200	
	Radial clearance (mm)	-0.006 to +0.003	
Ball screw unit	Basic dynamic load rating Ca (N)	3140	3040
	Basic static load rating C _{0a} (N)	6760	7150
	Screw shaft diameter (mm)	φ15	
	Ball screw lead (mm)	10	20
	Bearing unit (fixed side)	Static permissible load P _{0a} (N)	6660
Axial direction	Static permissible load P _{0a} (N)	3240	

Motor Used and Wrapping Symbol

Motor type		Rated output	Flange size	Wrapping symbol
Yaskawa Electric Corporation	Σ-V	SGMJV-02	□60	V14M
		SGMAV-02		V14M
		SGMJV-04		V14M
		SGMAV-04		V14M
		SGMJV-06		V14M
		SGM7J-02		V14M
	Σ-7	SGM7A-02	□60	V14M
		SGM7J-04		V14M
		SGM7A-04		V14M
		SGM7J-06		V14M
		SGM7A-06		V14M
		SGM7J-06		V14M
Mitsubishi Electric Corporation	J3	HF-KP23	□60	V14M
		HF-MP43		V14M
		HF-KP43		V14M
		HG-MR23		V14M
		HG-KR23		V14M
		HG-MR43		V14M
	J4	HG-KR43	□60	V14M
		HF-KN23		V14M
		HF-KN43		V14M
		JN		V14M
		TS4607		V14M
		TS4609		V14M
Tamagawa Seiki Co., Ltd.	TBL-III	TSM3202	□60	V14M
		TSM3204		V14M
		TSM3204		V14M
Panasonic Corporation	MINAS A5	MSMD02	□60	Y11M
		MSME02		Y11M
		MSMD04		Y14M
		MSME04		Y14M

SKR20

SKR26

SKR33

SKR46

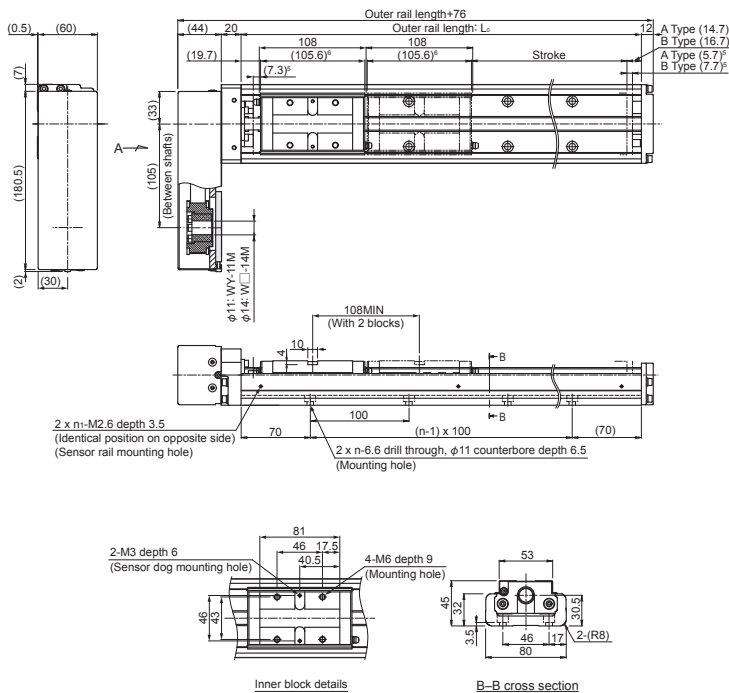
KR20

KR26

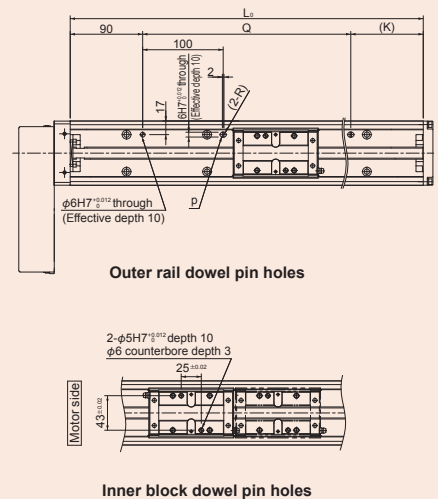
KR30H

KR45H

Uncovered Type



Customization: Dowel Pin Holes



Specification Table (Uncovered/Covered)

Stroke (mm) (Stroke between mechanical stoppers)	A Type		200 (213)	300 (313)	400 (413)	500 (513)	600 (613)	700 (713)	800 (813)	
	B Type ⁷		90 (105)	190 (205)	290 (305)	390 (405)	490 (505)	590 (605)	690 (705)	
Maximum speed ⁵ (mm/s)	Ball screw lead	10 mm	500 (520)							430
	20 mm	840								
Dimensions (mm)	Outer rail length: L ₀	340	440	540	640	740	840	940		
	F	200	400	400	600	600	800	800		
	H	70	20	70	20	70	20	70		
	Q	—	—	360	460	560	660	760		
	K	—	—	90	90	90	90	90		
No. of elongated holes	p	1	1	2	2	2	2	2		
No. of mounting holes	n	3	4	5	6	7	8	9		
	n ₁	2	3	3	4	4	5	5		
Mass (kg)	Uncovered	A Type	6.4	7.4	8.5	9.5	10.6	11.7	12.7	
		B Type	7.4	8.4	9.5	10.5	11.6	12.7	13.7	
	Covered	A Type	7.4	8.5	9.7	10.8	12	13.1	14.2	
		B Type	8.8	9.9	11.1	12.2	13.4	14.5	15.6	

¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (A Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque, or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates the block length when calculating the possible stroke range. It is 213.6 mm for a KR45H with 2 blocks in close contact with each other (B Type).
⁷ This indicates a value when 2 blocks are in close contact with each other.
⁸ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

Wrapping specification details (dimensions of motor mounting plate) ⇨ p. 78

Motor type			Rated output	Flange size	Wrapping symbol	
AC servo motor	Panasonic Corporation	MINAS A6	MSMF02	200W	□60	Y11M
			MHMF02			Y11M
			MSMF04			Y14M
			MHMF04			Y14M
	Keyence Corporation	SV	SV-M020	200W	□60	V14M
			SV-M040			V14M
			SV2-M020			V14M
			SV2-M040			V14M
	Sanyo Denki Co., Ltd.	SANMOTION R	R2□A06020	200W	□60	V14M
			R2AA06040			V14M
	OMRON Corporation	OMNUC G5	R88M-K20030	200W	□60	Y11M
			R88M-K40030			Y14M
R88M-1M20030			Y11M			
R88M-1M40030			Y14M			

Detailed Specifications

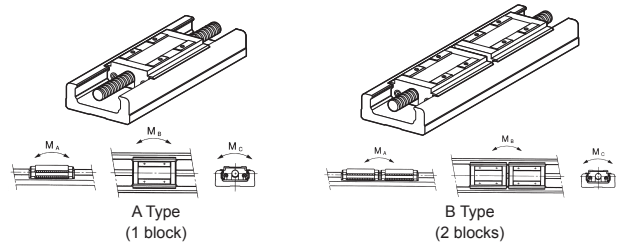
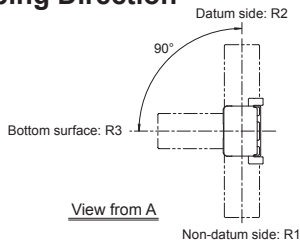
Recommended coupling			—
Outer diameter of ball screw shaft end (mm)			φ10h7
Permissible input torque (N·m)	Ball screw lead	10, 20 mm	4.5

Static Permissible Moment

Unit: N·m

Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
KR45H	A	486	486	925
	B	2732	2732	1850

Wrapping Direction



KR

SKR20

SKR26

SKR33

SKR46

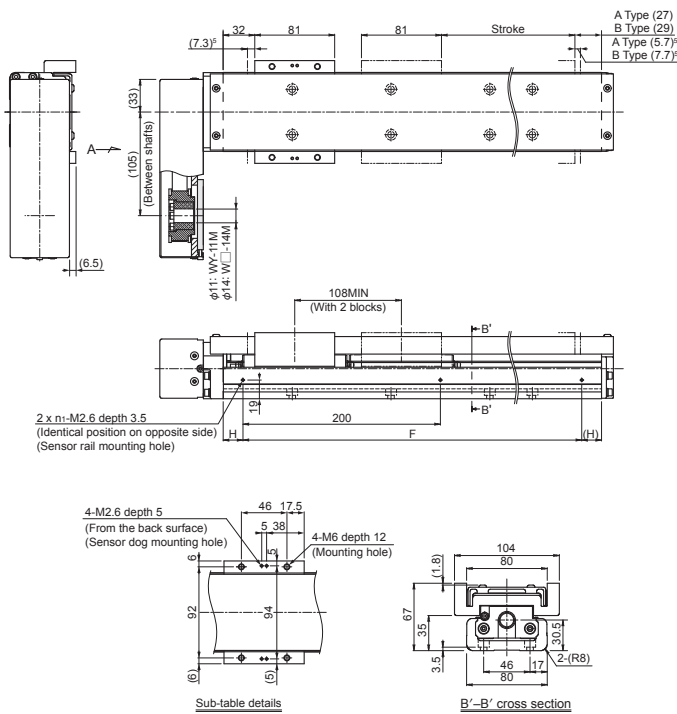
KR20

KR26

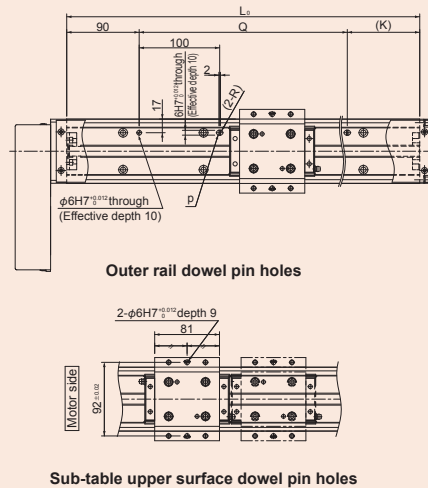
KR30H

KR45H

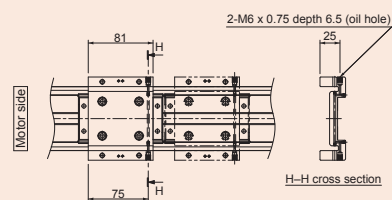
Covered Type



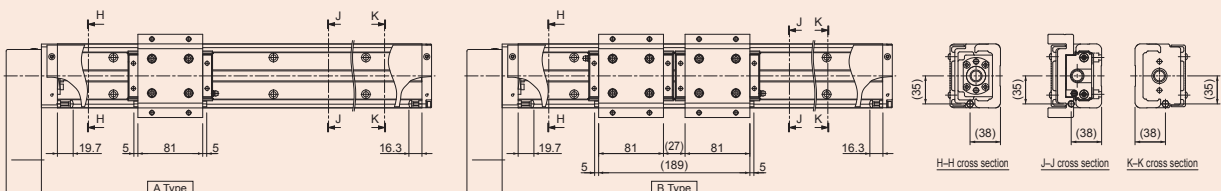
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



KR45H A/B Direct Motor Coupling

Model Number Coding

Model No.	Ball screw lead	Block type	Basic Configuration				Semi-Custom Series					
			Stroke		Direct coupling/ Wrapping	Cover ¹	Housing A/ Intermediate flange	Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)
			A Type	B Type								
KR45H	10: 10 mm 20: 20 mm	A: 1 block B: 2 blocks	0200: 200 mm	0090: 90 mm	0: Direct coupling	0: Without 1: With	0: Without (Housing A only) P/Q/Y/U (Housing A and intermediate flange); See the following table	0: Without D: With	0: Without M: With	0: Without G: With	0: Without S: With	0: Standard grease (AFB-LF Grease) L: Low dust-generating grease (AFF Grease)
			0300: 300 mm	0190: 190 mm								
	0400: 400 mm	0290: 290 mm										
	0500: 500 mm	0390: 390 mm										
	0600: 600 mm	0490: 490 mm										
	0700: 700 mm	0590: 590 mm										
	0800: 800 mm	0690: 690 mm										

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.
² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.
³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.
⁴ Sub-table greasing holes are only available on covered products.
⁵ When surface treatment is selected, THK AP-C coating will be applied to the inner block and ball screw. (This treatment is already standard on the outer rail.)

SKR20

SKR26

SKR33

SKR46

KR20

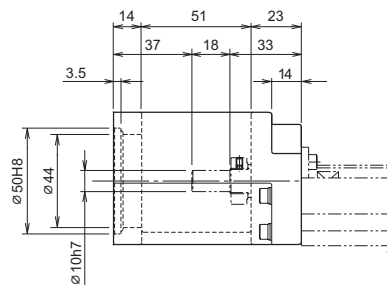
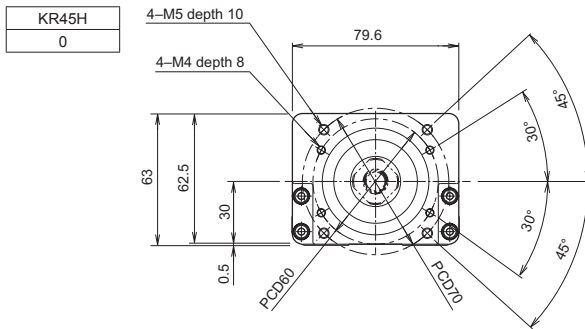
KR26

KR30H

KR45H

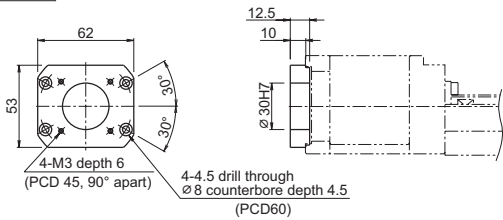
KR45H A/B Direct Coupling Dimensional Diagrams for Motor Mounting

Housing A

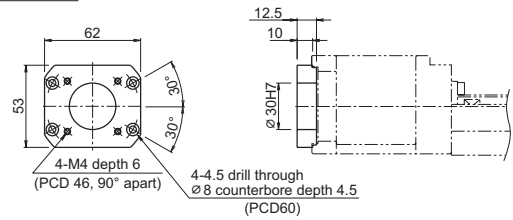


Intermediate Flange

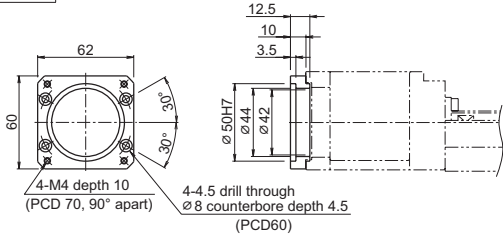
KR45H
P



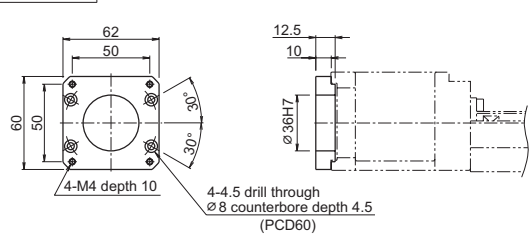
KR45H
Q



KR45H
Y



KR45H
U



KR45H A/B Motor Wrapping

Model Number Coding

Wrapping direction details → p. 76

Basic Configuration						Semi-Custom Series						
Model No.	Ball screw lead	Block type	Stroke		Direct coupling Wrapping	Cover ¹	Motor mounting plate	Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)
KR45H	10: 10 mm	A: 1 block	A Type	B Type	R1: Non-standard side wrapping R2: Standard side wrapping R3: Bottom surface wrapping	0: Without 1: With	Wrapping V14M Y11M / Y14M (Wrapping specifications): See the following table	0: Without	0: Without	0: Without	0: Without	0: Standard grease (AFB-LF Grease) L: Low dust-generating grease (AFF Grease)
	20: 20 mm	B: 2 blocks	0200: 200 mm	0090: 90 mm				D: With	M: With	G: With	S: With	
			0300: 300 mm	0190: 190 mm								
			0400: 400 mm	0290: 290 mm								
			0500: 500 mm	0390: 390 mm								
			0600: 600 mm	0490: 490 mm								
			0700: 700 mm	0590: 590 mm								
			0800: 800 mm	0690: 690 mm								

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.

² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.

³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.

⁴ Sub-table greasing holes are only available on covered products.

⁵ When surface treatment is selected, THK AP-C coating will be applied to the inner block and ball screw. (This treatment is already standard on the outer rail.)

V 14 M

- ① ② ③

- ①: Motor mounting plate type
②: Motor shaft diameter (mm)
③: Motor shaft securing method
M: Friction fastener

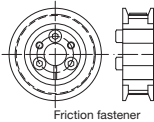


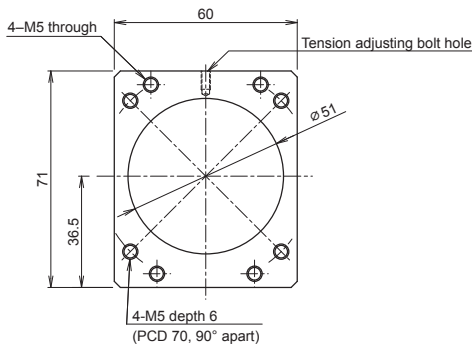
Figure: Motor shaft securing method

KR45H A/B Wrapping Dimensional Diagrams for Motor Mounting

Wrapping Specifications (Motor Mounting Plate)

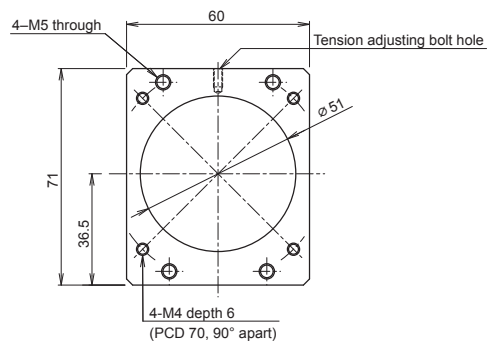
KR45H
V14M

Thickness: 6 mm



KR45H
Y11M / Y14M

Thickness: 6 mm



KR45H C/D Direct Motor Coupling

General Specifications

Motor rated output (W)		200		400			
Ball screw lead (mm)		10	20	10	20		
Rated speed ¹ (mm/s)		500	1000	500	1000		
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.3G	47	—	47	
			0.5G	38.5	21.5	38.5	21.5
		Vertical	0.3G	9.5	—	9.5	—
			0.5G	9.5	5.5	9.5	7.5
Rated thrust ³ (N)		361	180	718	359		
Maximum thrust ⁴ (N)		1080	540	2160	1080		

Load Rating

Item		KR45H10	KR45H20
LM Guide unit	Basic dynamic load rating C (N)	11900	
	Basic static load rating C ₀ (N)	19600	
	Radial clearance (mm)	-0.006 to +0.003	
Ball screw unit	Basic dynamic load rating Ca (N)	3140	3040
	Basic static load rating C _{0a} (N)	6760	7150
	Screw shaft diameter (mm)	φ15	
	Ball screw lead (mm)	10	20
Bearing unit (fixed side)	Axial direction	Basic dynamic load rating Ca (N)	6660
		Static permissible load P _{0a} (N)	3240

Motor Used and Applicable Intermediate Flanges

Motor type	Rated output	Flange size	Intermediate flange symbol
Yaskawa Electric Corporation	Σ-V	50W	Q
			Q
		100W	Q
			Q
		150W	0
			0
	200W	0	
		0	
	400W	0	
		0	
	600W	0	
		0	
	Σ-7	50W	Q
			Q

Motor type	Rated output	Flange size	Intermediate flange symbol	
Yaskawa Electric Corporation	Σ-7	100W	Q	
			Q	
		150W	Q	
			Q	
		200W	0	
			0	
	400W	0		
		0		
	600W	0		
		0		
	Mitsubishi Electric Corporation	J3	50W	Q
				Q
			100W	Q
				Q
200W			0	
			0	
400W		0		
		0		
J4		50W	Q	
			Q	
		100W	Q	
			Q	
		200W	0	
			0	
400W	0			
	0			
JN	50W	Q		
		Q		
	100W	Q		
		Q		
	200W	0		
		0		
400W	0			
	0			
Tamagawa Seiki Co., Ltd.	TBL-III	50W	Q	
			Q	
		100W	Q	
			Q	
		150W	0	
			0	
	200W	0		
		0		
	TBL-IV	30W	Q	
			Q	
		50W	Q	
			Q	
100W		0		
		0		
200W	0			
	0			

SKR20

SKR26

SKR33

SKR46

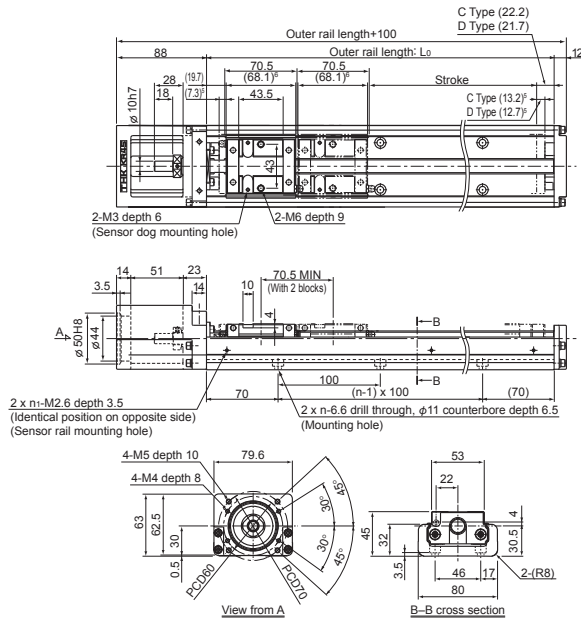
KR20

KR26

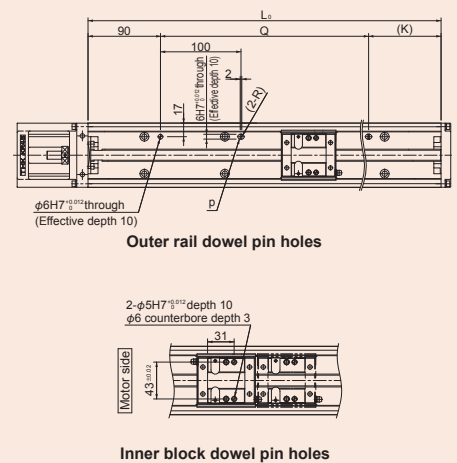
KR30H

KR45H

Uncovered Type



Customization: Dowel Pin Holes



Specification Table (Uncovered/Covered)

Stroke (mm) (Stroke between mechanical stoppers)	C Type		230 (250.5)	330 (350.5)	430 (450.5)	530 (550.5)	630 (650.5)	730 (750.5)	830 (850.5)		
	D Type ⁷		160 (180)	260 (280)	360 (380)	460 (480)	560 (580)	660 (680)	760 (780)		
Maximum speed ⁸ (mm/s)	Ball screw lead	10 mm	500 (520)							490	380
		20 mm	1000 (1050)							980	770
Dimensions (mm)	Outer rail length: L ₀		340	440	540	640	740	840	940		
	F		200	400	400	600	600	800	800		
	H		70	20	70	20	70	20	70		
	Q		—	—	360	460	560	660	760		
	K		—	—	90	90	90	90	90		
No. of elongated holes	p		1	1	2	2	2	2	2		
No. of mounting holes	n		3	4	5	6	7	8	9		
	n ₁		2	3	3	4	4	5	5		
Mass (kg)	Uncovered	C Type	5	6.1	7.1	8.2	9.3	10.3	11.4		
		D Type	5.6	6.7	7.7	8.8	9.9	10.9	12		
	Covered	C Type	5.8	7	8.1	9.3	10.4	11.6	12.7		
		D Type	6.6	7.8	8.9	10.1	11.2	12.4	13.5		

¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (C Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque, or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates the block length when calculating the possible stroke range. It is 138.6 mm for a KR45H with 2 blocks in close contact with each other (D Type).
⁷ This indicates a value when 2 blocks are in close contact with each other.
⁸ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

Motor type		Rated output	Flange size	Intermediate flange symbol			
AC servo motor	Panasonic Corporation	MINAS	A5	MSMD5A	50W	□38	P
				MSME5A	100W	P	
				MSMD01	200W	P	
				MSME01	400W	P	
				MSMD02	Y		
		A6	MSME02	Y			
			MSMD04	Y			
			MSME04	Y			
			MSMF5A	50W	□38	P	
			MHMF5A	□40	Q		
	Keyence Corporation	SV	SV2	MSMF01	100W	□38	P
				MHMF01	□40	Q	
				MSMF02	200W	Y	
				MHMF02	Y		
				MSMF04	400W	Y	
		SV2	MHMF04	Y			
			SV-M005	50W	□40	Q	
			SV-M010	100W	Q		
			SV-M020	200W	0		
			SV-M040	400W	0		
Sanyo Denki Co., Ltd.	SANMOTION R	R	SV2-M005	50W	□40	Q	
			SV2-M010	100W	Q		
			SV2-M020	200W	0		
			SV2-M040	400W	0		
			R2□A04003	30W	□40	Q	
			R2□A04005	50W	Q		
			R2EA04008	80W	Q		
			R2□A04010	100W	Q		
OMRON Corporation	OMNUC G5	G5	R2□A06020	200W	□60	0	
			R2AA06040	400W	0		
			R88M-K05030	50W	□40	Q	
			R88M-K10030	100W	Q		
	1S	1S	R88M-K20030	200W	□60	Y	
			R88M-K40030	400W	Y		
			R88M-1M10030	100W	□40	Q	
			R88M-1M20030	200W	□60	Y	
Fanuc Corporation	β is series	β is series	R88M-1M40030	400W	□60	Y	
			βis0.2/5000	50W	□40	Q	
βis0.3/5000	100W	Q					

Motor type		Flange size	Intermediate flange symbol			
Stepper motor	Oriental Motor	αStep	AZ6°, AR6*	□60	U	
		CRK	CRK56	□60	U	
		RKII	RKS56*	□60	U	
		PKA	PKA566	□60	U	
		CVK	PKP56	□60	U	
	Sanyo Denki Co., Ltd.	5-phase	PB	PBDM60°, PBA**60*	□60	U
			FAF56*/FDF56*/FA512M60/FA512M60	□60	U	
		2-phase	DB16H78*	□60	U	
			QS-M60	□60	U	
		Keyence Corporation	2-phase	QS-M60	□60	U

Detailed Specifications

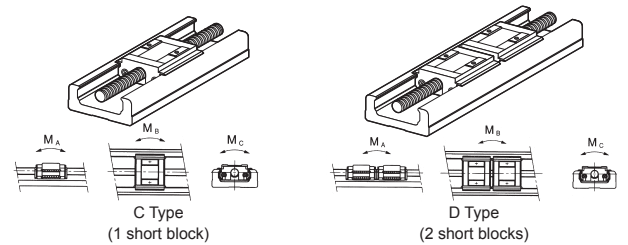
Recommended coupling	SFC-030DA2/SFC-035DA2 (Miki Pulley Co., LTD.) φ10 to 14
Outer diameter of ball screw shaft end (mm)	φ10h7
Permissible input torque (N·m)	Ball screw lead 10, 20 mm 5.3

Note) The recommended coupling is for use with a servo motor. Please refer to the optimal product selection tool when using a stepper motor.

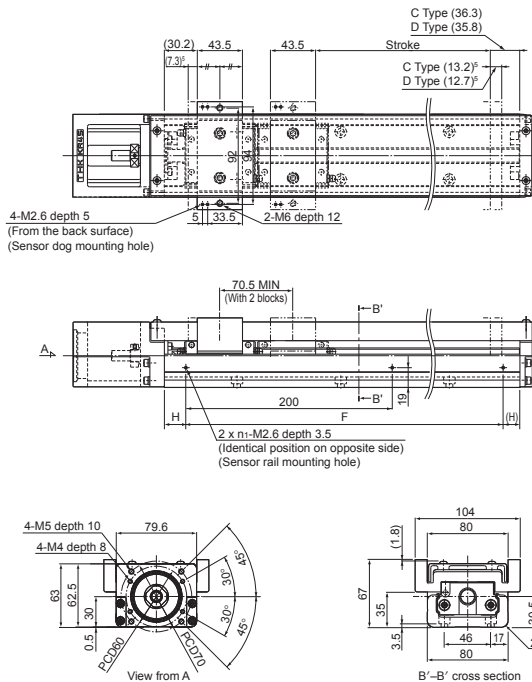
Static Permissible Moment

Unit: N·m

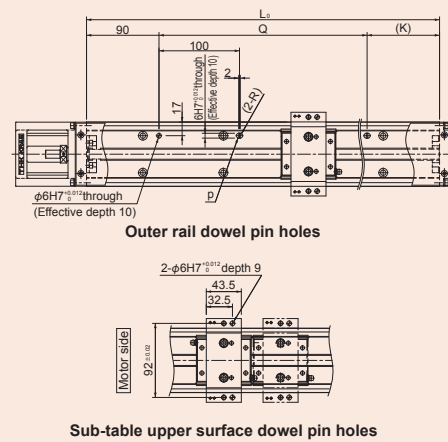
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
KR45H	C	130	130	463
	D	994	994	925



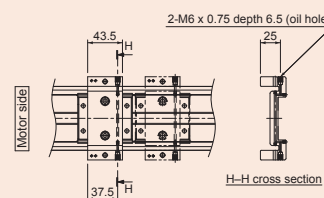
Covered Type



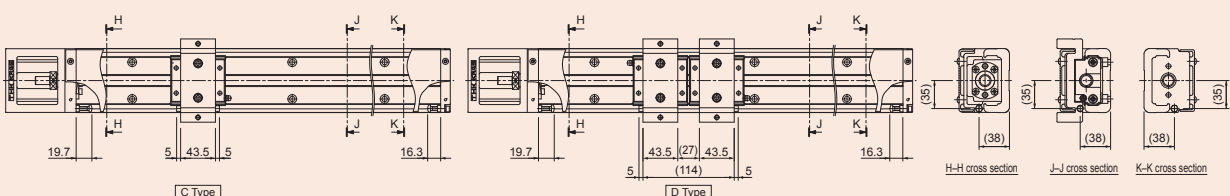
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



KR45H C/D Motor Wrapping

General Specifications

Motor rated output (W)		200		400	
Ball screw lead (mm)		10	20	10	20
Rated speed ¹ (mm/s)		500	1000	500	1000
Maximum load capacity ² (kg)	Acceleration/ deceleration	Horizontal	0.3G	47	47
			0.5G	38.5	21.5
	Vertical	0.3G	9.5	9.5	—
		0.5G	9.5	5.5	9.5
Rated thrust ³ (N)		361	180	718	359
Maximum thrust ⁴ (N)		1080	540	2160	1080

Load Rating

Item		KR45H10	KR45H20
LM Guide unit	Basic dynamic load rating C (N)	11900	
	Basic static load rating C ₀ (N)	19600	
	Radial clearance (mm)	-0.006 to +0.003	
Ball screw unit	Basic dynamic load rating Ca (N)	3140	3040
	Basic static load rating C _{0a} (N)	6760	7150
	Screw shaft diameter (mm)	φ15	
	Ball screw lead (mm)	10	20
	Bearing unit (fixed side)	Basic dynamic load rating Ca (N)	6660
Axial direction	Static permissible load P _{0a} (N)	3240	

Motor Used and Wrapping Symbol

Motor type		Rated output	Flange size	Wrapping symbol
Yaskawa Electric Corporation	Σ-V	SGMJV-02	□60	V14M
		SGMAV-02		V14M
		SGMJV-04		V14M
		SGMAV-04		V14M
		SGMJV-06		V14M
		SGM7J-02		V14M
	Σ-7	SGM7A-02	□60	V14M
		SGM7J-04		V14M
		SGM7A-04		V14M
		SGM7J-06		V14M
		HF-MP23		V14M
		HF-KP23		V14M
Mitsubishi Electric Corporation	J3	HF-MP43	□60	V14M
		HF-KR43		V14M
		HG-MR23		V14M
		HG-KR23		V14M
		HG-MR43		V14M
		HG-KR43		V14M
	J4	HF-KN23	□60	V14M
		HF-KN43		V14M
		TS4607		V14M
		TSM3202		V14M
		TSM3204		V14M
		MSMD02		V11M
Tamagawa Seiki Co., Ltd.	TBL-III	MSME04	□60	V11M
		MSME02		V14M
	TBL-IV	MSMD04		V14M
		MSME04		V14M
Panasonic Corporation	MINAS A5	MSMD02	□60	V11M
		MSME02		V11M
		MSMD04		V14M
		MSME04		V14M

SKR20

SKR26

SKR33

SKR46

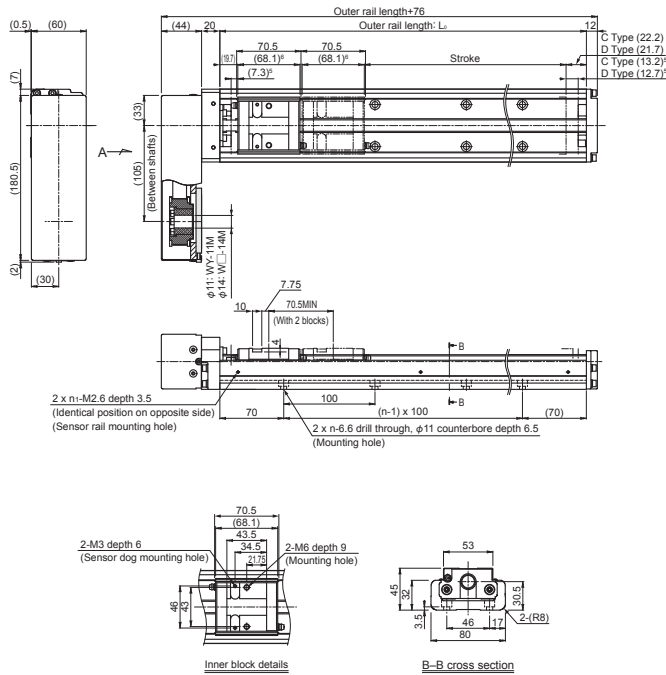
KR20

KR26

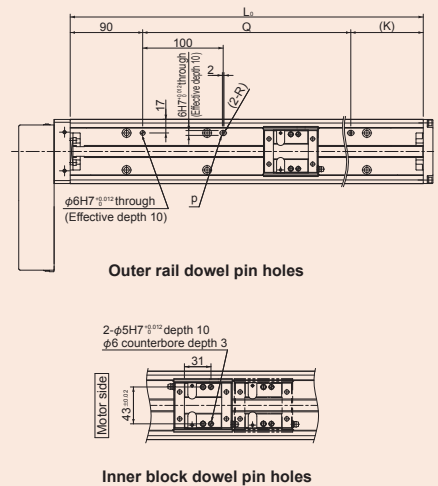
KR30H

KR45H

Uncovered Type



Customization: Dowel Pin Holes



Specification Table (Uncovered/Covered)

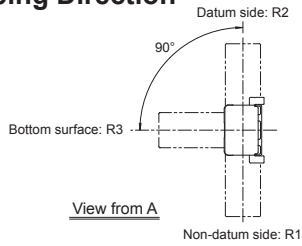
Stroke (mm) (Stroke between mechanical stoppers)	C Type		230 (250.5)	330 (350.5)	430 (450.5)	530 (550.5)	630 (650.5)	730 (750.5)	830 (850.5)	
	D Type ⁷		160 (180)	260 (280)	360 (380)	460 (480)	560 (580)	660 (680)	760 (780)	
Maximum speed ⁸ (mm/s)	Ball screw lead	10 mm	500 (520)						490	380
		20 mm	1000 (1050)						980	770
Dimensions (mm)	Outer rail length: L ₀		340	440	540	640	740	840	940	
	F		200	400	400	600	600	800	800	
	H		70	20	70	20	70	20	70	
	Q		—	—	360	460	560	660	760	
	K		—	—	90	90	90	90	90	
No. of elongated holes	p		1	1	2	2	2	2	2	
No. of mounting holes	n		3	4	5	6	7	8	9	
	n ₁		2	3	3	4	4	5	5	
Mass (kg)	Uncovered	C Type	6	7	8.1	9.1	10.2	11.3	12.3	
		D Type	6.6	7.6	8.7	9.7	10.8	11.9	12.9	
	Covered	C Type	6.8	7.9	9.1	10.2	11.4	12.5	13.6	
		D Type	7.6	8.7	9.9	11	12.2	13.3	14.4	

¹ The rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).
² The maximum load capacity refers to a guideline load capacity for 1 block (C Type) at the rated speed.
³ The rated thrust refers to the thrust force at the rated motor torque.
⁴ The maximum thrust refers to values when the motor is at maximum peak torque, or when otherwise restricted by the permissible load.
⁵ This is the distance between the mechanical stopper and the stroke starting position.
⁶ This indicates the block length when calculating the possible stroke range. It is 138.6 mm for a KR45H with 2 blocks in close contact with each other (D Type).
⁷ This indicates a value when 2 blocks are in close contact with each other.
⁸ The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw. However, those within brackets are the motor rotational speed (at 6,000 min⁻¹). When used at speeds higher than the rated speed, the acceptable load will differ.

Wrapping specification details (dimensions of motor mounting plate) ⇒ p. 84

Motor type			Rated output	Flange size	Wrapping symbol	
AC servo motor	Panasonic Corporation	MINAS A6	MSMF02	200W	□60	Y11M
			MHMF02			Y11M
			MSMF04			Y14M
			MHMF04			Y14M
	Keyence Corporation	SV	SV-M020	200W	□60	V14M
			SV-M040			V14M
			SV2-M020			V14M
			SV2-M040			V14M
	Sanyo Denki Co., Ltd.	SANMOTION R	R2□A06020	200W	□60	V14M
			R2AA06040			V14M
			R88M-K20030			Y11M
			R88M-K40030			Y14M
OMRON Corporation	OMNUC G5	R88M-1M20030	200W	□60	Y11M	
		R88M-1M40030			Y14M	
		R88M-1M20030			Y11M	
		R88M-1M40030			Y14M	

Wrapping Direction



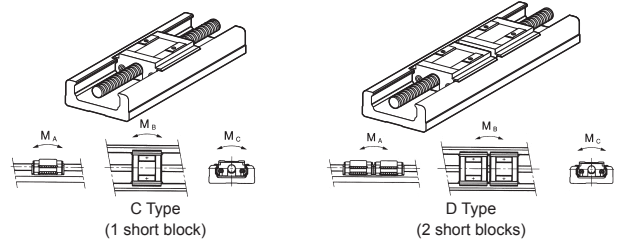
Detailed Specifications

Recommended coupling			—
Outer diameter of ball screw shaft end (mm)			φ10h7
Permissible input torque (N·m)	Ball screw lead	10, 20 mm	4.5

Static Permissible Moment

Unit: N·m

Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
KR45H	C	130	130	463
	D	994	994	925



KR

SKR20

SKR26

SKR33

SKR46

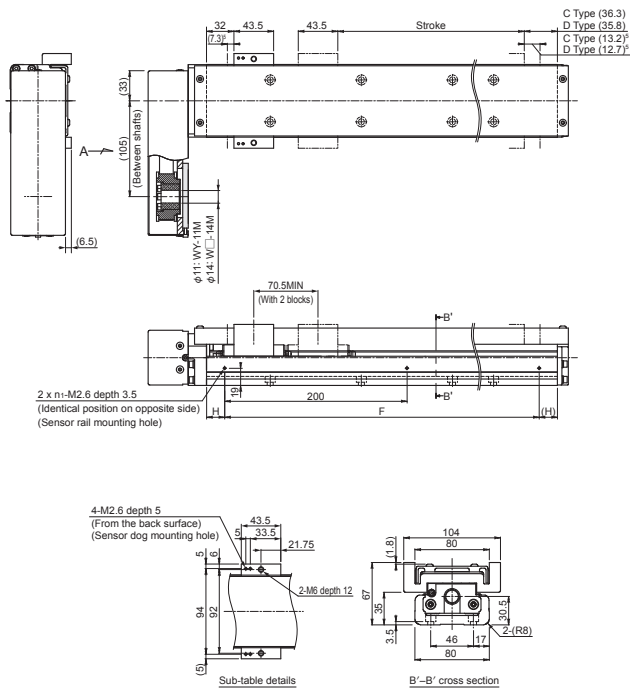
KR20

KR26

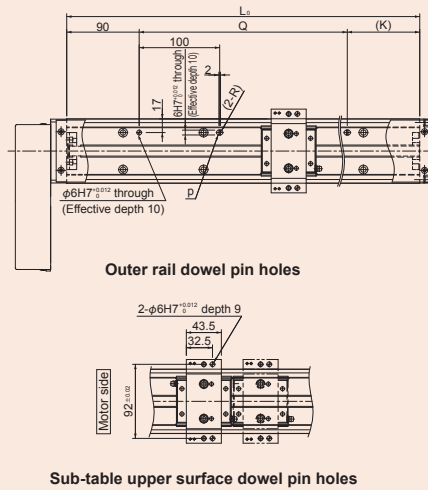
KR30H

KR45H

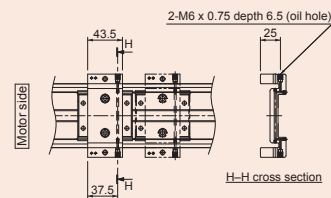
Covered Type



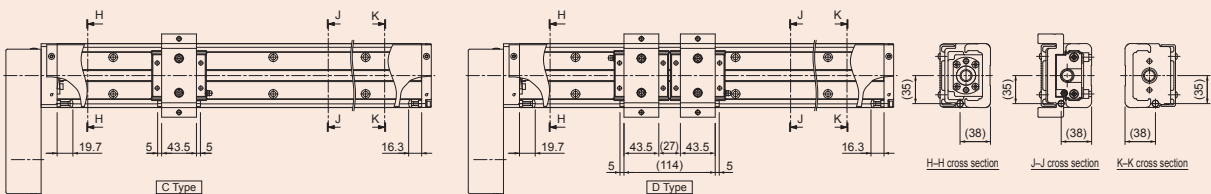
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



KR45H C/D Direct Motor Coupling

Model Number Coding

Model No.	Ball screw lead	Block type	Basic Configuration				Semi-Custom Series											
			Stroke		Direct coupling/ Wrapping	Cover ¹	Housing A/ Intermediate flange	Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)						
			C Type	D Type														
KR45H	10: 10 mm	C: 1 block (short block)	0230: 230 mm	0160: 160 mm	0: Direct coupling	0: Without (Housing A only)	0: Without (Housing A only)	0: Without	0: Without	0: Without	0: Without	0: Standard grease (AFB-LF Grease)						
	20: 20 mm		0330: 330 mm	0260: 260 mm									1: With	P/Q/Y/U (Housing A and intermediate flange); See the following table	D: With	M: With	G: With	S: With
	D: 2 blocks (short block)	0430: 430 mm	0360: 360 mm	0530: 530 mm		0460: 460 mm												
		0630: 630 mm	0560: 560 mm	0730: 730 mm		0660: 660 mm												
		0830: 830 mm	0760: 760 mm															

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.
² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.
³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.
⁴ Sub-table greasing holes are only available on covered products.
⁵ When surface treatment is selected, THK AP-C coating will be applied to the inner block and ball screw. (This treatment is already standard on the outer rail.)

SKR20

SKR26

SKR33

SKR46

KR20

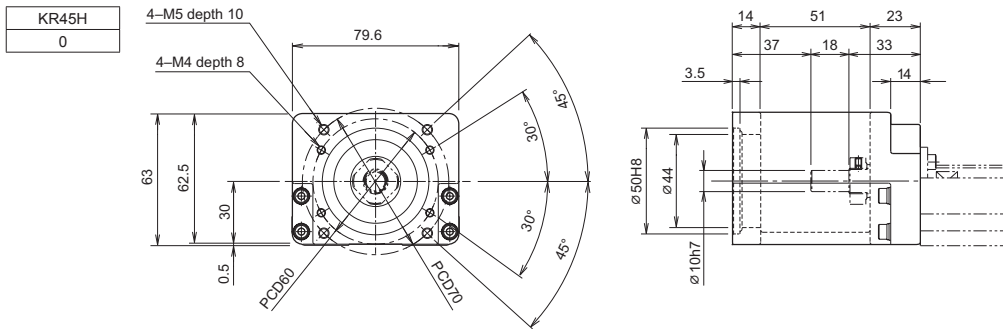
KR26

KR30H

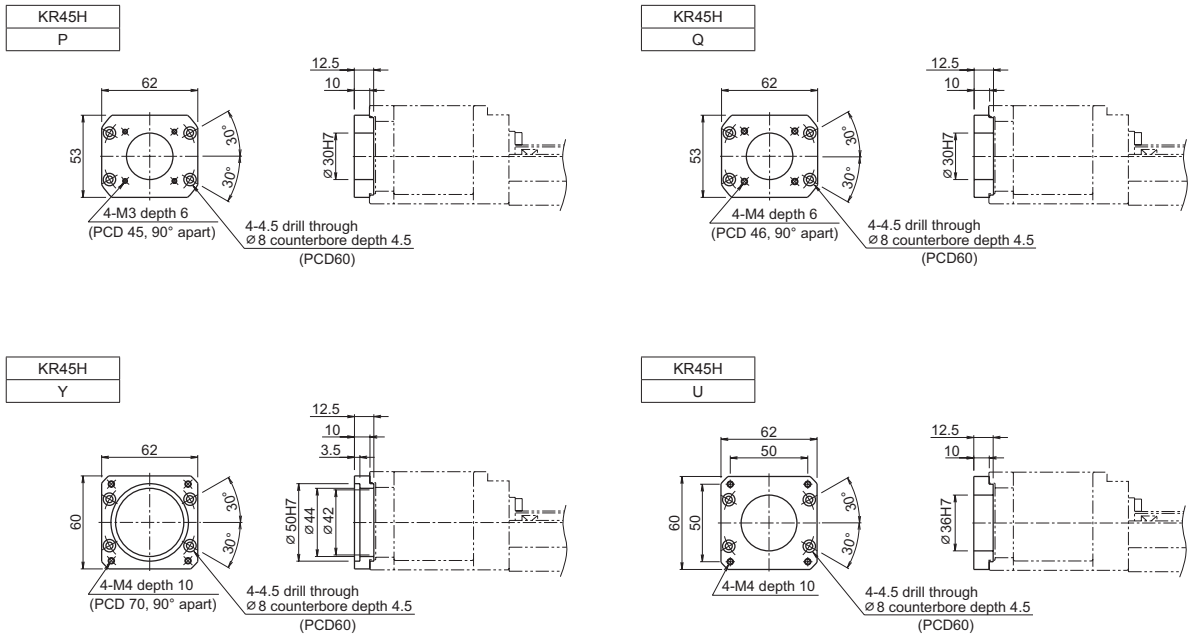
KR45H

KR45H C/D Direct Coupling Dimensional Diagrams for Motor Mounting

Housing A



Intermediate Flange



KR45H C/D Motor Wrapping

Model Number Coding

Wrapping direction details → p. 82

Model No.	Ball screw lead	Block type	Stroke		Direct coupling/ Wrapping	Cover ¹	Motor mounting plate	Semi-Custom Series				
			C Type	D Type				Dowel pin holes ²	Positioning metal bolts ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease (AFF)
KR45H	10: 10 mm	C: 1 block (short block)	0230: 230 mm	0160: 160 mm	R1: Non-standard side wrapping R2: Standard side wrapping R3: Bottom surface wrapping	0: Without 1: With	Wrapping V14M Y11M / Y14M (Wrapping specifications): See the following table	0: Without	0: Without	0: Without	0: Without	0: Standard grease (AFB-LF Grease) L: Low dust-generating grease (AFF Grease)
	20: 20 mm		D: 2 blocks (short block)	0330: 330 mm				0260: 260 mm	D: With	M: With	G: With	
		0430: 430 mm		0360: 360 mm								
			0530: 530 mm	0460: 460 mm								
			0630: 630 mm	0560: 560 mm								
			0730: 730 mm	0660: 660 mm								
			0830: 830 mm	0760: 760 mm								

¹ Uncovered products cannot be equipped with metal positioning bolts or sub-table greasing holes. Please select "0" for these fields.
² On uncovered products, dowel pin holes will be machined on the outer rail and inner blocks. On covered products, dowel pin holes will be machined on the outer rail and sub-table.
³ Metal positioning bolts are only available on covered products. Metal positioning bolts will be installed on the sub-table and housing A/B.
⁴ Sub-table greasing holes are only available on covered products.
⁵ When surface treatment is selected, THK AP-C coating will be applied to the inner block and ball screw. (This treatment is already standard on the outer rail.)

V 14 M

- ① ② ③

- ①: Motor mounting plate type
 ②: Motor shaft diameter (mm)
 ③: Motor shaft securing method
 M: Friction fastener

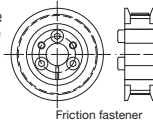


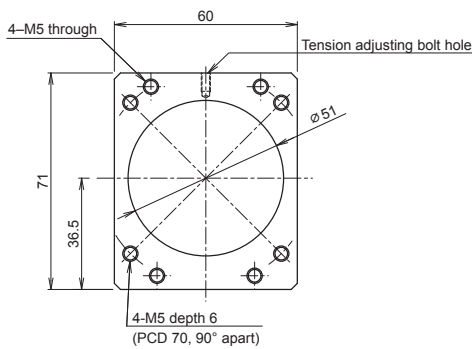
Figure: Motor shaft securing method

KR45H C/D Wrapping Dimensional Diagrams for Motor Mounting

Wrapping Specifications (Motor Mounting Plate)

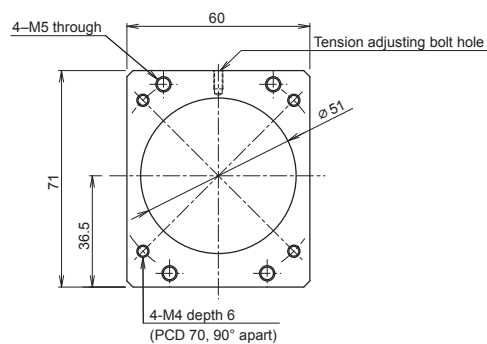
KR45H
V14M

Thickness: 6 mm



KR45H
Y11M / Y14M

Thickness: 6 mm



Handling

- (1) Do not disassemble the parts. This will result in loss of functionality.
- (2) Take care not to drop or strike the parts. Doing so may cause injury or damage. Subjecting it to impacts could also cause damage to its function even if the product looks intact.
- (3) When handling the product, wear protective gloves, safety shoes, etc., as necessary to ensure safety.
- (4) Tilting a sub-table or outer rail may cause it to fall by its own weight.

SKR20

SKR26

SKR33

SKR46

KR20

KR26

KR30H

KR45H

Precautions on Use

- (1) Prevent foreign material, such as cutting chips or coolant, from entering the product. Failure to do so may cause damage.
- (2) If the product is used in an environment where cutting chips, coolant, corrosive solvents, water, etc., may enter the product, use bellows, covers, etc., to prevent them from entering the product.
- (3) If foreign material such as cutting chips adheres to the product, replenish the lubricant after cleaning the product.
- (4) The service temperature range of this product is 0°C to 40°C (no freezing or condensation). If you are considering using this product outside the service temperature range, contact THK.
- (5) Exceeding the critical speed may lead the components to be damaged or cause an accident. Be sure to use the product within the specification range designated by THK.
- (6) Very small strokes can inhibit the formation of an oil film between the raceways and the area of contact for the rolling elements, resulting in fretting. Therefore, be sure to use a type of grease with high fretting resistance properties if the stroke will be small. We recommend periodically allowing the inner block to stroke a distance roughly equal to its length to help ensure that a film forms between the raceways and rolling elements.
- (7) Do not use undue force when inserting parts (pins, keys, etc.) into the product. This may generate permanent deformation on the raceway, leading to loss of functionality.
- (8) Never touch a moving part if the product is operating or in a ready state. In addition, do not enter the operating area of the actuator.
- (9) If two or more people are involved in the operation, confirm the procedure, signals, and any abnormalities in advance, and appoint another person to monitor the operation.
- (10) Insufficient rigidity or accuracy of mounting materials causes the bearing load to concentrate on one point, and the bearing performance will drop significantly. Accordingly, give sufficient consideration to the rigidity/accuracy of the housing and the base and strength of the fixing bolts.
- (11) The motor wrap type does not have a safety device for when the timing belt breaks. For your safety, please install a safety device next to the equipment.

Lubrication

- (1) Thoroughly wipe off the anti-rust oil before using the product.
- (2) Lubrication is needed to let models KR and SKR demonstrate their functions fully. Using the product without sufficient lubrication may increase wear of the rolling elements or shorten the service life. Note the standard grease used in the product as follows.

Models SKR20, SKR26, KR20, KR26	THK AFA Grease
Models SKR33, SKR46, KR30H, KR45H	THK AFB-LF Grease

- (3) Do not mix different lubricants. Mixing greases using the same type of thickening agent may still cause adverse interaction between the two greases if they use different additives, etc.
- (4) When using the product in locations exposed to constant vibrations or in special environments such as in clean rooms, vacuums, and low/high temperatures, you must select a lubricant suitable for its use/environment. Please contact THK.
- (5) When adopting an oil lubrication method, contact THK.
- (6) Because the intervals between greasing vary depending on the conditions of product use, it is recommended that the greasing interval be determined through an initial inspection. Although the lubrication interval may vary according to use conditions and the service environment, lubrication should be performed approximately every 100 km in travel distance (three to six months). Set the final lubrication interval/amount based on the actual machine.
- (7) The consistency of grease changes according to the temperature. Take note that the sliding resistance of models KR and SKR also changes as the consistency of grease changes.
- (8) After lubrication, the slide resistance of models KR and SKR may increase due to the stirring resistance of grease. Be sure to perform a warm-up operation to let the grease spread fully before operating the machine.
- (9) Excess grease may spatter immediately after lubrication, so wipe off spattered grease as necessary.
- (10) The properties of grease deteriorate and its lubrication performance drops over time, so grease must be checked and added properly according to the machine's frequency of use.

Storage

When storing models KR and SKR, enclose them in a package designated by THK and store them in a room in a horizontal orientation while avoiding high temperatures, low temperatures, and high humidity.

After the product has been in storage for an extended period of time, the lubricant inside may have deteriorated, so add new lubricant before use.

Disposal

Dispose of the product properly as industrial waste.

Instruction Manual

You can download the "LM Guide Actuator Models KR/SKR -- Instruction Manual" from the THK technical support website.

Shipped from Japan in as little as 10 days - Semi-custom - SKR/KR

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