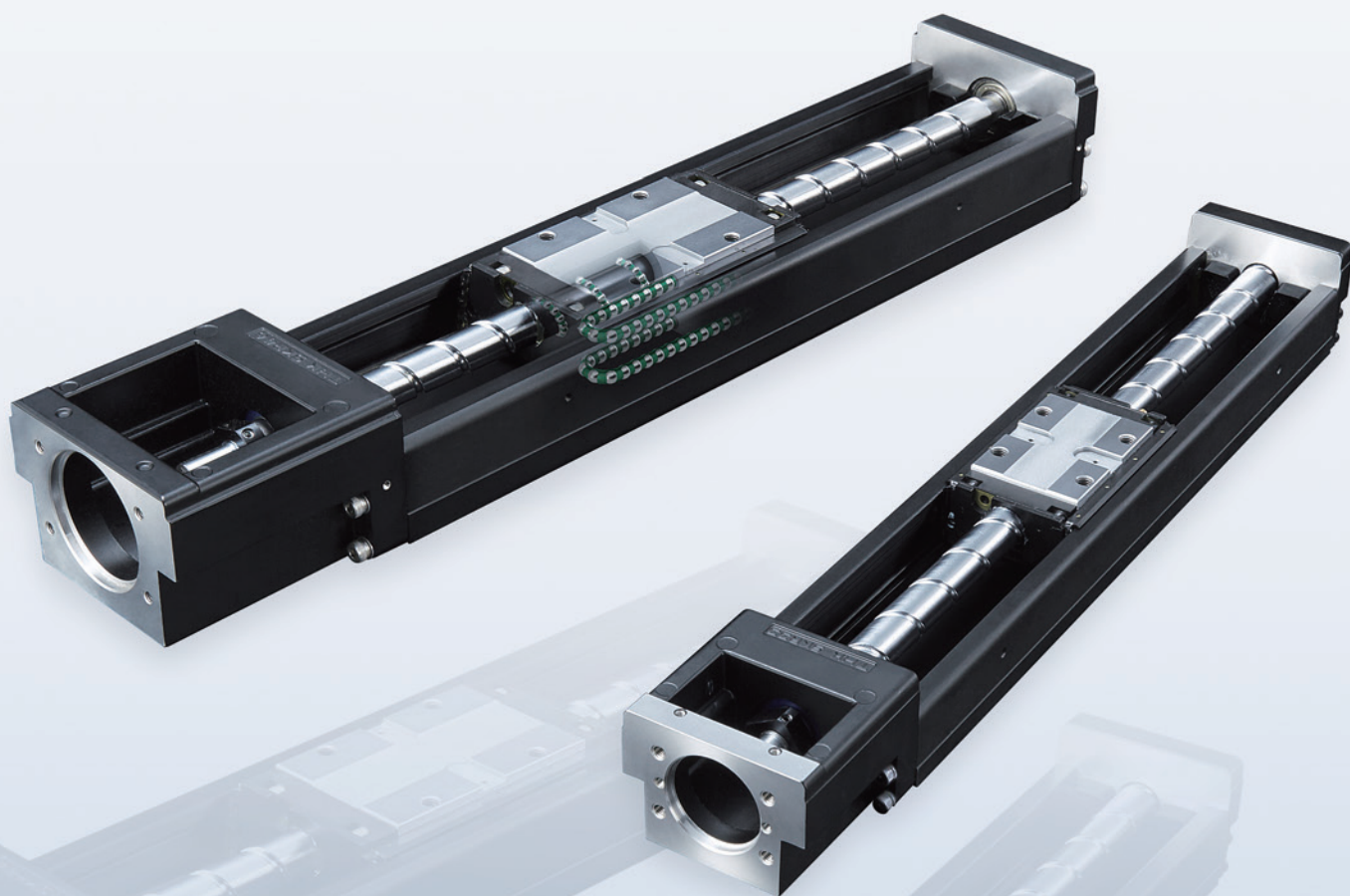


Shipped from Japan in as few as 10 days Semi-custom

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

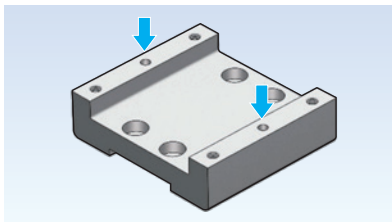
SKR/KR actuators are ideal for high-accuracy positioning due to their highly rigid, compact structure consisting of an LM Guide, ball screw, and support unit, and they are now available as semi-custom orders with five customizations. Products are shipped from Japan in as few as 10 days after ordering.

*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

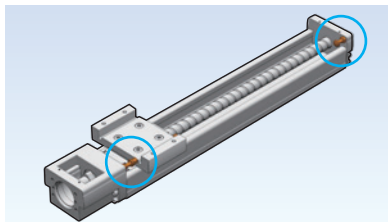
Customization 1



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.

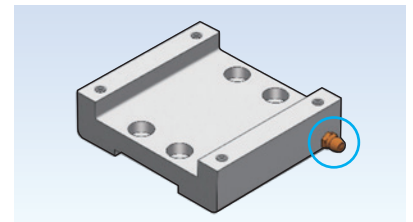
Customization 2



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



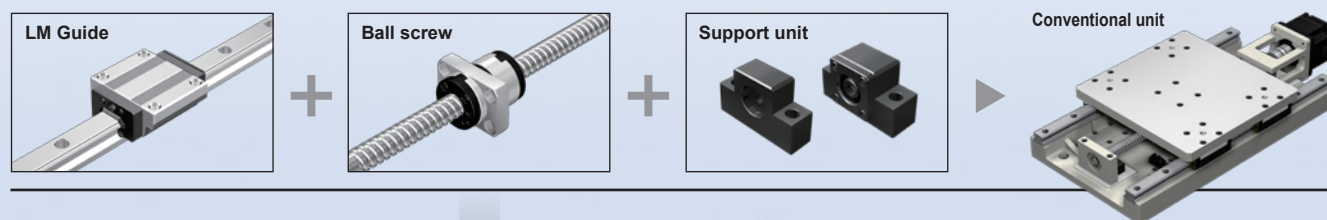
Sub-table side greasing holes to apply grease more easily

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

STRONG POINT

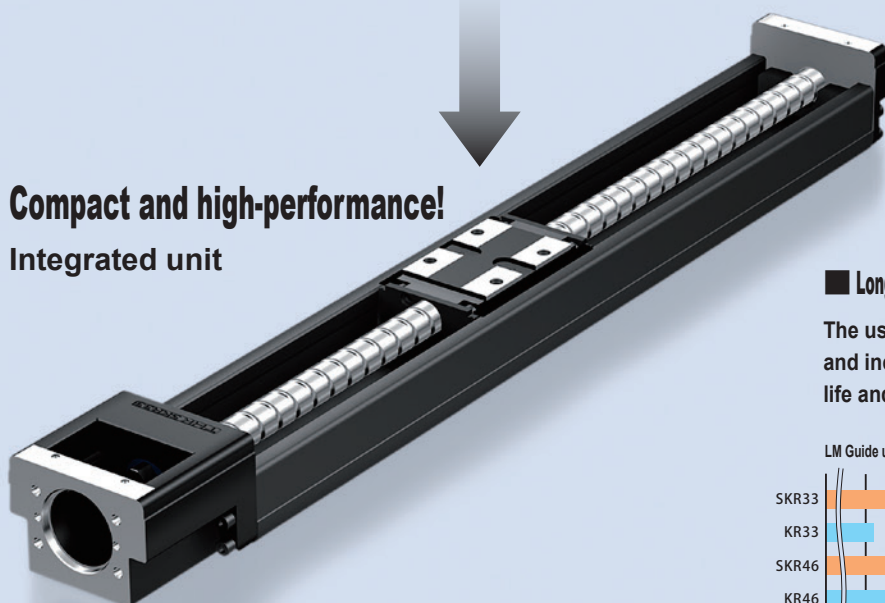
■ Reduces design and assembly time

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

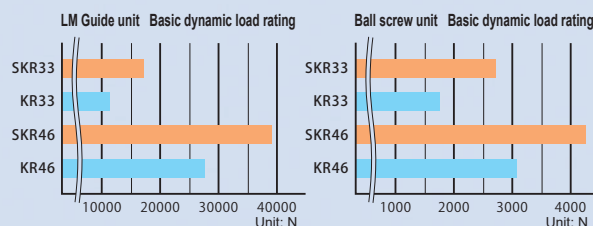


■ High rigidity, high precision

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

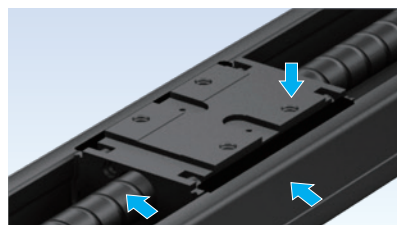
■ Long service life and long-term maintenance-free operation (SKR)

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

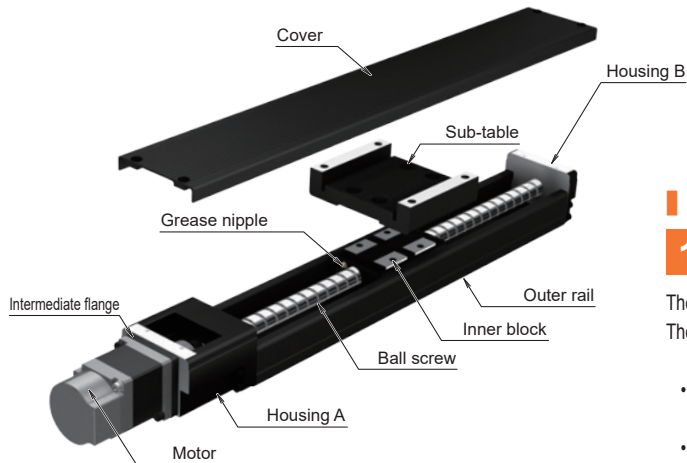
SKR46

KR20

KR26

KR30H

KR45H

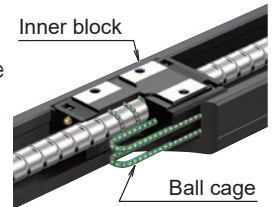


Features

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 Four-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.

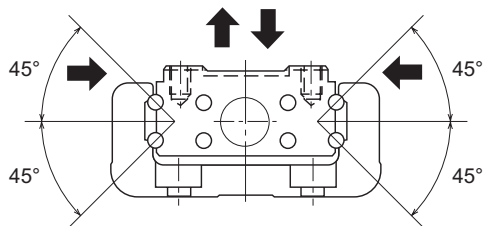


Diagram: SKR/KR load capacity and contact angle

3 High-Speed Specifications

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

Maximum speed

Model No.	Ball screw lead (mm)	Maximum speed (mm/s)
SKR20	1	100
	6	600
SKR26	2	200
	6	600
SKR33	6	600
	10	1000
SKR46	20	2000
	10	1000
	20	2000

Model No.	Ball screw lead (mm)	Maximum speed (mm/s)
KR20	1	100
	6	600
KR26	2	200
	6	590
KR30H	6	470
	10	790
KR45H	10	520
	20	1050

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

Note 2: The maximum speed is restricted by the motor rotation 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.

Ball screw lead

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 dimensional table

Cover
0: Uncovered
1: Covered

Semi-Custom Series Represented by five symbols

Low dust-generating grease
0: Standard grease L: AFF Grease
Standard grease differs by model number
See p. 6 for details.

Surface treatment (THK AP-C coating)
0: Without S: With

Sub-table greasing hole
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 ^{3,4} (kg)	
					Horizontal	Vertical
SKR20	1	130	50	50	12.5	3
	6		300			6
SKR26	2	210	100	50	27.5	14
	6		300			7
SKR33	6	595	300	100	43.5	19
	10		500		34.5	12 (11.5)
	20		1000		21 (18.5)	6 (5.5)
SKR46	10	790	500	200	77	18 (16)
				400	96	23 (16)
			1000	200	42 (31)	8
	20			400	90 (75)	18 (16.5)

¹ Maximum stroke refers to the value for 1 block (A Type).

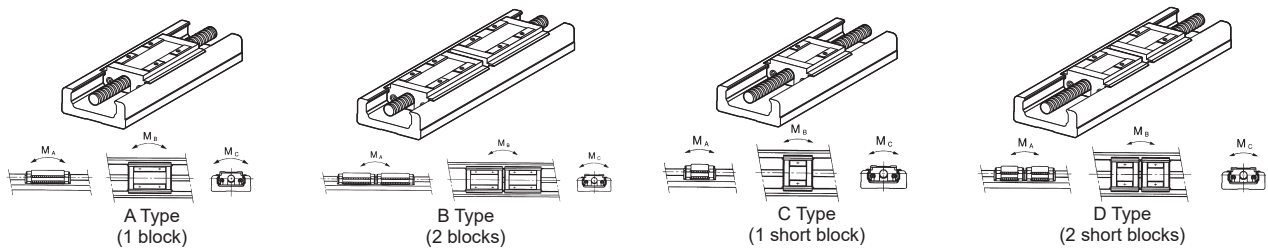
² Rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹). However, this varies depending on the stroke.

³ The maximum load capacity refers to the mass during the below acceleration/deceleration for 1 block (A Type) at the rated speed. 0.15 G for a lead less than 10 mm, 0.3 G for a 10 mm lead, or 0.5 G for a 20 mm lead or higher.

⁴ Values in parentheses are for motor wrap specifications.

Model No.	Ball screw lead (mm)	Max. stroke ¹ (mm)	Rated speed ² (mm/s)	Motor rated output (W)	Maximum load capacity ^{3,4} (kg)	
					Horizontal	Vertical
KR20	1	130	50	50	12.5	3 (2.5)
	6		300			4
KR26	2	210	100	50	27.5	9.5 (6.5)
	6		300			7
KR30H	6	500	300	100	35	15.5 (12)
	10		500		28.5	9
KR45H	10	800	500	200	65	18
				400	65	24.5 (18.5)
			1000	200	42 (31)	8
	20			400	59.5	18

Static Permissible Moments of SKR/KR (LM Guide)



Unit: N·m

Model No.	Block type ⁵	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 ⁵	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

⁵ 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 ⁶ (mm)	Outer rail length (mm)	Positioning repeatability (mm)	Positioning accuracy (mm)	Running parallelism (vertical direction) (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					
	260	350					
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	595	700	±0.01	No standard defined	No standard defined	0.02	10
	190	340					
	290	440					
	390	540					
	490	640					
	590	740					
	690	840					

⁶ These values refer to 1 block (A Type).

Note 3: These values refer to a Normal grade accuracy.

Note 4: The evaluation method complies with THK standards.

Note 5: Measurements are taken using an inspection motor. Also, for motor wrapping specifications, the measurements are not taken with completed motor wrapping.

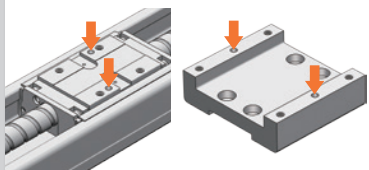
Note 6: The starting torque refers to the values when THK AFB-LF Grease is used. However, the values for SKR20/26 and KR20/26 refer to the values when using THK AFA Grease.

Note 7: 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.

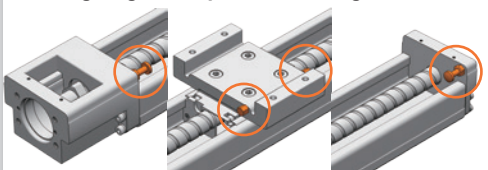
Model No.	Stroke ⁶ (mm)	Outer rail length (mm)	Positioning repeatability (mm)	Positioning accuracy (mm)	Running parallelism (vertical direction) (mm)	Backlash (mm)	Starting torque (N·cm)
KR20	30	100	±0.01	No standard defined	No standard defined	0.02	0.5
	80	150					
	130	200					
KR26	60	150	±0.01	No standard defined	No standard defined	0.02	1.5
	110	200					
	160	250					
	210	300					
	260	350					
KR30H	50	150	±0.01	No standard defined	No standard defined	0.02	7
	100	200					
	200	300					
	300	400					
	400	500					
KR45H	500	600	±0.01	No standard defined	No standard defined	0.02	10
	200	340					
	300	440					
	400	540					
	500	640					
	600	740					
	700	840					

Five Customizations

1 Positioning during installation

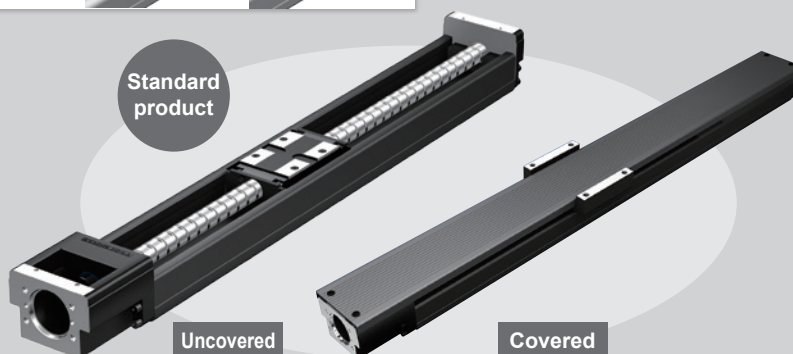


2 Aligning home position during installation

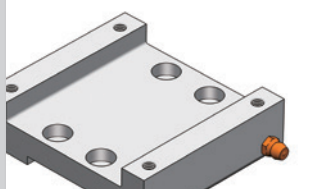


By adding five customizations to standard specifications, we have created a semi-custom series to quickly respond to a wide variety of orders.

Standard product



3 Easier grease application



4 Surface treatment



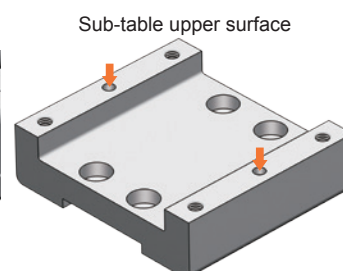
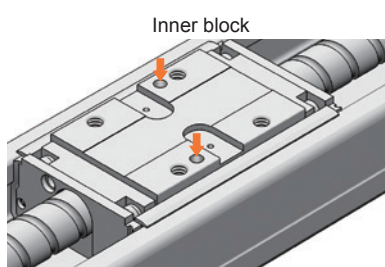
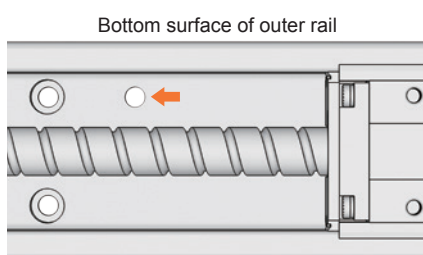
5 Compatible with clean environments



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

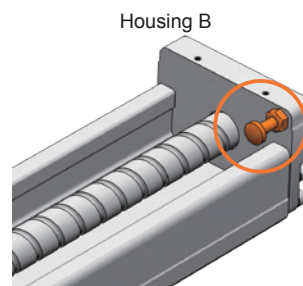
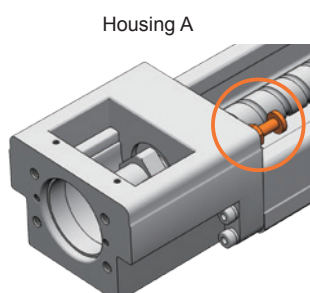
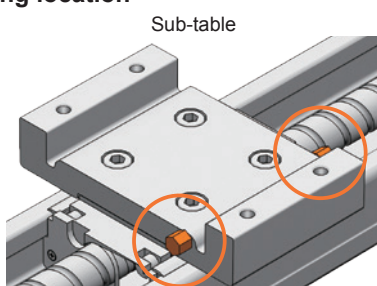


2 Easy home position alignment during installation*

*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 Grease application is easy¹

¹ 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 holes² are drilled on both sides, so you can use either based on the device's layout.

² Plugs are installed in both greasing holes for shipment.



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

4 Improved corrosion resistance with surface treatment³

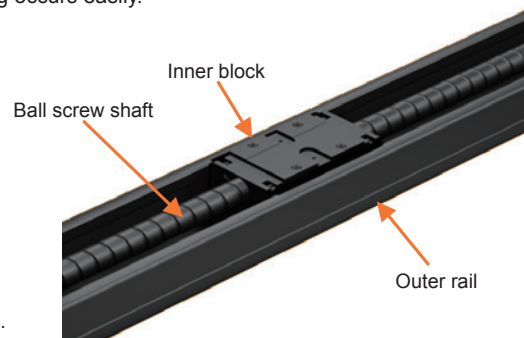
³ Only available on SKR33/46 and KR30H/45H

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 rail⁴

⁴ Only the surface of the outer rail is treated (with AP-C treatment) as standard. (This excludes SKR20/26 and KR20/26.)



AP-C Treatment

A type of industrial black chrome plating designed to increase corrosion resistance. It costs less and achieves higher corrosion resistance than martensitic stainless steel.

Note 1: Products with surface treatment will ship **12 days minimum after the order is placed (production time + 2 days)**.

Note 2: 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	AFB-LF Grease
KR30H/45H	

Note 3: 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
Features	Grease for clean environments	Long service life	All-purpose grease
Base oil	High-grade synthetic oil	High-grade synthetic oil	Refined mineral oil
Thickening agent	Lithium-based	Urea-based	Lithium-based
Features	Long service life	—	⊙
	High speed	—	—
	Micro-vibration/Very small stroke	○	—
	High loads	—	⊙
	Low dust generation (clean environments)	⊙	—
	Wide temperature range	—	—
	Water resistance	—	⊙
	Mechanical stability	—	⊙

⊙: Superior, ○: Good



SKR/KR Selection Guidelines

SKR20

SKR26

SKR33

SKR46

KR20

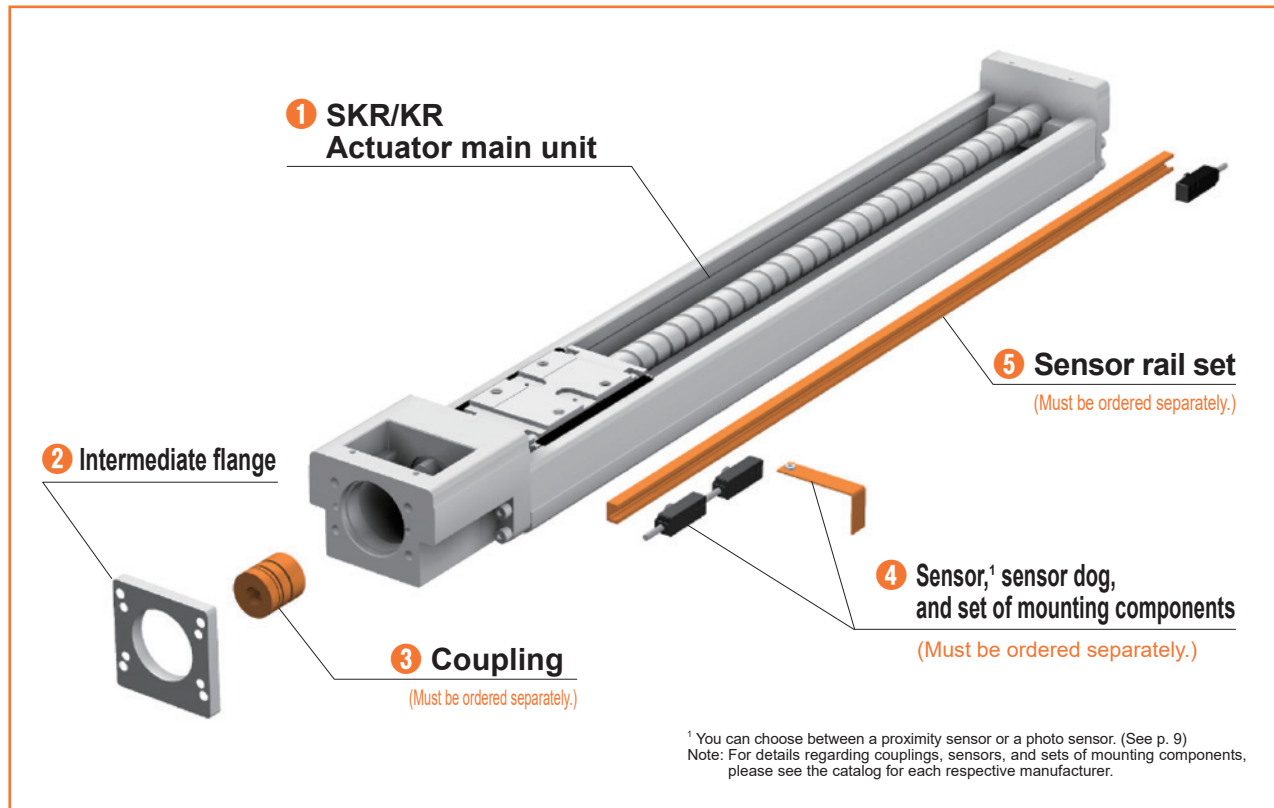
KR26

KR30H

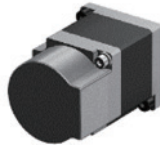
KR45H

Model No. (Page)	Ball screw lead (mm)	Block type	Max. stroke (mm)	Rated speed ¹ (mm/s)	Motor rated output (W)	Max. load capacity ² (kg)		Stroke (mm)														
						Horizontal	Vertical	100	200	300	400	500	600	700	800							
SKR20 (p. 13 on)	1	A	130	50	50	12.5	3	100														
		B	85					100														
	6	A	130	300			6	600														
		B	85					600														
SKR26 (p. 19 on)	2	A	210	100	50	27.5	14	200														
		B	145					200														
	6	A	210	300			7	600														
		B	145					600														
SKR33 (p. 25 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		34.5 (11.5)	12 (11.5)	1000	920	650												
		B	520					1000	920	650												
		C	620					1000	830	600												
		D	570					1000	830	600												
	20	A	595	1000		21 (18.5)	6 (5.5)	2000	1780	1270												
		B	520					2000	1780	1270												
		SKR46 (p. 37 on)	10					A	790	500	200	200 W: 77	200 W: 18 (16)	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	200 W: 42 (31)	200 W: 8	2000	1980	1430	1080	840											
	B	680					2000	1980	1430	1080	840											
	C	820					400 W: 90 (75)	400 W: 18 (16.5)	2000	1770	1300	990	780									
	D	745					2000	1770	1300	990	780											
KR20 (p. 49 on)	1	A	130	50	50	12.5	3 (2.5)	100														
		B	85					100														
	6	A	130	300			4	600														
		B	85					600														
KR26 (p. 55 on)	2	A	210	100	50	27.5	9.5 (6.5)	200														
		B	145					200														
	6	A	210	300			7	600														
		B	145					600														
KR30H (p. 61 on)	6	A	500	300	100	35	15.5 (12)	470	395													
		B	420					470	395													
		C	520					470	360													
		D	470					470	360													
	10	A	500	500		28.5	9	790	650													
		B	420					790	650													
		C	520					790	600													
		D	470					790	600													
KR45H (p. 73 on)	10	A	800	500	200	400	200 W: 65	520	430													
		B	690					520	430													
		C	830				400 W: 65	520	490	380												
		D	760					520	490	380												
	20	A	800	1000	200	400	200 W: 42 (31)	1050	840													
		B	690					1050	840													
		C	830				400 W: 59.5	1050	980	770												
		D	760					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 mass during the below acceleration/deceleration for 1 block (A Type) at the rated speed.³ 0.15 G for a lead less than 10 mm, 0.3 G for a 10 mm lead, or 0.5 G for a 20 mm lead or higher.⁴ Values in parentheses are for motor wrap specifications.⁵ The maximum speed is restricted by the motor rotational speed (at 6,000 min⁻¹) or by the permissible rotation speed of the ball screw. When used at speeds higher than the rated speed, be aware that the maximum load capacity 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
leadBlock
typeStroke
(in mm)Direct coupling/
Motor wrap

Cover

Housing A/
Intermediate flange²

Semi-Custom Series

For the above model numbers, you can specify { **1 SKR/KR actuator main unit**
2 Intermediate flange }

² If "0" is selected for the intermediate flange, the intermediate flange will not be included.
Note: See the page of each model for details concerning specifications.

Product Configuration	Description
1 Actuator main unit³	
2 Intermediate flange³	
3 Coupling	
4 Sensor, sensor dog, and set of mounting components (see p. 9)	
5 Sensor rail set (see p. 10)	
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 Options

Optional proximity sensors and photo sensors are available.

SKR20

SKR26

SKR33

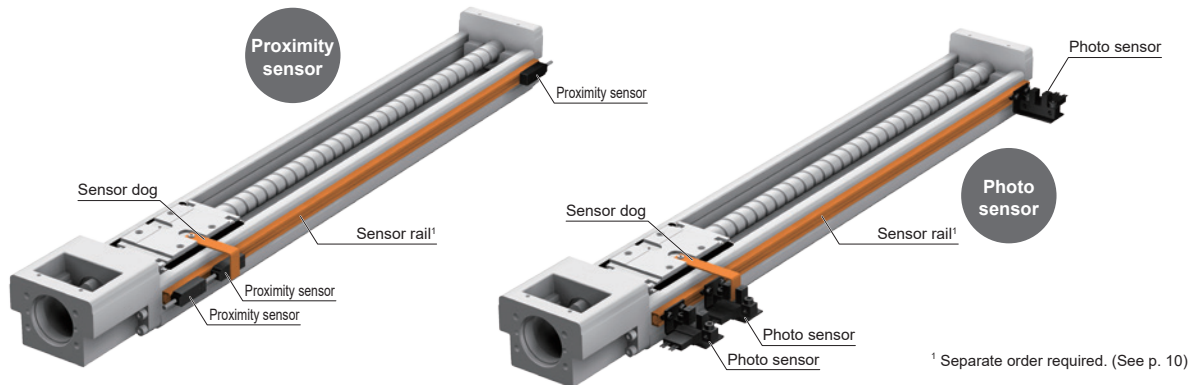
SKR46

KR20

KR26

KR30H

KR45H



¹ Separate order required. (See p. 10)

Sensor Set Model Number Coding Example

SKR26 - 02 Type² - 1³ - SENSOR SET

Model No.

Sensor symbol

(See "Sensor symbol" in the "Sensors" table below.)

Block type

Type

A/B block (SKR33 only)

C/D block (SKR33 only)

² Will be automatically input depending on the actuator's model number.
No symbol for other actuators.

Locations where sensors are installed

1: For strokes 70 mm and above (one side)

2: For strokes under 70 mm (both sides)

³ Will be automatically input depending on the actuator's stroke.

Sensors

Model No.	Sensor type	Manufacturer	Sensor model	Sensor symbol		Details ⁸	Accessory
				Uncovered	Covered		
SKR20 ⁶ SKR26 ⁶ SKR33 SKR46	Proximity sensors	Azbil Corporation ⁷	APM-D3A1-001	07	17	N.O. contact (x3)	Mounting screws, nuts, sensor dog
			APM-D3B1-003	0B	1B	N.C. contact (x3)	
			APM-D3A1-001	0E	1E	N.O. contact (x1)	
			APM-D3B1-003			N.C. contact (x2)	
KR20 ⁶ KR26 ⁶ KR30H KR45H	Proximity sensors	Panasonic Device SUNX Co., Ltd.	GX-F12A	0H	1H	N.O. contact (x3)	Mounting screws, nuts, sensor dog
			GX-F12B	0L	1L	N.C. contact (x3)	
			GX-F12A	0J	1J	N.O. contact (x1)	
			GX-F12B			N.C. contact (x2)	
	Photo sensor ⁹	OMRON Corporation	GX-F12A-P	0M	1M	N.O. contact (x1) (PNP output)	Mounting screws, nuts, sensor dog Mounting plate, connector (EE-1001, x3)
			GX-F12B-P			N.C. contact (x2) (PNP output)	
			EE-SX671	02	12	(x3)	
			EE-SX674	06	16	(x3)	

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 Corporation sensors are special products combined with the THK sensor rails located on p. 10.

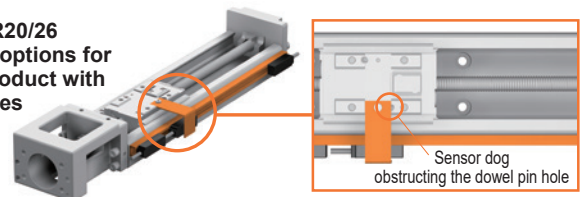
⁸ N.O. contact: Normally open contact

⁹ 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)

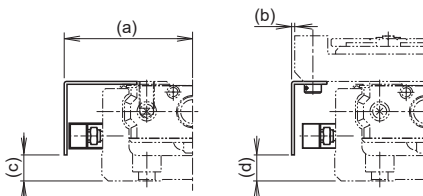
SKR20/26, KR20/26
Combination options for
uncovered product with
dowel pin holes



Proximity Sensors

Azbil Corporation

· APM-D3A1-001 · APM-D3B1-003

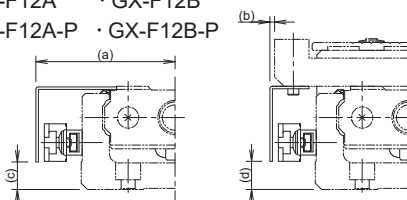


Model No.	Unit: mm			
	a	b	c	d
SKR20	32.5	6.6	6	6
SKR26	37.5	6.4	8	8
SKR33	43	0.3	14.8	15
SKR46	56.2	0.2	26.8	22

Model No.	Unit: mm			
	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 Industrial Devices SUNX Co., Ltd.

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

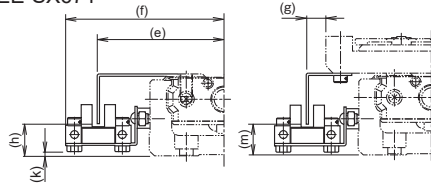


Model No.	Unit: mm			
	a	b	c	d
SKR20	34	8.1	3.6	4
SKR26	39	7.9	6	6
SKR33	44.7	2	13.8	15
SKR46	57.7	1.8	24.8	22

Model No.	Unit: mm			
	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



Unit: mm

Model No.	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.

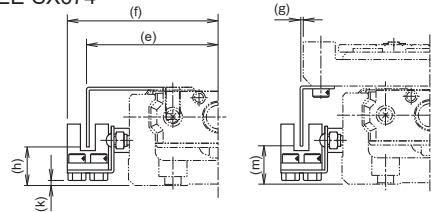
Unit: mm

Model No.	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



Unit: mm

Model No.	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.

Unit: mm

Model No.	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 Options**Sensor rails for attaching optional proximity sensors and photo sensors are available.**

They require a separate order from the sensors (p. 9).

Sensor Rail Model Number Coding Example**KR30/33/SKR33 - Sensor rail set - 500¹ × 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

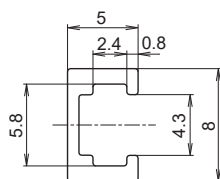
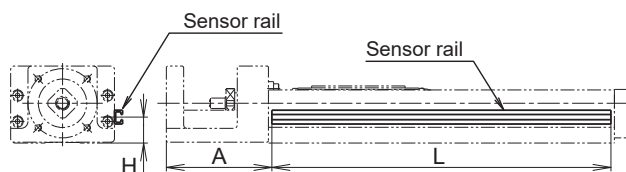
Note: Sensor rail mounting screws are included.

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	-	-
	45	150			146	2	-	1	2
SKR33 (KR30/33/SKR33)	95	200	20	61	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
	400	540			546	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.

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	-	-
	50	150			146	2	-	1	2
KR30H (KR30/33/SKR33)	100	200	14	61	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
	200	340			336	1	1	1	1
KR45H (KR45/46/SKR46)	300	440	19	90	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
	400	540			546	1	1	1	1
	500	640			646	1	1	1	1

**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.

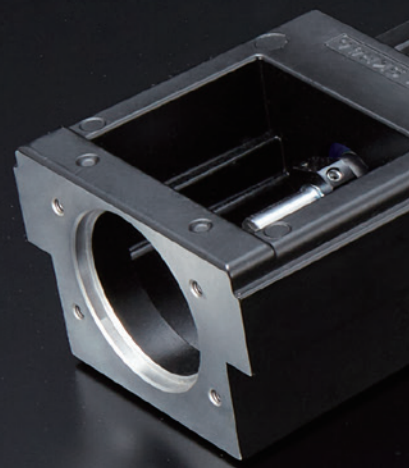
► p. 13 to 48



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. 49 to 84



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	0.15 G	12.5
		Vertical	0.3 G	12.5
			0.15 G	3
			0.3 G	3
Rated thrust ³ (N)			735	149
Maximum thrust ⁴ (N)			735	397
Outer diameter of ball screw shaft end (mm)			ø4h7	
Permissible input torque (N·m)			0.12	0.42

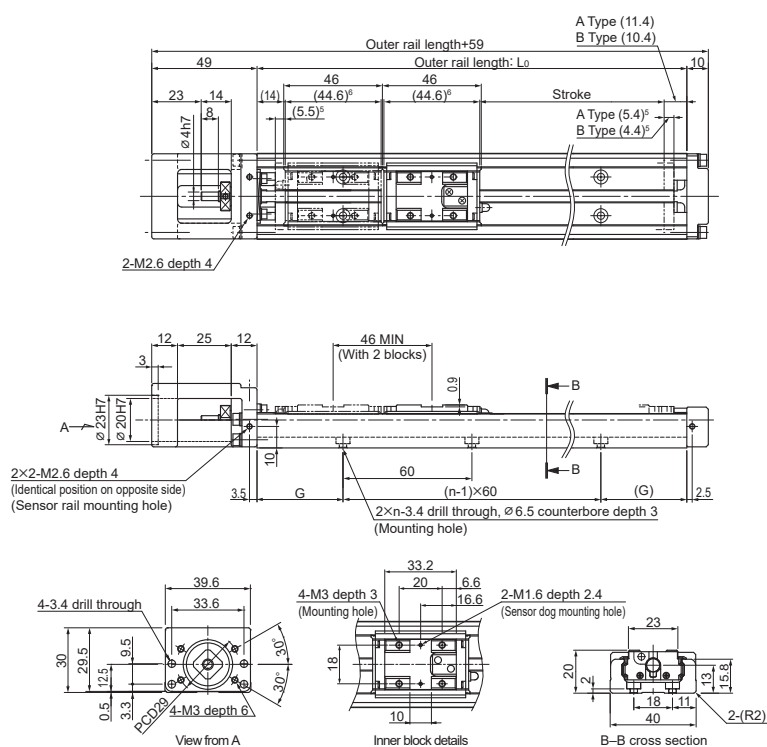
Load Rating

Item		SKR2001	SKR2006
LM Guide	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	Ball screw lead (mm)	1	6
	Basic dynamic load rating C _a (N)	660	860
	Basic static load rating C _{0a} (N)	1170	1450
	Screw shaft diameter (mm)	ø6	
Bearing unit (fixed side)	Axial direction	Basic dynamic load rating C _a (N)	1150
		Static permissible load P _{0a} (N)	735

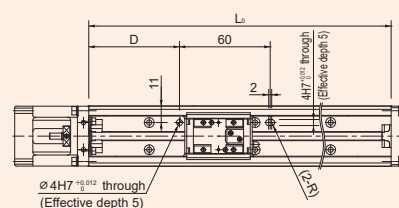
Motor Used and Applicable Intermediate Flanges

Motor type				Rated output	Flange size	Intermediate flange symbol	
AC servo motor	Yaskawa Electric Corporation	Σ-V mini	SGMMV-A1	10 W	25×25	N	
			SGMMV-A2	20 W		N	
			SGMMV-A3	30 W		N	
		Σ-V	SGMJV-A5	50 W	40×40	Q	
			SGMAV-A5			Q	
			Σ-7	SGMJ7-A5		50 W	40×40
		SGM7A-A5		Q			
		Σ-X	SGMXJ-A5	50 W	40×40	Q	
			SGMXA-A5			Q	
	Mitsubishi Electric Corporation	MELSERVO	J4	HG-AK0136	10 W	25×25	N
				HG-AK0236	20 W		N
				HG-AK0336	30 W		N
				HG-MR053	50 W		40×40
			HG-KR053	Q			
			J5	HK-KT053W	50 W	40×40	Q
			JN	HF-KN053	50 W	40×40	Q
	Tamagawa Seiki Co., Ltd.	TBL-III	TS4602	50 W	40×40	Q	
			TBL-IV	TSM3102	50 W	40×40	Q
	Panasonic Corporation	MINAS	A5	MSMD5A	50 W	38×38	P
				MSME5A			P
A6			MSMF5A	50 W	38×38	P	
			MHMF5A			40×40	Q
KEYENCE CORPORATION	SV	SV-M005	50 W	40×40	Q		
	SV2	SV2-M005	50 W		Q		
SANYO DENKI CO., LTD.	SANMOTION R	R2□A04005	50 W	40×40	Q		
OMRON Corporation	OMNUG C5	R88M-K05030	50 W	40×40	Q		
FANUC CORPORATION	βis series	βis 0.2/5000	50 W	40×40	Q		

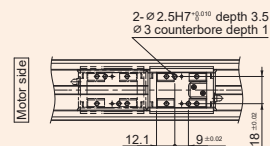
Uncovered Type



Customization: Dowel Pin Holes



Outer rail dowel pin holes



Inner block dowel pin holes

Dimensional 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

¹ 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 Rated thrust values are restricted by the rated torque of the motor (0.159 N·m) or permissible input torque.

⁴ Maximum thrust values are restricted by the maximum instantaneous torque of the motor (0.48 N·m)

⁵ This is the distance between the mechanical stop-

⁶ This indicates the block length when calculating the

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 the value when 2 blocks are in close contact with each other (B Type).

⁸ The maximum speed is the value restricted by the rotational speed of the motor (at 3 000 min⁻¹) or by

rotational speed of the motor (at 3,000 min⁻¹) or by the permissible rotational speed of the ball screw. However, values within parentheses are the max-

However, values within parentheses are the maximum speed when the motor rotational speed is 6 000 min⁻¹. When used at speeds higher than the

6,000 min⁻¹. When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

Intermediate flange dimensions ⇨ p. 17

Stepper motor	Motor type		Flange size	Intermediate flange symbol
	αStep			
Oriental Motor	5-phase	AZ2*, AR2*	28×28	S
		AZ4*, AR4* (this excludes AZM48)	42×42	R
		AZ4*, AR4* (AZM48)	42×42	R
	CRK	CRK52*	28×28	S
		CRK54*	42×42	R
		RKS54*	42×42	R
	RK II	PKP52*	28×28	S
		PKP54*	42×42	R
	2-phase	PKP22*	28×28	S
		PKP24*	42×42	R
SANYO DENKI CO., LTD.	PB	PBDM28*	28×28	S
		PBDM423, PBA* *423	42×42	R
		FAF/FDF52*	28×28	S
	5-phase	FAF54*/FDF54*/FA511M42/FB511M42	42×42	R
		D*14S28*	28×28	S
		DB14H52*	42×42	R
	2-phase	DU15H52*	42×42	R
		QS-M28	28×28	S
		QS-M42	42×42	R
KEYENCE CORPORATION	2-phase	QS-M28	28×28	S
		QS-M42	42×42	R

Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.

Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

Recommended Coupling

Manufacturer	MIKI PULLEY CO., LTD.	Nabeya Bi-tech Kaisha (NBK)
Model No.	SFC-010DA2 ø4 to ø8	XGT2-15C*/XGT2-19C ø4 to ø8

* When using flange size 25×25.

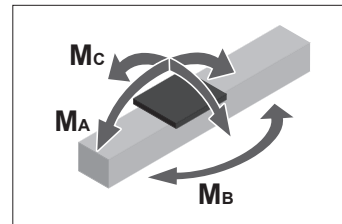
Note 3: The table shows only a portion of the model numbers for couplings. For details regarding model numbers, please see the catalog for each respective coupling manufacturer.

Note 4: The recommended couplings are for when a servo motor is used. When using a stepper motor, please confirm using the Optimal Product Selection Tool.

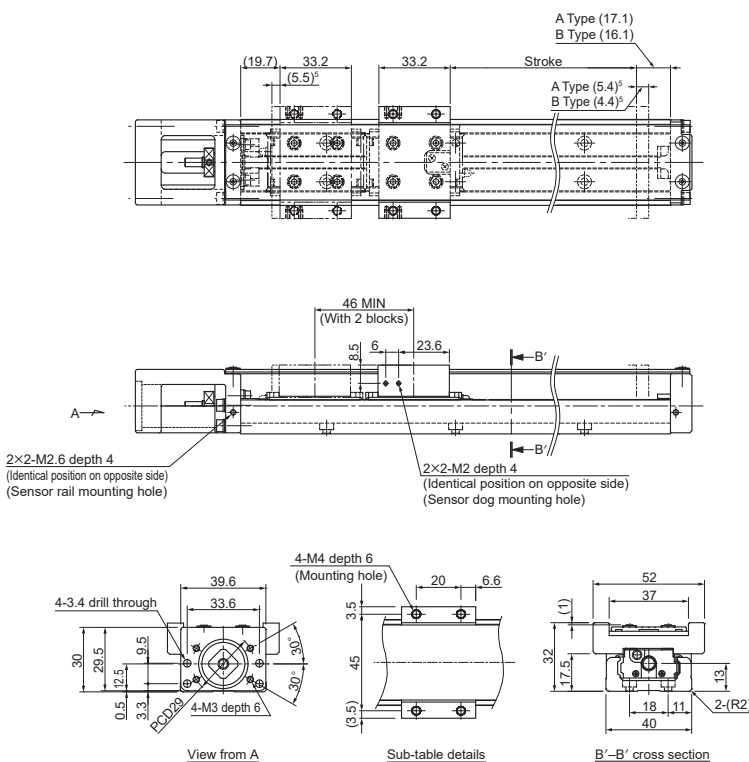
Static Permissible Moment (LM Guide)

Unit: N·m

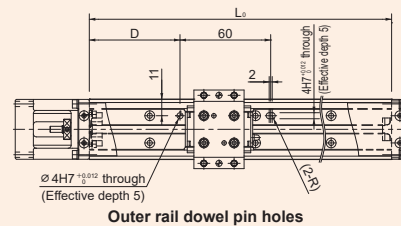
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
SKR20	A	38	38	98
	B	207	207	197



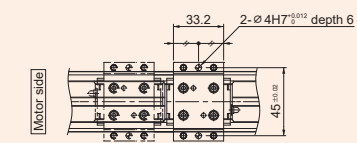
Covered Type



Customization: Dowel Pin Holes

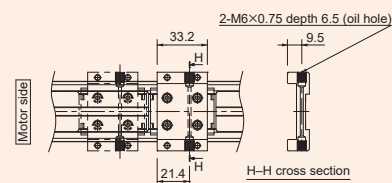


Outer rail dowel pin holes

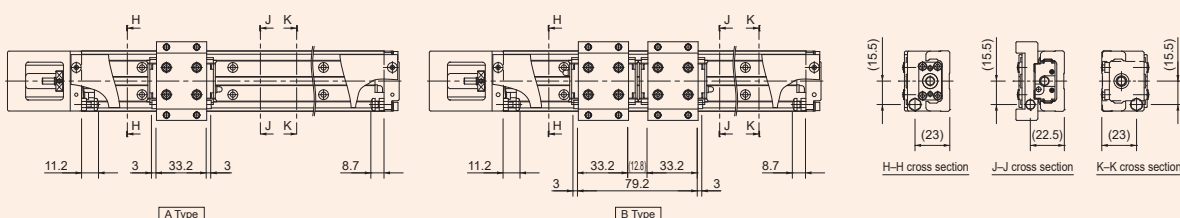


Sub-table upper surface dowel pin holes

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	0.15 G	12.5	12.5
			0.3 G	12.5	12.5
		Vertical	0.15 G	3	6
			0.3 G	3	6
Rated thrust ³ (N)				735	149
Maximum thrust ⁴ (N)				735	397
Outer diameter of ball screw shaft end (mm)				ø4h7	
Permissible input torque (N·m)				0.12	0.40

Load Rating

Item		SKR2001	SKR2006
LM Guide	Basic dynamic load rating C (N)	6010	
	Basic static load rating C ₀ (N)	8030	
	Radial clearance (mm)	-0.004 to 0	
	Ball screw lead (mm)	1	6
Ball screw unit	Basic dynamic load rating C _a (N)	660	860
	Basic static load rating C _{0a} (N)	1170	1450
	Screw shaft diameter (mm)	ø6	
	Basic dynamic load rating C _a (N)	1150	
Bearing unit (fixed side)	Static permissible load P _{0a} (N)	735	

Motor Used and Wrapping Symbol

Wrapping specification details
(dimensions of motor mounting plate) ⇒

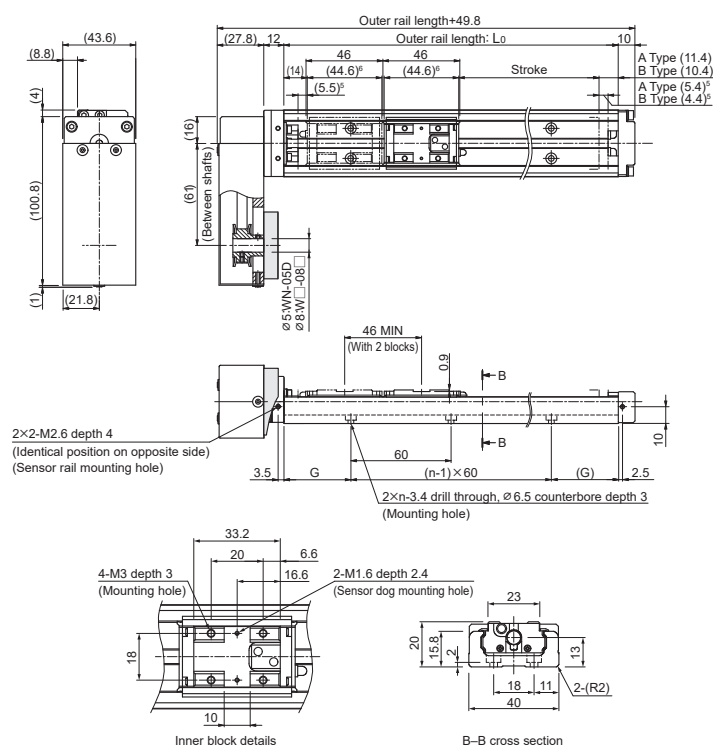
p. 18

Motor type				Rated output	Flange size	Wrapping symbol	
AC servo motor	Yaskawa Electric Corporation	Σ-V mini	SGMMV-A1	10 W	25×25	N05D	
			SGMMV-A2	20 W		N05D	
			SGMMV-A3	30 W		N05D	
		Σ-V	SGMJV-A5	50 W	40×40	Q08K	
			SGMAV-A5			Q08K	
		Σ-7	SGM7J-A5	50 W	40×40	Q08K	
			SGM7A-A5			Q08K	
		Σ-X	SGMXJ-A5	50 W	40×40	Q08K	
	SGMXA-A5				Q08K		
	Mitsubishi Electric Corporation	MELSERVO	J4	HG-AK0136	10 W	25×25	N05D
				HG-AK0236	20 W		N05D
				HG-AK0336	30 W		N05D
				HG-MR053	50 W		Q08D
			J5	HG-KR053	50 W	40×40	Q08D
				HK-KT053W	50 W	40×40	Q08D
			JN	HF-KN053	50 W	40×40	Q08D
	Tamagawa Seiki Co., Ltd.		TBL-III	TS4602	50 W	40×40	Q08D
			TBL-IV	TSM3102	50 W	40×40	Q08D
	Panasonic Corporation	MINAS	A5	MSMD5A	50 W	38×38	P08K
				MSME5A			P08K
A6			MSMF5A	50 W	38×38	P08K	
			MHMF5A		40×40	Q08K	
KEYENCE CORPORATION	SV	SV-M005	50 W	40×40	Q08K		
	SV2	SV2-M005	50 W		Q08K		
SANYO DENKI CO., LTD.	SANMOTION R	R2□A04005	50 W	40×40	Q08K		
OMRON Corporation	OMNUC G5	R88M-K05030	50 W	40×40	Q08K		
FANUC CORPORATION	βis series	βis 0.2/5000	50 W	40×40	Q08K		

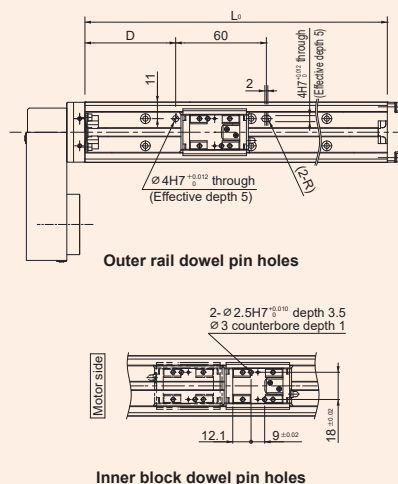
Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.

Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

Uncovered Type



Customization: Dowel Pin Holes



Dimensional 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 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 Rated thrust values are restricted by the rated torque of the motor (0.159 N·m) or permissible input torque.

⁴ Maximum thrust values are restricted by the maximum instantaneous torque of the motor (0.48 N·m) or permissible input torque.

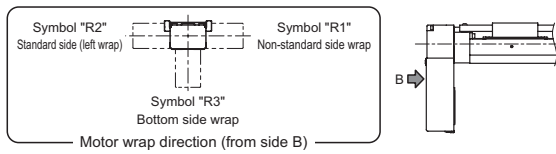
⁵ This is the distance between the mechanical stopper and the stroke starting position.

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 the value when 2 blocks are in close contact with each other (B Type).

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, values within parentheses are the maximum speed when the motor rotational speed is 6,000 min⁻¹. When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

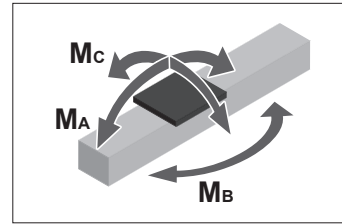
Wrapping Direction



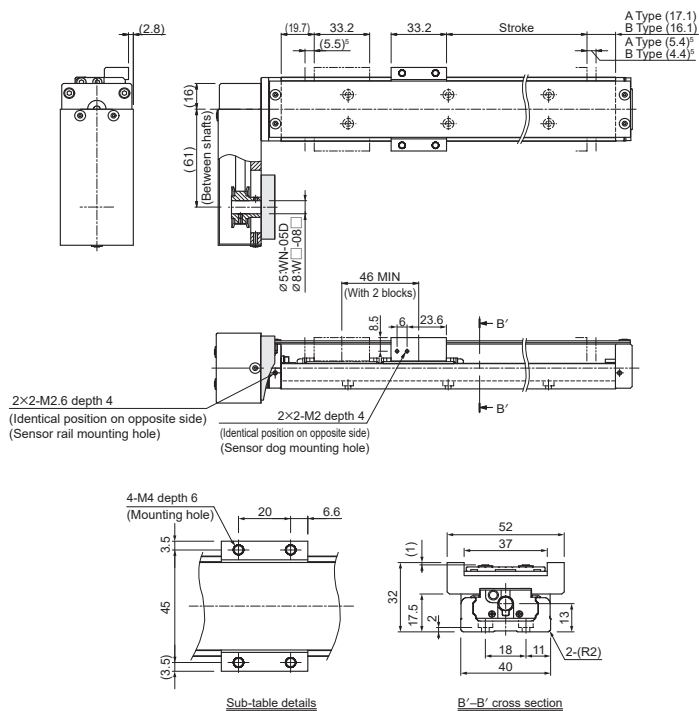
Static Permissible Moment (LM Guide)

Unit: N·m

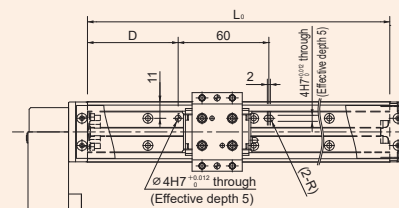
Model No.	Block type	Static permissible moment		
		M_A	M_B	M_C
SKR20	A	38	38	98
	B	207	207	197



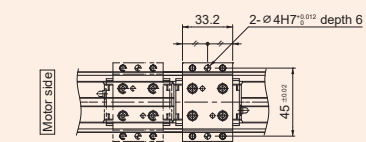
Covered Type



Customization: Dowel Pin Holes

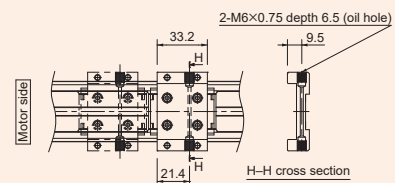


Outer rail dowel pin holes

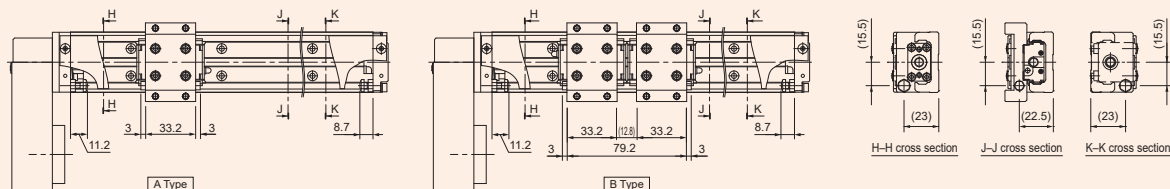


Sub-table upper surface dowel pin holes

Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



SKR20 A/B Direct Motor Coupling

Model Number Coding

Basic Configuration							Semi-Custom Series				
Model No.	Ball screw lead	Block type	Stroke	Direct coupling/ Motor wrap	Cover ¹	Housing A/ Intermediate flange	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)
SKR20	01: 1 mm 06: 6 mm	A: 1 block B: 2 blocks	A Type		0: Direct coupling 1: 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)
			0030: 30 mm								
			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 this symbol.

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.)

⁶ When low dust-generating grease is specified, AFF Grease will be applied.

SKR20

SKR26

SKR33

SKR46

KR20

KR26

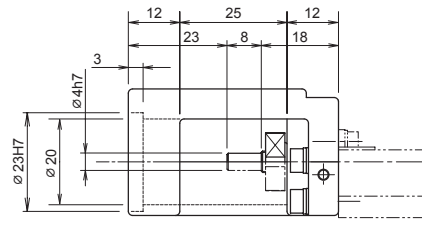
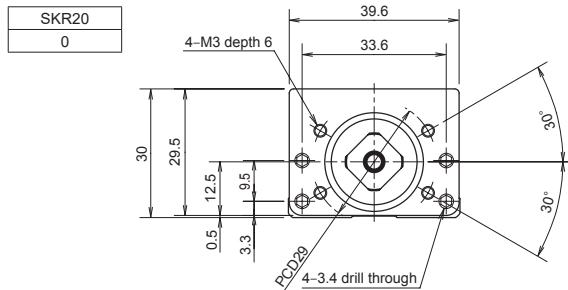
KR30H

KR45H

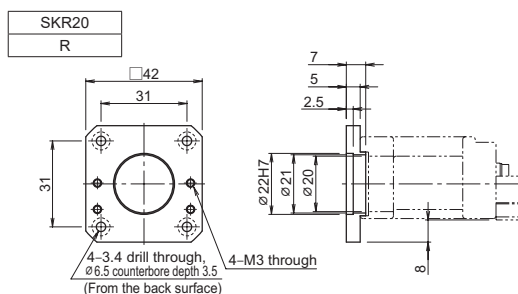
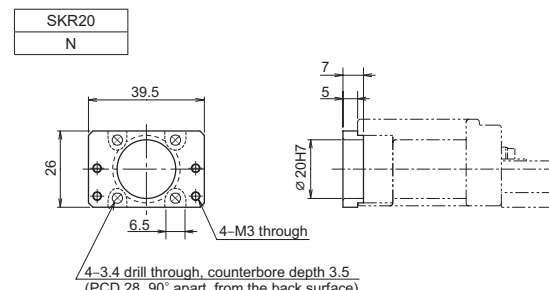
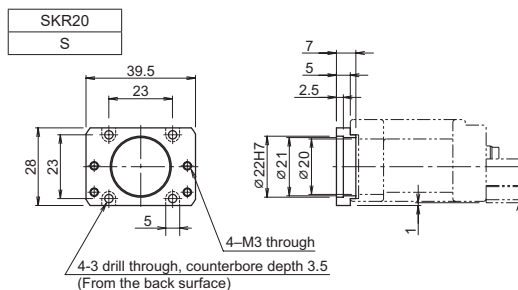
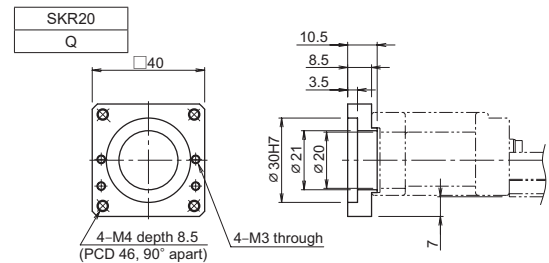
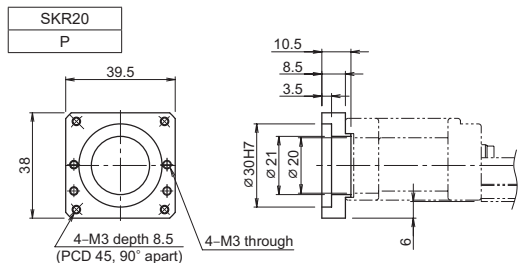
SKR20 A/B Direct Coupling

Dimensional Diagram for Motor Mounting

Housing A



Intermediate Flange



SKR20 A/B Motor Wrapping

Model Number Coding

Wrapping direction details → p. 16

Basic Configuration							Semi-Custom Series				
Model No.	Ball screw lead	Block type	Stroke	Direct coupling/ Motor wrap	Cover ¹	Motor mounting plate	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)
SKR20	01: 1 mm 06: 6 mm	A: 1 block B: 2 blocks	A Type	R1: Non-standard side wrap R2: Standard side wrap R3: Bottom surface wrap	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)
			0030: 30 mm								
			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 this symbol.

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.)

⁶ When low dust-generating grease is specified, AFF Grease will be applied.

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

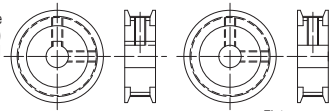


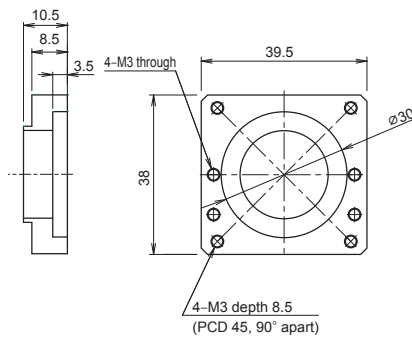
Figure: Motor shaft securing method

SKR20 A/B Motor Wrapping

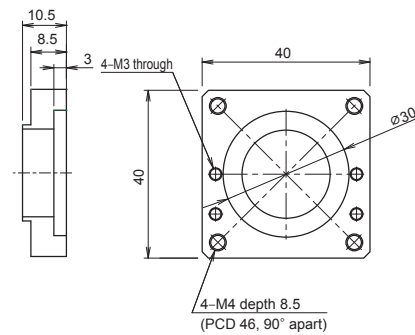
Dimensional Diagram for Motor Mounting

Wrapping Specifications (Motor Mounting Plate)

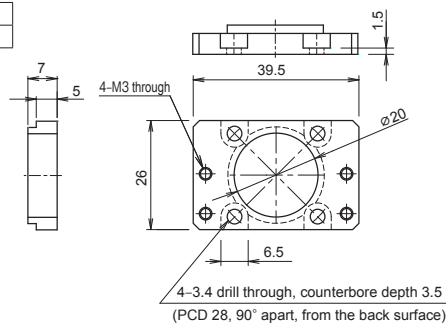
SKR20
P08K



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	0.15 G	27.5	27.5
			0.3 G	27.5	27.5
		Vertical	0.15 G	14	7
			0.3 G	14	7
Rated thrust ³ (N)				449	149
Maximum thrust ⁴ (N)				1229	452
Outer diameter of ball screw shaft end (mm)				ø5h7	
Permissible input torque (N·m)				0.43	0.80

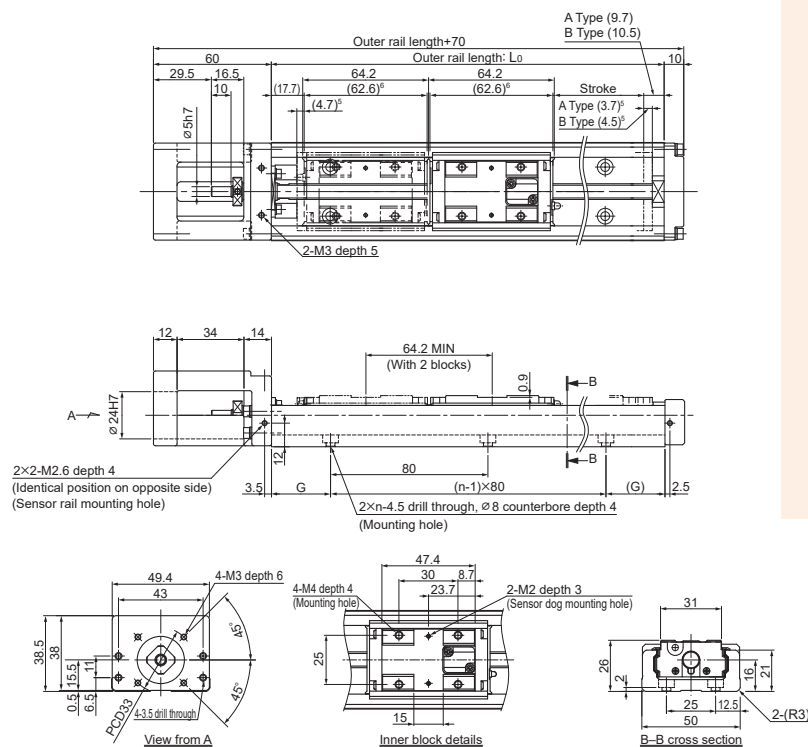
Load Rating

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

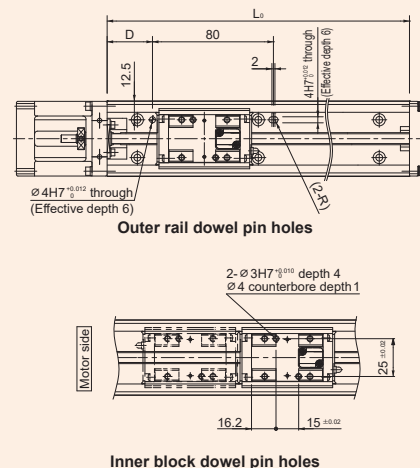
Motor Used and Applicable Intermediate Flanges

Motor type		Rated output	Flange size	Intermediate flange symbol
Yaskawa Electric Corporation	Σ-V mini	SGMMV-A1	10 W	N
		SGMMV-A2	20 W	N
		SGMMV-A3	30 W	N
	Σ-V	SGMJV-A5	50 W	Q
		SGMAV-A5	40×40	Q
		SGM7J-A5	50 W	Q
	Σ-7	SGM7A-A5	40×40	Q
		SGMXJ-A5	50 W	Q
		SGMXA-A5	40×40	Q
	Σ-X	HG-AK0136	10 W	N
Mitsubishi Electric Corporation	MELSERVO	HG-AK0236	20 W	N
		HG-AK0336	30 W	N
		HG-MR053	50 W	Q
		HG-KR053	40×40	Q
		JK-KT053W	50 W	Q
		HF-KN053	50 W	Q
	TBL-II	TS4602	50 W	Q
		TSM3102	50 W	Q
	Panasonic Corporation	MSMD5A	50 W	P
		MSME5A	38×38	P
		MSMF5A	50 W	P
KEYENCE CORPORATION	SV	SV-M005	50 W	Q
		SV2-M005	50 W	Q
	SANMOTION R	R2-IA04005	50 W	Q
		R88M-K05030	50 W	Q
	βis series	βis 0.2/5000	50 W	Q
			40×40	Q
	OMRON Corporation	OMNUG 5	50 W	Q
			40×40	Q
	FANUC CORPORATION		50 W	Q
			40×40	Q

Uncovered Type



Customization: Dowel Pin Holes



Dimensional 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
No. of mounting holes	G		35	20	45	30
	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

¹ 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 Rated thrust values are restricted by the rated torque of the motor (0.159 N·m) or permissible input torque.

⁴ Maximum thrust values are restricted by the maximum instantaneous torque of the motor (0.48 N·m) or permissible input torque.

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 the value when 2 blocks are in close contact with each other (B Type).

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, values within parentheses are the maximum speed when the motor rotational speed is 6,000 min⁻¹. When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

Intermediate flange dimensions ⇨ p. 23

Motor type				Flange size	Intermediate flange symbol	
Stepper motor	Oriental Motor	αStep		AZ2*, AR2*	28×28	S
				AZ4*, AR4* (this excludes AZM48)	42×42	R
				AZ4*, AR4* (AZM48)	42×42	R
		5-phase	CRK	CRK52*	28×28	S
				CRK54*	42×42	R
			RK II	RKS54*	42×42	R
			PKP	PKP52*	28×28	S
				PKP54*	42×42	R
			2-phase	PKP/ CVD	PKP22*	28×28
		PKP24*			42×42	R
	SANYO DENKI CO., LTD.	PB		PBDM28*	28×28	S
				PBDM423, PBA* *423	42×42	R
		5-phase	FAF/FDF52*	28×28	S	
			FAF54*/FDF54*/ FA511M42/FB511M42	42×42	R	
		2-phase	D*14S28*	28×28	S	
			DB14H52*	42×42	R	
DU15H52*	42×42		R			
KEYENCE CORPORATION	2-phase		QS-M28	28×28	S	
			QS-M42	42×42	R	

Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.

Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

Recommended Coupling

Manufacturer	MIKI PULLEY CO., LTD.	Nabeya Bi-tech Kaisha (NBK)
Model No.	SFC-010DA2 ø5 to ø8	XGL2-15C*/XGT2-19C ø5 to ø8

* When using flange size 25×25.

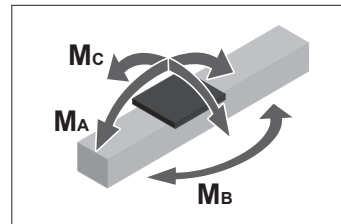
Note 3: The table shows only a portion of the model numbers for couplings. For details regarding model numbers, please see the catalog for each respective coupling manufacturer.

Note 4: The recommended couplings are for when a servo motor is used. When using a stepper motor, please confirm using the Optimal Product Selection Tool.

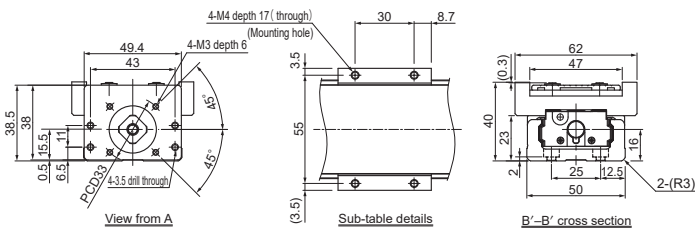
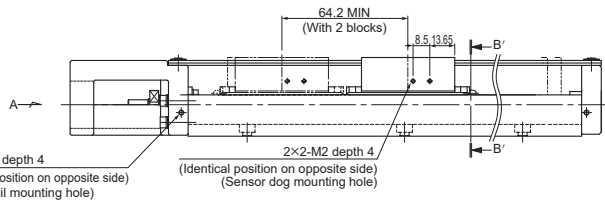
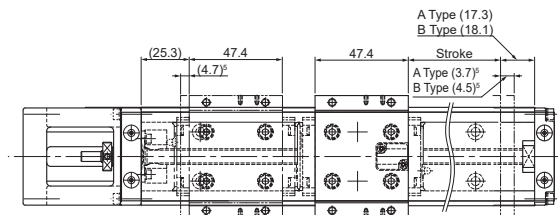
Static Permissible Moment (LM Guide)

Unit: N·m

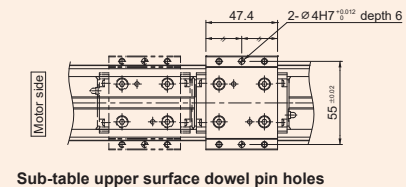
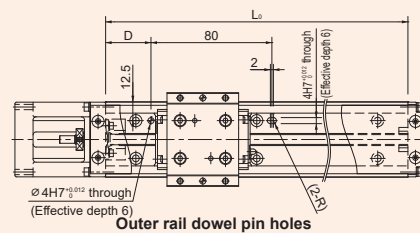
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
SKR26	A	117	117	265
	B	589	589	530



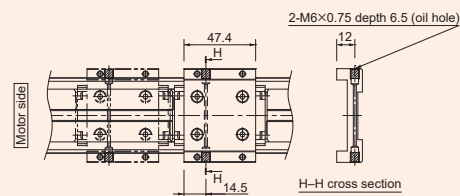
Covered Type



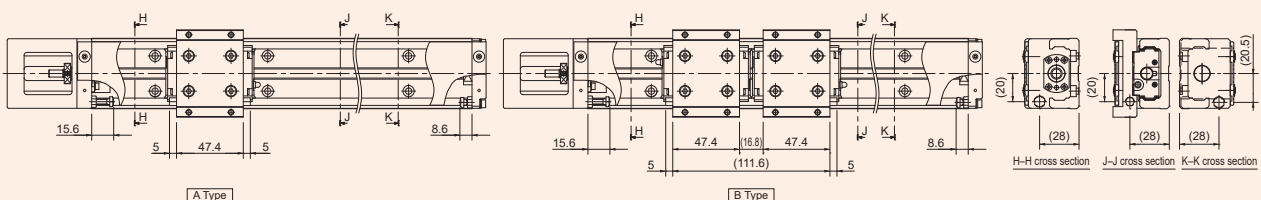
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



SKR26 A/B 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	0.15 G	27.5	27.5
			0.3 G	27.5	27.5
		Vertical	0.15 G	14	7
			0.3 G	14	7
Rated thrust ³ (N)				449	149
Maximum thrust ⁴ (N)				1229	452
Outer diameter of ball screw shaft end (mm)				ø 5h7	
Permissible input torque (N·m)				0.40	

Load Rating

Item		SKR2602	SKR2606
LM Guide	Basic dynamic load rating C (N)	13000	
	Basic static load rating C ₀ (N)	16500	
	Radial clearance (mm)	-0.006 to 0	
	Ball screw lead (mm)	2	6
Ball screw unit	Basic dynamic load rating C _a (N)	2350	1950
	Basic static load rating C _{0a} (N)	4020	3510
	Screw shaft diameter (mm)	ø 8	
	Basic dynamic load rating C _a (N)	2000	
	Static permissible load P _{0a} (N)	1230	
Bearing unit (fixed side)	Axial direction		

Motor Used and Wrapping Symbol

Wrapping specification details
(dimensions of motor mounting plate) →

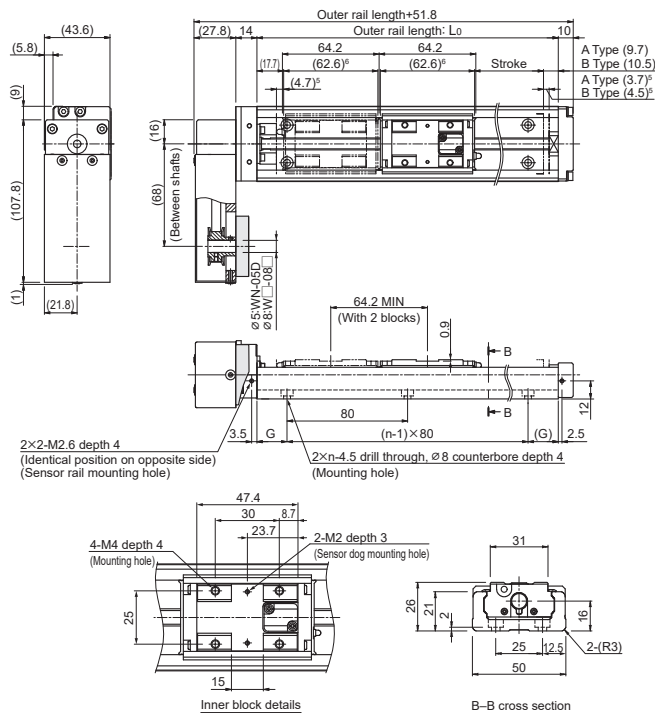
p. 24

Motor type					Rated output	Flange size	Wrapping symbol	
AC servo motor	Yaskawa Electric Corporation	Σ-V mini		SGMMV-A1	10 W	25×25	N05D	
				SGMMV-A2	20 W		N05D	
				SGMMV-A3	30 W		N05D	
		Σ-V		SGMJV-A5	50 W	40×40	Q08K	
				SGMAV-A5			Q08K	
		Σ-7		SGM7J-A5	50 W	40×40	Q08K	
				SGM7A-A5			Q08K	
		Σ-X		SGMXJ-A5	50 W	40×40	Q08K	
			SGMXA-A5	Q08K				
	Mitsubishi Electric Corporation	MELSERVO	J4		HG-AK0136	10 W	25×25	N05D
					HG-AK0236	20 W		N05D
					HG-AK0336	30 W		N05D
					HG-MR053	50 W		40×40
				HG-KR053	Q08D			
			J5		HK-KT053W	50 W	40×40	Q08D
	JN		HF-KN053	50 W	40×40	Q08D		
	Tamagawa Seiki Co., Ltd.	TBL-II		TS4602	50 W	40×40	Q08D	
			TBL-IV	TSM3102	50 W	40×40	Q08D	
	Panasonic Corporation	MINAS	A5		MSMD5A	50 W	38×38	P08K
					MSME5A			P08K
A6				MSMF5A	50 W	40×40	P08K	
				MHMF5A			Q08K	
KEYENCE CORPORATION	SV		SV-M005	50 W	40×40	Q08K		
	SV2		SV2-M005	50 W		Q08K		
SANYO DENKI CO., LTD.	SANMOTION R		R2□A04005	50 W	40×40	Q08K		
OMRON Corporation	OMNUC G5		R88M-K05030	50 W	40×40	Q08K		
FANUC CORPORATION	βis series		βis 0.2/5000	50 W	40×40	Q08K		

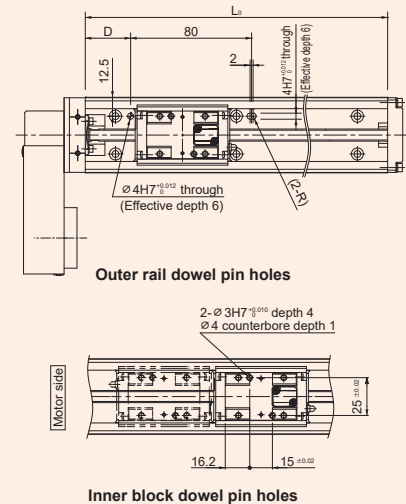
Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.

Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

Uncovered Type



Customization: Dowel Pin Holes



Dimensional 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	1.24	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 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 Rated thrust values are restricted by the rated torque of the motor (0.159 N·m) or permissible input torque.

⁴ Maximum thrust values are restricted by the Maximum instantaneous torque of the motor (0.48 N·m) or permissible input torque.

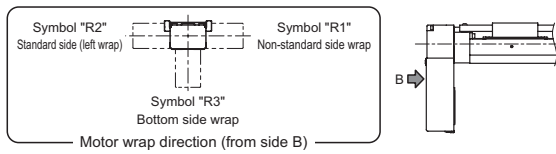
⁵ This is the distance between the mechanical stopper and the stroke starting position.

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 the value when 2 blocks are in close contact with each other (B Type).

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, values within parentheses are the maximum speed when the motor rotational speed is 6,000 min⁻¹. When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

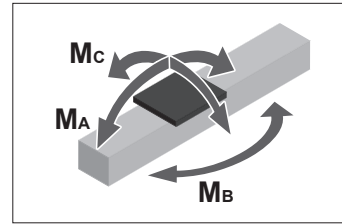
Wrapping Direction



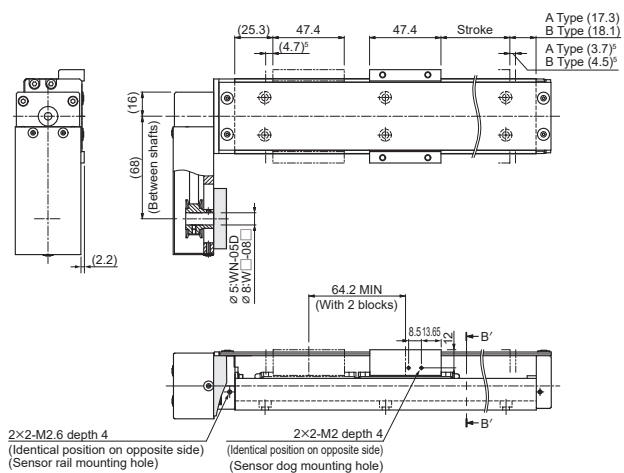
Static Permissible Moment (LM Guide)

Unit: N·m

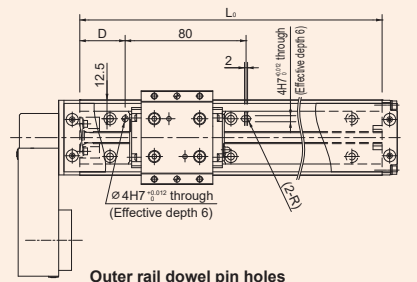
Model No.	Block type	Static permissible moment		
		M_A	M_B	M_C
SKR26	A	117	117	265
	B	589	589	530



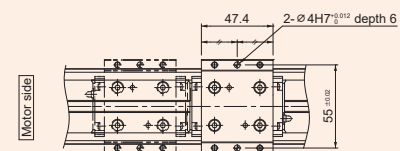
Covered Type



Customization: Dowel Pin Holes

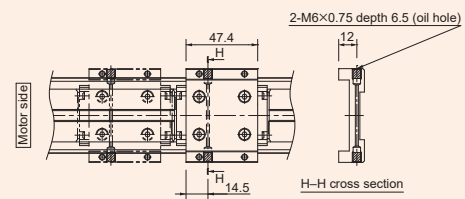


Outer rail dowel pin holes

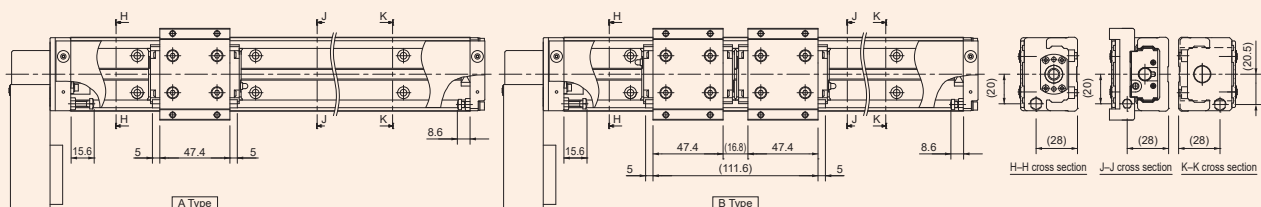


Sub-table upper surface dowel pin holes

Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



SKR26 A/B Direct Motor Coupling

Model Number Coding

Basic Configuration						Semi-Custom Series					
Model No.	Ball screw lead	Block type	Stroke	Direct coupling/ Motor wrap	Cover ¹	Housing A/ Intermediate flange Direct coupling	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)
SKR26	02: 2 mm 06: 6 mm	A: 1 block B: 2 blocks	A Type	0: Direct coupling	0: Without 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 this symbol.

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.)

⁶ When low dust-generating grease is specified, AFF Grease will be applied.

SKR20

SKR26

SKR33

SKR46

KR20

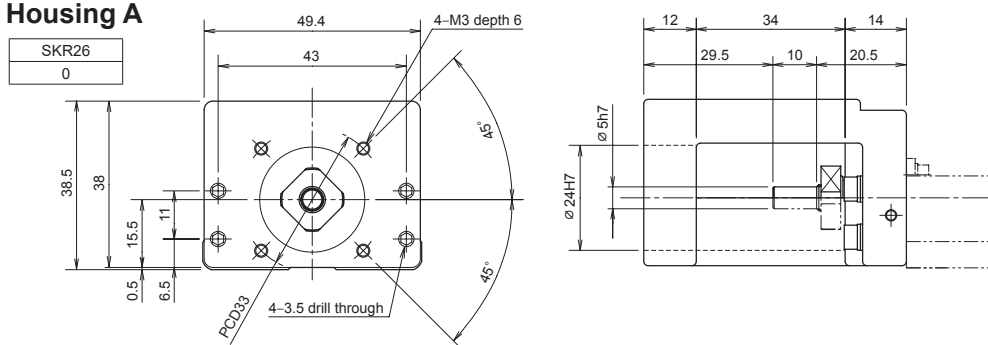
KR26

KR30H

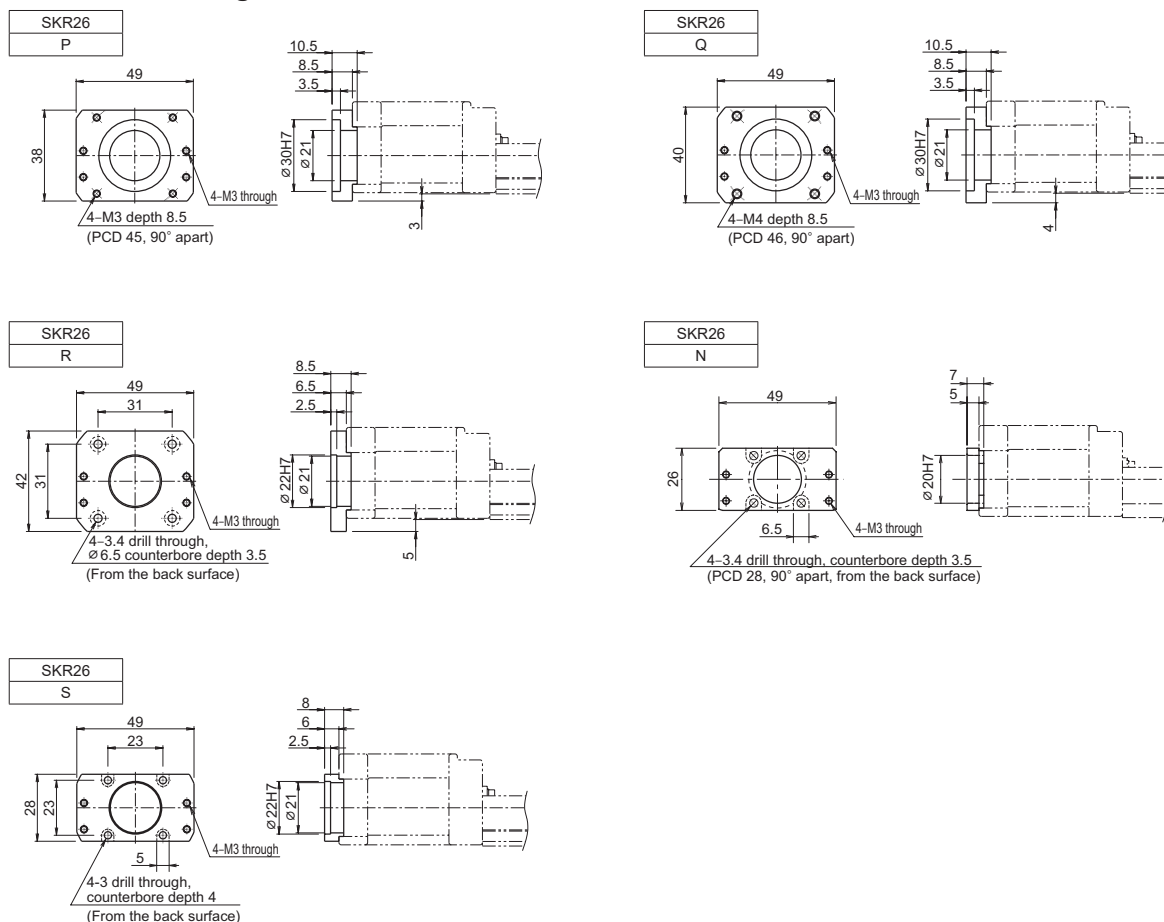
KR45H

SKR26 A/B Direct Coupling Dimensional Diagram 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/ Motor wrap	Cover ¹	Motor mounting plate	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)
SKR26	02: 2 mm 06: 6 mm	A: 1 block B: 2 blocks	A Type	R1: Non-standard side wrap R2: Standard side wrap R3: Bottom surface wrap	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								
			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 this symbol.

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.)

⁶ When low dust-generating grease is specified, AFF Grease will be applied.

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

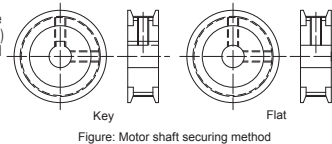
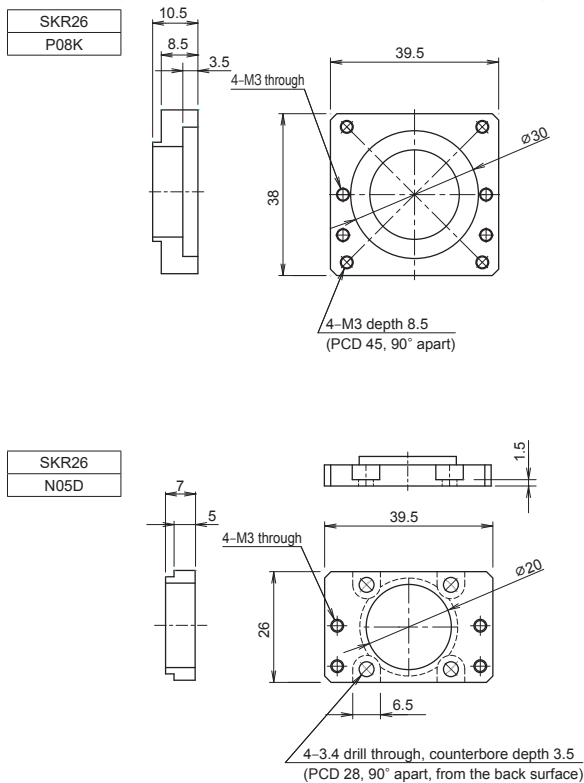


Figure: Motor shaft securing method

SKR26 A/B Motor Wrapping Dimensional Diagram 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	0.15 G	43.5	—	—
			0.3 G	43.5	34.5	—
			0.5 G	—	34.5	21
		Vertical	0.15 G	19	—	—
			0.3 G	19	12	—
			0.5 G	—	12	6
Rated thrust ³ (N)			299	179	89	
Maximum thrust ⁴ (N)			895	537	268	
Outer diameter of ball screw shaft end (mm)			ø8h7			
Permissible input torque (N·m)			2.8		3.2	

Load Rating

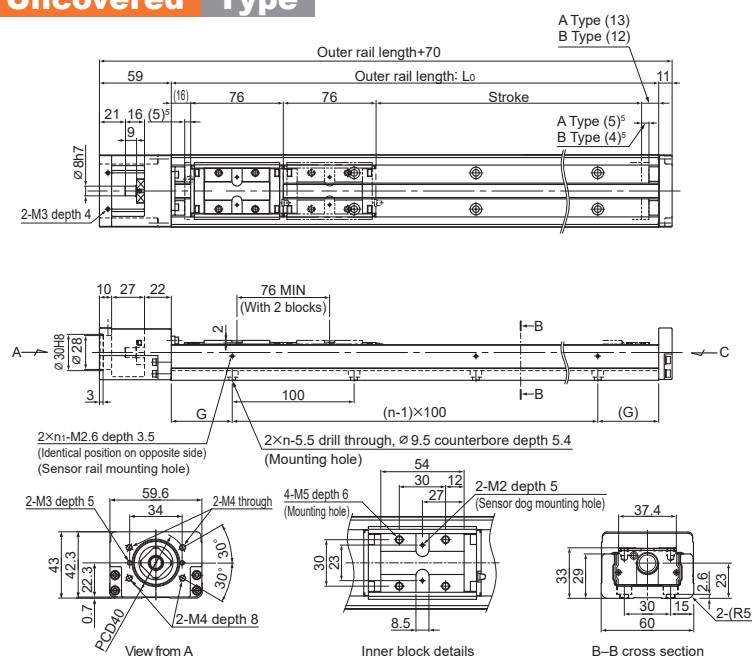
		Item	SKR3306	SKR3310	SKR3320
LM Guide		Basic dynamic load rating C (N)		17000	
		Basic static load rating C ₀ (N)		20400	
		Radial clearance (mm)	-0.004 to 0		
Ball screw unit		Ball screw lead (mm)	6	10	20
		Basic dynamic load rating C _a (N)	4400	2700	2620
		Basic static load rating C _{0a} (N)	6290	3780	3770
		Screw shaft diameter (mm)	ø 13		
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 Intermediate flange dimensions **p. 29**

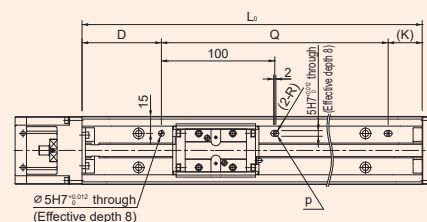
Motor type			Rated output	Flange size	Intermediate flange symbol
AC servo motor	Yaskawa Electric Corporation	Σ-V	SGMJV-A5	50 W	Q
			SGMAV-A5		Q
			SGMJV-01	100 W	Q
			SGMAV-01		Q
			SGMDV-C2		150 W

Motor type				Rated output	Flange size	Intermediate flange symbol	
AC servo motor	Yaskawa Electric Corporation	Σ-7	SGM7J-A5	50 W	40×40	Q	
			SGM7A-A5			Q	
			SGM7J-01	100 W		Q	
			SGM7A-01			Q	
			SGM7J-C2	150 W		Q	
		Σ-X	SGMXJ-A5	50 W	40×40	Q	
			SGMXA-A5			Q	
			SGMXJ-01	100 W		Q	
			SGMXA-01			Q	
			SGMXJ-C2	150 W		Q	
	Mitsubishi Electric Corporation	MELSERVO	J4	HG-MR053	50 W	40×40	Q
				HG-KR053			Q
				HG-MR13	100 W		Q
				HG-KR13			Q
		J5	HK-KT053W	50 W	40×40	Q	
			HK-KT13W	100 W		Q	
			HF-KN053	50 W		40×40	Q
			HF-KN13	100 W			Q
	Tamagawa Seiki Co., Ltd.	TBL-III		TS4602	50 W	40×40	Q
				TS4603	100 W		Q
				TS4604	150 W		Q
		TBL-IV		TSM3102	50 W	40×40	Q
				TSM3104	100 W		Q
Panasonic Corporation	MINAS	A5	MSMD5A	50 W	38×38	P	
			MSME5A			P	
			MSMD01	100 W		P	
			MSME01			P	
		A6	MSMF5A	50 W	38×38	P	
			MHMF5A		40×40	Q	
			MSMF01	100 W	38×38	P	
			MHMF01		40×40	Q	
KEYENCE CORPORATION	SV		SV-M005	50 W	40×40	Q	
			SV-M010	100 W		Q	
	SV2		SV2-M005	50 W		Q	
			SV2-M010	100 W		Q	

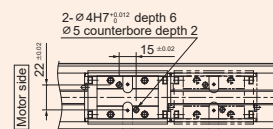
Uncovered Type



Customization: Dowel Pin Holes



Outer rail dowel pin holes



Inner block dowel pin holes

Dimensional 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 ^s	—	—	120 (129)	220 (229)	320 (329)	420 (429)	520 (529)	
Maximum speed ^r (mm/s)	Ball screw lead	6 mm	300 (600)				300 (550)	300 (390)	
		10 mm	500 (1000)				500 (920)	500 (650)	
		20 mm	1000 (2000)				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 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 Rated thrust values are restricted by the rated torque of the motor (0.318 N·m) or permissible input torque.

⁴ Maximum thrust values are restricted by the maximum instantaneous torque of the motor (0.95 N·m) or permissible input torque.

⁵ This is the distance between the mechanical stopper and the stroke starting position.

⁶ This indicates the value when 2 blocks are in close contact with each other (B Type).

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.

the permissible rotational speed of the ball screw. However, values within parentheses are the maximum speed when the motor rotational speed is 6,000 min⁻¹. When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

		Motor type		Rated output	Flange size	Intermediate flange symbol
AC servo motor	SANYO DENKI CO., LTD.	SANMOTION R	R2□A04005	50 W		Q
			R2EA04008	80 W		Q
			R2□A04010	100 W		Q
	OMRON Corporation	OMNUG G5	R88M-K05030	50 W	40×40	Q
			R88M-K10030	100 W	40×40	Q
	FANUC CORPORATION	1S	R88M-1M10030	100 W	40×40	Q
		βis series	βis 0.2/5000 βis0.3/5000	50 W 100 W	40×40	Q R
Stepper motor	Oriental Motor	αStep	AZ4*, AR4* (this excludes AZM48)		42×42	R
			AZ4*, AR4* (AZM48)		42×42	R
			AZ6*, AR6*		60×60	U
			CRK54*		42×42	R
		5-phase	CRK	CRK56* ø8 564, 566	60×60	U
				CRK56* ø10 569	60×60	U
			RK II	RK554*	42×42	R
				RK556*	60×60	U
		PKP	PKP54*	PKP56* ø8 564	56.4×56.4	T
				PKP56* ø8 564, 566	60×60	U
			PKP/ CVD	PKP24*	42×42	R
				PKP26*	56.4×56.4	T
	SANYO DENKI CO., LTD.	PB	PBDM423, PBA* *423		42×42	R
			PBDM60*, PBA* *60*		60×60	U
		5-phase	FAF54*/FDF54*/FA511M42/FB511M42		42×42	R
			FAM56*/FDM56*/FA512M60/FB512M60		60×60	U
		2-phase	DB14H52*		42×42	R
			DU15H52*		42×42	R
			D*16H71*		56×56	T
			DB16H78*		60×60	U
	KEYENCE CORPORATION	2-phase	QS-M42		42×42	R
			QS-M60		60×60	U

Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.

Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

Recommended Coupling

Manufacturer	MIKI PULLEY CO., LTD.	Nabeya Bi-tech Kaisha (NBK)
Model No.	SFC-010DA2* / SFC-020DA2 ø 8	XGT2-19C ø 8

*When using a FANUC motor.

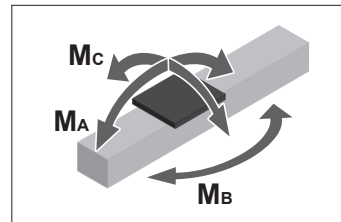
Note 3: The table shows only a portion of the model numbers for couplings. For details regarding model numbers, please see the catalog for each respective coupling manufacturer.

Note 4: The recommended couplings are for when a servo motor is used. When using a stepper motor, please confirm using the Optimal Product Selection Tool.

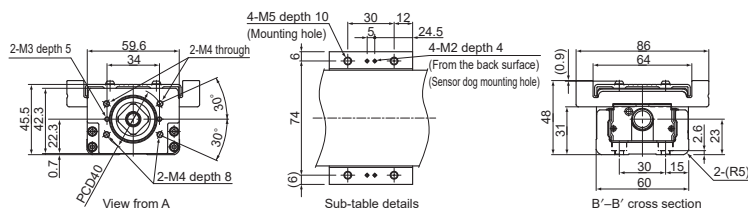
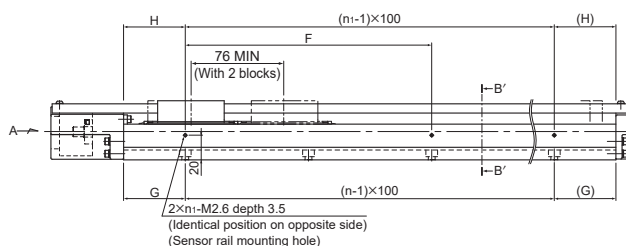
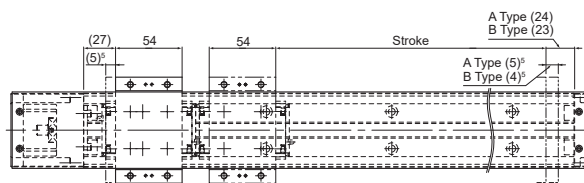
Static Permissible Moment (LM Guide)

Unit: N·m

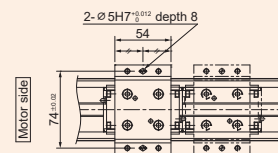
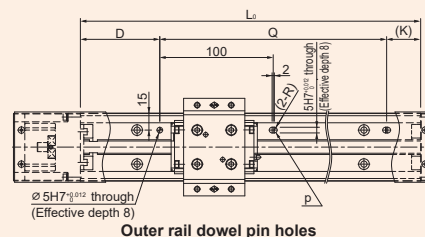
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
SKR33	A	173	173	424
	B	990	990	848



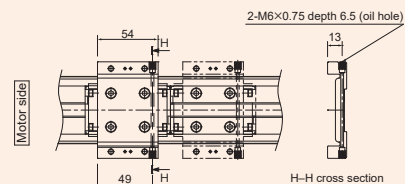
Covered Type



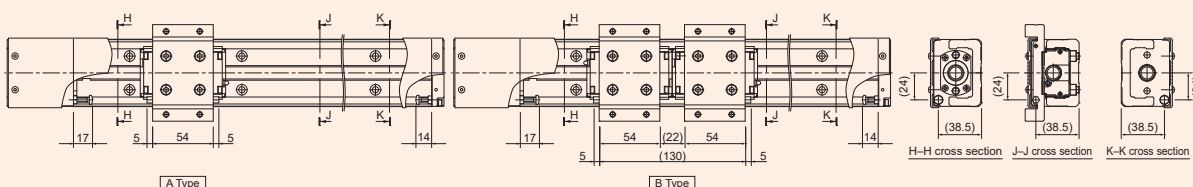
Customization: Dowel Pin Holes



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	0.15 G	43.5	—
			0.3 G	43.5	34.5
			0.5 G	—	34.5
		Vertical	0.15 G	19	—
			0.3 G	19	11.5
			0.5 G	—	11.5
Rated thrust ³ (N)			299	179	89
Maximum thrust ⁴ (N)			895	537	268
Outer diameter of ball screw shaft end (mm)			ø 8h7		
Permissible input torque (N·m)			0.98		

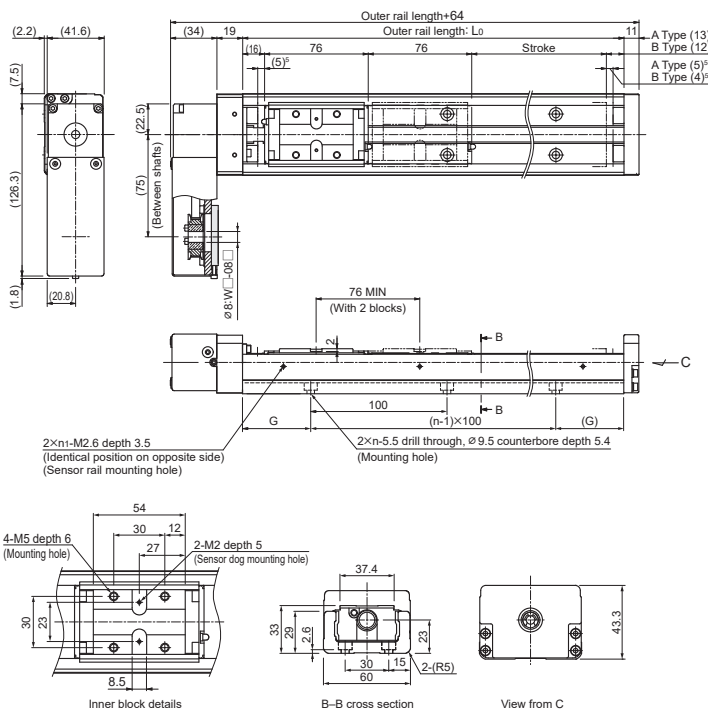
Load Rating

		Item	SKR3306	SKR3310	SKR3320
LM Guide		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		Ball screw lead (mm)	6	10	20
		Basic dynamic load rating Ca (N)	4400	2700	2620
		Basic static load rating C _{0a} (N)	6290	3780	3770
		Screw shaft diameter (mm)	ø 13		
Bearing unit (fixed side)	Axial direction	Basic dynamic load rating Ca (N)	6250		
		Static permissible load P _{0a} (N)	2700		

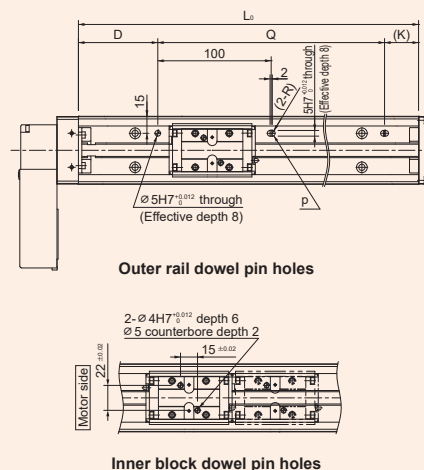
Motor Used and Wrapping Symbol

Motor type				Rated output	Flange size	Wrapping symbol	
AC servo motor	Yaskawa Electric Corporation	Σ-V	SGMJV-A5	50 W	40×40	Q08K, Q08M	
			SGMAV-A5			Q08K, Q08M	
			SGMJV-01	100 W		Q08K, Q08M	
			SGMAV-01			Q08K, Q08M	
			SGMJV-C2	150 W		Q08K, Q08M	
		Σ-7	SGMT7J-A5	50 W	40×40	Q08K, Q08M	
			SGMT7A-A5			Q08K, Q08M	
			SGMT7J-01	100 W		Q08K, Q08M	
			SGMT7A-01			Q08K, Q08M	
			SGMT7J-C2	150 W		Q08K, Q08M	
		Σ-X	SGMXJ-A5	50 W	40×40	Q08K, Q08M	
			SGMXA-A5			Q08K, Q08M	
			SGMXJ-01	100 W		Q08K, Q08M	
			SGMXA-01			Q08K, Q08M	
			SGMXJ-C2	150 W		Q08K, Q08M	
	Mitsubishi Electric Corporation	MELSERVO	J4	HG-MR053	50 W	40×40	Q08D, Q08M
				HG-KR053			Q08D, Q08M
				HG-MR13			Q08D, Q08M
				HG-KR13			Q08D, Q08M
			J5	HK-KT053W	50 W	40×40	Q08D, Q08M
				HK-KT13W	100 W		Q08D, Q08M
JN				HF-KN053	50 W	40×40	Q08D, Q08M
	HF-KN13			100 W	Q08D, Q08M		
Tamagawa Seiki Co., Ltd.	TBL-iII	TS4602	50 W	40×40	Q08D, Q08M		
		TS4603	100 W		Q08D, Q08M		
		TS4604	150 W		Q08D, Q08M		
		TSM3102	50 W		40×40	Q08D, Q08M	
	TBL-iIV	TSM3104	100 W	Q08D, Q08M			

Uncovered	Type
1	1
2	2
3	3
4	4
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74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100



Customization: Dowel Pin Holes



Dimensional 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)					300 (550)	300 (390)
		10 mm	500 (1000)					500 (920)	500 (650)
		20 mm	1000 (2000)					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	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 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 Rated thrust values are restricted by the rated torque of the motor (0.318 N·m) or permissible input torque.

⁴ Maximum thrust values are restricted by the maximum instantaneous torque of the motor (0.95 N·m) or permissible input torque.

⁵ This is the distance between the mechanical stopper and the stroke starting position.

⁶ This indicates the value when 2 blocks are in close

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, values within parentheses are the maximum speed when the motor rotational speed is 6,000 min⁻¹. When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

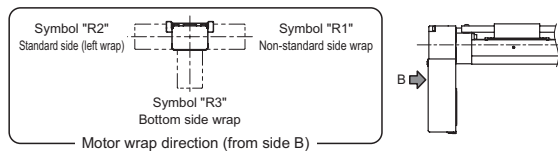
Wrapping specification details (dimensions of motor mounting plate) ⇒ p. 30

Motor type	Rated output	Flange size	Wrapping symbol
AC servo motor	Panasonic Corporation	MINAS	A5
			MSMD5A
			MSME5A
			MSMD01
			MSME01
	KEYENCE CORPORATION	SV	SV-M005
			SV-M010
			SV2-M005
			SV2-M010
	SANYO DENKI CO., LTD.	SANMOTION R	R2□A04005
			R2EA04008
			R2□A04010
	OMRON Corporation	OMNUC G5	R88M-K05030
			R88M-K10030
			1S
			R88M-1M10030

Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.

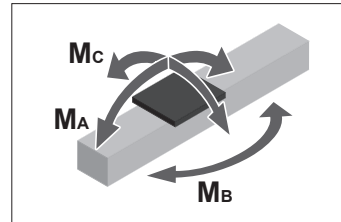
Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

Wrapping Direction

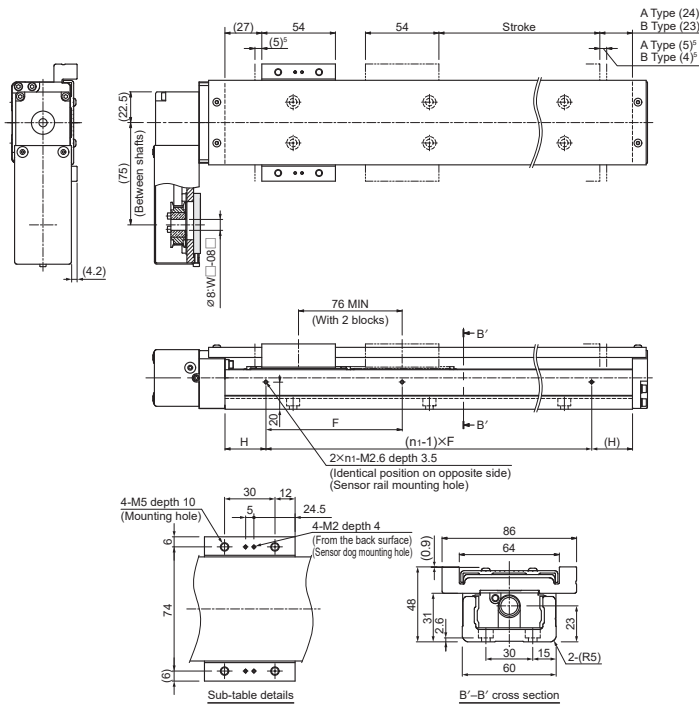


Static Permissible Moment (LM Guide) Unit: N·m

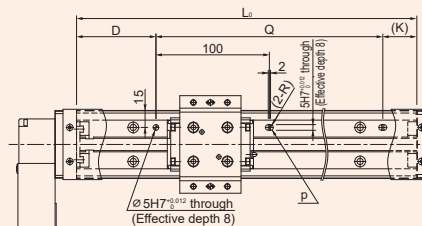
Model No.	Block type	Static permissible moment		
		M_A	M_B	M_C
SKR33	A	173	173	424
	B	990	990	848



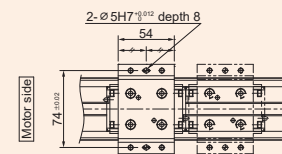
Covered Type



Customization: Dowel Pin Holes

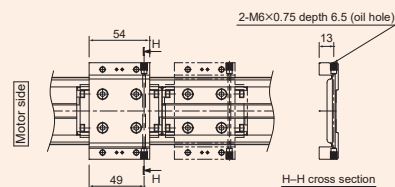


Outer rail dowel pin holes

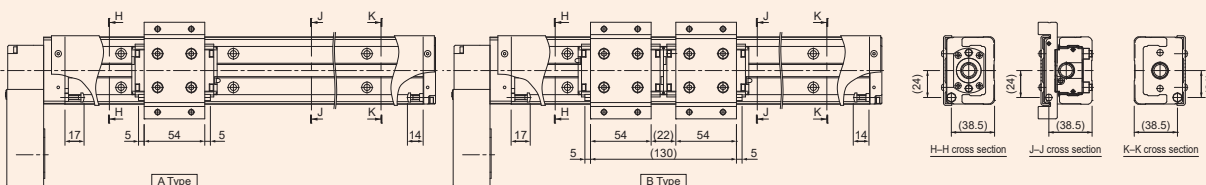


Sub-table upper surface dowel pin holes

Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



SKR33 A/B Direct Motor Coupling

Model Number Coding

Basic Configuration							Semi-Custom Series					
Model No.	Ball screw lead	Block type	Stroke		Direct coupling/ Motor wrap	Cover ¹	Housing A/ Intermediate flange	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)
SKR33	06: 6 mm 10: 10 mm 20: 20 mm	A: 1 block B: 2 blocks	A Type		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)
			B Type									
			0045: 45 mm	0120: 120 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 this symbol.

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.)

⁶ When low dust-generating grease is specified, AFF Grease will be applied.

SKR20

SKR26

SKR33

SKR46

KR20

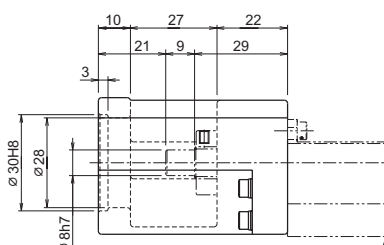
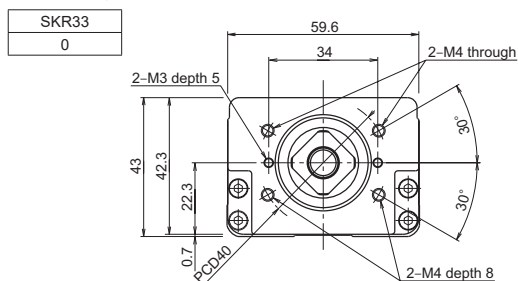
KR26

KR30H

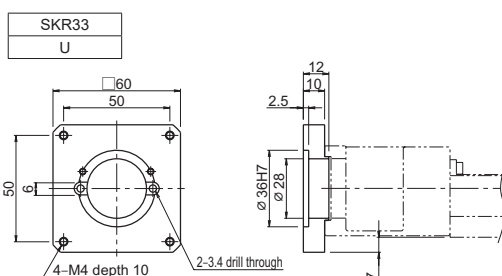
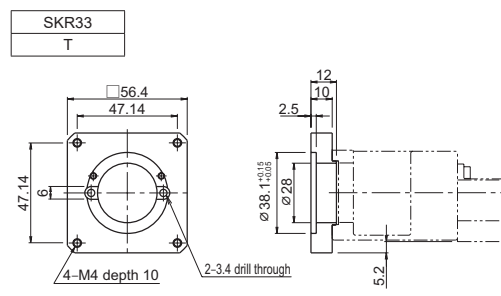
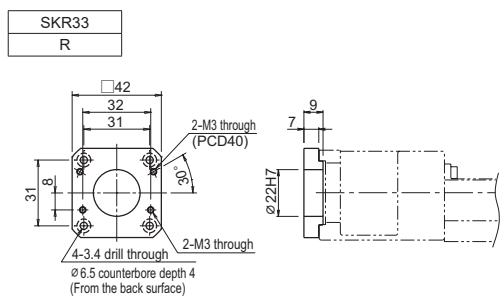
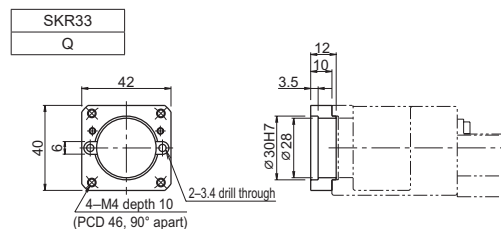
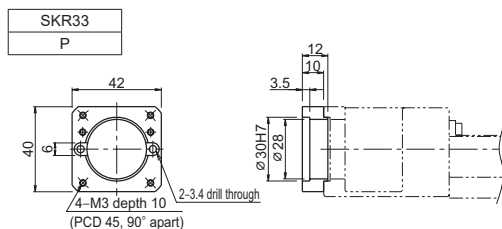
KR45H

SKR33 A/B Direct Coupling Dimensional Diagram 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/ Motor wrap	Cover ¹	Motor mounting plate	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)
SKR33	06: 6 mm 10: 10 mm 20: 20 mm	A: 1 block B: 2 blocks	A Type		R1: Non-standard side wrap R2: Standard side wrap R3: Bottom surface wrap	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)
			B Type									
			0045: 45 mm	0120: 120 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 this symbol.
- 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.)
- ⁶ When low dust-generating grease is specified, AFF Grease will be applied.

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

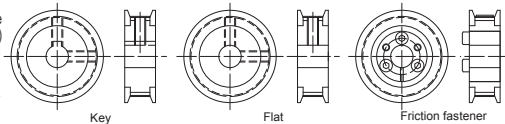


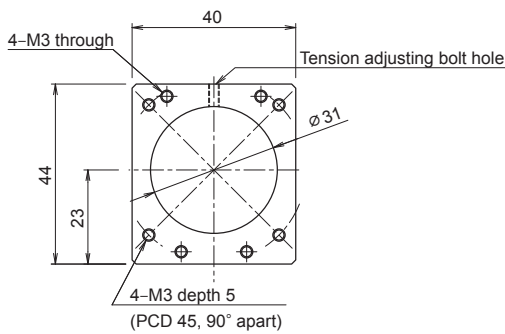
Figure: Motor shaft securing method

SKR33 A/B Motor Wrapping Dimensional Diagram for Motor Mounting

Wrapping Specifications (Motor Mounting Plate)

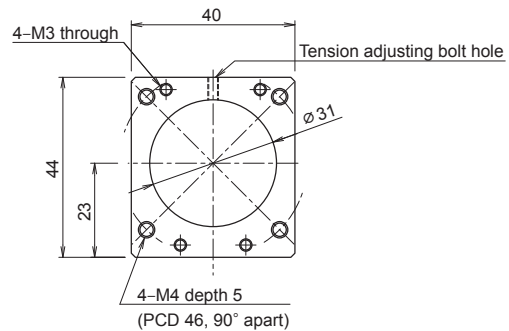
SKR33
P08K/P08D/P08M

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	0.15 G	31.5	—
			0.3 G	31.5	27
			0.5 G	—	27
		Vertical	0.15 G	10.5	—
			0.3 G	10.5	8.5
			0.5 G	—	8.5
Rated thrust ³ (N)				299	179
Maximum thrust ⁴ (N)				895	537
Outer diameter of ball screw shaft end (mm)				ø 8h7	
Permissible input torque (N·m)				2.8	3.2

Load Rating

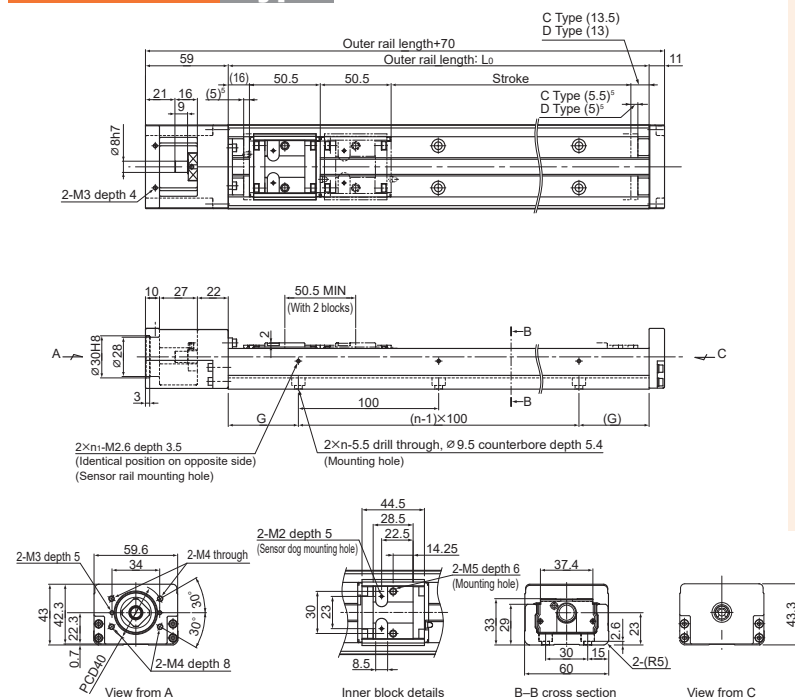
Item		SKR3306	SKR3310
LM Guide	Basic dynamic load rating C (N)	11300	
	Basic static load rating C ₀ (N)	11500	
	Radial clearance (mm)	-0.004 to 0	
Ball screw unit	Ball screw lead (mm)	6	10
	Basic dynamic load rating C _a (N)	4400	2700
	Basic static load rating C _{a0} (N)	6290	3780
	Screw shaft diameter (mm)	ø 13	
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 Intermediate flange dimensions → **p. 35**

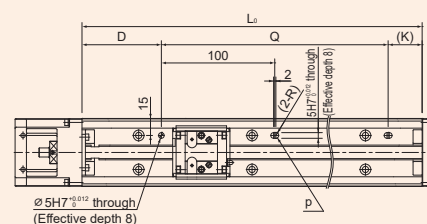
Motor type			Rated output	Flange size	Intermediate flange symbol
AC servo motor	Yaskawa Electric Corporation	Σ-V	SGMJV-A5	50 W	Q
			SGMAV-A5		Q
			SGMJV-01	100 W	Q
			SGMAV-01		Q
			SGMJV-C2		150 W

Motor type				Rated output	Flange size	Intermediate flange symbol		
AC servo motor	Yaskawa Electric Corporation	Σ-7	SGM7J-A5	50 W	40×40	Q		
			SGM7A-A5			Q		
			SGM7J-01	100 W		Q		
			SGM7A-01			Q		
		Σ-X	SGM7J-C2	150 W	40×40	Q		
			SGMXJ-A5	50 W		Q		
			SGMXA-A5			Q		
			SGMXJ-01	100 W		Q		
			SGMXA-01			Q		
			SGMXJ-C2	150 W		Q		
	Mitsubishi Electric Corporation	J4	HG-MR053	50 W	40×40	Q		
			HG-KR053			Q		
			HG-MR13	100 W		Q		
			HG-KR13			Q		
		J5	HK-KT053W	50 W	40×40	Q		
			HK-KT13W	100 W		Q		
			JN	HF-KN053		50 W	40×40	Q
				HF-KN13		100 W		Q
	Tamagawa Seiki Co., Ltd.	TBL-III	TS4602	50 W	40×40	Q		
			TS4603	100 W		Q		
			TS4604	150 W		Q		
		TBL-IV	TSM3102	50 W	40×40	Q		
			TSM3104	100 W		Q		
		Panasonic Corporation	MINAS	A5	MSMD5A	50 W	38×38	P
MSME5A					P			
MSMD01	100 W				P			
A6	MSME01				P			
	MSMF5A			50 W	38×38	P		
	MHMF5A				40×40	Q		
	MSMF01		100 W	38×38	P			
	MHMF01			40×40	Q			
KEYENCE CORPORATION	SV	SV-M005	50 W	40×40	Q			
		SV-M010	100 W		Q			
	SV2	SV2-M005	50 W		Q			
		SV2-M010	100 W		Q			

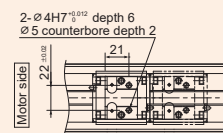
Uncovered	Type
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
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88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100



Customization: Dowel Pin Holes



Outer rail dowel pin holes



Inner block dowel pin holes

Dimensional 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 ^e		20 (30)	70 (80)	170 (180)	270 (280)	370 (380)	470 (480)	570 (580)
Maximum speed ^d (mm/s)	Ball screw lead	6 mm	300 (600)					300 (500)	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 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 Rated thrust values are restricted by the rated torque of the motor (0.318 N·m) or permissible input torque.

⁴ Maximum thrust values are restricted by the maximum instantaneous torque of the motor (0.95 N·m) or permissible input torque.

⁵ This is the distance between the mechanical stopper and the stroke starting position.

⁶ This indicates the value when 2 blocks (D Type) are

⁷ The maximum speed is the value restricted by the

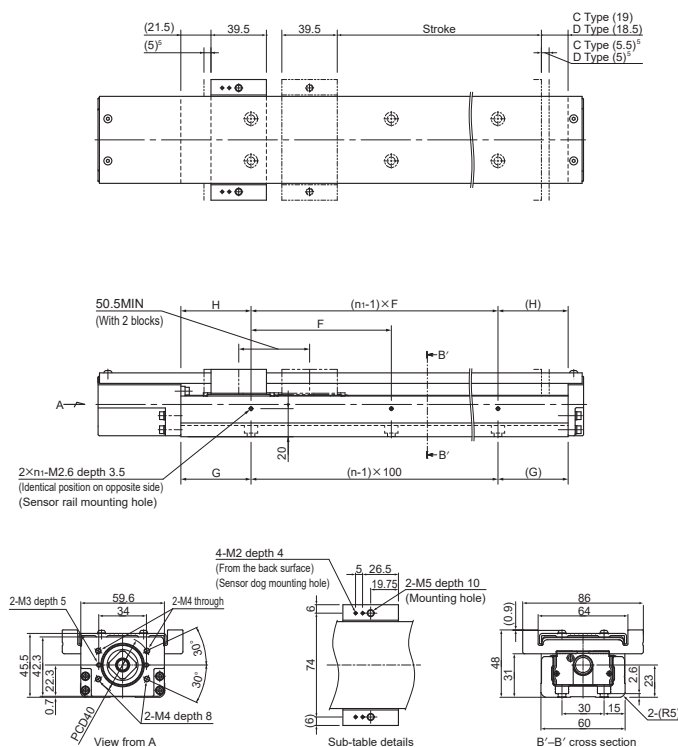
The maximum speed is the value restricted by the rotational speed of the motor (at 3,000 min⁻¹) or by the permissible rotational speed of the ball screw. However, values within parentheses are the maximum speed when the motor rotational speed is 6,000 min⁻¹. When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

Motor type			Rated output	Flange size	Intermediate flange symbol		
AC servo motor	SANYO DENKI CO., LTD.	SANMOTION R	R2□A04005	50 W	Q		
			R2EA04008	80 W	Q		
		OMRON Corporation	OMNUG G5	R2□A04010	100 W	Q	
	R88M-K05030			50 W	Q		
	R88M-K10030			100 W	Q		
	FANUC CORPORATION	1S	R88M-1M10030	100 W	40×40	Q	
		βis series	βis 0.2/5000	50 W	40×40	Q	
βis0.3/5000			100 W	40×40	Q		
Stepper motor	Oriental Motor	αStep	AZ4*, AR4* (this excludes AZM48)		42×42	R	
			AZ4*, AR4* (AZM48)		42×42	R	
			AZ6*, AR6*		60×60	U	
			CRK54*		42×42	R	
		5-phase	CRK	CRK56* ø 8 564, 566		60×60	U
				CRK56* ø 10 569		60×60	U
				RKS54*		42×42	R
			RK II	RKS56*		60×60	U
				PKP54*		42×42	R
				PKP56* ø 8 564		56.4×56.4	T
		2-phase	PKP/ CVD	PKP56* ø 8 564, 566		60×60	U
				PKP24*		42×42	R
				PKP26*		56.4×56.4	T
		SANYO DENKI CO., LTD.	PB	PBDM423, PBA* *423		42×42	R
	PBDM60*, PBA* *60*			60×60	U		
	5-phase		FAF54*/FDF54*/FA511M42/FB511M42		42×42	R	
			FAM56*/FDM56*/FA512M60/FB512M60		60×60	U	
			2-phase	DB14H52*		42×42	R
				DU15H52*		42×42	R
	D*16H71*			56×56	T		
DB16H78*				60×60	U		
KEYENCE CORPORATION	2-phase		QS-M42		42×42	R	
			QS-M60		60×60	U	

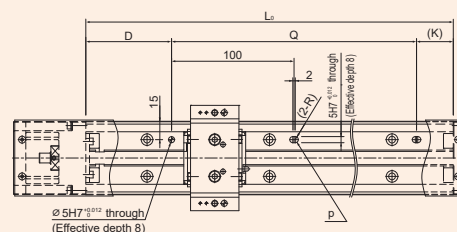
Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.

Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

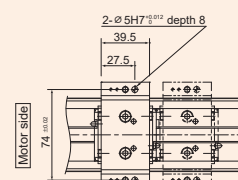
Covered	Type



Customization: Dowel Pin Holes

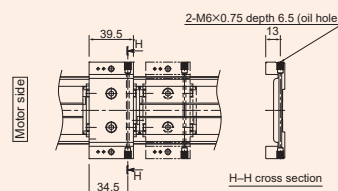


Outer rail dowel pin holes

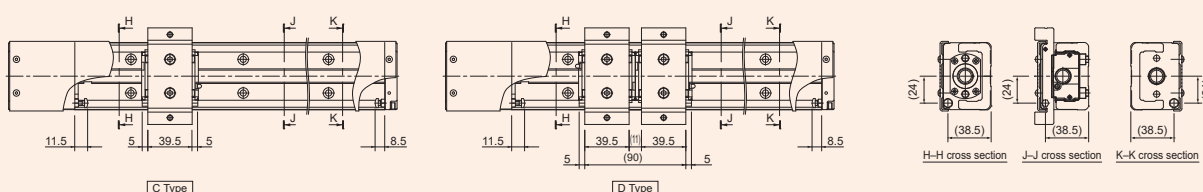


Sub-table upper surface dowel pin holes

Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



D Type

SKR33 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	0.15 G	31.5	—
			0.3 G	31.5	27
			0.5 G	—	27
		Vertical	0.15 G	10.5	—
			0.3 G	10.5	8.5
			0.5 G	—	8.5
Rated thrust ³ (N)				299	179
Maximum thrust ⁴ (N)				895	537
Outer diameter of ball screw shaft end (mm)				ø8h7	
Permissible input torque (N·m)				0.98	

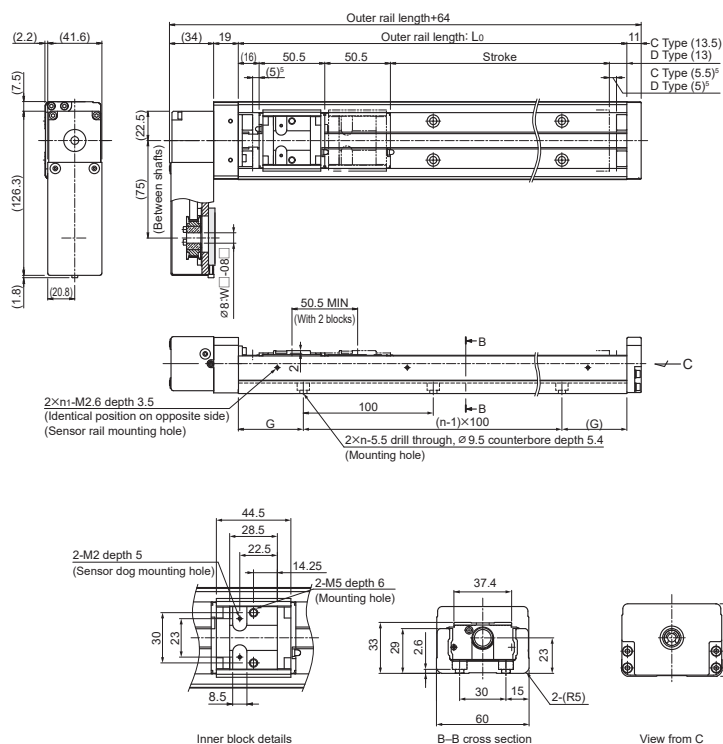
Load Rating

Item		SKR3306	SKR3310
LM Guide	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	Ball screw lead (mm)	6	10
	Basic dynamic load rating C _a (N)	4400	2700
	Basic static load rating C _{0a} (N)	6290	3780
	Screw shaft diameter (mm)	ø13	
	Basic dynamic load rating C _a (N)	6250	
	Static permissible load P _{0a} (N)	2700	
Bearing unit (fixed side)	Axial direction		

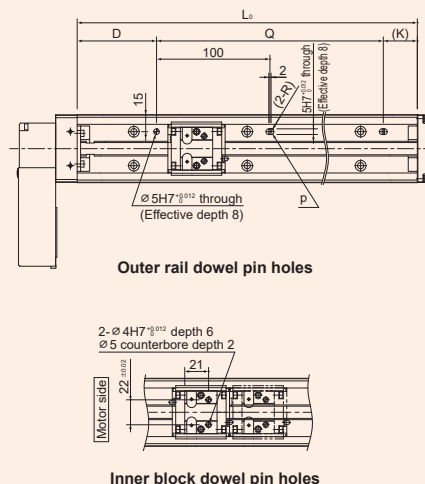
Motor Used and Wrapping Symbol

Motor type		Rated output	Flange size	Wrapping symbol
AC servo motor	Yaskawa Electric Corporation	Σ-V	50 W	Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
		Σ-7	100 W	Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
		Σ-X	150 W	Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
	Mitsubishi Electric Corporation	Σ-7	50 W	Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
		Σ-X	100 W	Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
		MELSERVO	50 W	Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M
	Tamagawa Seiki Co., Ltd.	J4	100 W	Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M
		J5	50 W	Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M
	TBL-II/IV	TBL-II	50 W	Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M
		TBL-IV	100 W	Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M

Uncovered Type



Customization: Dowel Pin Holes



Dimensional 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 (360)
		10 mm	500 (1000)						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
No. of elongated holes	p		1	1	1	1	2	2	2
	n		2	2	3	4	5	6	7
No. of mounting holes	n ₁		2	2	2	2	3	3	4
	C Type		2	2.4	3.1	3.8	4.6	5.3	6
Mass (kg)	Uncovered	D Type	2.2	2.6	3.3	4	4.8	5.5	6.2
		C Type	2.2	2.6	3.4	4.1	4.9	5.7	6.4
	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 Rated speed refers to the speed at the rated rotational speed of the motor (at 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 Rated thrust values are restricted by the rated torque of the motor (0.318 N·m) or permissible input torque.

⁴ Maximum thrust values are restricted by the maximum instantaneous torque of the motor (0.95 N·m) or permissible input torque.

⁵ This is the distance between the mechanical stopper and the stroke starting position.

⁶ This indicates the value when 2 blocks (D Type) 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, values within parentheses are the maximum speed when the motor rotational speed is 6,000 min⁻¹. When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

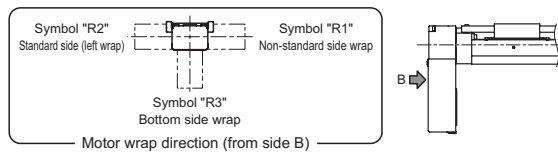
Wrapping specification details (dimensions of motor mounting plate) ⇒ p. 36

Motor type					Rated output	Flange size	Wrapping symbol
AC servo motor	Panasonic Corporation	MINAS	A5	MSMD5A	50 W	38×38	P08K, P08D, P08M
				MSME5A			P08K, P08D, P08M
				MSMD01	100 W		P08K, P08D, P08M
			MSME01	P08K, P08D, P08M			
		A6	M5MF5A	50 W	38×38	P08K, P08M	
			MHMF5A		40×40	Q08K, Q08M	
			MSMF01	100 W	38×38	P08K, P08M	
			MHMF01		40×40	Q08K, Q08M	
	KEYENCE CORPORATION	SV	SV-M005	50 W	40×40	Q08K, Q08M	
			SV-M010			Q08K, Q08M	
		SV2	SV2-M005			50 W	Q08K, Q08M
			SV2-M010			100 W	Q08K, Q08M
	SANYO DENKI CO., LTD.	SANMOTION R	R2□A04005	50 W	40×40	Q08M	
			R2EA04008	80 W		Q08M	
			R2□A04010	100 W		Q08M	
OMRON Corporation	OMNUC G5	R88M-K05030	50 W	40×40	Q08K, Q08M		
		R88M-K10030	100 W		Q08K, Q08M		
	1S	R88M-1M10030	100 W		Q08K, Q08M		

Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.

Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

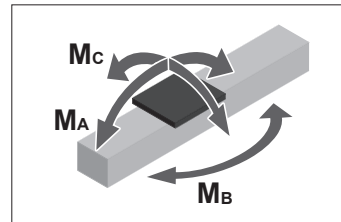
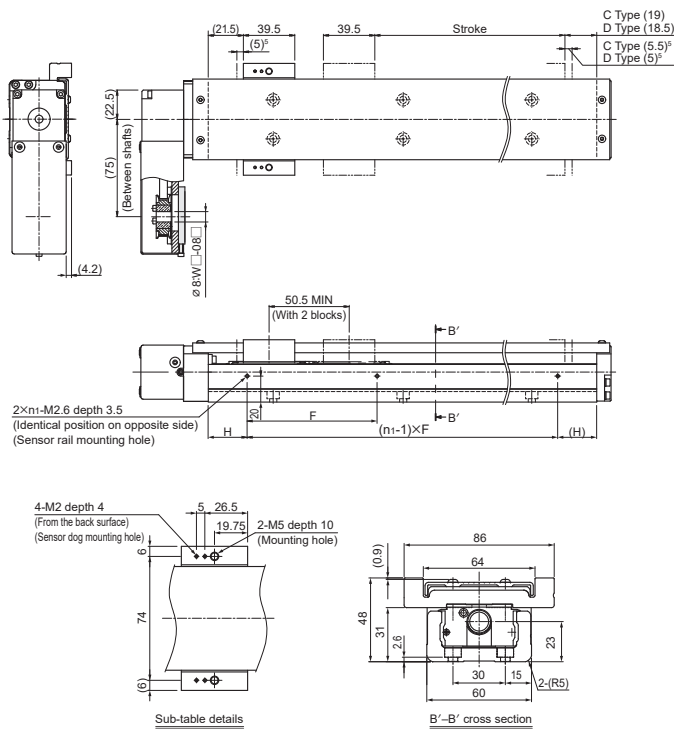
Wrapping Direction



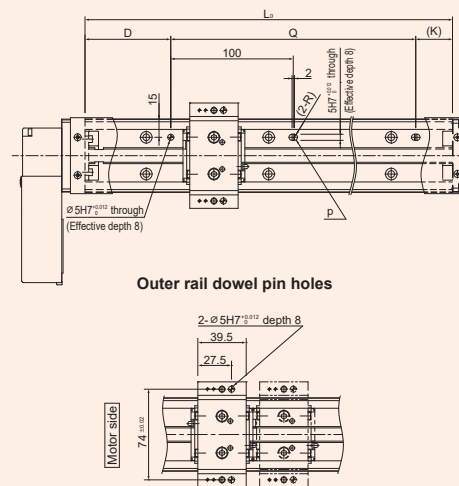
Static Permissible Moment (LM Guide)

Unit: N·m

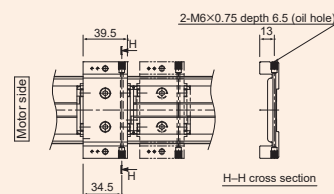
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
SKR33	C	58	58	240
	D	390	390	480

[illegible]

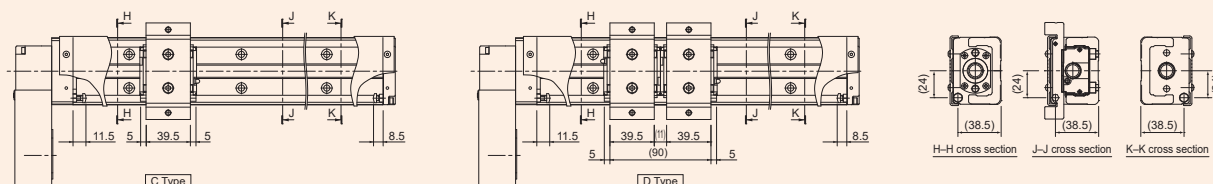
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



SKR33 C/D Direct Motor Coupling

Model Number Coding

Basic Configuration							Semi-Custom Series					
Model No.	Ball screw lead	Block type	Stroke		Direct coupling/ Motor wrap	Cover ¹	Housing A/ Intermediate flange	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)
SKR33	06: 6 mm	C: 1 block (short block)	C Type		0: Direct coupling	0: Without 1: With	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)
	D Type											
	10: 10 mm	0070: 70 mm	0020: 20 mm									
		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										
							P/Q/R/T/U (Housing A and intermediate flange) See the following table					

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

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.)

⁶ When low dust-generating grease is specified, AFF Grease will be applied.

SKR20

SKR26

SKR33

SKR46

KR20

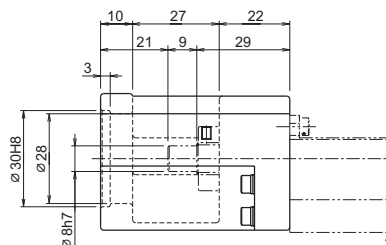
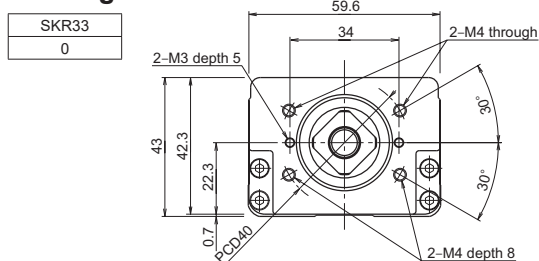
KR26

KR30H

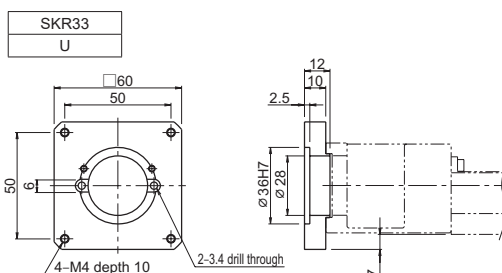
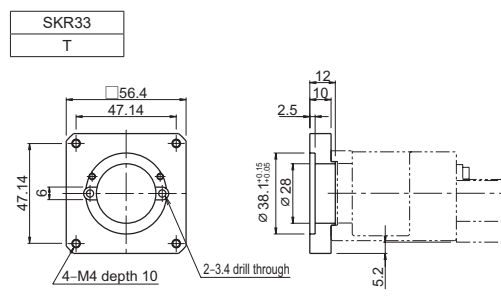
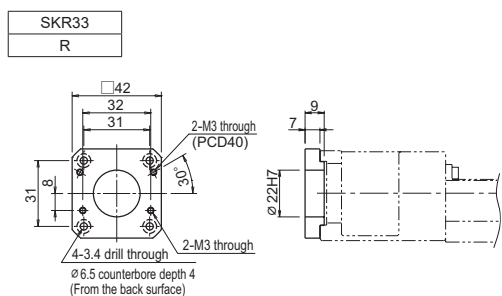
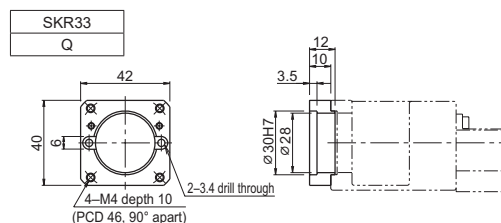
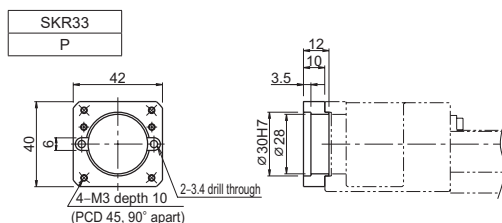
KR45H

SKR33 C/D Direct Coupling Dimensional Diagram 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/ Motor wrap	Cover ¹	Motor mounting plate	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)
SKR33	06: 6 mm 10: 10 mm	C: 1 block (short block) D: 2 blocks (short block)	C Type		R1: Non-standard side wrap R2: Standard side wrap R3: Bottom surface wrap	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)
			D Type									
			0070: 70 mm	0020: 20 mm								
			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 this symbol.

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.)

⁶ When low dust-generating grease is specified, AFF Grease will be applied.

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

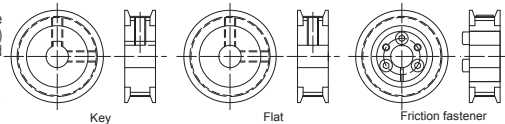


Figure: Motor shaft securing method

SKR33 C/D Motor Wrapping Dimensional Diagram for Motor Mounting

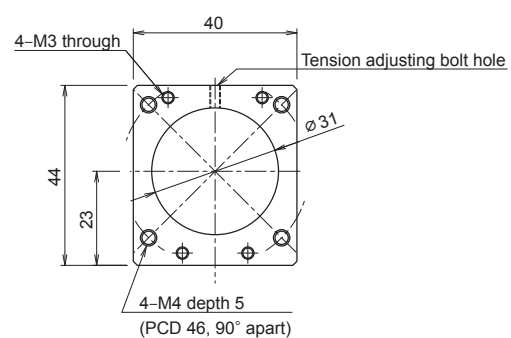
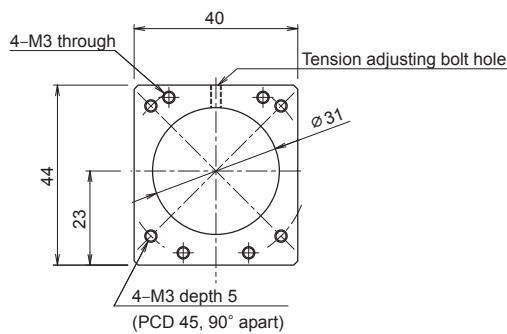
Wrapping Specifications (Motor Mounting Plate)

SKR33 P08K/P08D/P08M

Thickness: 5 mm

SKR33 Q08K/Q08D/Q08M

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	0.3 G	77	—	96	—
			0.5 G	77	42	96	90
		Vertical	0.3 G	18	—	23	—
			0.5 G	18	8	23	18
Rated thrust ³ (N)				361	180	718	359
Maximum thrust ⁴ (N)				1080	540	2160	1080
Outer diameter of ball screw shaft end (mm)				ø10h7			
Permissible input torque (N·m)				5.3			

Load Rating

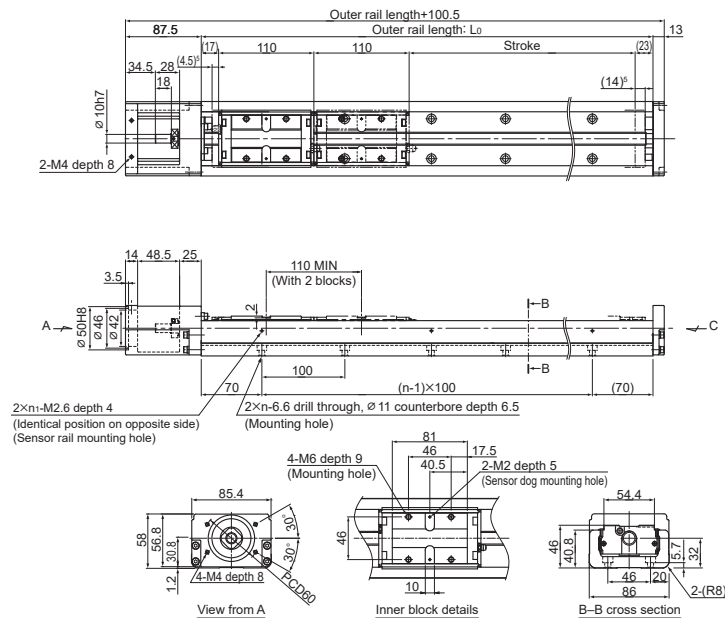
Item		SKR4610	SKR4620
LM Guide	Basic dynamic load rating C (N)	39500	
	Basic static load rating C ₀ (N)	45900	
	Radial clearance (mm)	-0.006 to 0	
Ball screw unit	Ball screw lead (mm)	10	20
	Basic dynamic load rating C _a (N)	4350	4240
	Basic static load rating C _{0a} (N)	6990	7040
	Screw shaft diameter (mm)	ø 15	
Bearing unit (fixed side)	Axial direction	Basic dynamic load rating C _a (N)	6700
		Static permissible load P _{0a} (N)	3330

Motor Used and Applicable Intermediate Flanges Intermediate flange dimensions **p. 41**

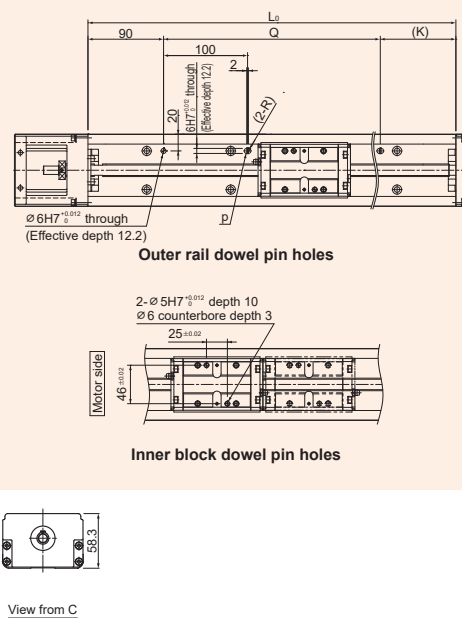
Motor type			Rated output	Flange size	Intermediate flange symbol
AC servo motor	Yaskawa Electric Corporation	Σ-V	SGMJV-A5	50 W	Q
			SGMAV-A5		Q
			SGMJV-01		Q
			SGMAV-01		Q
			SGMJV-C2	100 W	Q
			SGMJV-02	150 W	Q
			SGMAV-02	200 W	V
			SGMJV-04	60×60	V
			SGMAV-04		V
			SGMJV-06		V
	V				

Motor type				Rated output	Flange size	Intermediate flange symbol	
AC servo motor	Yaskawa Electric Corporation	Σ-7	SGM7J-A5	50 W	40×40	Q	
			SGM7A-A5			Q	
			SGM7J-01	100 W		Q	
			SGM7A-01			Q	
			SGM7J-C2	150 W	Q		
			SGM7J-02	200 W	V		
			SGM7A-02		V		
			SGM7J-04	400 W	V		
			SGM7A-04		V		
		SGM7J-06	600 W	V			
		Σ-X	SGMXJ-02	200 W	V		
			SGMXA-02		V		
			SGMXJ-04	400 W	V		
			SGMXA-04		V		
			SGMXJ-06	600 W	V		
			SGMXA-06		V		
	Mitsubishi Electric Corporation		MELSERVO	J4	HG-MR053	50 W	Q
		HG-KR053			Q		
		HG-MR13			100 W	Q	
		HG-KR13				Q	
		HG-MR23		200 W	V		
		HG-KR23			V		
		HG-MR43			400 W	V	
		HG-KR43				V	
		J5		HK-KT23W	200 W	60×60	V
				HK-KT43W	400 W	V	
		JN		HF-KN053	50 W	40×40	Q
				HF-KN13	100 W	Q	
				HF-KN23	200 W	V	
				HF-KN43	400 W	V	
Tamagawa Seiki Co., Ltd.	TBL-iII	TS4602	50 W	40×40	Q		
		TS4603	100 W		Q		
		TS4604	150 W		Q		
		TS4607	200 W	V			
		TS4609	400 W	V			
	TBL-iIV	TSM3101	30 W	40×40	Q		
		TSM3102	50 W		Q		
		TSM3104	100 W	60×60	Q		
		TSM3202	200 W		V		
		TSM3204	400 W		V		

Uncovered	Type
1	1
2	2
3	3
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94	94
95	95
96	96
97	97
98	98
99	99
100	100



Customization: Dowel Pin Holes



Dimensional 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 (1980)	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	6.7	8.1	9.5	10.9	12.3	13.8	15.2
		B Type	7.7	9.1	10.5	11.9	13.3	14.8	16.2
	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 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 is the lowest value from the conditions below.
 ·200 W: 0.64 N·m or permissible input torque/

⁴ The maximum thrust is the lowest value from the

•200 W: 1.91 N·m or permissible input torque/

⁵ This is the distance between the mechanical stop-

⁶ This indicates the value when 2 blocks (B Type) are

⁷ The maximum speed is the value restricted by the

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. How-

permissible rotational speed of the ball screw. However, values within parentheses are the maximum speed when the motor rotational speed is 6,000 min⁻¹. When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

Motor type				Rated output	Flange size	Intermediate flange symbol	
AC series motor	Panasonic Corporation	MINAS	A5	MSMD5A	50 W	38×38	P
				MSME5A	100 W		P
				MSMD01			P
				MSME01			P
			MSMD02	200 W		60×60	Y
			MSME02		Y		
			MSMD04		Y		
			MSME04		Y		
		A6	MSMF5A	50 W	38×38	P	
			MHMF5A		40×40	Q	
			MSMF01		100 W	38×38	P
			MHMF01			40×40	Q
			MSMF02	200 W		60×60	Y
			MHMF02				Y
			MSMF04		Y		
			MHMF04		400 W		Y
	KEYENCE CORPORATION	SV	SV-M005	50 W	40×40	Q	
			SV-M010	100 W		Q	
			SV-M020	200 W		V	
			SV-M040	400 W		V	
		SV2	SV2-M005	50 W	40×40	Q	
			SV2-M010	100 W		Q	
			SV2-M020	200 W		V	
			SV2-M040	400 W		V	
	SANYO DENKI CO., LTD.	SANMOTION R	R2□A04003	30 W	40×40	Q	
			R2□A04005	50 W		Q	
			R2EA04008	80 W		Q	
			R2□A04010	100 W		Q	
			R2□A06020	200 W		V	
			R2AA06040	400 W		V	
OMRON Corporation	OMNUG G5	R88M-K05030	50 W	40×40	Q		
		R88M-K10030	100 W		Q		
		R88M-K20030	200 W		Y		
		R88M-K40030	400 W		Y		
	1S	R88M-1M10030	100 W	40×40	Q		
		R88M-1M20030	200 W	Y			
FANUC CORPORATION	β is series	β is 0.2/5000	50 W	40×40	Q		
		β is0.3/5000	100 W		Q		

Motor type			Flange size	Intermediate flange symbol		
Stepper motor	Oriental Motor	αStep	AZ6*, AR6*	60×60	U	
		5-phase	CRK	CRK56	60×60	U
			RK II	RK556*	60×60	U
			PKP	PKP56	60×60	U
	SANYO DENKI CO., LTD.	PB	PBDM60*, PBA**60*	60×60	U	
		5-phase	FAM56*/FDM56*/FA512M60/FB512M60	60×60	U	
		2-phase	DB16H78*	60×60	U	
		2-phase	QS-M60	60×60	U	
KEYENCE CORPORATION						

Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.

Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

Recommended Coupling

Manufacturer	MIKI PULLEY CO., LTD.	Nabeya Bi-tech Kaisha (NBK)
Model No.	SFC-030DA2/SFC-035DA2 ø 10 to ø 14 (200 W, 400 W)	XGT2-27C/XGT2-30C ø 10 to ø 14 (200 W, 400 W)

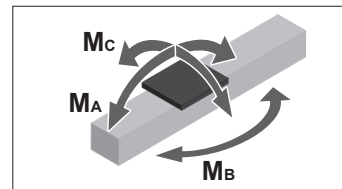
Note 3: The table shows only a portion of the model numbers for couplings. For details regarding model numbers, please see the catalog for each respective coupling manufacturer.

Note 4: The recommended couplings are for when a servo motor is used. When using a stepper motor, please confirm using the Optimal Product Selection Tool.

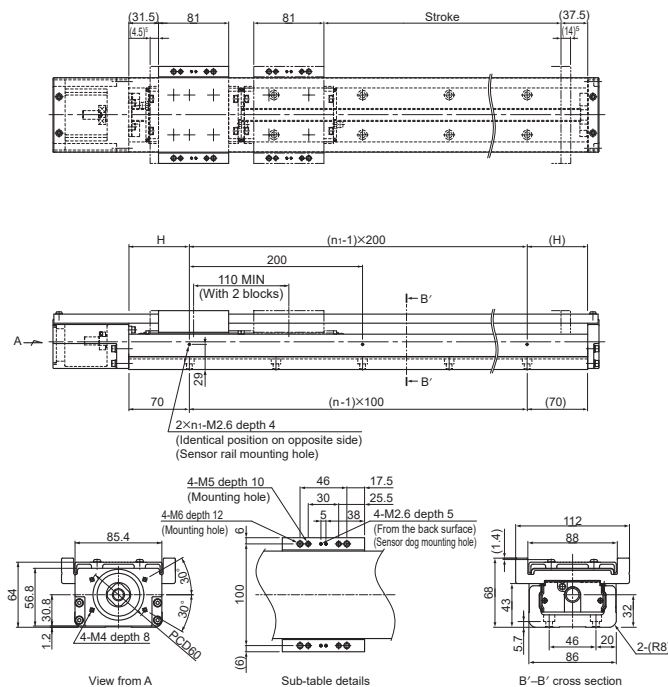
Static Permissible Moment (LM Guide)

Unit: N·m

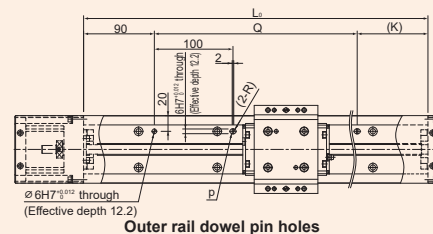
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
SKR46	A	579	579	1390
	B	3240	3240	2780



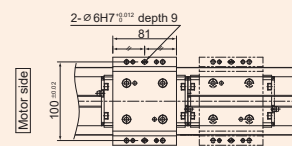
Covered **Type**



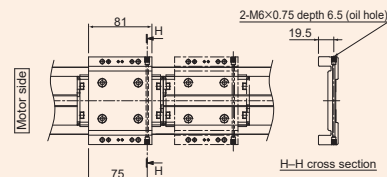
Customization: Dowel Pin Holes



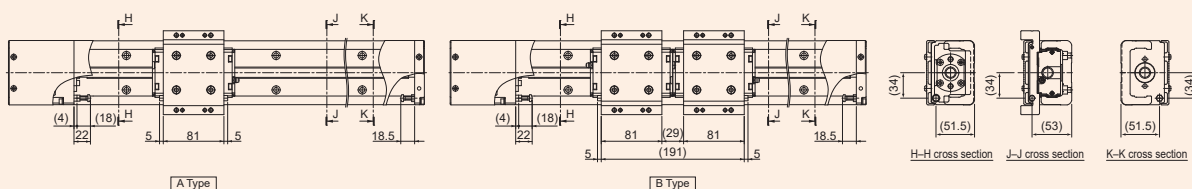
Sub-table upper surface dowel pin holes



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	0.3 G	77	—	96	—
			0.5 G	70	31	96	75
		Vertical	0.3 G	16	—	16	—
			0.5 G	16	8	16	16.5
Rated thrust ³ (N)				361	180	718	359
Maximum thrust ⁴ (N)				1080	540	2160	1080
Outer diameter of ball screw shaft end (mm)				ø10h7			
Permissible input torque (N·m)				4.5			

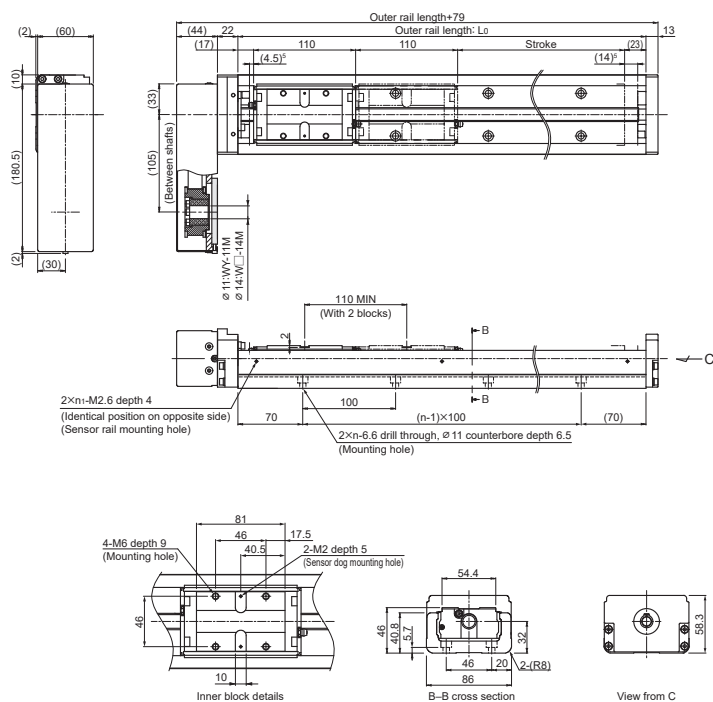
Load Rating

Item		SKR4610	SKR4620
LM Guide	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	Ball screw lead (mm)	10	20
	Basic dynamic load rating C _a (N)	4350	4240
	Basic static load rating C _{0a} (N)	6990	7040
	Screw shaft diameter (mm)	ø 15	
Bearing unit (fixed side)	Axial direction	Basic dynamic load rating C _a (N)	6700
		Static permissible load P _{0a} (N)	3330

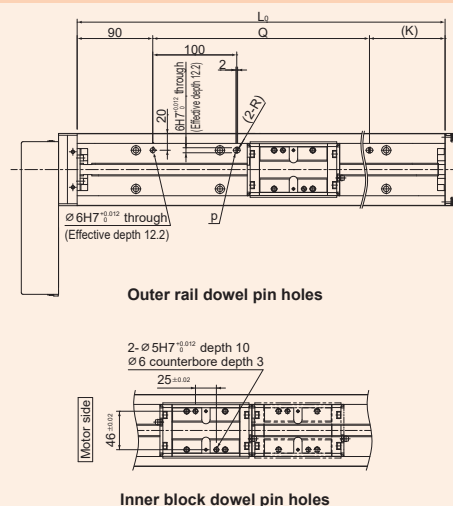
Motor Used and Wrapping Symbol

Motor type					Rated output	Flange size	Wrapping symbol		
AC servo motor	Yaskawa Electric Corporation	Σ-V		SGMJV-02	200 W	60×60	V14M		
				SGMAV-02			V14M		
			Σ-7		SGMJV-04		400 W	V14M	
					SGMAV-04			V14M	
				Σ-X			SGMJV-06	600 W	V14M
							SGM7J-02		V14M
		Σ-7				SGM7A-02	200 W	V14M	
						SGM7J-04		V14M	
			Σ-X			SGM7A-04	400 W	V14M	
						SGM7J-06		V14M	
				Σ-X		SGMXJ-02	200 W	V14M	
						SGMXA-02		V14M	
	Σ-X				SGMXJ-04	400 W	V14M		
					SGMXA-04		V14M		
		Mitsubishi Electric Corporation	MELSERVO		J4		HG-MR23	200 W	V14M
							HG-KR23		V14M
				J5			HG-MR43	400 W	V14M
							HG-KR43		V14M
	JN					HK-KT23W	200 W	V14M	
						HK-KT43W		400 W	V14M
				TBL-II/III		HF-KN23	200 W	V14M	
						HF-KN43		400 W	V14M
	Tamagawa Seiki Co., Ltd.	TBL-III/IV			TS4607	200 W	V14M		
					TS4609		400 W	V14M	
Panasonic Corporation			MINAS	A5		TSM3202	200 W	V14M	
						TSM3204		400 W	V14M
	Panasonic Corporation	MINAS			A5		MSMD02	200 W	Y11M
							MSME02		400 W
Panasonic Corporation			MINAS	A5			MSMD04	400 W	Y14M
							MSMF04		Y14M

Uncovered Type



Customization: Dowel Pin Holes



Dimensional 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)			1000 (1980)	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 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 is the lowest value from the conditions below.

·200 W: 0.64 N·m or permissible input torque/400 W: 1.27 N·m or permissible input torque

⁴ The maximum thrust is the lowest value from the conditions below.

·200 W: 1.91 N·m or permissible input torque/400 W: 3.82 N·m or permissible input torque

⁵ This is the distance between the mechanical stopper and the stroke starting position.

⁶ This indicates the value when 2 blocks (B Type) 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, values within parentheses are the maximum speed when the motor rotational speed is 6,000 min⁻¹. When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

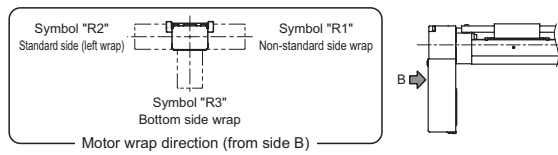
Wrapping specification details (dimensions of motor mounting plate) ⇒ p. 42

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

Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.

Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

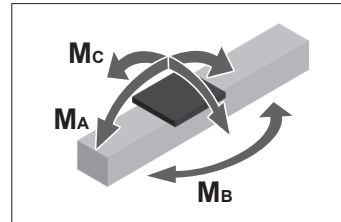
Wrapping Direction



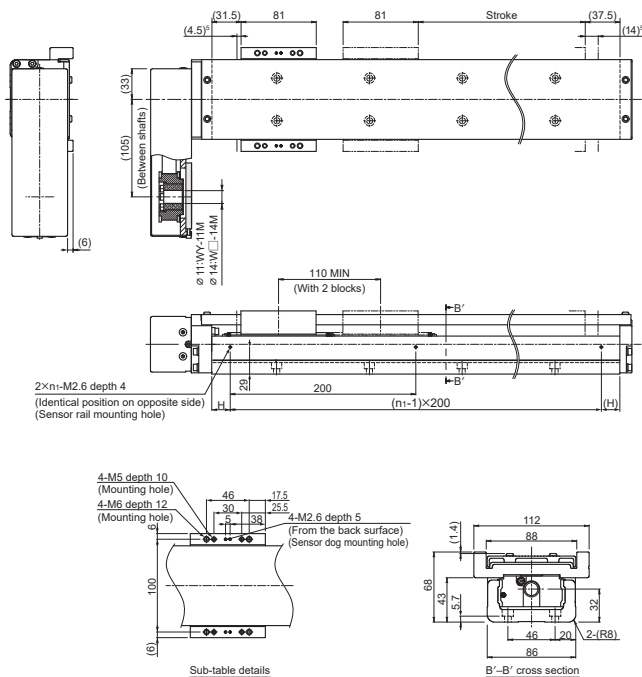
Static Permissible Moment (LM Guide)

Unit: N·m

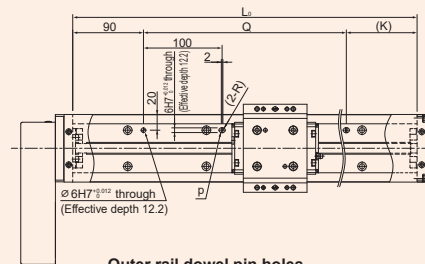
Model No.	Block type	Static permissible moment		
		M_A	M_B	M_C
SKR46	A	579	579	1390
	B	3240	3240	2780



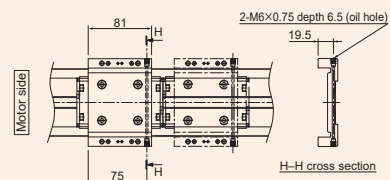
Covered Type



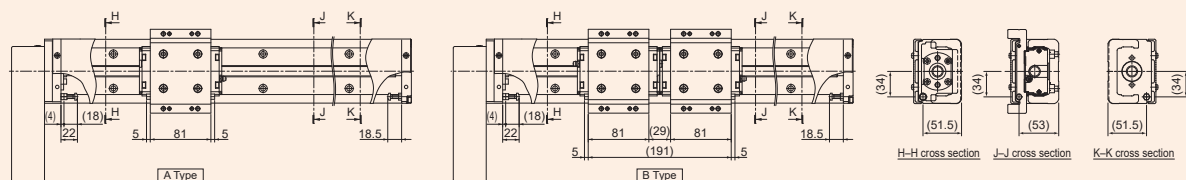
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



SKR46 A/B Direct Motor Coupling

Model Number Coding

Basic Configuration							Semi-Custom Series					
Model No.	Ball screw lead	Block type	Stroke		Direct coupling/ Motor wrap	Cover ¹	Housing A/ Intermediate flange	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)
SKR46	10: 10 mm 20: 20 mm	A: 1 block B: 2 blocks	A Type		0: Direct coupling	0: Without 1: With	Direct coupling 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)
			B Type									
			0190: 190 mm	0080: 80 mm								
			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 this symbol.

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.)

⁶ When low dust-generating grease is specified, AFF Grease will be applied.

SKR20

SKR26

SKR33

SKR46

KR20

KR26

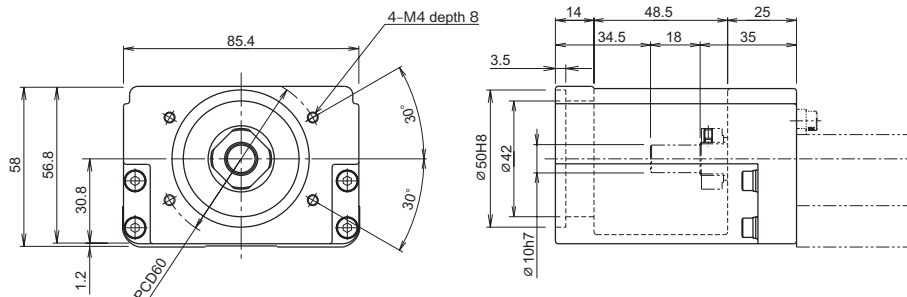
KR30H

KR45H

SKR46 A/B Direct Coupling Dimensional Diagram for Motor Mounting

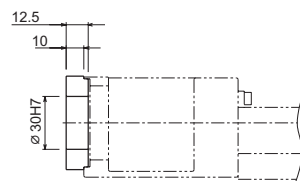
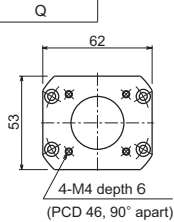
Housing A

SKR46
0

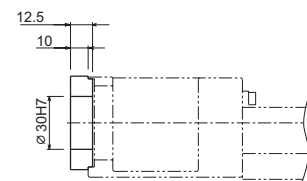
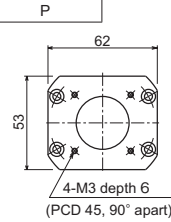


Intermediate Flange

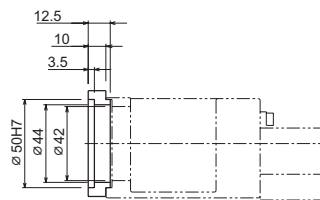
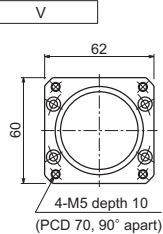
SKR46
Q



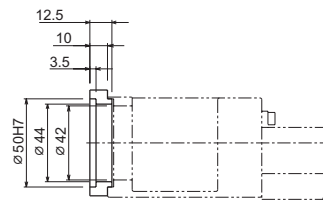
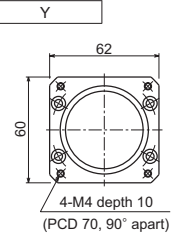
SKR46
P



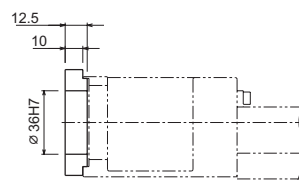
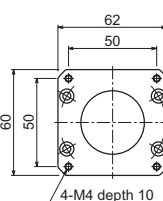
SKR46
V



SKR46
Y



SKR46
U



SKR46 A/B Motor Wrapping

Model Number Coding

Wrapping direction details → p. 40

Basic Configuration								Semi-Custom Series				
Model No.	Ball screw lead	Block type	Stroke		Direct coupling/ Motor wrap	Cover ¹	Motor mounting plate	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)
SKR46	10: 10 mm 20: 20 mm	A: 1 block B: 2 blocks	A Type		R1: Non-standard side wrap R2: Standard side wrap R3: Bottom surface wrap	0: Without 1: With	Motor wrap V14M Y11M/Y14M (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)
			B Type									
			0190: 190 mm	0080: 80 mm								
			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 this symbol.

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.)

⁶ When low dust-generating grease is specified, AFF Grease will be applied.

V 14 M

① ② ③

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

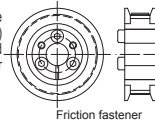


Figure: Motor shaft securing method

SKR46 A/B Motor Wrapping Dimensional Diagram for Motor Mounting

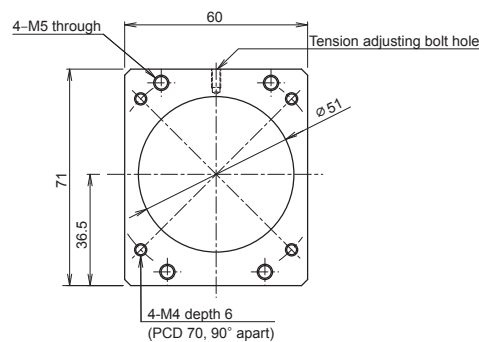
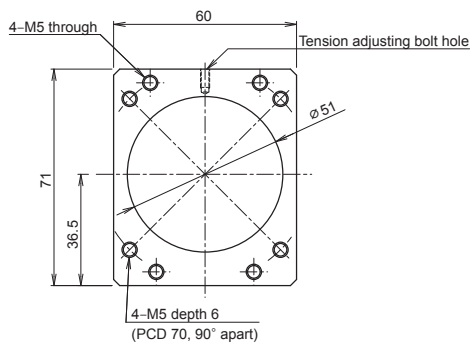
Wrapping Specifications (Motor Mounting Plate)

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	0.3 G	55.5	—	69.5	—
			0.5 G	55.5	36.5	69.5	53.5
		Vertical	0.3 G	13	—	16.5	—
			0.5 G	13	5.5	16.5	13
Rated thrust ³ (N)				361	180	718	359
Maximum thrust ⁴ (N)				1080	540	2160	1080
Outer diameter of ball screw shaft end (mm)				ø10h7			
Permissible input torque (N·m)				5.3			

Load Rating

Item		SKR4610	SKR4620
LM Guide	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	Ball screw lead (mm)	10	20
	Basic dynamic load rating Ca (N)	4350	4240
	Basic static load rating C _{0a} (N)	6990	7040
	Screw shaft diameter (mm)	ø 15	
	Screw shaft diameter (mm)	ø 15	
Bearing unit (fixed side)	Axial direction	Basic dynamic load rating Ca (N)	
		6700	
Bearing unit (fixed side)	Axial direction	Static permissible load P _{0a} (N)	
		3330	

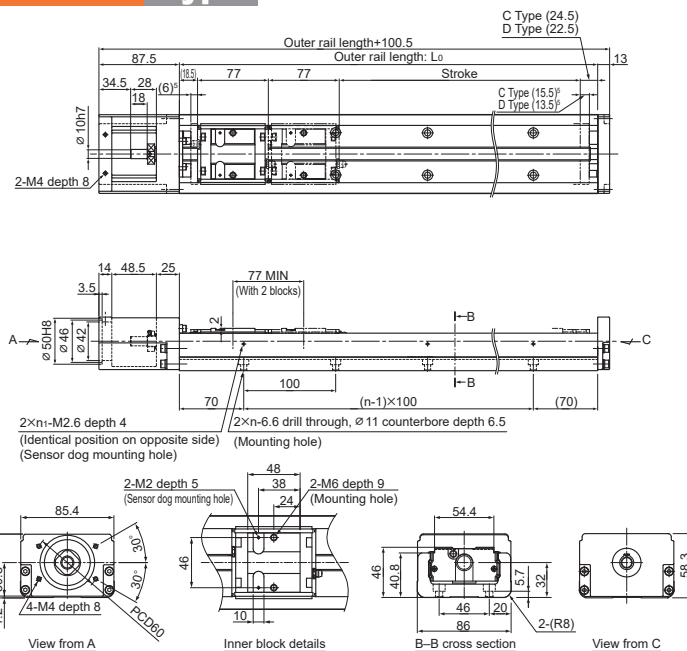
Motor Used and Applicable Intermediate Flanges

Intermediate flange dimensions ⇒ p. 47

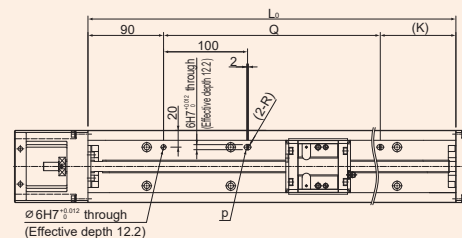
Motor type		Rated output	Flange size	Intermediate flange symbol
AC servo motor	Yaskawa Electric Corporation	Σ-V	40×40	SGMJV-A5
				SGMAV-A5
				SGMJV-01
				SGMAV-01
				SGMJV-C2
				SGMAV-C2
		60×60		SGMJV-02
				SGMAV-02
				SGMJV-04
				SGMAV-04
				SGMJV-06
				SGMAV-06

Motor type		Rated output	Flange size	Intermediate flange symbol
AC servo motor	Yaskawa Electric Corporation	Σ-7	40×40	SGM7J-A5
				SGM7A-A5
				SGM7J-01
				SGM7A-01
				SGM7J-C2
				SGM7A-C2
		Σ-X	60×60	SGM7J-02
				SGM7A-02
				SGM7J-04
				SGM7A-04
				SGM7J-06
				SGM7A-06
	Mitsubishi Electric Corporation	J4	40×40	SGMXJ-02
				SGMXA-02
				SGMXJ-04
				SGMXA-04
		J5	60×60	HG-MR053
				HG-KR053
				HG-MR13
				HG-KR13
		JN	40×40	HG-MR23
				HG-KR23
				HG-MR43
				HG-KR43
	Tamagawa Seiki Co., Ltd.	TBL-III	40×40	HK-KT23W
				HK-KT43W
				HK-KN053
				HF-KN13
				HF-KN23
				HF-KN43
		TBL-IV	60×60	TS4602
				TS4603
				TS4604
				TS4607
				TS4609
				TSM3101
				TSM3102
				TSM3104
				TSM3202
				TSM3204

Uncovered Type



Customization: Dowel Pin Holes



Inner block dowel pin holes

Dimensional 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)		400
		20 mm	1000 (2000)		1000 (1770)		1000 (1300)		990
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 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 is the lowest value from the conditions below.⁴ The maximum thrust is the lowest value from the conditions below.⁵ This is the distance between the mechanical stopper and the stroke starting position.⁶ This indicates the value when 2 blocks (D Type) 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, values within parentheses are the maximum speed when the motor rotational speed is 6,000 min⁻¹.

When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

Motor type				Rated output	Flange size	Intermediate flange symbol		
AC servo motor	Panasonic Corporation	MINAS	A5	MSMD5A	50 W	38×38	P	
				MSME5A	100 W		P	
				MSMD01			P	
			A6	MSME01		200 W	P	
				MSMD02	Y			
				MSME02	Y			
		A6		MSMD04	400 W	Y		
				MSME04		P		
				MSMF5A		38×38	Y	
			A6	MHMF5A	50 W	40×40	Q	
				MSMF01		100 W	38×38	P
				MHMF01			40×40	Q
	A6	MSMF02		200 W	60×60		Y	
		MHMF02				Y		
		MSMF04				Y		
		A6	MHMF04	400 W	60×60	Y		
			SV-M005			50 W	40×40	Q
			SV-M010					100 W
	KEYENCE CORPORATION		SV	SV-M020	200 W			V
				SV-M040	400 W	V		
				SV2	SV2-M005	50 W	Q	
		SV2-M010	100 W		Q			
		SV2-M020	200 W		V			
		SV2-M040	400 W		V			
SANYO DENKI CO., LTD.	SANMOTION R		R2□A04003	30 W	40×40	Q		
			R2□A04005	50 W		Q		
			R2EA04008	80 W		Q		
			R2□A04010	100 W		Q		
			R2□A06020	200 W		V		
			R2AA06040	400 W		V		
OMRON Corporation	OMNUC G5		R88M-K05030	50 W	40×40	Q		
			R88M-K10030	100 W		Q		
			R88M-K20030	200 W		Y		
	1S		R88M-K40030	400 W	60×60	Y		
			R88M-1M10030	100 W	40×40	Q		
			R88M-1M20030	200 W	60×60	Y		
FANUC CORPORATION	βis series		R88M-1M40030	400 W	60×60	Y		
			βis 0.2/5000	50 W	40×40	Q		
			βis0.3/5000	100 W		Q		

Motor type				Flange size	Intermediate flange symbol
Stepper motor	Oriental Motor	αStep	AZ6*, AR6*	60×60	U
			CRK	60×60	U
			RK II	60×60	U
			PKP	60×60	U
			PB	60×60	U
	SANYO DENKI CO., LTD.	5-phase	PBDM60*, PBA* *60*	60×60	U
			FAM56*/FDM56*/FA512M60/FB512M60	60×60	U
			DB16H78*	60×60	U
			QS-M60	60×60	U
	KEYENCE CORPORATION	2-phase			

Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.

Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

Recommended Coupling

Manufacturer	MIKI PULLEY CO., LTD.	Nabeya Bi-tech Kaisha (NBK)
Model No.	SFC-030DA2/SFC-035DA2 φ 10 to φ 14 (200 W, 400 W)	XGT2-27C/XGT2-30C φ 10 to φ 14 (200 W, 400 W)

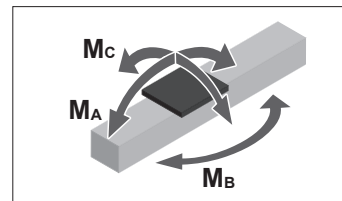
Note 3: The table shows only a portion of the model numbers for couplings. For details regarding model numbers, please see the catalog for each respective coupling manufacturer.

Note 4: The recommended couplings are for when a servo motor is used. When using a stepper motor, please confirm using the Optimal Product Selection Tool.

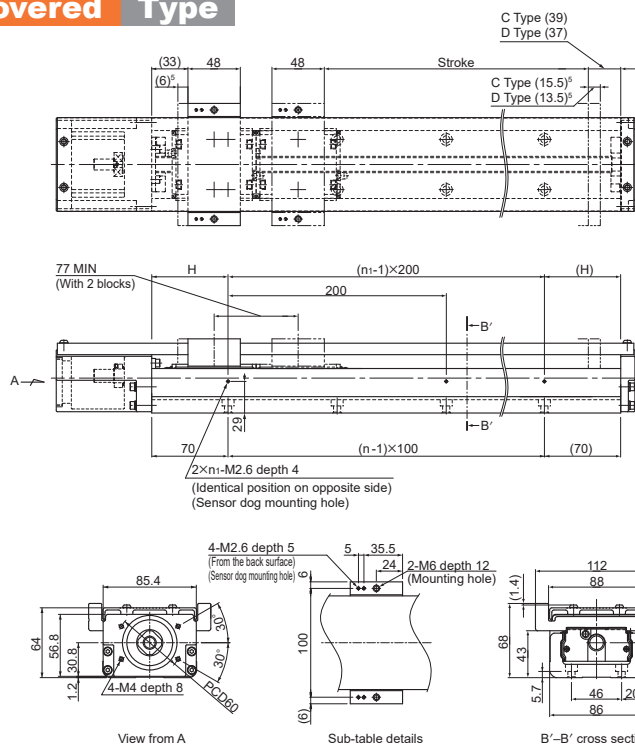
Static Permissible Moment (LM Guide)

Unit: N·m

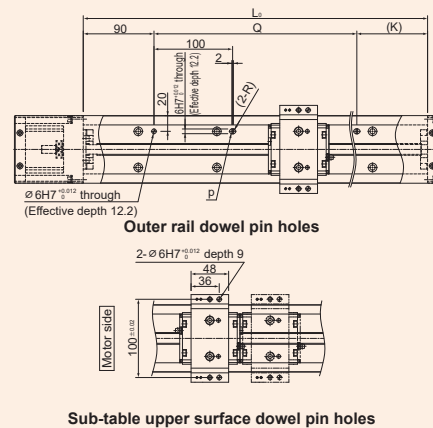
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
SKR46	C	236	236	870
	D	1460	1460	1740



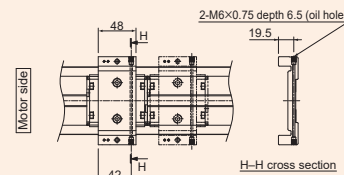
Covered Type



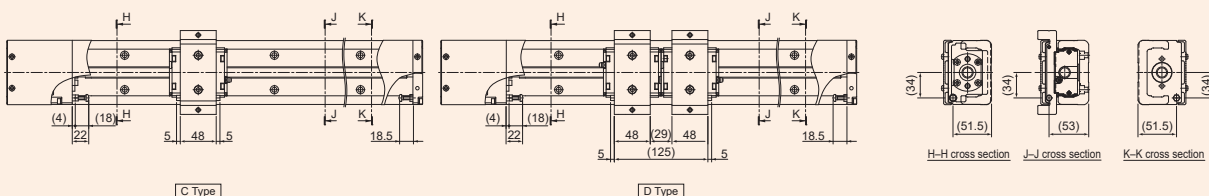
Customization: Dowel Pin Holes



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	0.3 G	55.5	—	69.5	—
			0.5 G	55.5	32.5	69.5	53.5
		Vertical	0.3 G	13	—	16.5	—
			0.5 G	13	5.5	16.5	13
			Rated thrust ³ (N)			361	180
Maximum thrust ⁴ (N)				1080	540	2160	1080
Outer diameter of ball screw shaft end (mm)				ø10h7			
Permissible input torque (N·m)				4.5			

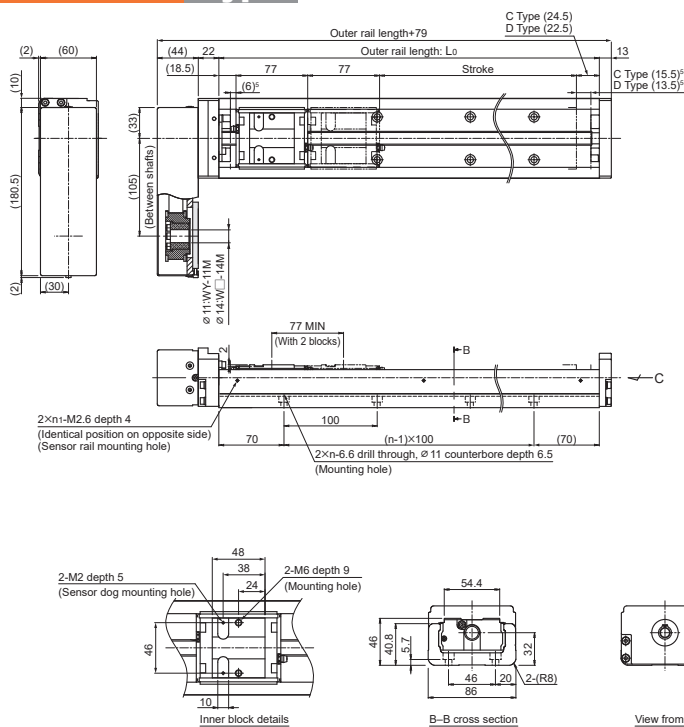
Load Rating

Item		SKR4610	SKR4620
LM Guide	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	Ball screw lead (mm)	10	20
	Basic dynamic load rating C _a (N)	4350	4240
	Basic static load rating C _{0a} (N)	6990	7040
	Screw shaft diameter (mm)	ø 15	
	Screw shaft diameter (mm)	ø 15	
Bearing unit (fixed side)	Axial direction	Basic dynamic load rating C _a (N)	6700
		Static permissible load P _{0a} (N)	3330

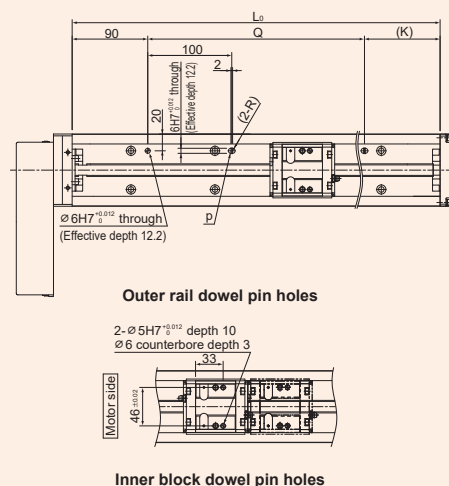
Motor Used and Wrapping Symbol

Motor type					Rated output	Flange size	Wrapping symbol	
AC servo motor	Yaskawa Electric Corporation	Σ-V		SGMJV-02	200 W	60×60	V14M	
				SGMAV-02			V14M	
				SGMJV-04	400 W		V14M	
				SGMAV-04			V14M	
			SGMJV-06	600 W	V14M			
		Σ-7		SGM7J-02	200 W	60×60	V14M	
				SGM7A-02			V14M	
				SGM7J-04	400 W		V14M	
				SGM7A-04			V14M	
			SGM7J-06	600 W	V14M			
		Σ-X		SGMXJ-02	200 W	60×60	V14M	
				SGMXA-02			V14M	
			SGMXJ-04		V14M			
			SGMXA-04	400 W	V14M			
	Mitsubishi Electric Corporation	MELSERVO	J4		HG-MR23	200 W	60×60	V14M
					HG-KR23			V14M
					HG-MR43	400 W		V14M
					HG-KR43			V14M
			J5		HK-KT23W	200 W	60×60	V14M
					HK-KT43W	400 W		V14M
					HF-KN23	200 W		V14M
					HF-KN43	400 W		V14M
			JN				60×60	
Tamagawa Seiki Co., Ltd.	TBL-III		TS4607	200 W	60×60	V14M		
			TS4609	400 W		V14M		
			TSM3202	200 W		V14M		
			TSM3204	400 W		V14M		
Panasonic Corporation	MINAS	A5		MSMD02	200 W	60×60	Y11M	
				MSME02			Y11M	
				MSMD04			Y14M	
				MSME04			400 W	Y14M

Uncovered Type



Customization: Dowel Pin Holes



Dimensional 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
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 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 is the lowest value from the conditions below.

⁴ The maximum thrust is the lowest value from the conditions below.

⁵ This is the distance between the mechanical stopper and the stroke starting position.

⁶ This indicates the value when 2 blocks (D Type) 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, values within parentheses are the maximum speed when the motor rotational speed is 6,000 min⁻¹. When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

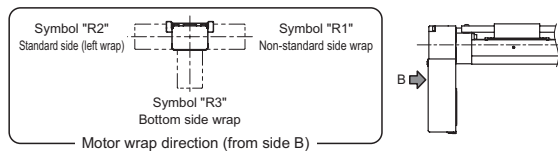
Wrapping specification details (dimensions of motor mounting plate) ⇒ p. 48

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

Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.

Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

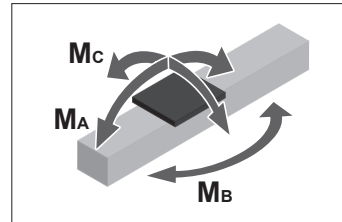
Wrapping Direction



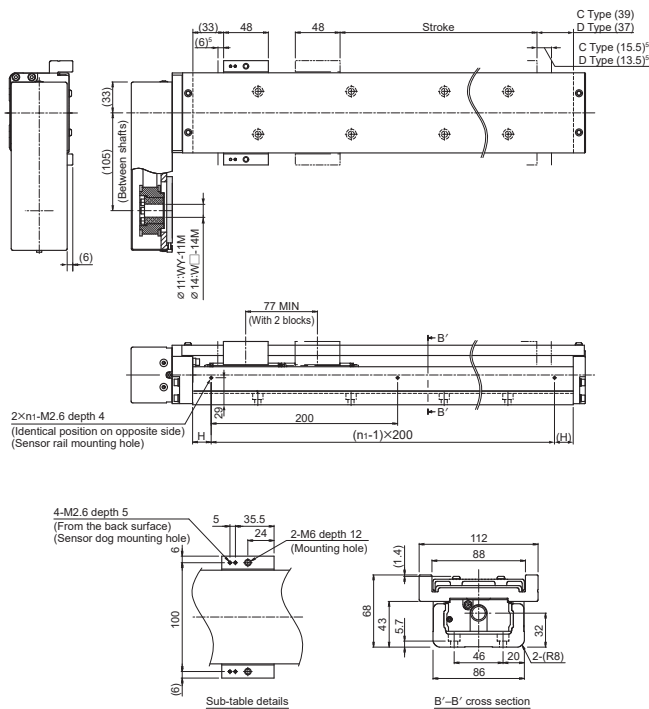
Static Permissible Moment (LM Guide)

Unit: N·m

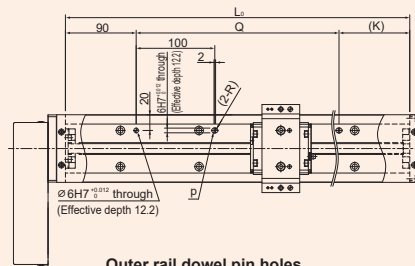
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
SKR46	C	236	236	870
	D	1460	1460	1740



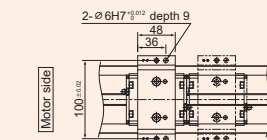
Covered Type



Customization: Dowel Pin Holes

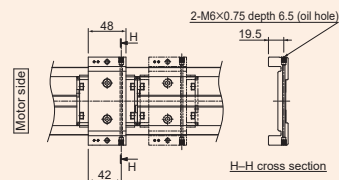


Outer rail dowel pin holes

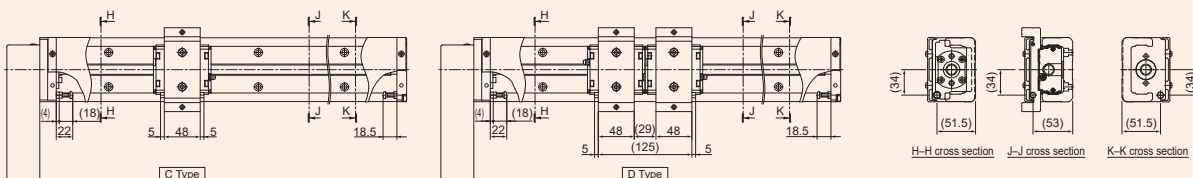


Sub-table upper surface dowel pin holes

Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



SKR46 C/D Direct Motor Coupling

Model Number Coding

Basic Configuration							Semi-Custom Series					
Model No.	Ball screw lead	Block type	Stroke		Direct coupling/ Motor wrap	Cover ¹	Housing A/ Intermediate flange	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)
SKR46	10: 10 mm 20: 20 mm	C: 1 block (short block) D: 2 blocks (short block)	C Type		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)
			D Type									
			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 this symbol.

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.)

⁶ When low dust-generating grease is specified, AFF Grease will be applied.

SKR20

SKR26

SKR33

SKR46

KR20

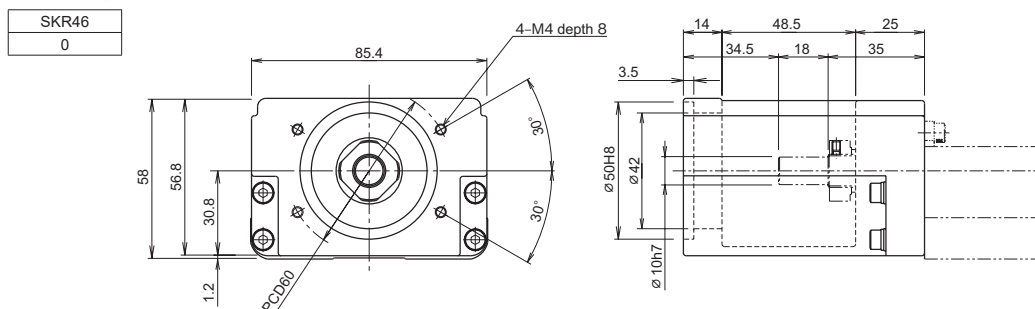
KR26

KR30H

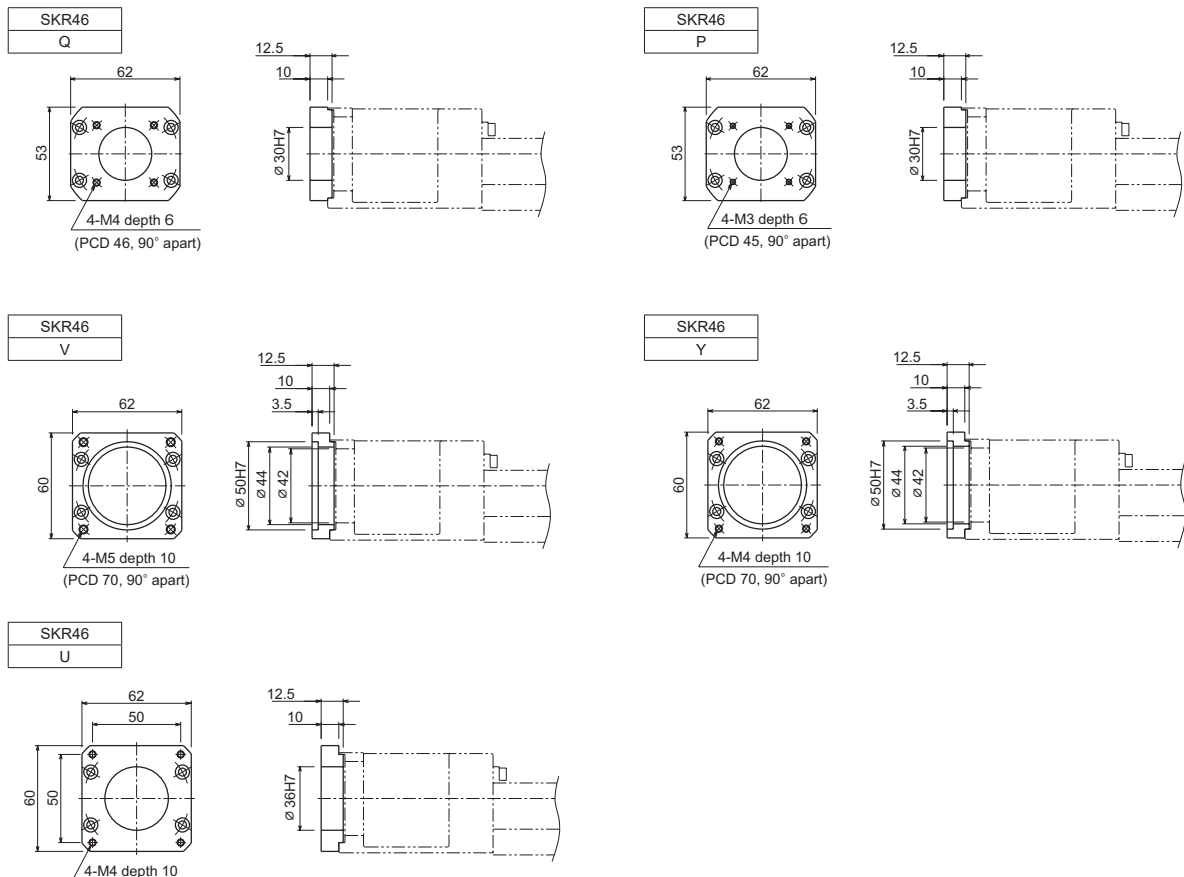
KR45H

SKR46 C/D Direct Coupling Dimensional Diagram for Motor Mounting

Housing A



Intermediate Flange



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/ Motor wrap	Cover ¹	Motor mounting plate	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)	
SKR46	10: 10 mm	C: 1 block (short block)	C Type		R1: Non-standard side wrap R2: Standard side wrap R3: Bottom surface wrap	0: Without 1: With	Motor wrap V14M Y11M/Y14M (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)	
	20: 20 mm		D Type										
		D: 2 blocks (short block)	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 this symbol.

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.)

⁶ When low dust-generating grease is specified, AFF Grease will be applied.

V 14 M

① ② ③

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

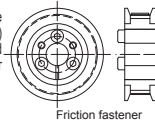


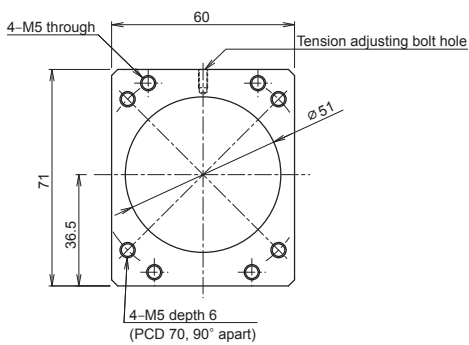
Figure: Motor shaft securing method

SKR46 C/D Motor Wrapping Dimensional Diagram for Motor Mounting

Wrapping Specifications (Motor Mounting Plate)

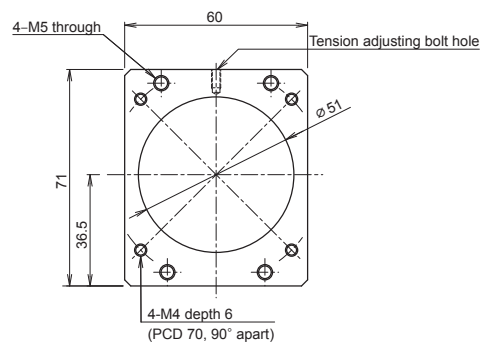
SKR46
V14M

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	0.15 G	12.5	12.5
			0.3 G	12.5	12.5
		Vertical	0.15 G	3	4
			0.3 G	3	4
Rated thrust ³ (N)				899	149
Maximum thrust ⁴ (N)				1170	397
Outer diameter of ball screw shaft end (mm)				ø4h7	
Permissible input torque (N·m)				0.20	0.42

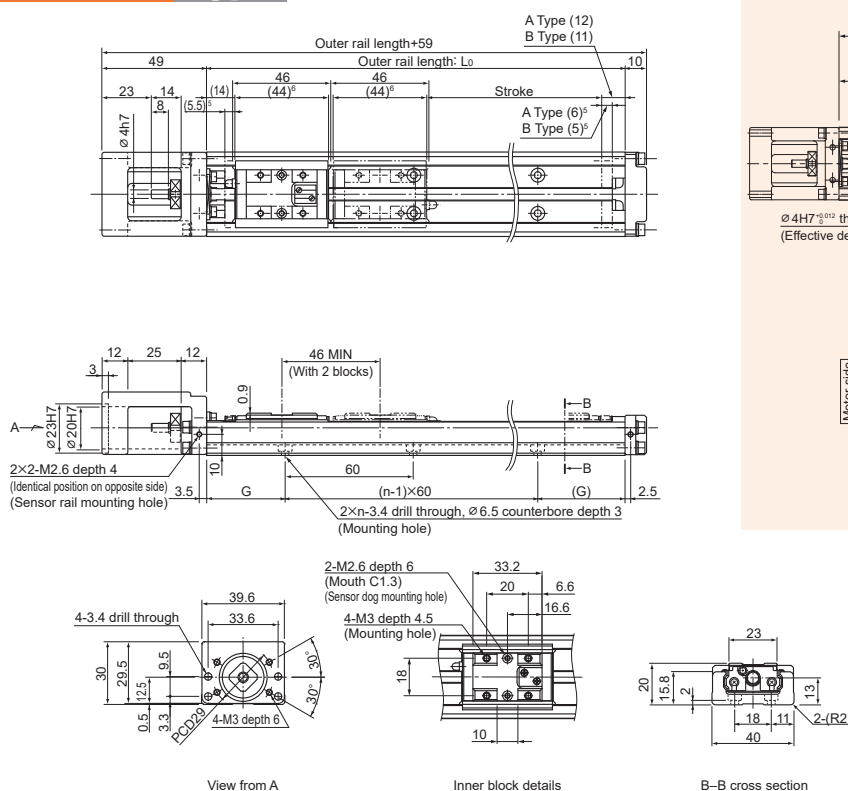
Load Rating

Item		KR2001	KR2006
LM Guide	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	Ball screw lead (mm)	1	6
	Basic dynamic load rating C _a (N)	660	860
	Basic static load rating C _{0a} (N)	1170	1450
	Screw shaft diameter (mm)	ø6	
Bearing unit (fixed side)	Axial direction	Basic dynamic load rating C _a (N)	1000
		Static permissible load P _{0a} (N)	1240

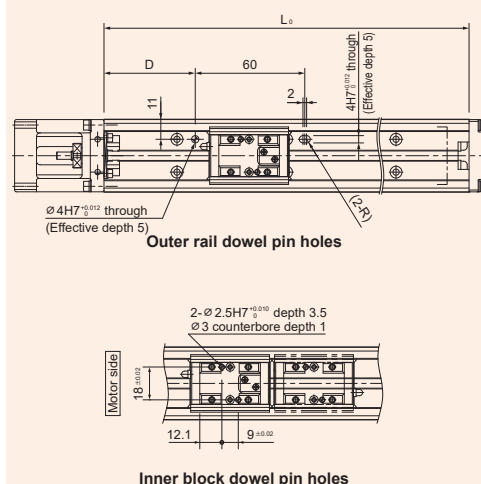
Motor Used and Applicable Intermediate Flanges

Motor type				Rated output	Flange size	Intermediate flange symbol	
AC servo motor	Yaskawa Electric Corporation	Σ-Vmini	SGMMV-A1	10 W	25×25	N	
			SGMMV-A2	20 W		N	
			SGMMV-A3	30 W		N	
		Σ-V	SGMJV-A5	50 W	40×40	Q	
			SGMAV-A5			Q	
			Σ-7	SGMJ7-A5		50 W	40×40
		SGM7A-A5		Q			
		Σ-X	SGMXJ-A5	50 W	40×40	Q	
			SGMXA-A5			Q	
	Mitsubishi Electric Corporation	MELSERVO	J4	HG-AK0136	10 W	25×25	N
				HG-AK0236	20 W		N
				HG-AK0336	30 W		N
				HG-MR053	50 W		40×40
			HG-KR053	Q			
			J5	HK-KT053W		50 W	
			JN	HF-KN053	50 W	40×40	Q
	Tamagawa Seiki Co., Ltd.	TBL-III	TS4602	50 W	40×40	Q	
		TBL-IV	TSM3102	50 W	40×40	Q	
	Panasonic Corporation	MINAS	A5	MSMD5A	50 W	38×38	P
				MSME5A			P
A6			MSMF5A	50 W	38×38 40×40	P	
			MHMF5A			Q	
KEYENCE CORPORATION	SV	SV-M005	50 W	40×40	Q		
	SV2	SV2-M005			Q		
SANYO DENKI CO., LTD.	SANMOTION R	R2□A04005	50 W	40×40	Q		
OMRON Corporation	OMRON G5	R88M-K05030	50 W	40×40	Q		
FANUC CORPORATION	βis series	βis 0.2/5000	50 W	40×40	Q		

Uncovered	Type
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94	94
95	95
96	96
97	97
98	98
99	99
100	100



Customization: Dowel Pin Holes



Dimensional 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 ⁶ (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 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 Rated thrust values are restricted by the rated torque of the motor (0.159 N·m) or permissible input torque.

⁴ Maximum thrust values are restricted by the maximum instantaneous torque of the motor (0.48 N·m) or permissible input torque.

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

⁷ This indicates the value when 2 blocks (B Type) are in close contact with each other.

^a 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, values within parentheses are the maximum speed when the motor rotational speed is 6,000 min⁻¹. When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

Intermediate flange dimensions ⇨ p. 53

Stepper motor	Motor type		Flange size	Intermediate flange symbol
	αStep			
Oriental Motor	5-phase	AZ2*, AR2*	28×28	S
		AZ4*, AR4* (this excludes AZM48)	42×42	R
		AZ4*, AR4* (AZM48)	42×42	R
	CRK	CRK52*	28×28	S
		CRK54*	42×42	R
		RKS54*	42×42	R
	RK II	PKP52*	28×28	S
		PKP54*	42×42	R
	2-phase	PKP22*	28×28	S
		PKP24*	42×42	R
SANYO DENKI CO., LTD.	PB	PBDM28*	28×28	S
		PBDM423, PBA* *423	42×42	R
		FAF/FDF52*	28×28	S
	5-phase	FAF54*/FDF54*/FA511M42/FB511M42	42×42	R
		D*14S28*	28×28	S
		DB14H52*	42×42	R
	2-phase	DU15H52	42×42	R
		QS-M28	28×28	S
		QS-M42	42×42	R
KEYENCE CORPORATION	2-phase			

Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.

Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

Recommended Coupling

Manufacturer	MIKI PULLEY CO., LTD.	Nabeya Bi-tech Kaisha (NBK)
Model No.	SFC-010DA2 ø4 to ø8	XGT2-15C*/XGT2-19C ø4 to ø8

* When using flange size 25×25.

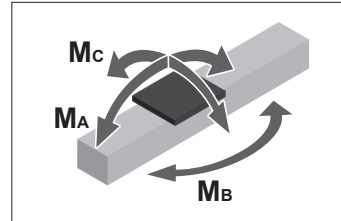
Note 3: The table shows only a portion of the model numbers for couplings. For details regarding model numbers, please see the catalog for each respective coupling manufacturer.

Note 4: The recommended couplings are for when a servo motor is used. When using a stepper motor, please confirm using the Optimal Product Selection Tool.

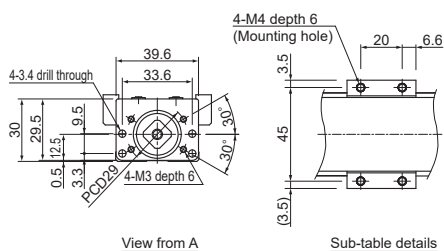
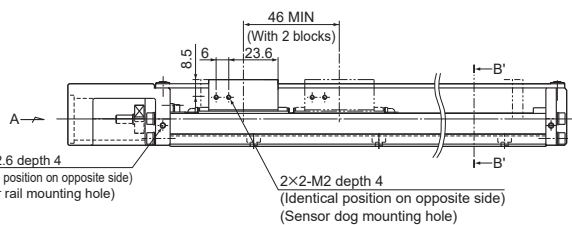
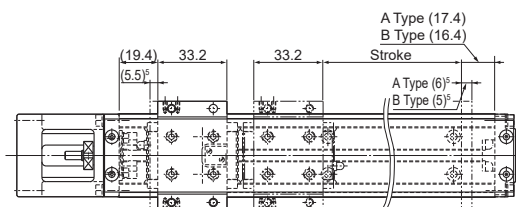
Static Permissible Moment (LM Guide)

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

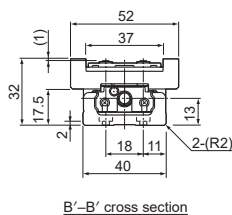


Covered Type



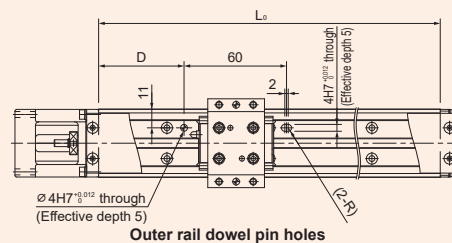
View from A

Sub-table details

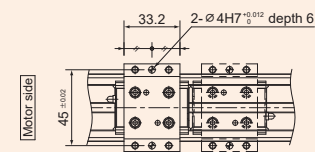


B'-B' cross section

Customization: Dowel Pin Holes

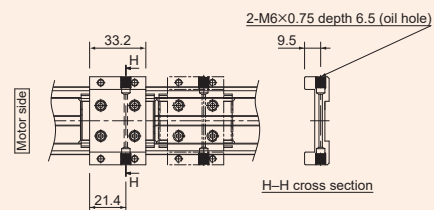


Outer rail dowel pin holes



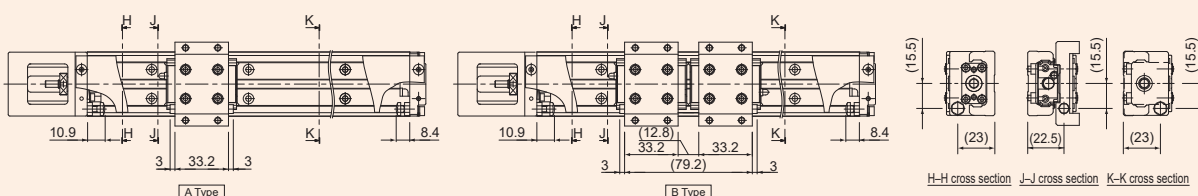
Sub-table upper surface dowel pin holes

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	0.15 G	12.5	12.5
			0.3 G	12.5	12.5
		Vertical	0.15 G	2.5	4
			0.3 G	2.5	4
Rated thrust ³ (N)				899	149
Maximum thrust ⁴ (N)				1170	397
Outer diameter of ball screw shaft end (mm)				ø4h7	
Permissible input torque (N·m)				0.20	0.40

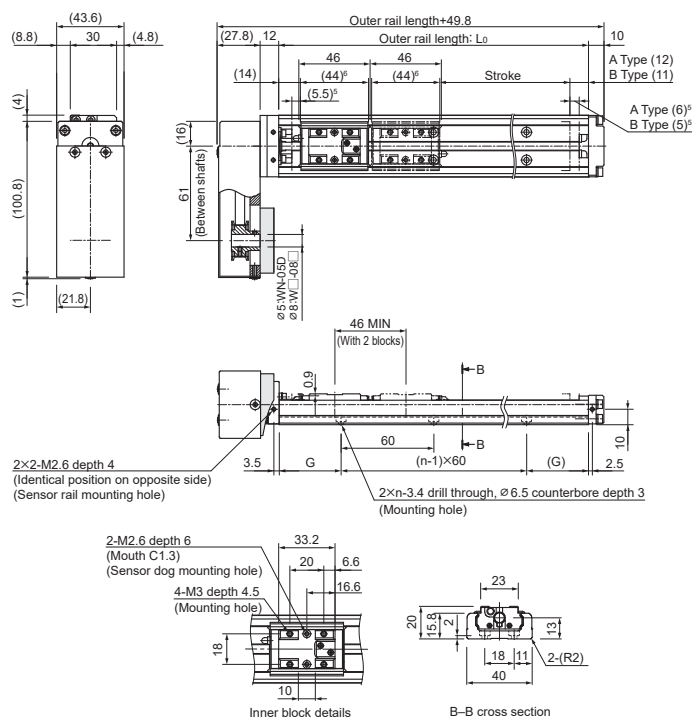
Load Rating

Item		KR2001	KR2006
LM Guide	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 lead (mm)	1	6
Ball screw unit	Basic dynamic load rating C _a (N)	660	860
	Basic static load rating C _{0a} (N)	1170	1450
	Screw shaft diameter (mm)	ø6	
	Screw shaft diameter (mm)	ø6	
Bearing unit (fixed side)	Axial direction	Basic dynamic load rating C _a (N)	1000
		Static permissible load P _{0a} (N)	1240

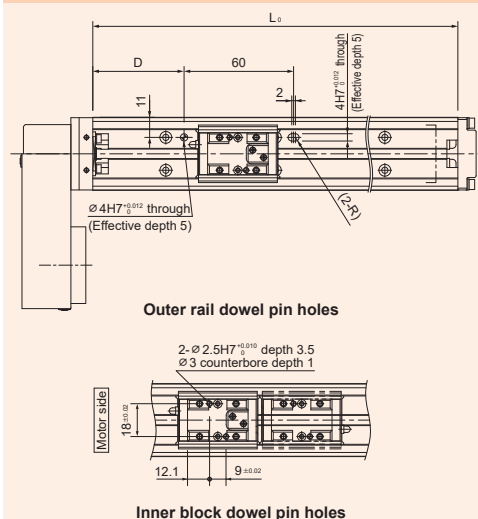
Motor Used and Wrapping Symbol

Motor type				Rated output	Flange size	Wrapping symbol			
AC servo motor	Yaskawa Electric Corporation	Σ-Vmini		SGMMV-A1	10 W		N05D		
				SGMMV-A2	20 W	25×25	N05D		
				SGMMV-A3	30 W		N05D		
		Σ-V		SGMJV-A5	50 W	40×40	Q08K		
				SGMAV-A5			Q08K		
		Σ-7		SGM7J-A5	50 W	40×40	Q08K		
				SGM7A-A5			Q08K		
		Σ-X		SGMXJ-A5	50 W	40×40	Q08K		
				SGMXA-A5			Q08K		
		Mitsubishi Electric Corporation	MELSERVO	J4		HG-AK0136	10 W		N05D
					HG-AK0236	20 W	25×25	N05D	
					HG-AK0336	30 W		N05D	
					HG-MR053	50 W	40×40	Q08D	
					HG-KR053			Q08D	
	J5					HK-KT053W	50 W	40×40	Q08D
					JN	HF-KN053	50 W	40×40	Q08D
	Tamagawa Seiki Co., Ltd.				TBL-III	TS4602	50 W	40×40	Q08D
					TBL-IV	TSM3102	50 W	40×40	Q08D
	Panasonic Corporation			MINAS	A5		MSMD5A	50 W	38×38
			MSME5A			P08K			
A6			MSMF5A		50 W	38×38	P08K		
			MHMF5A			40×40	Q08K		
KEYENCE CORPORATION		SV		SV-M005	50 W	40×40	Q08K		

Uncovered Type



Customization: Dowel Pin Holes



Dimensional 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	0.73	0.87	1.01
		B Type	—	0.95	1.09
	Covered	A Type	0.82	0.96	1.11
		B Type	—	1.09	1.24

¹ 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 Rated thrust values are restricted by the rated torque of the motor (0.159 N·m) or permissible input torque.

⁴ Maximum thrust values are restricted by the maximum instantaneous torque of the motor (0.48 N·m) or permissible input torque.

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 the value when 2 blocks (B Type) 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, values within parentheses are the maximum speed when the motor rotational speed is 6,000 min⁻¹. When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

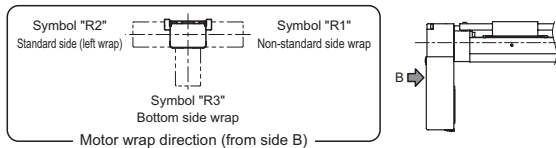
Wrapping specification details (dimensions of motor mounting plate) ⇒ p. 54

Motor type				Rated output	Flange size	Wrapping symbol
AC servo motor	KEYENCE CORPORATION	SV2	SV2-M005	50 W	40×40	Q08K
	SANYO DENKI CO., LTD.	SANMOTION R	R2□A04005	50 W	40×40	Q08K
	OMRON Corporation	OMNUC G5	R88M-K05030	50 W	40×40	Q08K
	FANUC CORPORATION	βis series	βis 0.2/5000	50 W	40×40	Q08K

Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.

Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

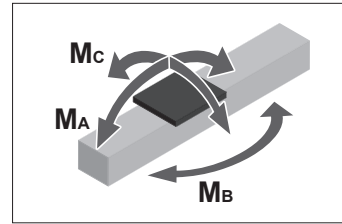
Wrapping Direction



Static Permissible Moment (LM Guide)

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

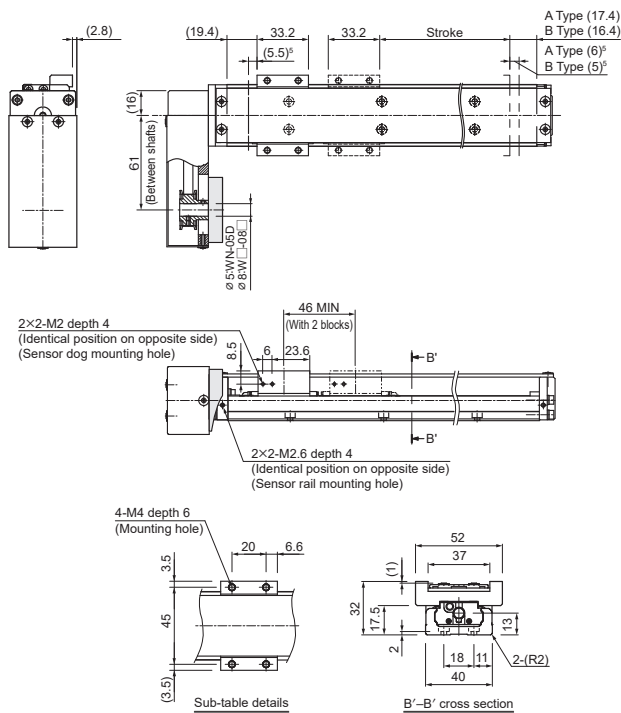
KR20

KR26

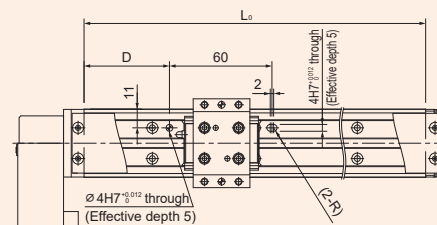
KR30H

KR45H

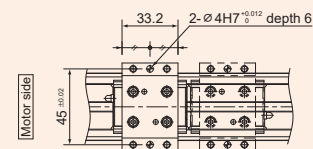
Covered Type



Customization: Dowel Pin Holes

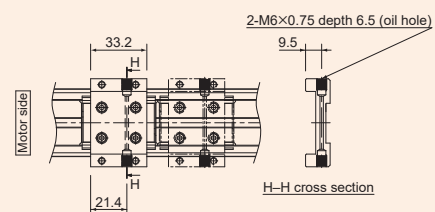


Outer rail dowel pin holes

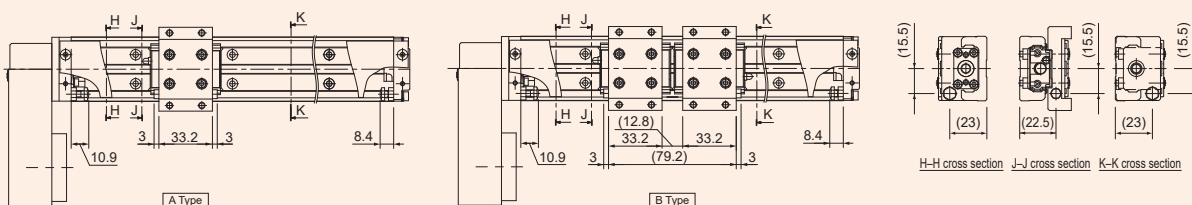


Sub-table upper surface dowel pin holes

Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



KR20 A/B Direct Motor Coupling

Model Number Coding

Basic Configuration						Semi-Custom Series					
Model No.	Ball screw lead	Block type	Stroke	Direct coupling/ Motor wrap	Cover ¹	Housing A/ Intermediate flange Direct coupling	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)
KR20	01: 1 mm 06: 6 mm	A: 1 block B: 2 blocks	A Type	0: Direct coupling 1: Without	0: Without 1: With	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)
			0030: 30 mm								
			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 this symbol.

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.)

⁶ When low dust-generating grease is specified, AFF Grease will be applied.

SKR20

SKR26

SKR33

SKR46

KR20

KR26

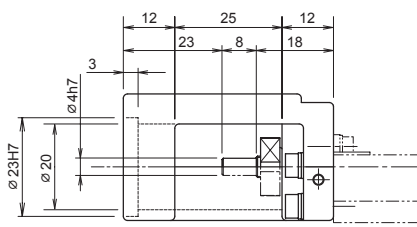
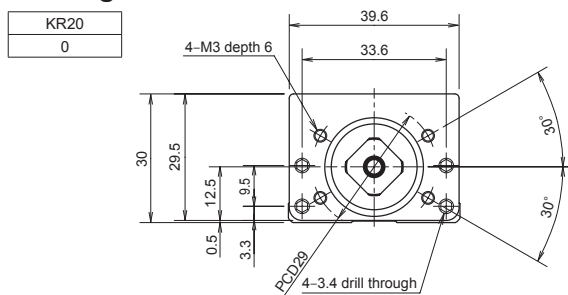
KR30H

KR45H

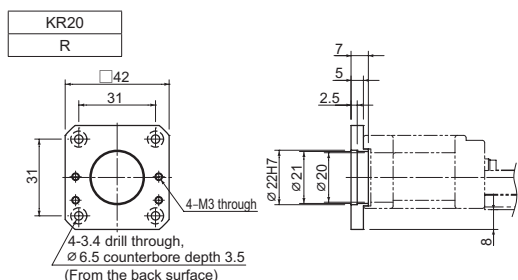
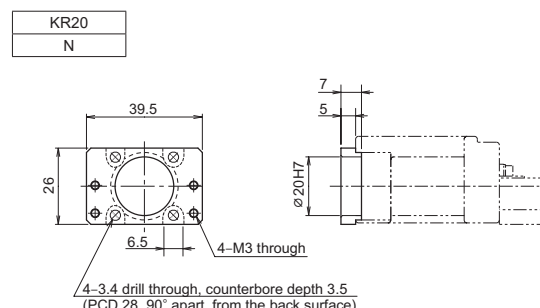
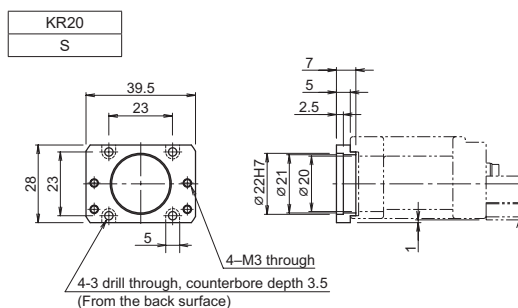
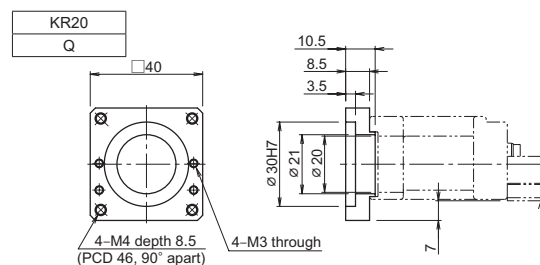
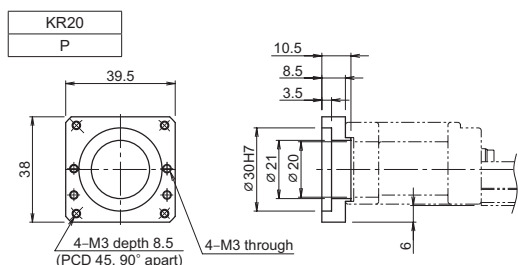
KR20 A/B Direct Coupling

Dimensional Diagram 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/ Motor wrap	Cover ¹	Motor mounting plate	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)
KR20	01: 1 mm 06: 6 mm	A: 1 block B: 2 blocks	A Type	R1: Non-standard side wrap R2: Standard side wrap R3: Bottom surface wrap	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)
			0030: 30 mm								
			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 this symbol.
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.)
⁶ When low dust-generating grease is specified, AFF Grease will be applied.

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

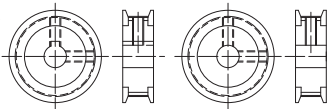
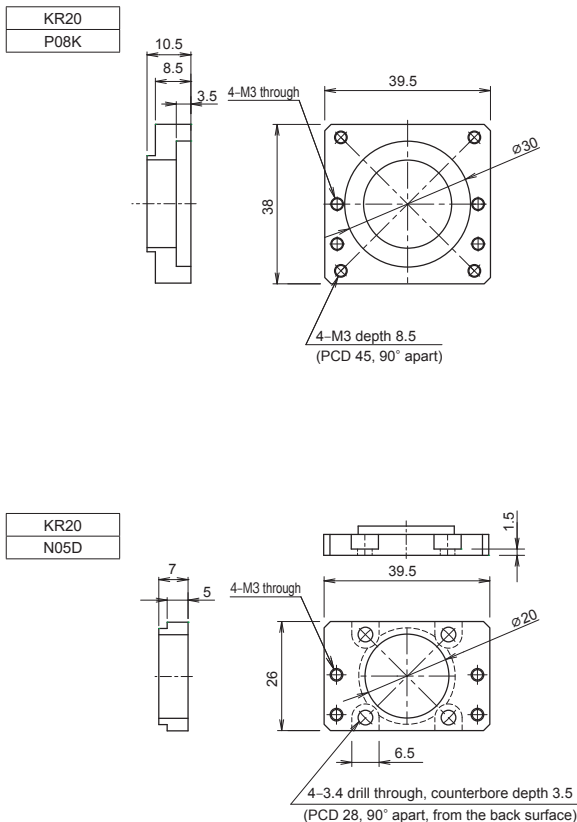


Figure: Motor shaft securing method

KR20 A/B Motor Wrapping

Dimensional Diagram 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	0.15 G	27.5	27.5
			0.3 G	27.5	27.5
		Vertical	0.15 G	9.5	7
			0.3 G	9.5	7
Rated thrust ³ (N)				449	149
Maximum thrust ⁴ (N)				1357	452
Outer diameter of ball screw shaft end (mm)				ø 5h7	
Permissible input torque (N·m)				0.62	0.80

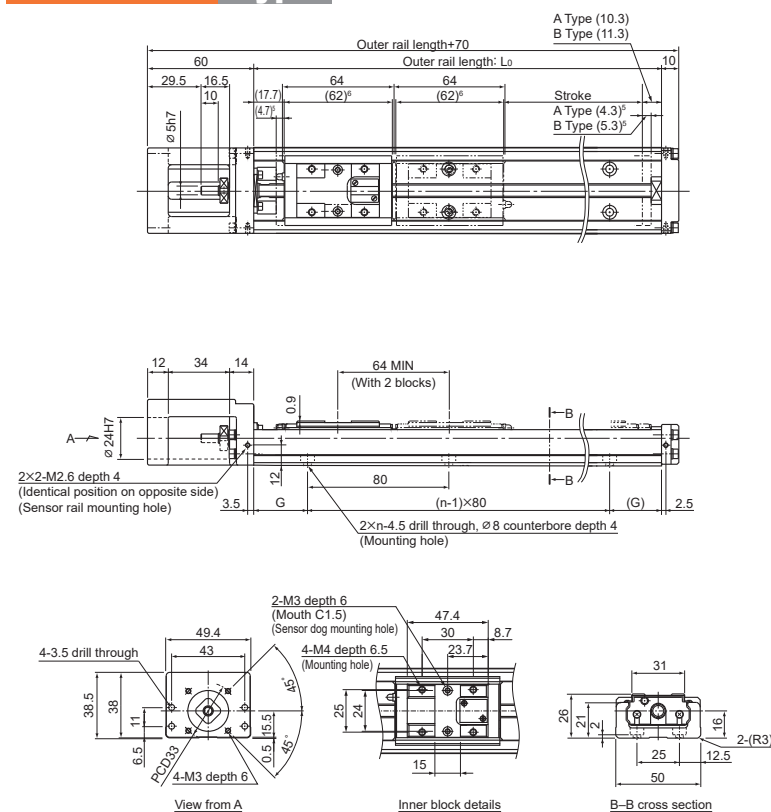
Load Rating

Item		KR2602	KR2606
LM Guide	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 lead (mm)	2	6
Ball screw unit	Basic dynamic load rating C _a (N)	2350	1950
	Basic static load rating C _{0a} (N)	4020	3510
	Screw shaft diameter (mm)	ø 8	
	Basic dynamic load rating C _a (N)	1380	
	Static permissible load P _{0a} (N)	1760	
Bearing unit (fixed side)	Axial direction		

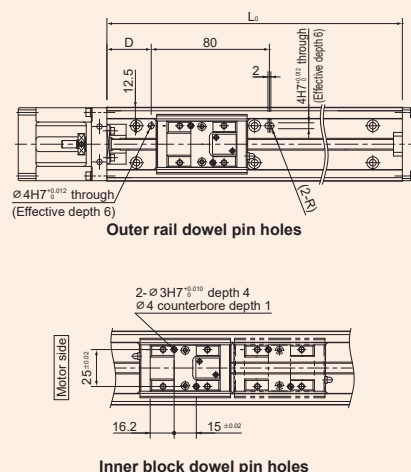
Motor Used and Applicable Intermediate Flanges

Motor type					Rated output	Flange size	Intermediate flange symbol
AC servo motor	Yaskawa Electric Corporation	Σ-Vmini		SGMMV-A1	10 W	25×25	N
				SGMMV-A2	20 W		N
				SGMMV-A3	30 W		N
		Σ-V		SGMJV-A5	50 W	40×40	Q
				SGMAV-A5			Q
		Σ-7		SGM7J-A5	50 W	40×40	Q
				SGM7A-A5			Q
		Σ-X		SGMXJ-A5	50 W	40×40	Q
	SGMXA-A5			Q			
	Mitsubishi Electric Corporation	MELSERVO	J4	HG-AK0136	10 W	25×25	N
				HG-AK0236	20 W		N
				HG-AK0336	30 W		N
				HG-MR053	50 W		40×40
			HG-KR053	Q			
			J5	HK-KT053W	50 W	40×40	Q
	JN	HF-KN053	50 W	40×40	Q		
	Tamagawa Seiki Co., Ltd.	TBL-III		TS4602	50 W	40×40	Q
		TBL-IV		TSM3102	50 W	40×40	Q
	Panasonic Corporation	MINAS	A5	MSMD5A	50 W	38×38	P
				MSME5A			P
A6			MSMF5A	50 W	38×38 40×40	P	
			MHMF5A			Q	
KEYENCE CORPORATION	SV		SV-M005	50 W	40×40	Q	
	SV2		SV2-M005			Q	
SANYO DENKI CO., LTD.	SANMOTION R		R2□A04005	50 W	40×40	Q	
OMRON Corporation	OMNUG G5		R88M-K05030	50 W	40×40	Q	
FANUC CORPORATION	βis series		βis 0.2/5000	50 W	40×40	Q	

Uncovered Type



Customization: Dowel Pin Holes



Dimensional 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 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 Rated thrust values are restricted by the rated torque of the motor (0.159 N·m) or permissible input torque.

⁴ Maximum thrust values are restricted by the maximum instantaneous torque of the motor (0.48 N·m) or permissible input torque.

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 the value when 2 blocks (B Type) 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, values within parentheses are the maximum speed when the motor rotational speed is 6,000 min⁻¹. When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

Intermediate flange dimensions ⇨ p. 59

Stepper motor	Motor type		Flange size	Intermediate flange symbol
	αStep			
Oriental Motor	5-phase	AZ2*, AR2*	28×28	S
		AZ4*, AR4* (this excludes AZM48)	42×42	R
		AZ4*, AR4* (AZM48)	42×42	R
		CRK52*	28×28	S
	CRK	CRK54*	42×42	R
		RKS54*	42×42	R
		PKP52*	28×28	S
	RK II	PKP54*	42×42	R
		PKP22*	28×28	S
		PKP24*	42×42	R
SANYO DENKI CO., LTD.	2-phase	PBDM28*	28×28	S
		PBDM423, PBA* *423	42×42	R
		FAF/FDF52*	28×28	S
	5-phase	FAF54*/FDF54*/FA511M42/FB511M42	42×42	R
		D*14S28*	28×28	S
		DB14H52*	42×42	R
	2-phase	DU15H52	42×42	R
		QS-M28	28×28	S
		QS-M42	42×42	R
KEYENCE CORPORATION	2-phase			

Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.
 Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

Recommended Coupling

Manufacturer	MIKI PULLEY CO., LTD.	Nabeya Bi-tech Kaisha (NBK)
Model No.	SFC-010DA2 ø5 to ø8	XGL2-15C*/XGT2-19C ø5 to ø8

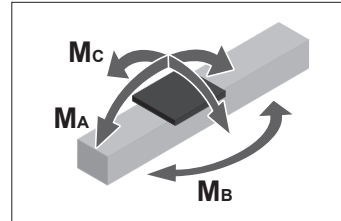
* When using flange size 25×25.

Note 3: The table shows only a portion of the model numbers for couplings. For details regarding model numbers, please see the catalog for each respective coupling manufacturer.
 Note 4: The recommended couplings are for when a servo motor is used. When using a stepper motor, please confirm using the Optimal Product Selection Tool.

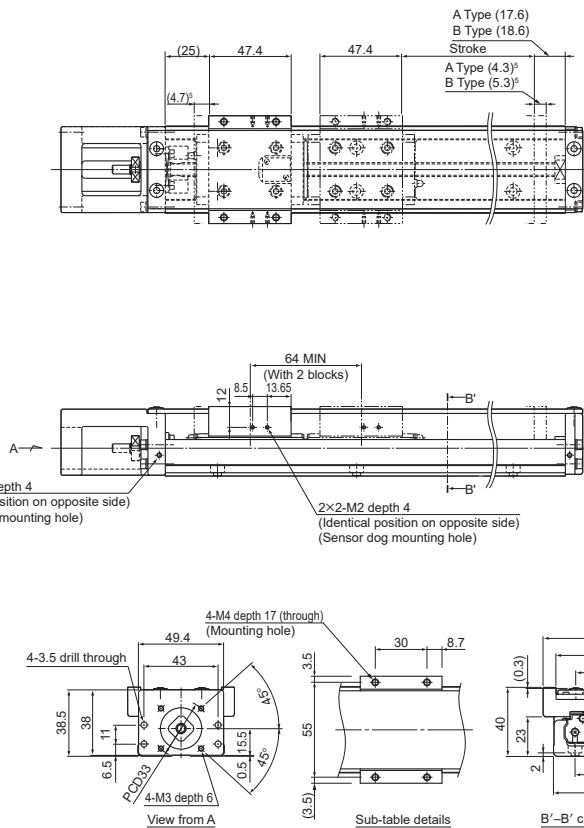
Static Permissible Moment (LM Guide)

Unit: N·m

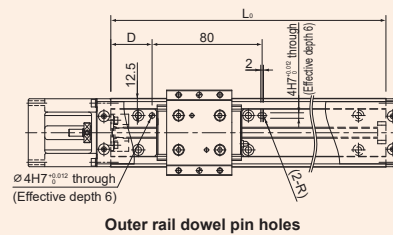
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
KR26	A	84	84	208
	B	480	480	416



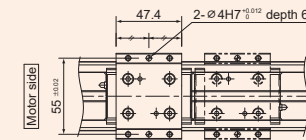
Covered Type



Customization: Dowel Pin Holes

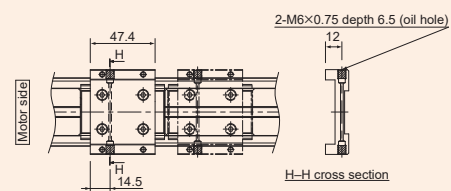


Outer rail dowel pin holes

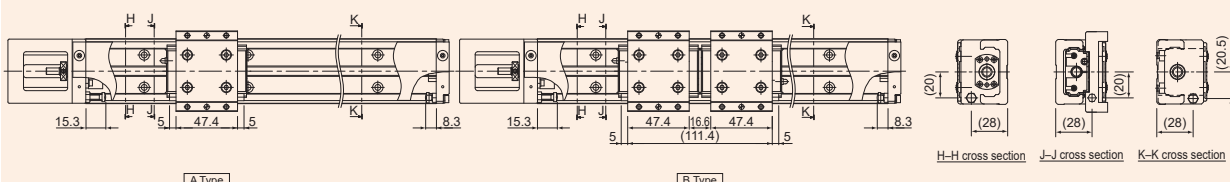


Sub-table upper surface dowel pin holes

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	0.15 G	27.5	27.5
			0.3 G	27.5	27.5
		Vertical	0.15 G	6.5	7
			0.3 G	6.5	7
Rated thrust ³ (N)				449	149
Maximum thrust ⁴ (N)				1357	452
Outer diameter of ball screw shaft end (mm)				ø 5h7	
Permissible input torque (N·m)				0.40	

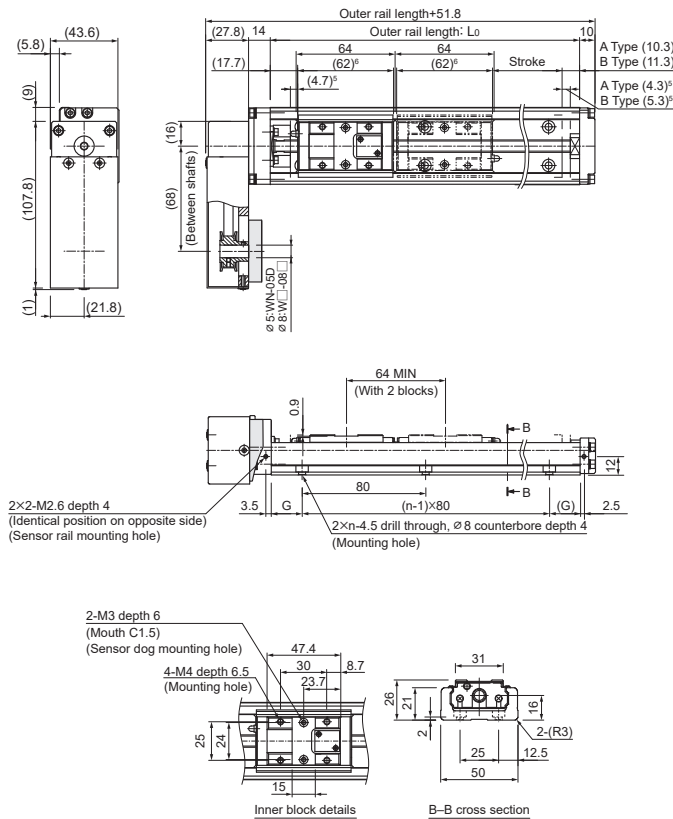
Load Rating

Item		KR2602	KR2606
LM Guide	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 lead (mm)	2	6
Ball screw unit	Basic dynamic load rating C _a (N)	2350	1950
	Basic static load rating C _{0a} (N)	4020	3510
	Screw shaft diameter (mm)	ø 8	
	Basic dynamic load rating C _a (N)	1380	
Bearing unit (fixed side)	Static permissible load P _{0a} (N)	1760	

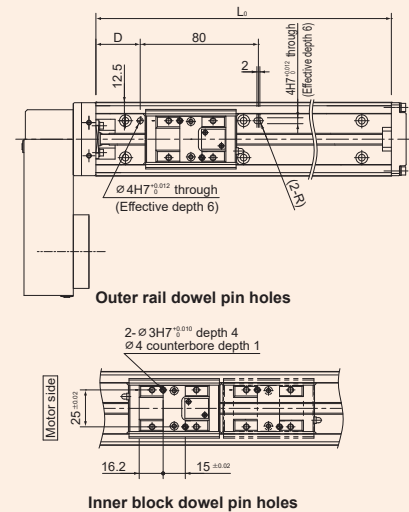
Motor Used and Wrapping Symbol

Motor type				Rated output	Flange size	Wrapping symbol		
AC servo motor	Yaskawa Electric Corporation	Σ-Vmini	SGMMV-A1	10 W	25×25	N05D		
			SGMMV-A2	20 W		N05D		
			SGMMV-A3	30 W		N05D		
		Σ-V	SGMJV-A5	50 W	40×40	Q08K		
			SGMAV-A5			Q08K		
		Σ-7	SGM7J-A5	50 W	40×40	Q08K		
			SGM7A-A5			Q08K		
		Σ-X	SGMXJ-A5	50 W	40×40	Q08K		
			SGMXA-A5			Q08K		
	Mitsubishi Electric Corporation	MELSERVO	J4	HG-AK0136	10 W	25×25	N05D	
				HG-AK0236	20 W		N05D	
				HG-AK0336	30 W		N05D	
				HG-MR053	50 W		40×40	Q08D
				HG-KR053				Q08D
			J5	HK-KT053W	50 W	40×40	Q08D	
			JN	HF-KN053	50 W	40×40	Q08D	
			Tamagawa Seiki Co., Ltd.	TBL-II	TS4602	50 W	40×40	Q08D
				TBL-IV	TSM3102	50 W	40×40	Q08D
	Panasonic Corporation	MINAS	A5	MSMD5A	50 W	38×38	P08K	
				MSME5A			P08K	
A6			MSMF5A	50 W	38×38	P08K		
			MHMF5A			40×40	Q08K	
KEYENCE CORPORATION	SV	SV-M005	50 W	40×40	Q08K			

Uncovered Type



Customization: Dowel Pin Holes



Dimensional 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 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 torque.

³ Rated thrust values are restricted by the rated torque of the motor (0.159 N·m) or permissible input torque.

⁴ Maximum thrust values are restricted by the maximum instantaneous torque of the motor (0.48 N·m) or permissible input torque.

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 the value when 2 blocks (B Type) 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, values within parentheses are the maximum speed when the motor rotational speed is 6,000 min⁻¹. When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

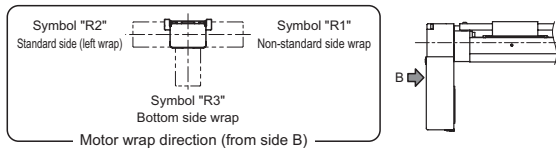
Wrapping specification details (dimensions of motor mounting plate) ⇒ p. 60

Motor type			Rated output	Flange size	Wrapping symbol	
AC servo motor	KEYENCE CORPORATION	SV2	SV2-M005	50 W	40×40	Q08K
	SANYO DENKI CO., LTD.	SANMOTION R	R2□A04005	50 W	40×40	Q08K
	OMRON Corporation	OMNUC G5	R88M-K05030	50 W	40×40	Q08K
	FANUC CORPORATION	βis series	βis 0.2/5000	50 W	40×40	Q08K

Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.

Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

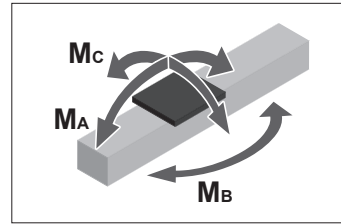
Wrapping Direction



Static Permissible Moment (LM Guide)

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



KR

SKR20

SKR26

SKR33

SKR46

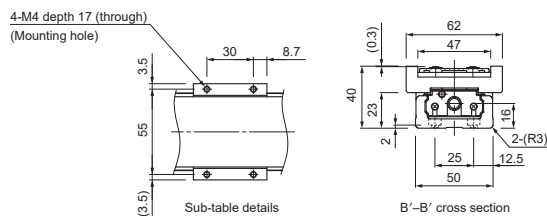
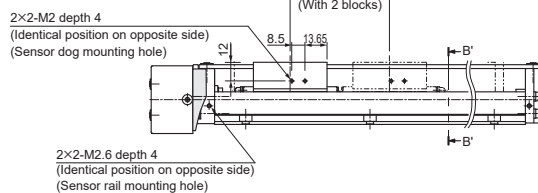
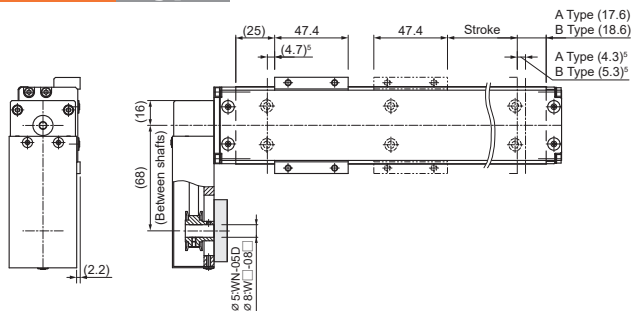
KR20

KR26

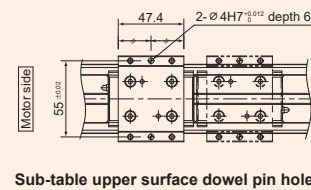
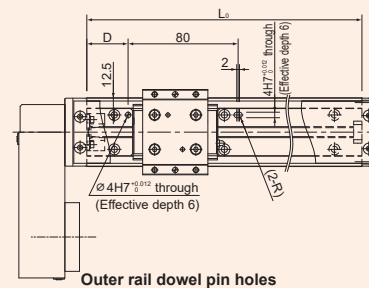
KR30H

KR45H

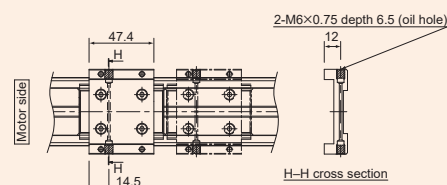
Covered Type



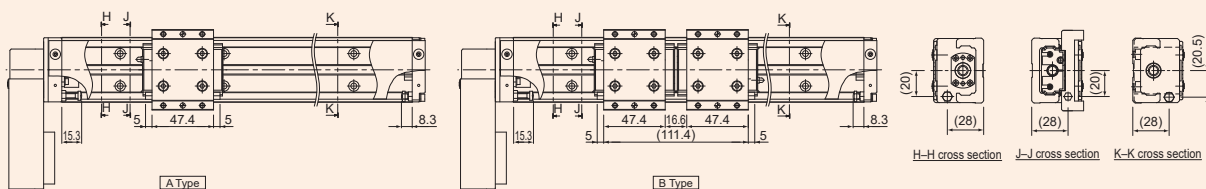
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



KR26 A/B Direct Motor Coupling

Model Number Coding

Basic Configuration						Semi-Custom Series					
Model No.	Ball screw lead	Block type	Stroke	Direct coupling/ Motor wrap	Cover ¹	Housing A/ Intermediate flange Direct coupling	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)
KR26	02: 2 mm 06: 6 mm	A: 1 block B: 2 blocks	A Type	0: Direct coupling 1: Without	0: Without 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 this symbol.

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.

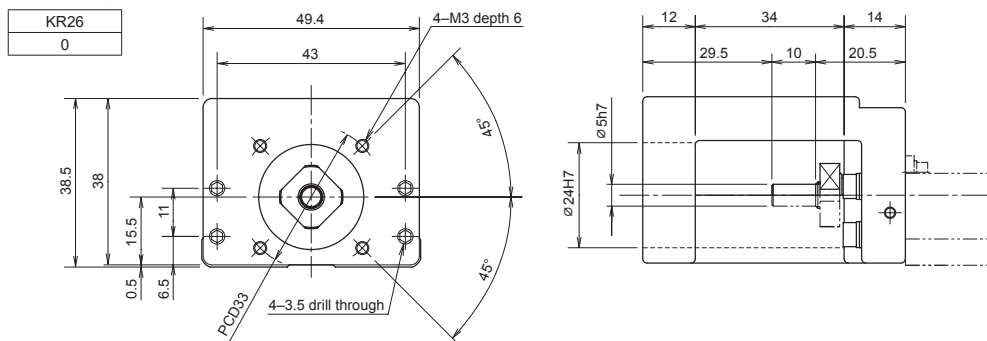
⁵ KR26 cannot be specified with surface treatment. (The outer rail, ball screw, and inner block are made of stainless steel.)

⁶ When low dust-generating grease is specified, AFF Grease will be applied.

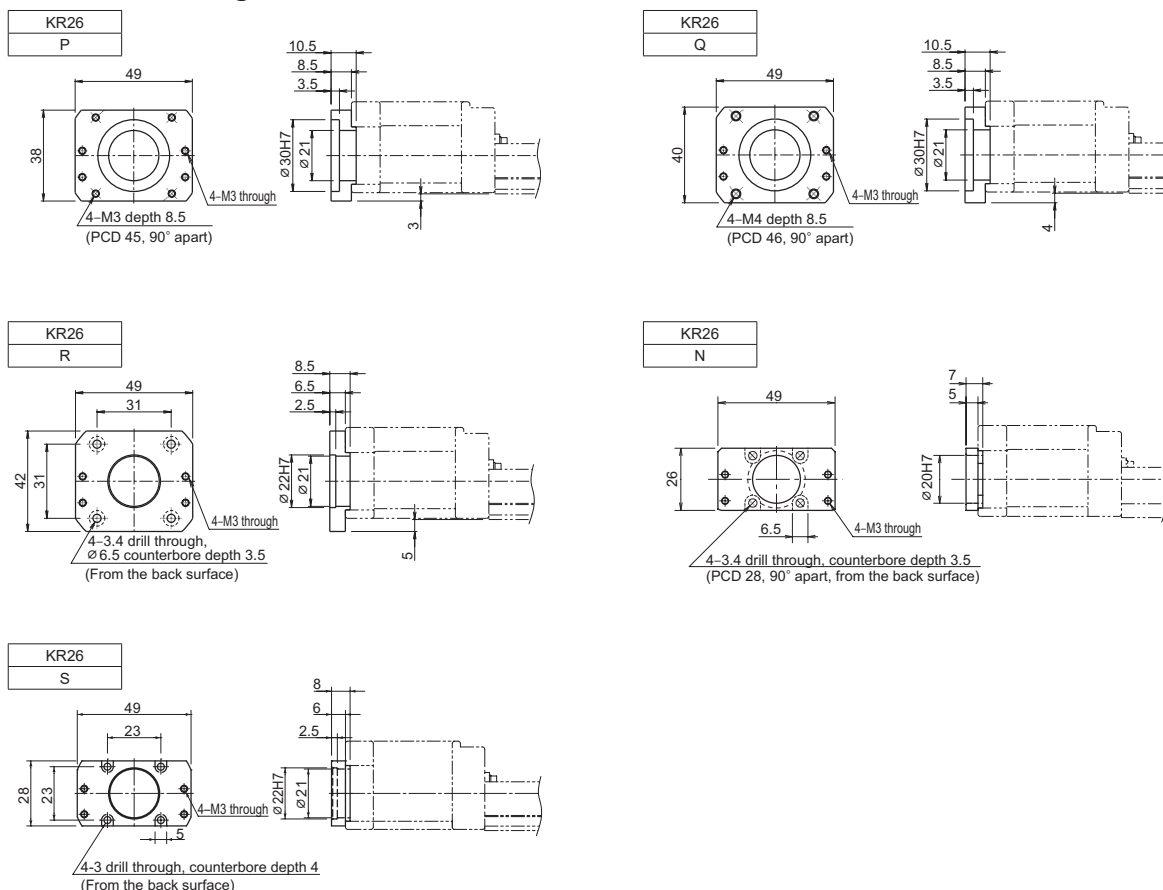
KR26 A/B Direct Coupling

Dimensional Diagram 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/ Motor wrap	Cover ¹	Motor mounting plate	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)
KR26	02: 2 mm 06: 6 mm	A: 1 block B: 2 blocks	A Type	R1: Non-standard side wrap R2: Standard side wrap R3: Bottom surface wrap	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								
			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 this symbol.
- 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.)
- ⁶ When low dust-generating grease is specified, AFF Grease will be applied.

Q 08 K

① ② ③

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

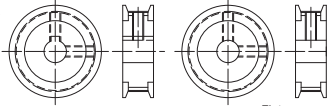
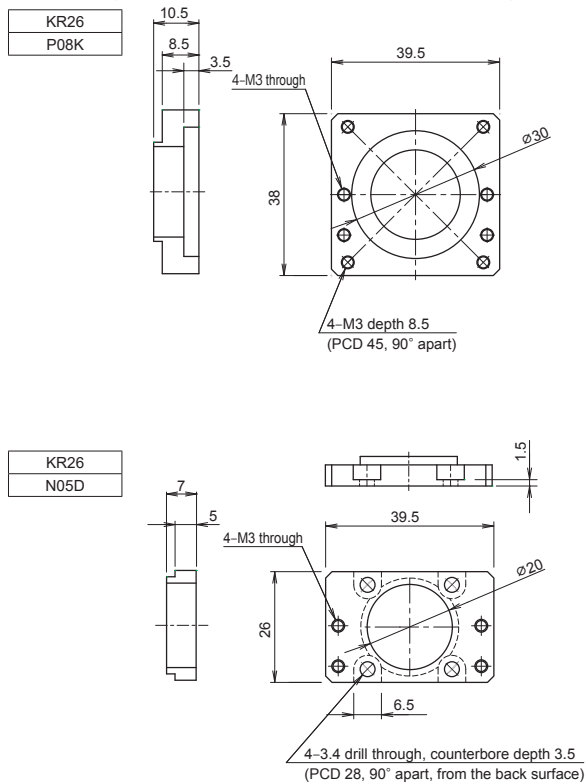
K: Key
D: Flat


Figure: Motor shaft securing method

KR26 A/B Motor Wrapping

Dimensional Diagram 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	0.15 G	35	—
			0.3 G	35	28.5
			0.5 G	—	28.5
		Vertical	0.15 G	15.5	—
			0.3 G	15	9
			0.5 G	—	9
Rated thrust ³ (N)				299	179
Maximum thrust ⁴ (N)				895	537
Outer diameter of ball screw shaft end (mm)				ø6h7	
Permissible input torque (N·m)				1.2	

Load Rating

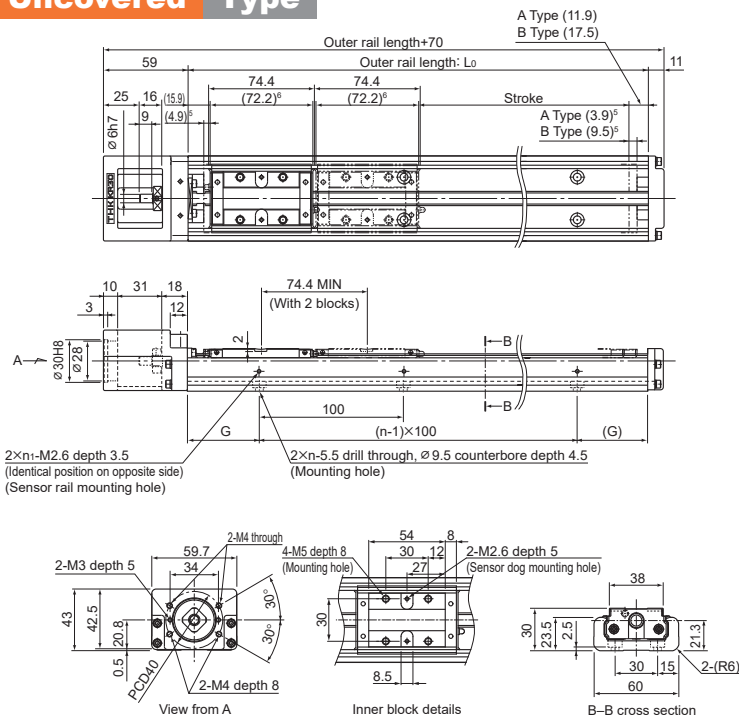
Item		KR30H06	KR30H10
LM Guide	Basic dynamic load rating C (N)	11600	
	Basic static load rating C ₀ (N)	20200	
	Radial clearance (mm)	-0.004 to +0.002	
Ball screw unit	Ball screw lead (mm)	6	10
	Basic dynamic load rating Ca (N)	2840	1760
	Basic static load rating C _{0a} (N)	4900	2840
	Screw shaft diameter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

Motor Used and Applicable Intermediate Flanges Intermediate flange dimensions ➞ **p. 65**

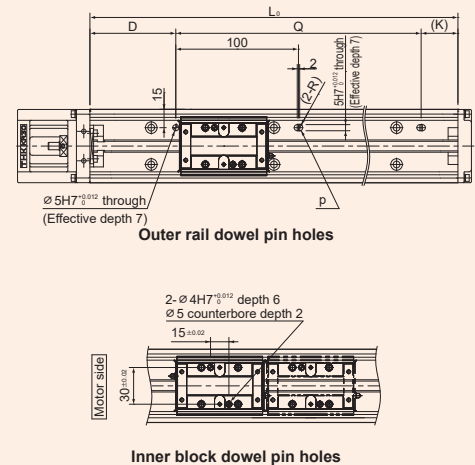
Motor type			Rated output	Flange size	Intermediate flange symbol
AC servo motor	Yaskawa Electric Corporation	Σ-V	SGMJV-A5	50 W	Q
			SGMAV-A5		Q
			SGMJV-01	100 W	Q
			SGMAV-01		Q
			SGMJV-C2	150 W	Q

Motor type					Rated output	Flange size	Intermediate flange symbol			
AC servo motor	Yaskawa Electric Corporation	Σ -7		SGM7J-A5	50 W	40×40	Q			
				SGM7A-A5			Q			
				SGM7J-01	100 W		Q			
				SGM7A-01			Q			
				SGM7J-C2	150 W		Q			
				SGMXJ-A5	50 W		Q			
		Σ -X		SGMXA-A5		Q				
				SGMXJ-01	100 W	Q				
				SGMXA-01		Q				
				SGMXJ-C2		Q				
				SGMXA-C2		150 W	Q			
							Q			
	Mitsubishi Electric Corporation	MELSERVO	J4			HG-MR053	50 W	40×40	Q	
					HG-KR053	Q				
					HG-MR13	Q				
					HG-KR13	Q				
			J5		HK-KT053W	50 W	40×40	Q		
					HK-KT13W	100 W		Q		
				JN		HF-KN053		50 W	40×40	Q
						HF-KN13		100 W		Q
	Tamagawa Seiki Co., Ltd.	TBL-II		TS4602	50 W	40×40	Q			
				TS4603	100 W		Q			
				TS4604	150 W		Q			
		TBL-IV		TSM3102	50 W	40×40	Q			
				TSM3104	100 W		Q			
			Panasonic Corporation	MINAS	A5		MSMD5A	50 W	38×38	P
		MSME5A				P				
	MSMD01	P								
	MSME01	P								
A6		MSMF5A			50 W	38×38	P			
		MHMF5A				40×40	Q			
		MSMF01				38×38	P			
		MHMF01				100 W	40×40	Q		
KEYENCE CORPORATION	SV			SV-M005	50 W	40×40	Q			
				SV-M010	100 W		Q			
	SV2		SV2-M005	50 W	Q					
			SV2-M010	100 W	Q					

Uncovered	Type
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
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95	95
96	96
97	97
98	98
99	99
100	100



Customization: Dowel Pin Holes



Dimensional 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)					
		10 mm	500 (790)					
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	2
No. of mounting holes	n	2	2	3	4	5	6	6
	n ₁	2	2	2	2	3	3	3
Mass (kg)	Uncovered	A Type	1.6	1.9	2.5	3	3.6	4.2
		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 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 Rated thrust values are restricted by the rated torque of the motor (0.318 N·m) or permissible input torque.

⁴ Maximum thrust values are restricted by the maximum instantaneous torque of the motor (0.95 N·m) or permissible input torque.

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 the value when 2 blocks (B Type) are in close contact with each other.

^a 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, values within parentheses are the maximum speed when the motor rotational speed is 6,000 min⁻¹. When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

Motor type		Rated output	Flange size	Intermediate flange symbol
AC servo motor	SANYO DENKI CO., LTD.	SANMOTION R	R2□A04005	50 W
			R2EA04008	80 W
			R2□A04010	100 W
	OMRON Corporation	OMNUC G5	R88M-K05030	50 W
		1S	R88M-K10030	100 W
	FANUC CORPORATION	βis series	βis 0.2/5000	50 W
			βis0.3/5000	100 W
Stepper motor	Oriental Motor	αStep	AZ4*, AR4* (this excludes AZM48)	42×42 R
			AZ6*, AR6* (AZM48)	42×42 R
			AZ6*, AR6*	60×60 U
			CRK54*	42×42 R
			CRK56* ø 8 564, 566	60×60 U
			CRK56* ø 10 569	60×60 U
		5-phase	CRK56*	60×60 U
			CRK56*	60×60 U
			CRK56*	60×60 U
			CRK56*	60×60 U
			CRK56*	60×60 U
			CRK56*	60×60 U
		2-phase	PKP56* ø 8 564	56.4×56.4 T
			PKP56* ø 8 564, 566	60×60 U
			PKP56*	60×60 U
			PKP56*	60×60 U
			PKP56*	60×60 U
			PKP56*	60×60 U
	SANYO DENKI CO., LTD.	PB	PBDM423, PBA* *423	42×42 R
			PBDM60*, PBA* *60*	60×60 U
		5-phase	FAF54*/FDF54*/FA511M42/FB511M42	42×42 R
			FAM56*/FDM56*/FA512M60/FB512M60	60×60 U
			DB14H52*	42×42 R
			DU15H52*	42×42 R
		2-phase	D*16H71*	56×56 T
			DB16H78*	60×60 U
			QS-M42	42×42 R
			QS-M60	60×60 U
	KEYENCE CORPORATION	2-phase	QS-M42	42×42 R
			QS-M60	60×60 U

Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.
 Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

Recommended Coupling

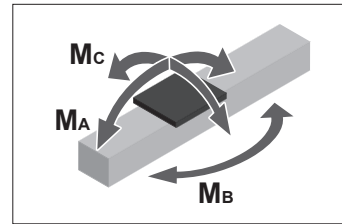
Manufacturer	MIKI PULLEY CO., LTD.	Nabeya Bi-tech Kaisha (NBK)
Model No.	SFC-020DA2 ø6 to ø8	XGT2-19C ø6 to ø8

Note 3: The table shows only a portion of the model numbers for couplings. For details regarding model numbers, please see the catalog for each respective coupling manufacturer.
 Note 4: The recommended couplings are for when a servo motor is used. When using a stepper motor, please confirm using the Optimal Product Selection Tool.

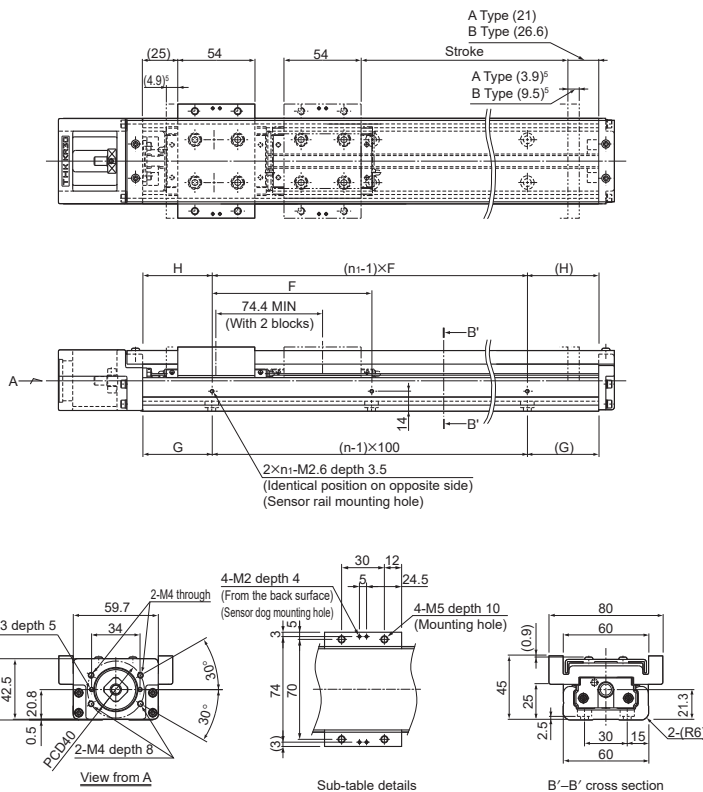
Static Permissible Moment (LM Guide)

Unit: N·m

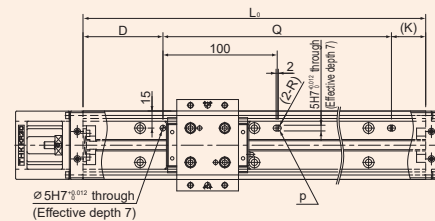
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
KR30H	A	166	166	428
	B	908	908	857



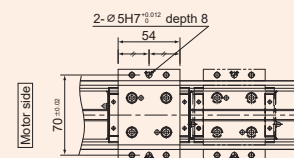
Covered Type



Customization: Dowel Pin Holes

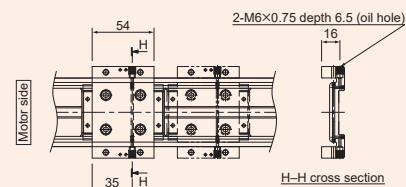


Outer rail dowel pin holes

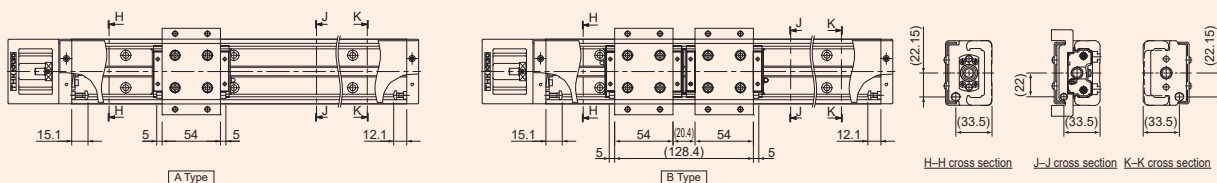


Sub-table upper surface dowel pin holes

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	0.15 G	35	—
			0.3 G	35	28.5
			0.5 G	—	28.5
		Vertical	0.15 G	12	—
			0.3 G	11.5	9
			0.5 G	—	9
Rated thrust ³ (N)			299	179	
Maximum thrust ⁴ (N)			895	537	
Outer diameter of ball screw shaft end (mm)			ø6h7		
Permissible input torque (N·m)			0.98		

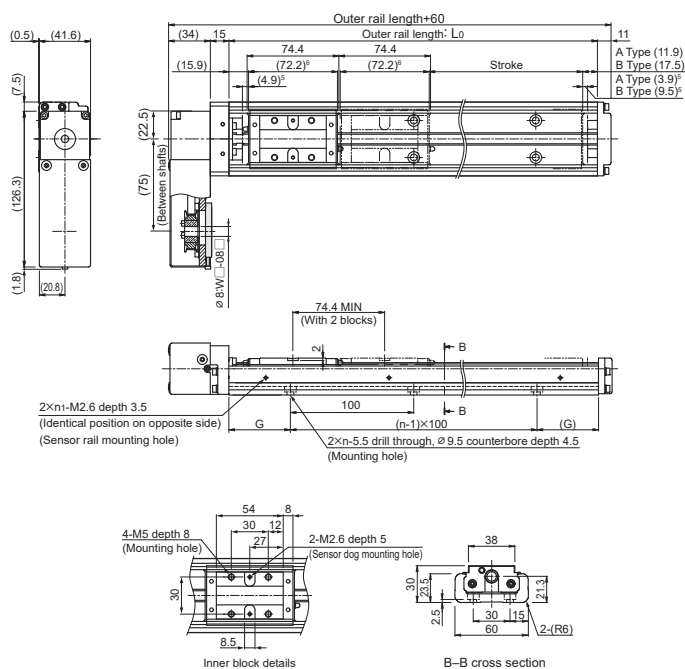
Load Rating

Item		KR30H06	KR30H10
LM Guide	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	Ball screw lead (mm)	6	10
	Basic dynamic load rating C _a (N)	2840	1760
	Basic static load rating C _{0a} (N)	4900	2840
	Screw shaft diameter (mm)	ø10	
	Basic dynamic load rating C _a (N)	1790	—
	Static permissible load P _{0a} (N)	2590	—
Bearing unit (fixed side)	Axial direction		

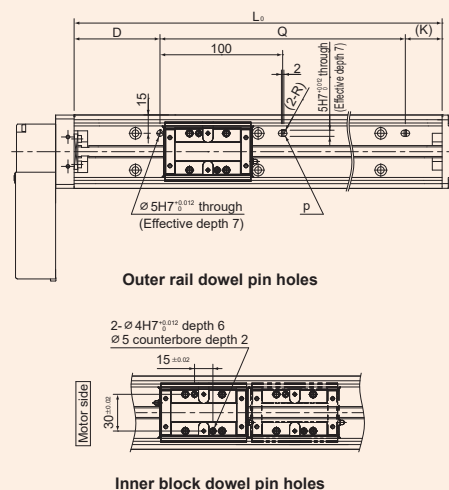
Motor Used and Wrapping Symbol

Motor type		Rated output	Flange size	Wrapping symbol
AC servo motor	Yaskawa Electric Corporation	Σ-V	50 W	Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
		Σ-7	100 W	Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
		Σ-X	50 W	Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
		100 W	40×40	Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
	Mitsubishi Electric Corporation	J4	50 W	Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M
		J5	100 W	Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M
	Tamagawa Seiki Co., Ltd.	TBL-III	50 W	Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M
		TBL-IV	100 W	Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M

Uncovered Type



Customization: Dowel Pin Holes



Dimensional 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
	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 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 Rated thrust values are restricted by the rated torque of the motor (0.318 N·m) or permissible input torque.⁴ Maximum thrust values are restricted by the maximum instantaneous torque of the motor (0.95 N·m) or permissible input torque.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 the value when 2 blocks (B Type) 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, values within parentheses are the maximum speed when the motor rotational speed is 6,000 min⁻¹. When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

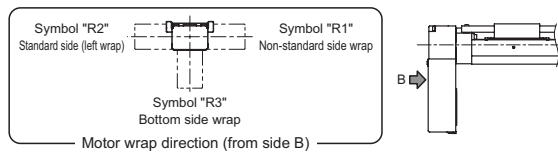
Wrapping specification details (dimensions of motor mounting plate) ⇒ p. 66

AC servo motor	Motor type		Rated output	Flange size	Wrapping symbol
Panasonic Corporation	MINAS	A5	MSMD5A	50 W	P08K, P08D, P08M
			MSME5A		P08K, P08D, P08M
		A6	MSMD01	100 W	P08K, P08D, P08M
			MSME01		P08K, P08D, P08M
		A5	MSMF5A	50 W	P08K, P08M
			MHMF5A		Q08K, Q08M
		A6	MSMF01	100 W	P08K, P08M
			MHMF01		Q08K, Q08M
KEYENCE CORPORATION	SV	SV2	SV-M005	50 W	Q08K, Q08M
			SV-M010	100 W	Q08K, Q08M
			SV2-M005	50 W	Q08K, Q08M
			SV2-M010	100 W	Q08K, Q08M
SANYO DENKI CO., LTD.	SANMOTION R		R2□A04005	50 W	Q08M
			R2EA04008	80 W	Q08M
			R2□A04010	100 W	Q08M
OMRON Corporation	OMNUC G5	1S	R88M-K05030	50 W	Q08K, Q08M
			R88M-K10030	100 W	Q08K, Q08M
			R88M-1M10030	100 W	Q08K, Q08M

Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.

Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

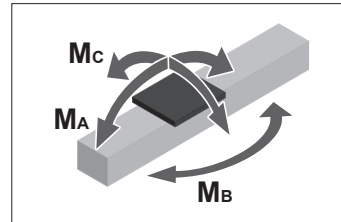
Wrapping Direction



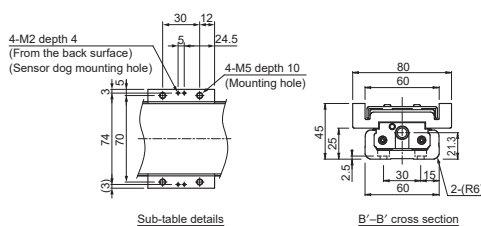
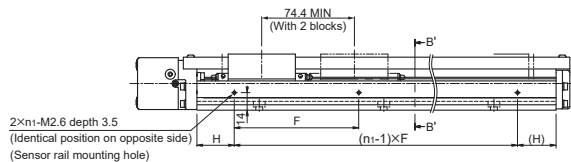
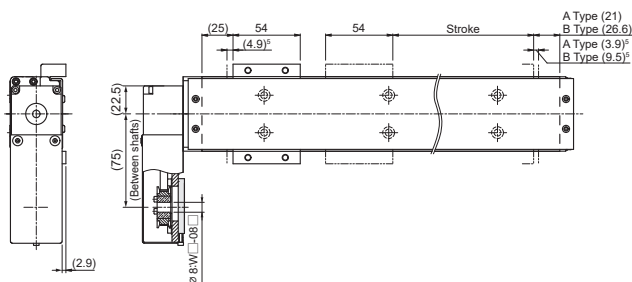
Static Permissible Moment (LM Guide)

Unit: N·m

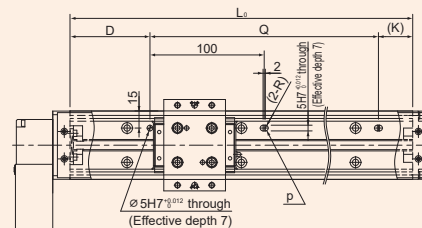
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
KR30H	A	166	166	428
	B	908	908	857



Covered Type

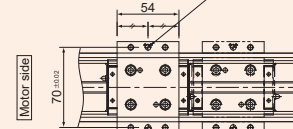


Customization: Dowel Pin Holes



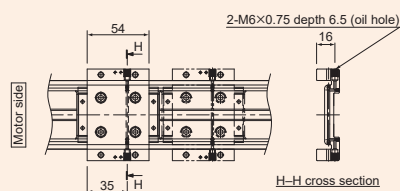
Outer rail dowel pin holes

2-Ø 5H7 g12 depth 8

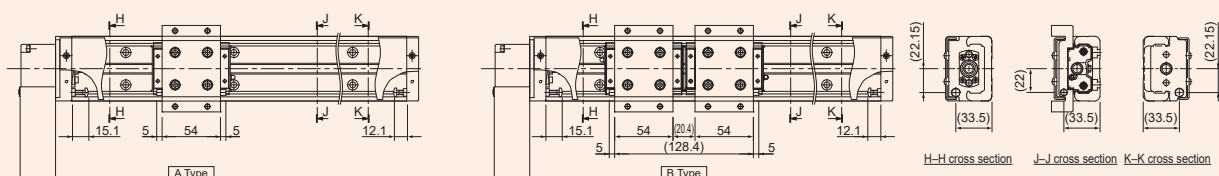


Sub-table upper surface dowel pin holes

Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



KR30H A/B Direct Motor Coupling

Model Number Coding

Basic Configuration							Semi-Custom Series					
Model No.	Ball screw lead	Block type	Stroke		Direct coupling/ Motor wrap	Cover ¹	Housing A/ Intermediate flange	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)
			A Type	B Type			Direct coupling					
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	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	0100: 100 mm	0220: 220 mm				D: With	M: With	G: With	S: With	
			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 this symbol.

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.

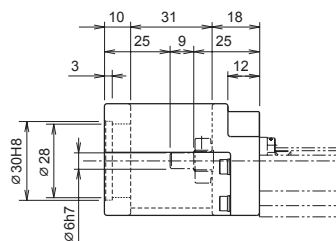
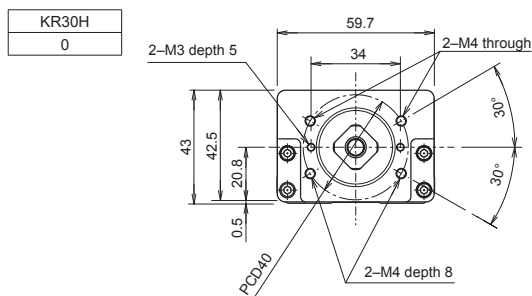
⁴ Sub-table greasing holes are only available on covered products.

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.)

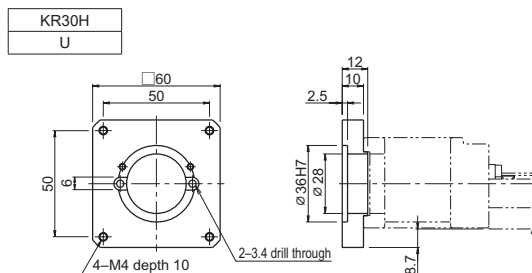
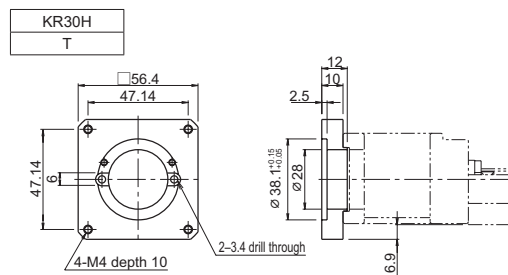
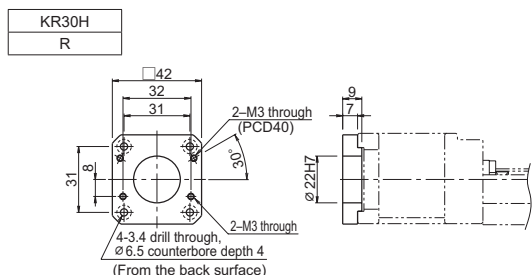
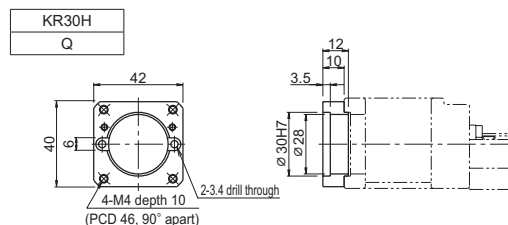
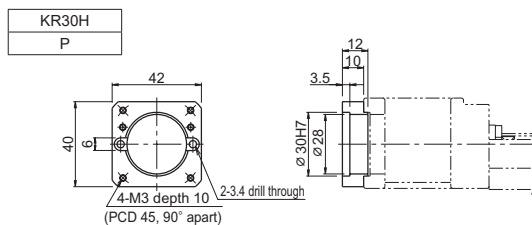
⁶ When low dust-generating grease is specified, AFF Grease will be applied.

KR30H A/B Direct Coupling Dimensional Diagram for Motor Mounting

Housing A



Intermediate Flange



KR30H A/B Motor Wrapping

Model Number Coding

Wrapping direction details → p. 64

Basic Configuration										Semi-Custom Series				
Model No.	Ball screw lead	Block type	Stroke		Direct coupling/ Motor wrap	Cover ¹	Motor mounting plate	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)		
KR30H	06: 6 mm	A: 1 block	A Type	B Type	R1: Non-standard side wrap R2: Standard side wrap R3: Bottom surface wrap	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	0050: 50 mm	0120: 120 mm										
			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 this symbol.

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.)

⁶ When low dust-generating grease is specified, AFF Grease will be applied.

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

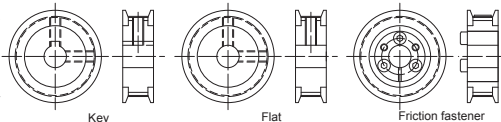


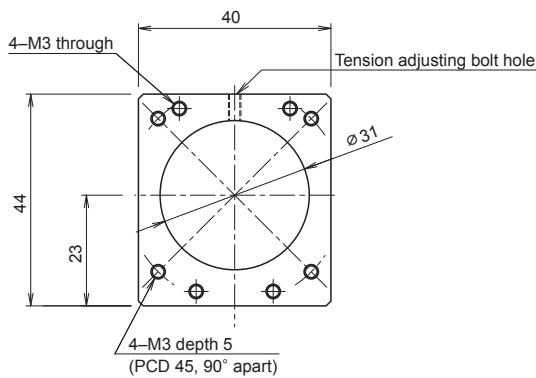
Figure: Motor shaft securing method

KR30H A/B Motor Wrapping Dimensional Diagram for Motor Mounting

Wrapping Specifications (Motor Mounting Plate)

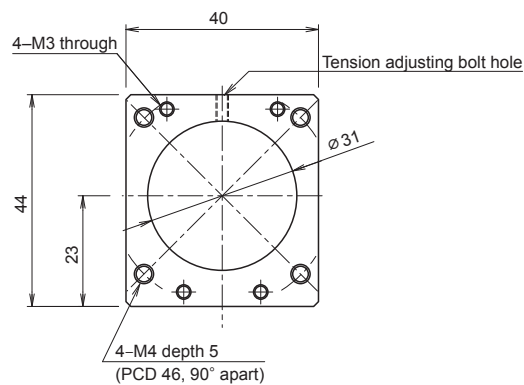
KR30H
P08K/P08D/P08M

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	0.15 G	25	—
			0.3 G	25	16.5
			0.5 G	—	13
		Vertical	0.15 G	4.5	—
			0.3 G	4.5	3.5
			0.5 G	—	3.5
Rated thrust ³ (N)				299	179
Maximum thrust ⁴ (N)				895	537
Outer diameter of ball screw shaft end (mm)				ø6h7	
Permissible input torque (N·m)				1.2	

Load Rating

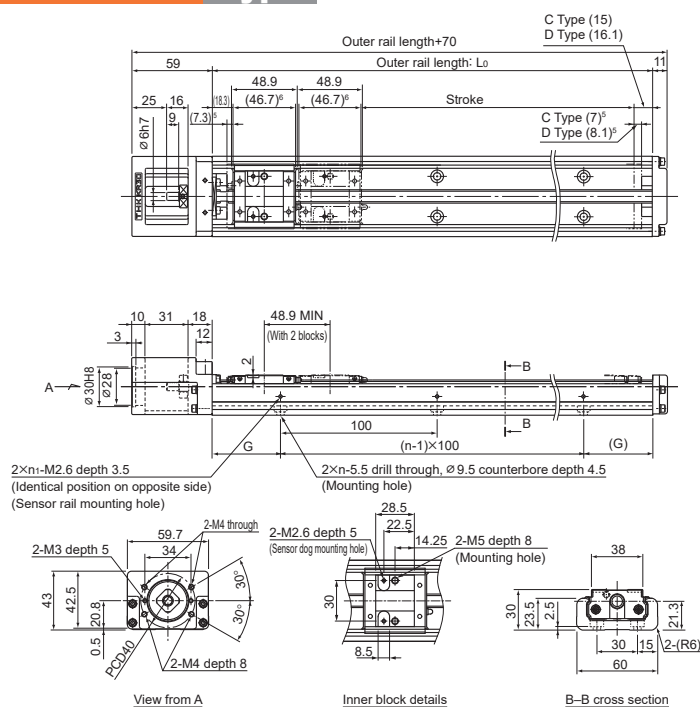
Item		KR30H06	KR30H10
LM Guide	Basic dynamic load rating C (N)	4900	
	Basic static load rating C ₀ (N)	10000	
	Radial clearance (mm)	-0.004 to +0.002	
Ball screw unit	Ball screw lead (mm)	6	10
	Basic dynamic load rating C _a (N)	2840	1760
	Basic static load rating C _{0a} (N)	4900	2840
	Screw shaft diameter (mm)	ø 10	
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 Intermediate flange dimensions **p. 71**

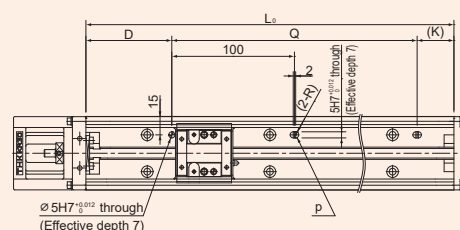
Motor type			Rated output	Flange size	Intermediate flange symbol	
AC servo motor	Yaskawa Electric Corporation	Σ-V	SGMJV-A5	50 W	40×40	Q
			SGMAV-A5			Q
			SGMJV-01	100 W		Q
			SGMAV-01			Q
			SGMJV-C2			150 W

Motor type				Rated output	Flange size	Intermediate flange symbol	
AC servo motor	Yaskawa Electric Corporation	Σ-7	SGM7J-A5	50 W	40×40	Q	
			SGM7A-A5			Q	
			SGM7J-01	100 W		Q	
			SGM7A-01			Q	
			SGM7J-C2	150 W		Q	
		Σ-X	SGMXJ-A5	50 W	40×40	Q	
			SGMXA-A5			Q	
			SGMXJ-01	100 W		Q	
			SGMXA-01			Q	
			SGMXJ-C2	150 W		Q	
	Mitsubishi Electric Corporation	MELSERVO	J4	HG-MR053	50 W	40×40	Q
				HG-KR053			Q
				HG-MR13	100 W		Q
				HG-KR13			Q
		J5	HK-KT053W	50 W	40×40	Q	
			HK-KT13W	100 W		Q	
			HF-KN053	50 W		40×40	Q
			HF-KN13	100 W			Q
	Tamagawa Seiki Co., Ltd.	TBL-III		TS4602	50 W	40×40	Q
				TS4603	100 W		Q
				TS4604	150 W		Q
		TBL-IV		TSM3102	50 W	40×40	Q
				TSM3104	100 W		Q
Panasonic Corporation	MINAS	A5	MSMD5A	50 W	38×38	P	
			MSME5A			P	
			MSMD01	100 W		P	
			MSME01			P	
		A6	MSMF5A	50 W	38×38	P	
			MHMF5A		40×40	Q	
			MSMF01	100 W	38×38	P	
			MHMF01		40×40	Q	
KEYENCE CORPORATION	SV		SV-M005	50 W	40×40	Q	
			SV-M010	100 W		Q	
	SV2		SV2-M005	50 W		Q	
			SV2-M010	100 W		Q	

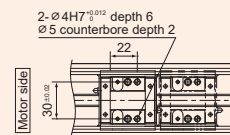
Uncovered Type



Customization: Dowel Pin Holes



Outer rail dowel pin holes



Inner block dowel pin holes

Dimensional 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 ⁶ (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
	K		—	—	—	—	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	
	n ₁	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 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 Rated thrust values are restricted by the rated torque of the motor (0.318 N·m) or permissible input torque.

⁴ Maximum thrust values are restricted by the maximum instantaneous torque of the motor (0.95 N·m) or permissible input torque.

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 (D Type) in close contact with each other.

⁷ This indicates the value when 2 blocks (D Type) are in close contact with each other.

^e 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, values within parentheses are the maximum speed when the motor rotational speed is 6,000 min⁻¹. When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

		Motor type	Rated output	Flange size	Intermediate flange symbol
AC servo motor	SANYO DENKI CO., LTD.	SANMOTION R	R2□A04005	50 W	Q
			R2EA04008	80 W	Q
			R2□A04010	100 W	Q
	OMRON Corporation	OMNUC G5	R88M-K05030	50 W	Q
			R88M-K10030	100 W	Q
	FANUC CORPORATION	βis series	R88M-1M10030	100 W	Q
			βis 0.2/5000	50 W	Q
Stepper motor	Oriental Motor	αStep	AZ4*, AR4* (this excludes AZM48)	42×42	R
			AZ4*, AR4* (AZM48)	42×42	R
			AZ6*, AR6*	60×60	U
			CRK54*	42×42	R
			CRK56* ø 8 564, 566	60×60	U
			CRK56* ø 10 569	60×60	U
		5-phase	RK II	42×42	R
			RKS56*	60×60	U
			PKP54*	42×42	R
		2-phase	PKP56* ø 8 564	56.4×56.4	T
			PKP56* ø 8 564, 566	60×60	U
			PKP24*	42×42	R
	SANYO DENKI CO., LTD.	PB	PBDM423, PBA* *423	42×42	R
			PBDM60*, PBA* *60*	60×60	U
		5-phase	FAF54*/FDF54*/FA511M42/FB511M42	42×42	R
			FAM56*/FDM56*/FA512M60/FB512M60	60×60	U
		2-phase	DB14H52*	42×42	R
			DU15H52*	42×42	R
			D*16H71*	56×56	T
			DB16H78*	60×60	U
		2-phase	QS-M42	42×42	R
			QS-M60	60×60	U
	KEYENCE CORPORATION	2-phase	QS-M42	42×42	R
			QS-M60	60×60	U

Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.
Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

Recommended Coupling

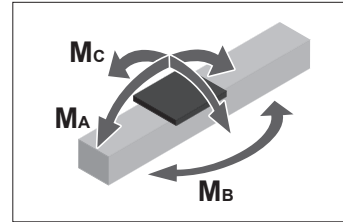
Manufacturer	MIKI PULLEY CO., LTD.	Nabeya Bi-tech Kaisha (NBK)
Model No.	SFC-020DA2 ø 6 to ø 8	XGT2-19C ø 6 to ø 8

Note 3: The table shows only a portion of the model numbers for couplings. For details regarding model numbers, please see the catalog for each respective coupling manufacturer.
Note 4: The recommended couplings are for when a servo motor is used. When using a stepper motor, please confirm using the Optimal Product Selection Tool.

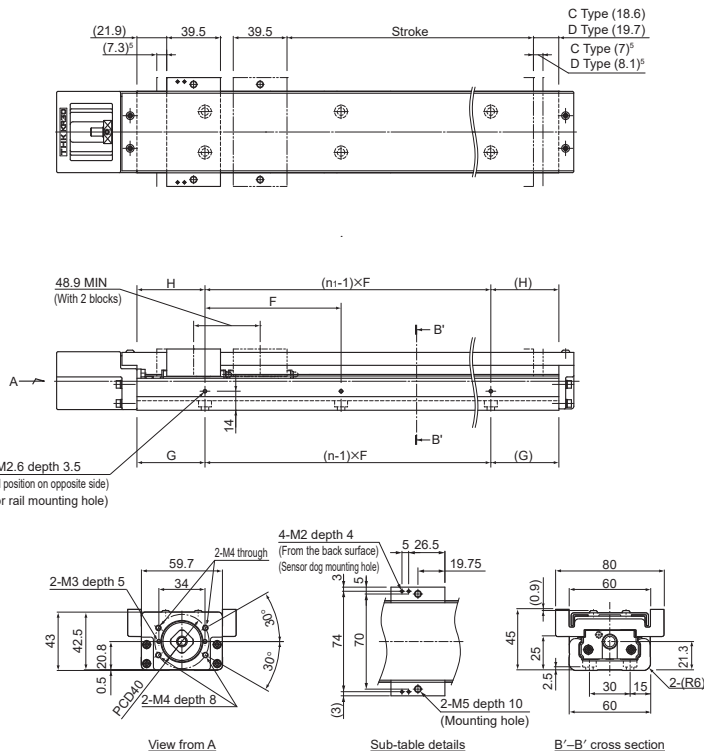
Static Permissible Moment (LM Guide)

Unit: N·m

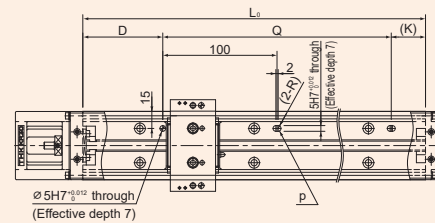
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
KR30H	C	44	44	214
	D	319	319	427



Covered Type



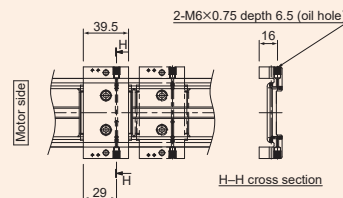
Customization: Dowel Pin Holes



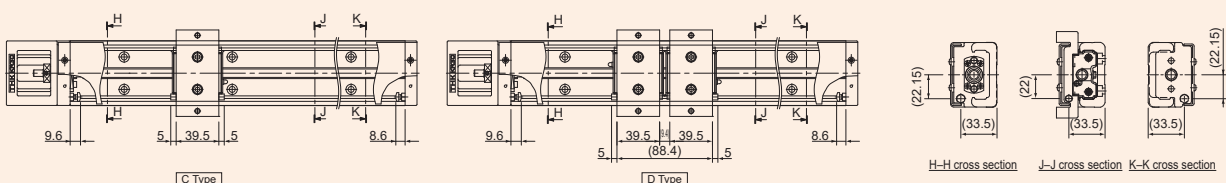
Outer rail dowel pin holes

Sub-table upper surface 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	0.15 G	25	—
			0.3 G	25	16.5
			0.5 G	—	13
		Vertical	0.15 G	4.5	—
			0.3 G	4.5	3.5
			0.5 G	—	3.5
Rated thrust ³ (N)			299	179	
Maximum thrust ⁴ (N)			895	537	
Outer diameter of ball screw shaft end (mm)			ø6h7		
Permissible input torque (N·m)			0.98		

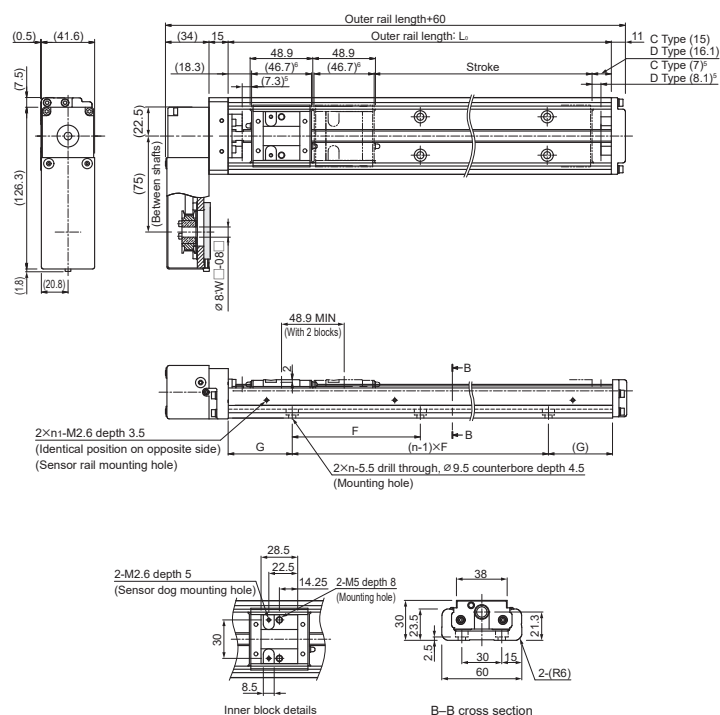
Load Rating

Item		KR30H06	KR30H10
LM Guide	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	Ball screw lead (mm)	6	10
	Basic dynamic load rating Ca (N)	2840	1760
	Basic static load rating C _{0a} (N)	4900	2840
	Screw shaft diameter (mm)	ø10	
	Basic dynamic load rating Ca (N)	1790	
	Static permissible load P _{0a} (N)	2590	
Bearing unit (fixed side)	Axial direction		

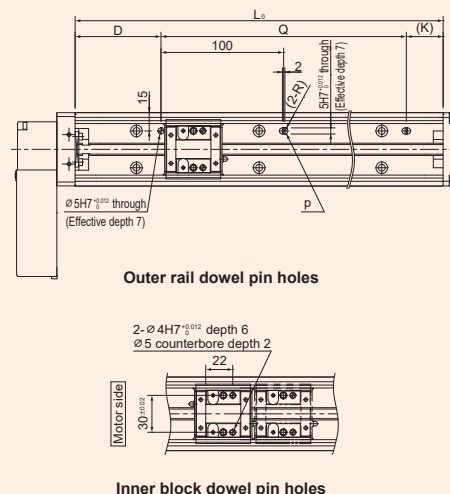
Motor Used and Wrapping Symbol

Motor type		Rated output	Flange size	Wrapping symbol
AC servo motor	Yaskawa Electric Corporation	Σ-V	50 W	Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
		Σ-7	50 W	Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
		Σ-X	50 W	Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
				Q08K, Q08M
	Mitsubishi Electric Corporation	J4	50 W	Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M
		J5	50 W	Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M
		JN	50 W	Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M
				Q08D, Q08M
	Tamagawa Seiki Co., Ltd.	TBL-iII	50 W	Q08D, Q08M
				Q08D, Q08M
		TBL-iIV	50 W	Q08D, Q08M
				Q08D, Q08M

Uncovered Type



Customization: Dowel Pin Holes



Dimensional 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
	C Type		1.7	2	2.6	3.2	3.7	4.3
Mass (kg)	Uncovered	D Type	1.9	2.2	2.8	3.4	3.9	4.5
		C Type	1.9	2.2	2.8	3.4	4.1	4.7
Mass (kg)	Covered	D Type	2.2	2.5	3.1	3.7	4.4	5
		C Type	2.2	2.5	3.1	3.7	4.4	5

¹ Rated speed refers to the speed at the rated rotational speed of the motor (3,000 min⁻¹).

² The maximum load capacity for 1 block (C Type) at the rated speed.

³ Rated thrust values are restricted by the rated torque of the motor (0.318 N·m) or permissible input torque.

⁴ Maximum thrust values are restricted by the maximum instantaneous torque of the motor (0.95 N·m) or permissible input torque.

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 (D Type) in close contact with each other.

⁷ This indicates the value when 2 blocks (D Type) 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, values within parentheses are the maximum speed when the motor rotational speed is 6,000 min⁻¹. When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

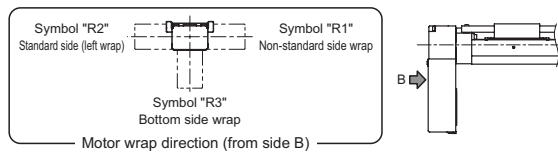
Wrapping specification details (dimensions of motor mounting plate) ⇒ p. 72

AC servo motor	Motor type		Rated output	Flange size	Wrapping symbol
Panasonic Corporation	MINAS	A5	MSMD5A	50 W	P08K, P08D, P08M
			MSME5A		P08K, P08D, P08M
		A6	MSMD01	100 W	P08K, P08D, P08M
			MSME01		P08K, P08D, P08M
		A5	MSMF5A	50 W	P08K, P08M
			MHMF5A		Q08K, Q08M
		A6	MSMF01	100 W	P08K, P08M
			MHMF01		Q08K, Q08M
KEYENCE CORPORATION	SV	SV2	SV-M005	50 W	Q08K, Q08M
			SV-M010	100 W	Q08K, Q08M
			SV2-M005	50 W	Q08K, Q08M
			SV2-M010	100 W	Q08K, Q08M
SANYO DENKI CO., LTD.	SANMOTION R		R2□A04005	50 W	Q08M
			R2EA04008	80 W	Q08M
			R2□A04010	100 W	Q08M
OMRON Corporation	OMNUC G5	1S	R88M-K05030	50 W	Q08K, Q08M
			R88M-K10030	100 W	Q08K, Q08M
			R88M-1M10030	100 W	Q08K, Q08M

Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.

Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

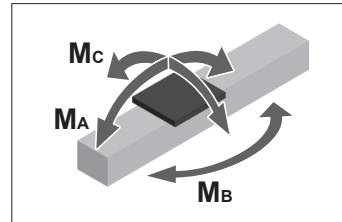
Wrapping Direction



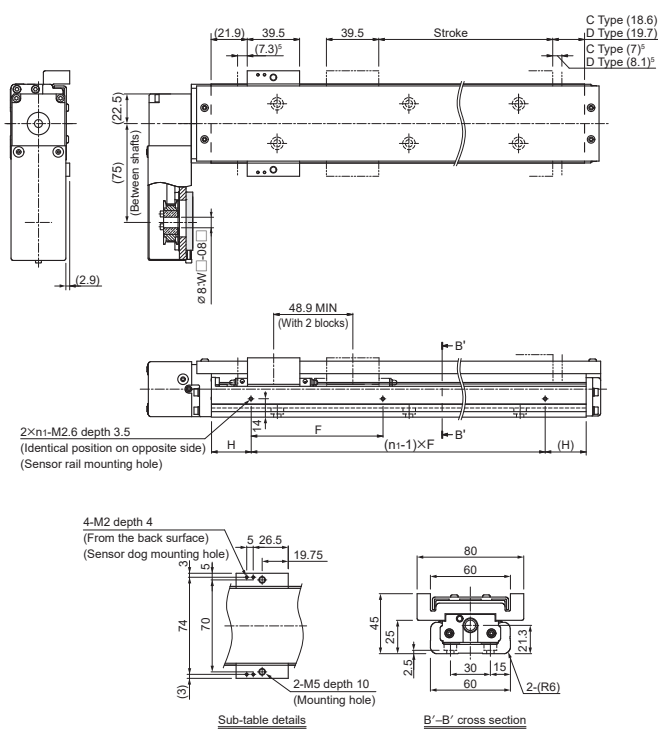
Static Permissible Moment (LM Guide)

Unit: N·m

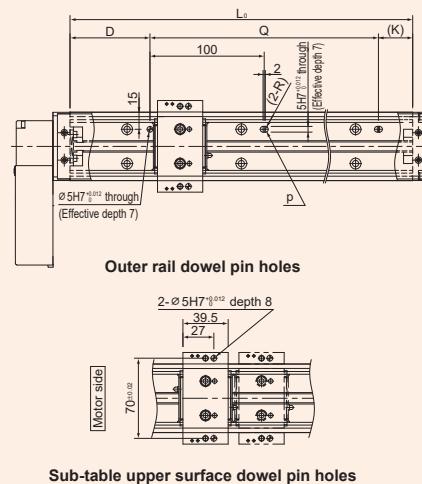
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
KR30H	C	44	44	214
	D	319	319	427



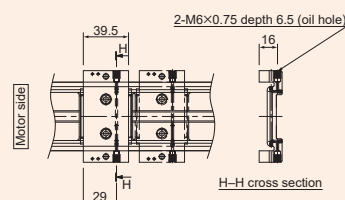
Covered Type



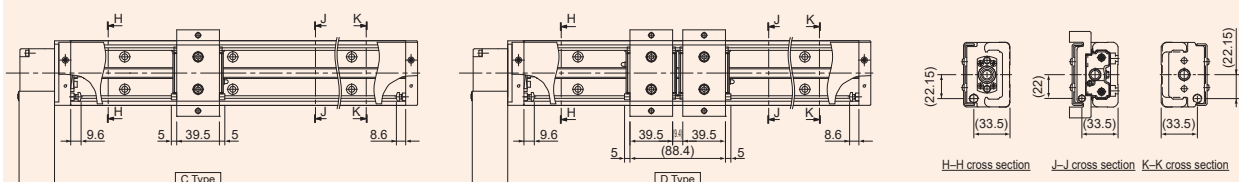
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



KR30H C/D Direct Motor Coupling

Model Number Coding

Basic Configuration							Semi-Custom Series					
Model No.	Ball screw lead	Block type	Stroke		Direct coupling/ Motor wrap	Cover ¹	Housing A/ Intermediate flange	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)
			C Type	D Type			Direct coupling					
KR30H	06: 6 mm 10: 10 mm	C: 1 block (short block) D: 2 blocks (short block)	0070: 70 mm 0120: 120 mm 0220: 220 mm 0320: 320 mm 0420: 420 mm 0520: 520 mm	0020: 20 mm 0070: 70 mm 0170: 170 mm 0270: 270 mm 0370: 370 mm 0470: 470 mm	D: 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)

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

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.

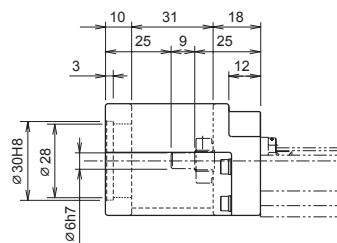
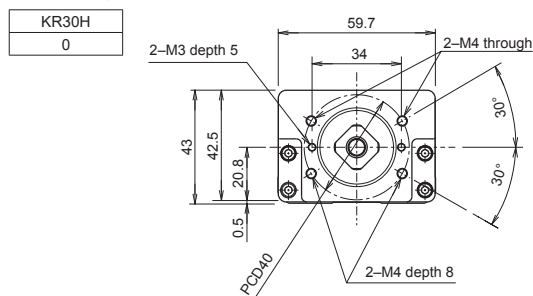
⁴ Sub-table greasing holes are only available on covered products.

⁶ 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.)

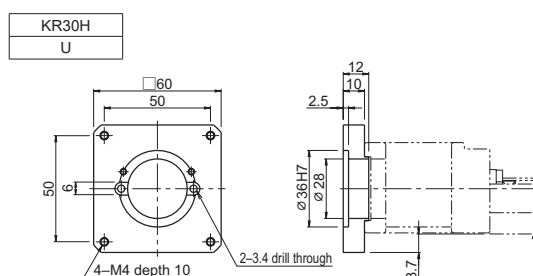
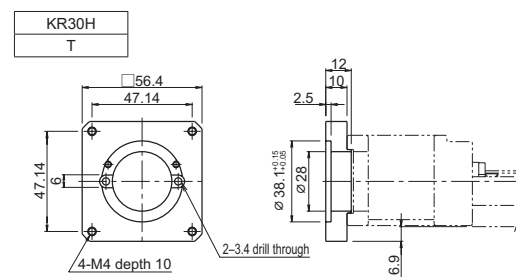
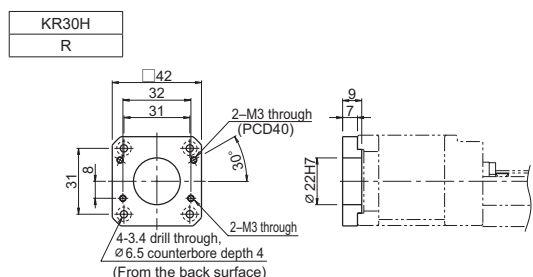
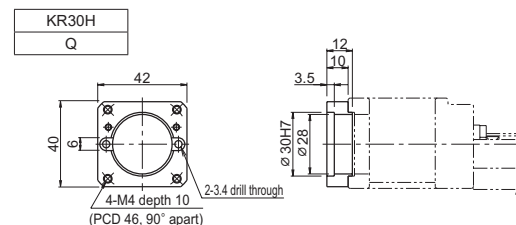
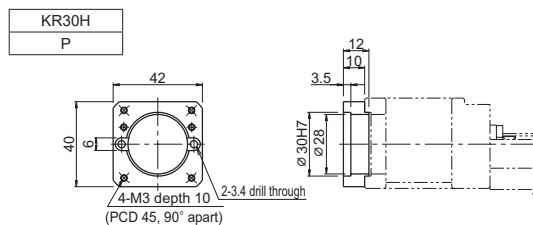
⁶ When low dust-generating grease is specified, AFF Grease will be applied.

KR30H C/D Direct Coupling Dimensional Diagram for Motor Mounting

Housing A



Intermediate Flange



KR30H C/D Motor Wrapping

Model Number Coding

Wrapping direction details → [p. 70](#)

Basic Configuration								Semi-Custom Series					
Model No.	Ball screw lead	Block type	Stroke		Direct coupling/ Motor wrap	Cover ¹	Motor mounting plate	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)	
KR30H	06: 6 mm 10: 10 mm	C: 1 block (short block) D: 2 blocks (short block)	C Type		R1: Non-standard side wrap R2: Standard side wrap R3: Bottom surface wrap	0: Without 1: With	Motor wrap 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)	
			D Type										
			0070: 70 mm	0020: 20 mm									
			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 this symbol.

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.)

⁶ When low dust-generating grease is specified, AFF Grease will be applied.

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

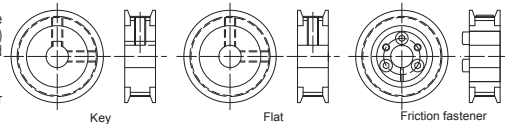


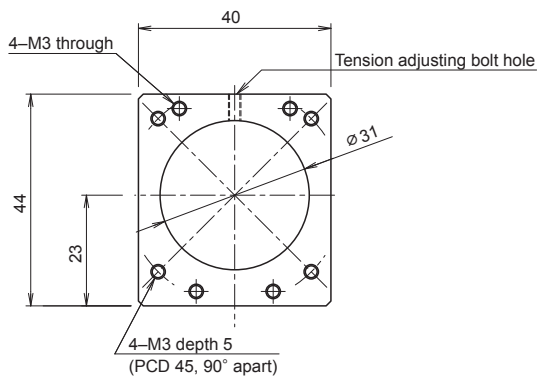
Figure: Motor shaft securing method

KR30H C/D Motor Wrapping Dimensional Diagram for Motor Mounting

Wrapping Specifications (Motor Mounting Plate)

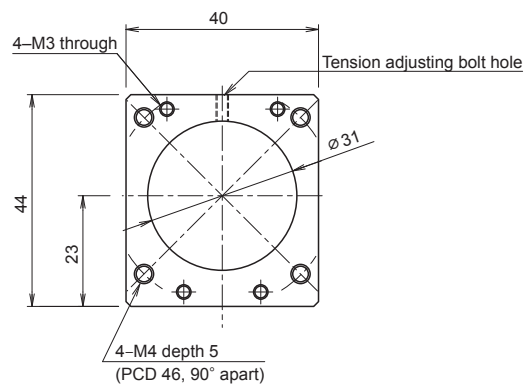
KR30H
P08K/P08D/P08M

Thickness: 5 mm



KR30H
Q08K/Q08D/Q08M

Thickness: 5 mm



Motor type					Rated output	Flange size	Intermediate flange symbol
AC servo motor	Panasonic Corporation	MINAS	A5	MSMD5A	50 W	38×38	P
				MSME5A			P
				MSMD01	100 W		P
				MSME01		P	
				MSMD02	200 W	Y	
				MSME02		Y	
			MSMD04	400 W	Y		
			MSME04		Y		
		A6	M5MF5A	50 W	38×38	P	
			MHMF5A		40×40	Q	
			M5MF01	100 W	38×38	P	
			MHMF01		40×40	Q	
			M5MF02	200 W	Y		
			MHMF02		Y		
			M5MF04	400 W	Y		
			MHMF04		Y		
	KEYENCE CORPORATION	SV	SV-M005	50 W	40×40	Q	
			SV-M010	100 W		Q	
			SV-M020	200 W	60×60	0	
			SV-M040	400 W	0		
		SV2	SV2-M005	50 W	40×40	Q	
			SV2-M010	100 W		Q	
			SV2-M020	200 W	60×60	0	
			SV2-M040	400 W	0		
	SANYO DENKI CO., LTD.	SANMOTION R	R2□A04003	30 W	40×40	Q	
			R2□A04005	50 W		Q	
R2EA04008			80 W	Q			
R2□A04010			100 W	60×60	Q		
R2□A06020			200 W		0		
R2AA06040			400 W		0		
OMRON Corporation	OMNUC G5	R88M-K05030	50 W	40×40	Q		
		R88M-K10030	100 W		Q		
		R88M-K20030	200 W	60×60	Y		
		R88M-K40030	400 W		Y		
	1S	R88M-1M10030	100 W	40×40	Q		
		R88M-1M20030	200 W	60×60	Y		
FANUC CORPORATION	βis series	βis 0.2/5000	50 W	40×40	Q		
		βis0.3/5000	100 W		Q		

		Motor type		Flange size	Intermediate flange symbol	
Stepper motor	Oriental Motor	αStep	AZ6*, AR6*	60×60	U	
		5-phase	CRK	60×60	U	
			RK II	60×60	U	
			PKP	60×60	U	
	SANYO DENKI CO., LTD.	PB	PBDM60*, PBA**60*	60×60	U	
		5-phase	FAM56*/FDM56*/FA512M60/FB512M60	60×60	U	
			2-phase	DB16H78*	60×60	U
			2-phase	QS-M60	60×60	U
KEYENCE CORPORATION						

Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.

Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

Recommended Coupling

Manufacturer	MIKI PULLEY CO., LTD.	Nabeya Bi-tech Kaisha (NBK)
Model No.	SFC-030DA2/SFC-035DA2 ø 10 to ø 14 (200 W, 400 W)	XGT2-27C / XGT2-30C / XGT2-34C ø 10 to ø 14 (200 W, 400 W)

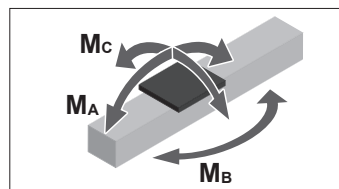
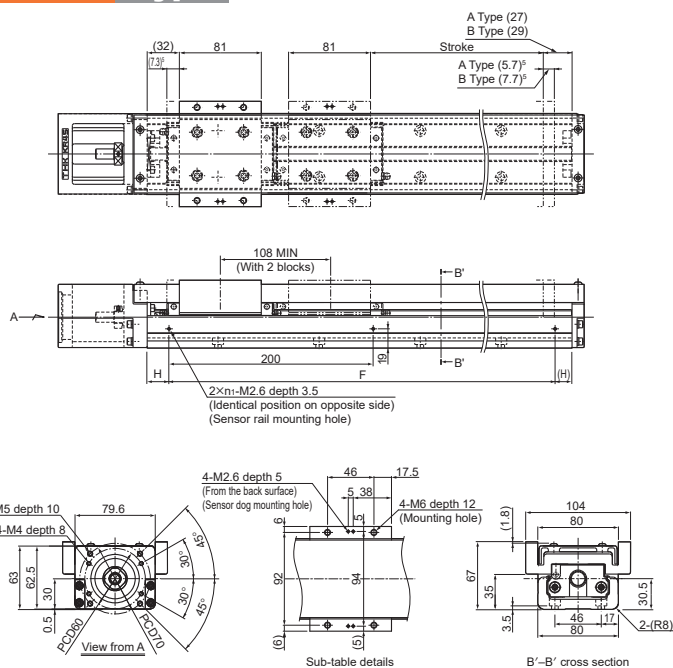
Note 3: The table shows only a portion of the model numbers for couplings. For details regarding model numbers, please see the catalog for each respective coupling manufacturer.

Note 4: The recommended couplings are for when a servo motor is used. When using a stepper motor, please confirm using the Optimal Product Selection Tool.

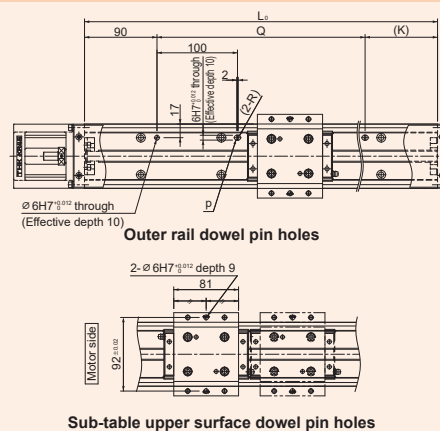
Static Permissible Moment (LM Guide)

Unit: N·m

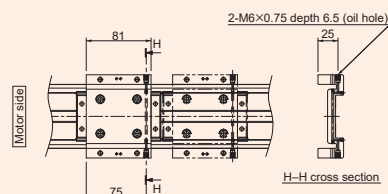
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
KR45H	A	486	486	925
	B	2732	2732	1850

[illegible]

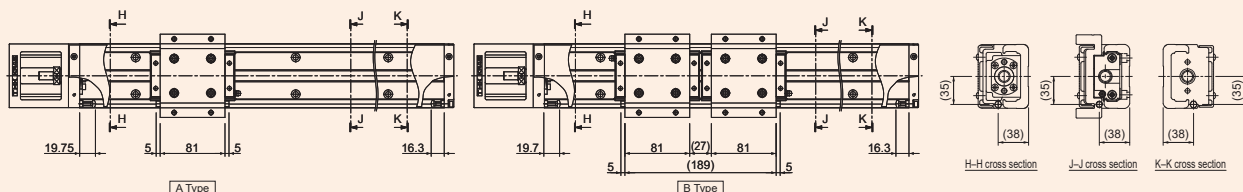
Customization: Dowel Pin Holes



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	0.3 G	65	—	65	—
			0.5 G	65	31	65	59.5
		Vertical	0.3 G	18	—	18.5	—
			0.5 G	18	8	18	18
Rated thrust ³ (N)				361	180	718	359
Maximum thrust ⁴ (N)				1080	540	2160	1080
Outer diameter of ball screw shaft end (mm)				ø10h7			
Permissible input torque (N·m)				4.5			

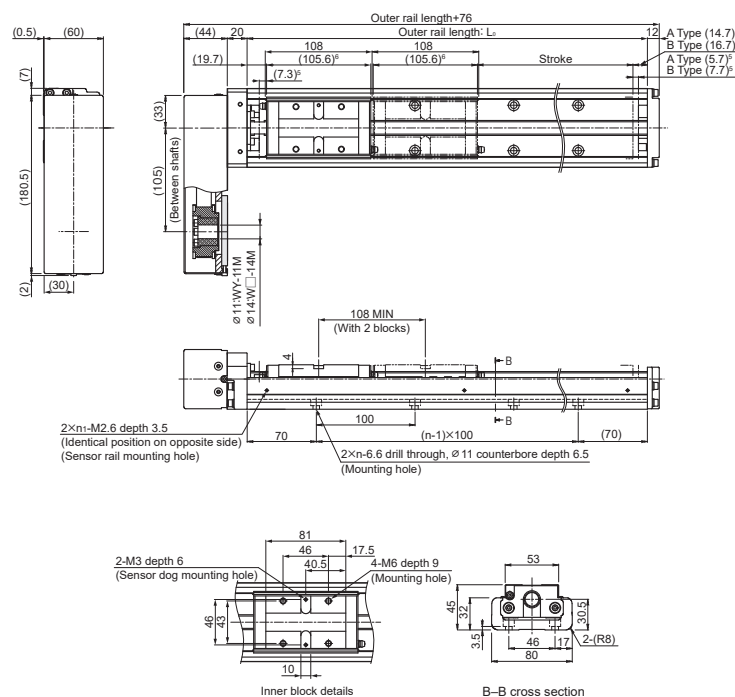
Load Rating

Item		KR45H10	KR45H20
LM Guide	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	Ball screw lead (mm)	10	20
	Basic dynamic load rating C _a (N)	3140	3040
	Basic static load rating C _{0a} (N)	6760	7150
	Screw shaft diameter (mm)	ø 15	
Bearing unit (fixed side)	Axial direction	Basic dynamic load rating C _a (N)	6660
		Static permissible load P _{0a} (N)	3240

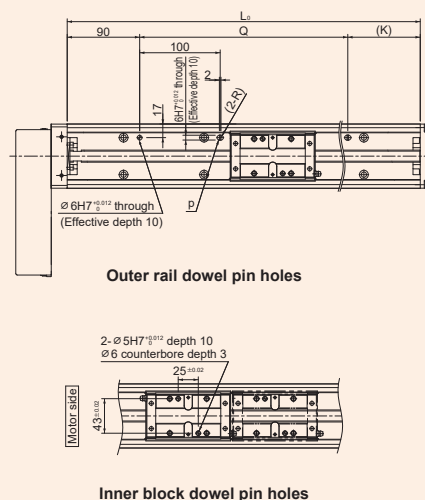
Motor Used and Wrapping Symbol

Motor type		Rated output	Flange size	Wrapping symbol
AC servo motor	Yaskawa Electric Corporation	Σ-V	60×60	SGMJV-02
				SGMAV-02
				SGMJV-04
		Σ-7	60×60	SGMAV-04
				SGMJV-06
				SGM7J-02
	Mitsubishi Electric Corporation	Σ-X	60×60	SGM7A-02
				SGM7J-04
				SGM7A-04
				SGM7J-06
				SGMXJ-02
				SGMXA-02
	MELSERVO	J4	60×60	SGMXJ-04
				SGMXA-04
				SGMXJ-06
		J5	60×60	SGMXA-06
				HG-MR23
				HG-MR43
Tamagawa Seiki Co., Ltd.	TBL-II	TBL-IV	60×60	HK-KT23W
				HK-KT43W
				HF-KN23
	TBL-III	TBL-IV	60×60	HF-KN43
				TS4607
				TS4609
	TBL-IV	TBL-IV	60×60	TSM3202
				TSM3204

Uncovered Type



Customization: Dowel Pin Holes



Dimensional 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 ⁶		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	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	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 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 is the lowest value from the conditions below.

·200 W: 0.64 N·m or permissible input torque/400 W: 1.27 N·m or permissible input torque

⁴ The maximum thrust is the lowest value from the conditions below.

·200 W: 1.91 N·m or permissible input torque/400 W: 3.82 N·m or permissible input torque

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 (B Type) in close contact with each other.

⁷ This indicates the value when 2 blocks (B Type) 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, values within parentheses are the maximum speed when the motor rotational speed is 6,000 min⁻¹. When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

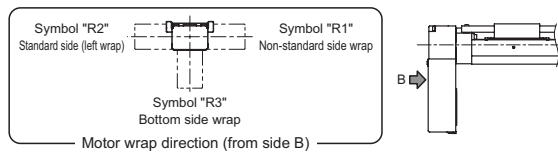
Wrapping specification details (dimensions of motor mounting plate) ⇒ p. 78

Motor type					Rated output	Flange size	Wrapping symbol
AC servo motor	Panasonic Corporation	MINAS	A5	MSMD02	200 W	60×60	Y11M
				MSME02			Y11M
			MSMD04	400 W	Y14M		
			MSME04		Y14M		
		A6	MSMF02	200 W	60×60	Y11M	
			MHMF02			Y11M	
			MSMF04			Y14M	
			MHMF04	400 W		Y14M	
	KEYENCE CORPORATION	SV	SV-M020	200 W	60×60	V14M	
			SV-M040	400 W		V14M	
		SV2	SV2-M020	200 W		V14M	
			SV2-M040	400 W		V14M	
	SANYO DENKI CO., LTD.	SANMOTION R	R2□A06020	200 W	60×60	V14M	
			R2AA06040	400 W		V14M	
	OMRON Corporation	OMNUG G5	R88M-K20030	200 W	60×60	Y11M	
			R88M-K40030	400 W		Y14M	
R88M-1M20030			200 W	Y11M			
1S		R88M-1M40030	400 W	Y14M			

Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.

Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

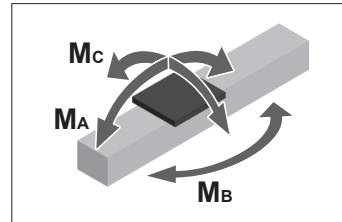
Wrapping Direction



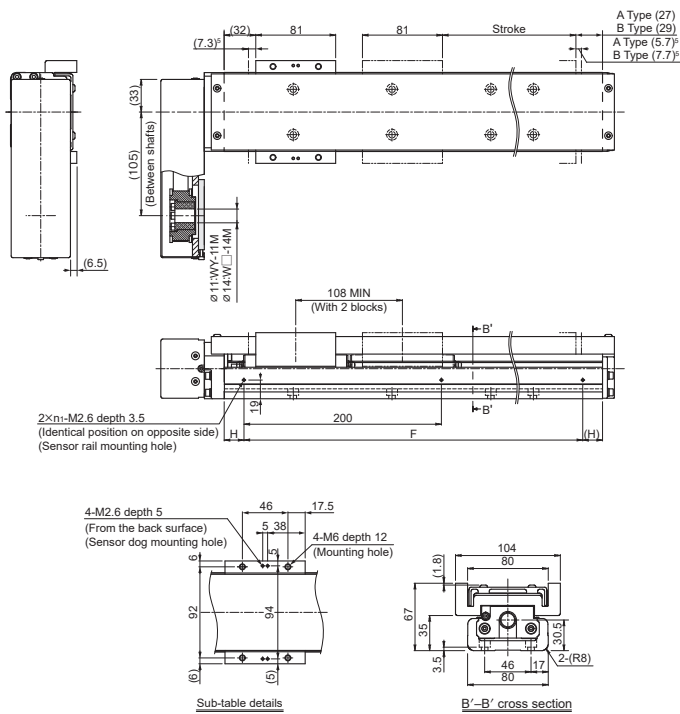
Static Permissible Moment (LM Guide)

Unit: N·m

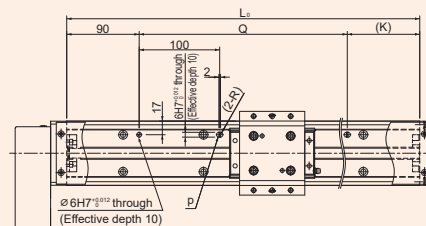
Model No.	Block type	Static permissible moment		
		M_A	M_B	M_C
KR45H	A	486	486	925
	B	2732	2732	1850



Covered Type



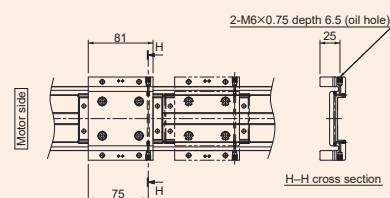
Customization: Dowel Pin Holes



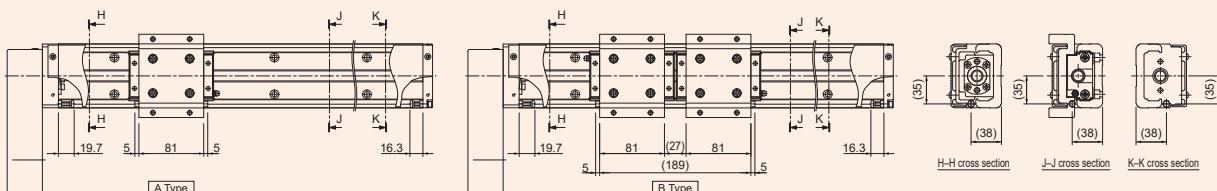
Outer rail dowel pin holes

Sub-table upper surface dowel pin holes

Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



KR45H A/B Direct Motor Coupling

Model Number Coding

Basic Configuration							Semi-Custom Series					
Model No.	Ball screw lead	Block type	Stroke		Direct coupling/ Wrapping	Cover ¹	Housing A/ Intermediate flange	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)
KR45H	10: 10 mm	A: 1 block	A Type	B Type	0: Direct coupling	0: Without 1: With	Direct coupling 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)
	20: 20 mm	B: 2 blocks	0200: 200 mm	0090: 90 mm								
			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 this symbol.

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.)

⁶ When low dust-generating grease is specified, AFF Grease will be applied.

SKR20

SKR26

SKR33

SKR46

KR20

KR26

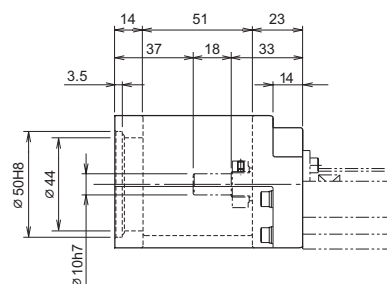
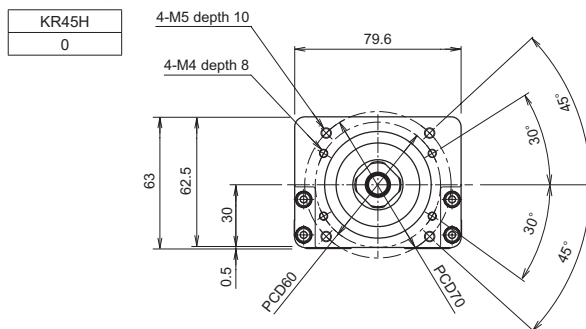
KR30H

KR45H

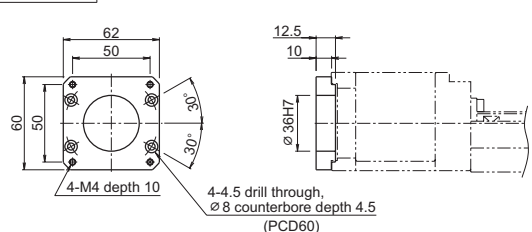
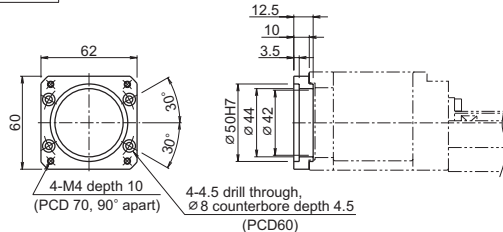
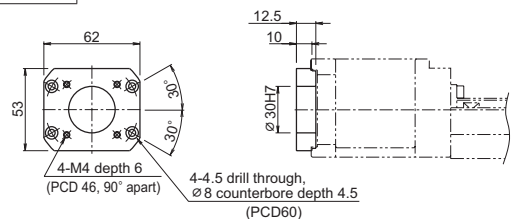
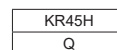
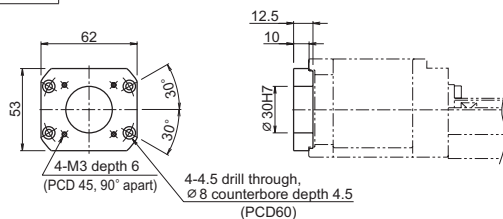
KR45H A/B Direct Coupling

Dimensional Diagram for Motor Mounting

Housing A



Intermediate Flange



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	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)		
KR45H	10: 10 mm 20: 20 mm	A: 1 block B: 2 blocks	A Type		R1: Non-standard side wrap R2: Standard side wrap R3: Bottom surface wrap	0: Without 1: With	V14M Y11M/Y14M (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)		
			0200: 200 mm	0090: 90 mm										
			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 this symbol.
- 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.)
- ⁶ When low dust-generating grease is specified, AFF Grease will be applied.

V 14 M

① ② ③

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

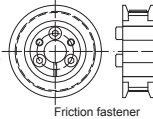


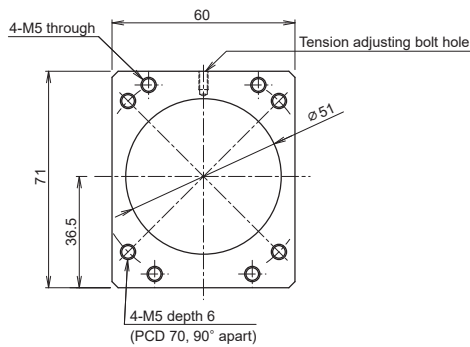
Figure: Motor shaft securing method

KR45H A/B Motor Wrapping Dimensional Diagram for Motor Mounting

Wrapping Specifications (Motor Mounting Plate)

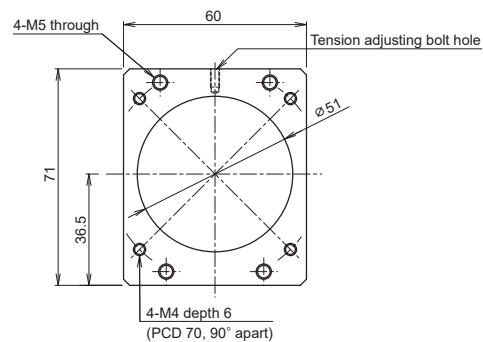
KR45H
V14M

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	0.3 G	47	—	47	—
			0.5 G	38.5	21.5	38.5	21.5
		Vertical	0.3 G	9.5	—	9.5	—
			0.5 G	9.5	5.5	9.5	7.5
Rated thrust ³ (N)				361	180	718	359
Maximum thrust ⁴ (N)				1080	540	2160	1080
Outer diameter of ball screw shaft end (mm)				ø 10h7			
Permissible input torque (N·m)				5.3			

Load Rating

Item		KR45H10	KR45H20
LM Guide	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	Ball screw lead (mm)	10	20
	Basic dynamic load rating Ca (N)	3140	3040
	Basic static load rating C _{0a} (N)	6760	7150
	Screw shaft diameter (mm)	ø 15	
	Basic dynamic load rating Ca (N)	6660	
Bearing unit (fixed side)	Axial direction	Static permissible load P _{0a} (N)	
		3240	

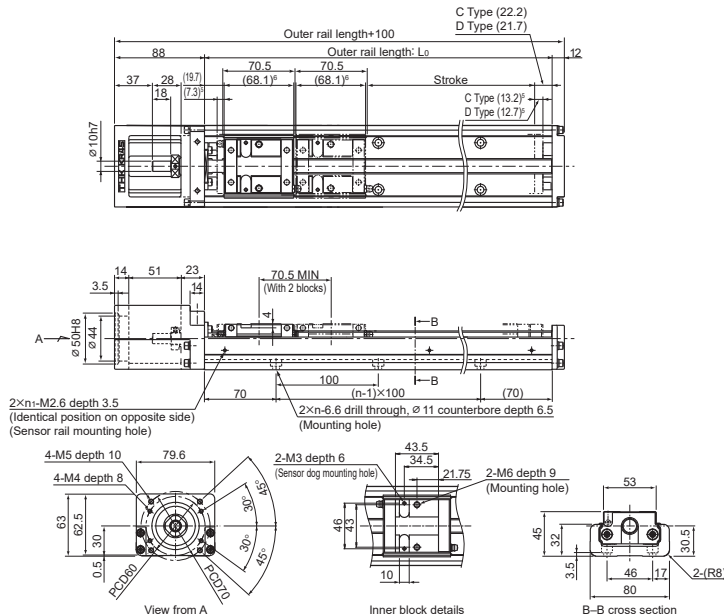
Motor Used and Applicable Intermediate Flanges

Intermediate flange dimensions ⇨ p. 83

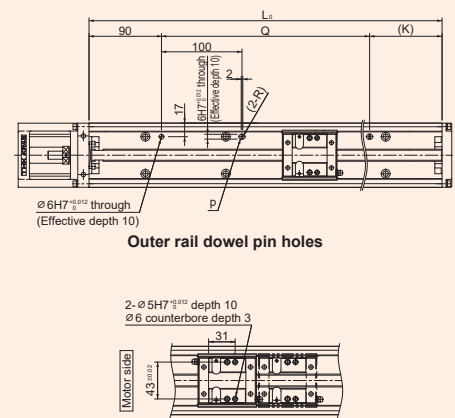
Motor type		Rated output	Flange size	Intermediate flange symbol
AC servo motor	Yaskawa Electric Corporation	50 W	40×40	Q
				Q
				Q
				Q
		100 W	40×40	Q
				Q
				Q
				Q
		150 W	40×40	Q
				Q
				Q
				Q
	Mitsubishi Electric Corporation	200 W	60×60	0
				0
				0
				0
		400 W	60×60	0
				0
				0
				0
	Tamagawa Seiki Co., Ltd.	50 W	40×40	Q
				Q
				Q
				Q
		100 W	40×40	Q
				Q
				Q
				Q
		200 W	60×60	0
				0
				0
				0

Motor type		Rated output	Flange size	Intermediate flange symbol
AC servo motor	Yaskawa Electric Corporation	50 W	40×40	Q
				Q
				Q
				Q
		100 W	40×40	Q
				Q
				Q
				Q
		150 W	60×60	0
				0
				0
				0
	Mitsubishi Electric Corporation	200 W	60×60	0
				0
				0
				0
		400 W	60×60	0
				0
				0
				0
	Tamagawa Seiki Co., Ltd.	50 W	40×40	Q
				Q
				Q
				Q
		100 W	40×40	Q
				Q
				Q
				Q
		200 W	60×60	0
				0
				0
				0

Uncovered Type



Customization: Dowel Pin Holes



Dimensional 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
		20 mm	1000 (1050)						980
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 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 is the lowest value from the conditions below.

⁴ 200 W: 0.64 N·m or permissible input torque/400 W: 1.27 N·m or permissible input torque

⁵ The maximum thrust is the lowest value from the conditions below.

⁶ 200 W: 1.91 N·m or permissible input torque/400 W: 3.82 N·m or permissible input torque

⁷ This is the distance between the mechanical stopper and the stroke starting position.

⁸ This indicates the block length when calculating the possible stroke range. It is 138.6 mm for a KR45H with 2 blocks (D Type) in close contact with each other.

⁹ This indicates the value when 2 blocks (D Type) are in close contact with each other.

¹⁰ 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, values within parentheses are the maximum speed when the motor rotational speed is 6,000 min⁻¹. When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

Motor type				Rated output	Flange size	Intermediate flange symbol			
AC servo motor	Panasonic Corporation	MINAS	A5	MSMD5A	50 W	38×38	P		
				MSME5A			P		
				MSMD01	100 W		P		
				MSME01			P		
				MSMD02	200 W		Y		
				MSME02			Y		
			A6	MSMD04	400 W	Y			
				MSME04		Y			
				MSMF5A	50 W	38×38	P		
				MHMF5A		40×40	Q		
				MSMF01	100 W	38×38	P		
				MHMF01		40×40	Q		
		KEYENCE CORPORATION	SV		SV-M005	50 W	40×40	Q	
					SV-M010	100 W		Q	
					SV-M020	200 W		0	
					SV-M040	400 W	60×60	0	
			SV2		SV2-M005	50 W	40×40	Q	
					SV2-M010	100 W		Q	
				SV2-M020	200 W		0		
				SV2-M040	400 W	60×60	0		
	SANYO DENKI CO., LTD.			SANMOTION R		R2□A04003	30 W		Q
						R2□A04005	50 W		Q
			R2EA04008		80 W	40×40	Q		
			R2□A04010		100 W		Q		
			R2□A06020		200 W	60×60	0		
			R2AA06040		400 W		0		
		OMRON Corporation	OMNUC G5			R88M-K05030	50 W	40×40	Q
						R88M-K10030	100 W		Q
				R88M-K20030	200 W	60×60	Y		
				R88M-K40030	400 W		Y		
	1S			R88M-1M10030	100 W	40×40	Q		
				R88M-1M20030	200 W		Y		
				R88M-1M40030	400 W	60×60	Y		
			FANUC CORPORATION	β is series		β is 0.2/5000	50 W	40×40	Q
		β is 0.3/5000			100 W		Q		

Motor type				Flange size	Intermediate flange symbol
Stepper motor	Oriental Motor	αStep	AZ6*, AR6*	60×60	U
		5-phase	CRK	60×60	U
			RK II	60×60	U
			PKP	60×60	U
			PB	60×60	U
	SANYO DENKI CO., LTD.	5-phase	PBDM60*, PBA**60*	60×60	U
			FAM56*/FDM56*/FA512M60/FB512M60	60×60	U
		2-phase	DB16H78*	60×60	U
			QS-M60	60×60	U
	KEYENCE CORPORATION				

Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.

Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

Recommended Coupling

Manufacturer	MIKI PULLEY CO., LTD.	Nabeya Bi-tech Kaisha (NBK)
Model No.	SFC-030DA2/SFC-035DA2 ø 10 to ø 14 (200 W, 400 W)	XGT2-27C / XGT2-30C / XGT2-34C ø 10 to ø 14 (200 W, 400 W)

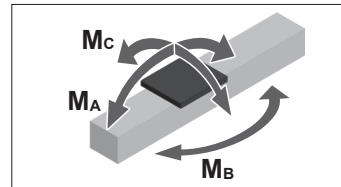
Note 3: The table shows only a portion of the model numbers for couplings. For details regarding model numbers, please see the catalog for each respective coupling manufacturer.

Note 4: The recommended couplings are for when a servo motor is used. When using a stepper motor, please confirm using the Optimal Product Selection Tool.

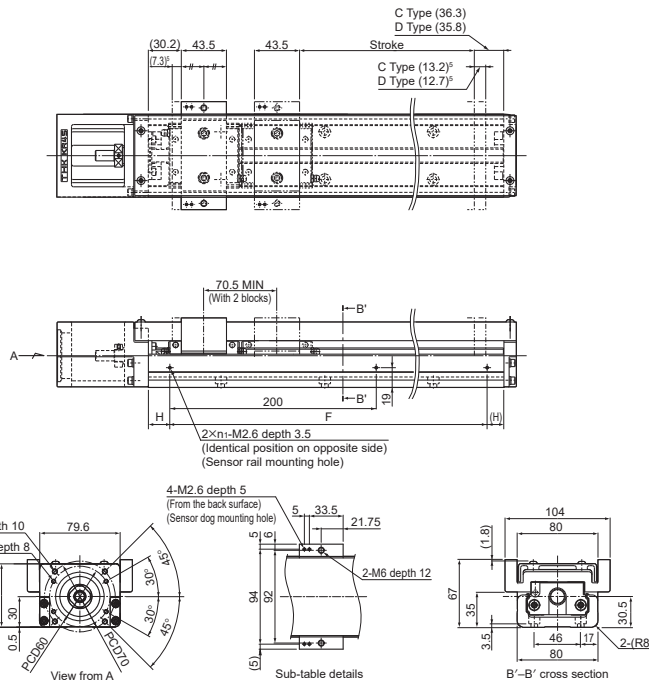
Static Permissible Moment (LM Guide)

Unit: N·m

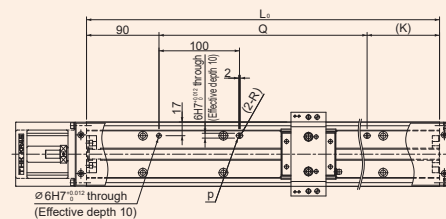
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
KR45H	C	130	130	463
	D	994	994	925



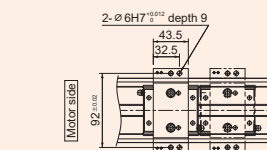
Covered Type



Customization: Dowel Pin Holes

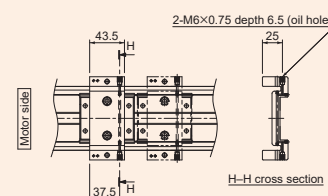


Outer rail dowel pin holes

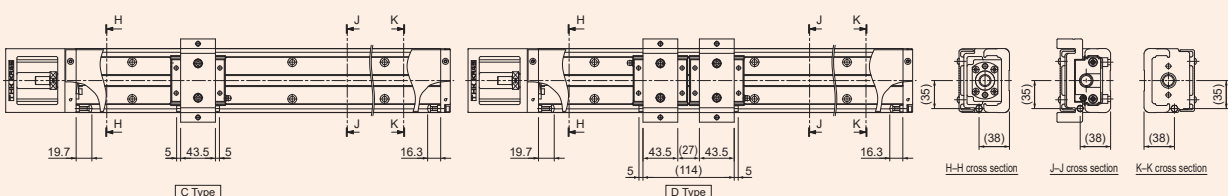


Sub-table upper surface dowel pin holes

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	0.3 G	47	—	47	—
			0.5 G	38.5	21.5	38.5	21.5
		Vertical	0.3 G	9.5	—	9.5	—
			0.5 G	9.5	5.5	9.5	7.5
			Rated thrust ³ (N)			361	180
Maximum thrust ⁴ (N)			1080	540	2160	1080	
Outer diameter of ball screw shaft end (mm)				ø10h7			
Permissible input torque (N·m)				4.5			

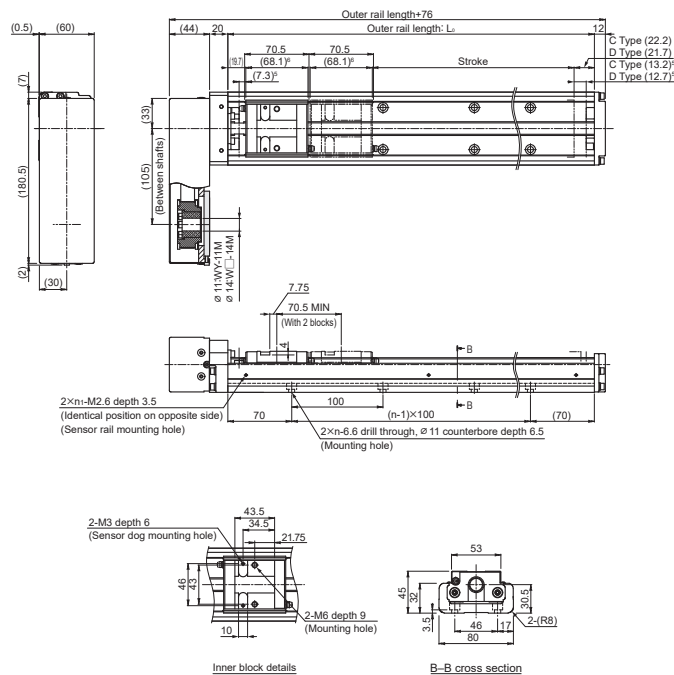
Load Rating

Item		KR45H10	KR45H20
LM Guide	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 lead (mm)	10	20
Ball screw unit	Basic dynamic load rating C _a (N)	3140	3040
	Basic static load rating C _{0a} (N)	6760	7150
	Screw shaft diameter (mm)	ø 15	
	Basic dynamic load rating C _a (N)	6660	
	Static permissible load P _{0a} (N)	3240	
Bearing unit (fixed side)	Axial direction		

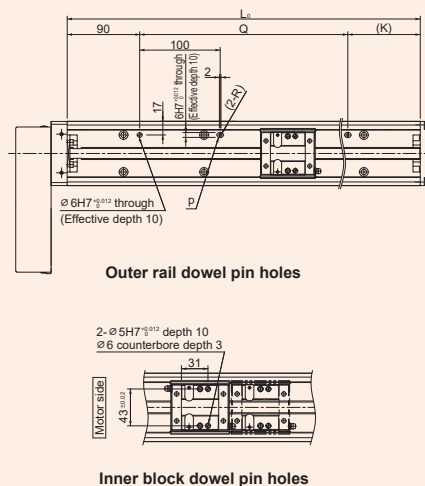
Motor Used and Wrapping Symbol

Motor type		Rated output	Flange size	Wrapping symbol
AC servo motor	Yaskawa Electric Corporation	Σ-V	60×60	SGMJV-02
				SGMAV-02
				SGMJV-04
		Σ-7	60×60	SGMAV-04
				SGMJV-06
				SGM7J-02
	Mitsubishi Electric Corporation	Σ-X	60×60	SGM7A-02
				SGM7J-04
				SGM7A-04
				SGM7J-06
				SGMXJ-02
				SGMXA-02
	MELSERVO	J4	60×60	SGMXJ-04
				SGMXA-04
				SGMXJ-06
		J5	60×60	SGMXA-06
				HG-MR23
				HG-MR43
Tamagawa Seiki Co., Ltd.	TBL-II	TSM3202	60×60	HF-KR43
				HK-KT23W
				HK-KT43W
	TBL-IV	TSM3204	60×60	HF-KN23
				HF-KN43
				TS4607

Uncovered Type



Customization: Dowel Pin Holes



Dimensional 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 ⁵ (mm/s)	Ball screw lead	10 mm	500 (520)						490
		20 mm	1000 (1050)						980
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 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 is the lowest value from the conditions below.

·200 W: 0.64 N·m or permissible input torque/400 W: 1.27 N·m or permissible input torque

⁴ The maximum thrust is the lowest value from the conditions below.

·200 W: 1.91 N·m or permissible input torque/400 W: 3.82 N·m or permissible input torque

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 (D Type) in close contact with each other.

⁷ This indicates the value when 2 blocks (D Type) 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, values within parentheses are the maximum speed when the motor rotational speed is 6,000 min⁻¹. When used at speeds higher than the rated speed, be aware that the maximum load capacity will differ.

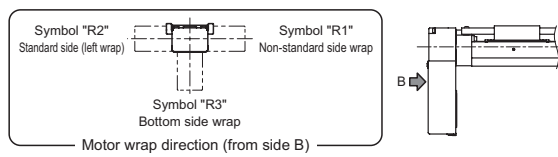
Wrapping specification details (dimensions of motor mounting plate) ⇒ p. 84

Motor type					Rated output	Flange size	Wrapping symbol
AC servo motor	Panasonic Corporation	MINAS	A5	MSMD02	200 W	60×60	Y11M
				MSME02	400 W		Y14M
				MSMD04			Y14M
			A6	MSME04	200 W	Y11M	
				MSMF02		Y11M	
				MHMF02		400 W	Y14M
		MHMF04	Y14M				
		KEYENCE CORPORATION	SV	SV-M020	200 W	60×60	V14M
	SV-M040			400 W	V14M		
	SV2		SV2-M020	200 W	V14M		
			SV2-M040	400 W	V14M		
	SANYO DENKI CO., LTD.	SANMOTION R	R2□A06020	200 W	60×60	V14M	
			R2AA06040	400 W		V14M	
	OMRON Corporation	OMNUG G5	R88M-K20030	200 W	60×60	Y11M	
			R88M-K40030	400 W		Y14M	
		1S	R88M-1M20030	200 W		Y11M	
R88M-1M40030			400 W	Y14M			

Note 1: The table shows only a portion of the model numbers for motors. For details regarding model numbers, please see the catalog for each respective motor manufacturer. You may not be able to mount the motor depending on the options, so please confirm beforehand.

Note 2: If the maximum torque of the installed motor will exceed the permissible input torque, please consider a safety measure to limit the torque.

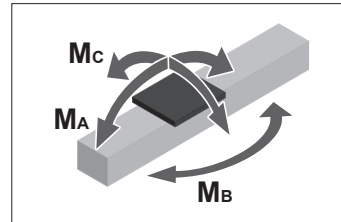
Wrapping Direction



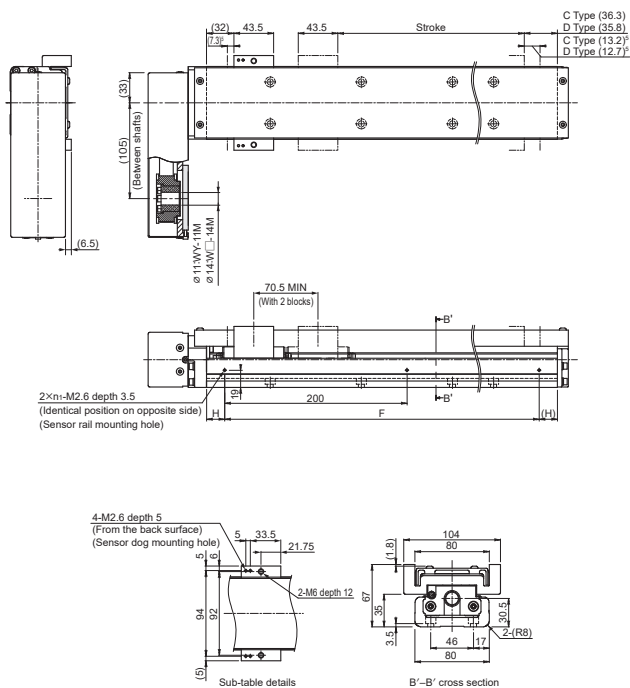
Static Permissible Moment (LM Guide)

Unit: N·m

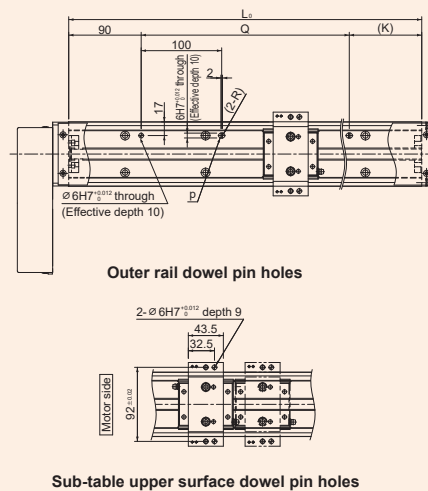
Model No.	Block type	Static permissible moment		
		M _A	M _B	M _C
KR45H	C	130	130	463
	D	994	994	925



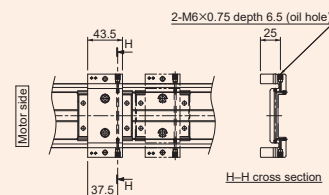
Covered Type



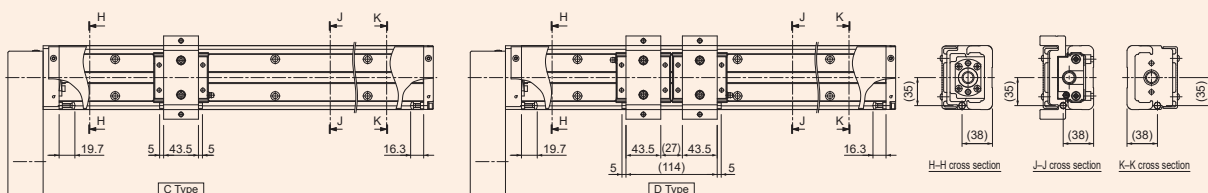
Customization: Dowel Pin Holes



Customization: Sub-Table Side Greasing Holes



Customization: Metal Positioning Bolts



KR45H C/D Direct Motor Coupling

Model Number Coding

Basic Configuration							Semi-Custom Series					
Model No.	Ball screw lead	Block type	Stroke		Direct coupling/ Motor wrap	Cover ¹	Housing A/ Intermediate flange	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)
KR45H	10: 10 mm 20: 20 mm	C: 1 block (short block) D: 2 blocks (short block)	C Type		0: Direct coupling	0: Without 1: With	Direct coupling 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)
			0230: 230 mm	0160: 160 mm								
			0330: 330 mm	0260: 260 mm								
			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 this symbol.

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.

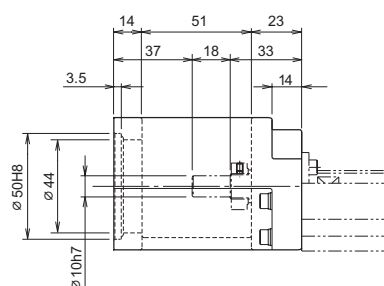
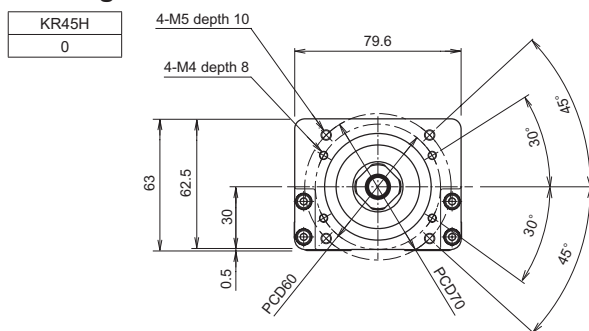
⁵ When surface treatment is selected, THK AP-C coating will be applied to the inner block and ball screw. (This treatment is already standard on the outer rail.)

⁶ When low dust-generating grease is specified, AFF Grease will be applied.

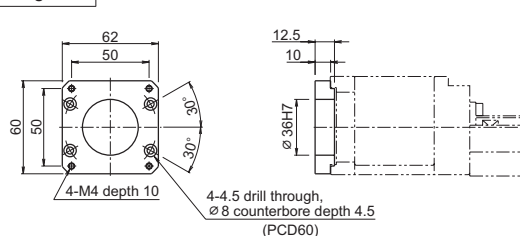
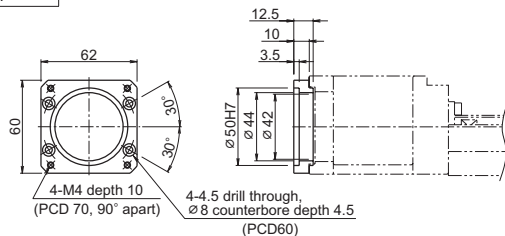
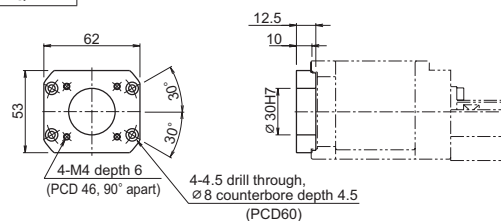
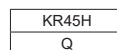
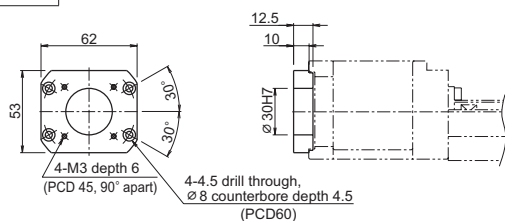
KR45H C/D Direct Coupling

Dimensional Diagram for Motor Mounting

Housing A



Intermediate Flange



KR45H C/D Motor Wrapping

Model Number Coding

Wrapping direction details → p. 82

Basic Configuration								Semi-Custom Series				
Model No.	Ball screw lead	Block type	Stroke		Direct coupling/ Motor wrap	Cover ¹	Motor mounting plate	Dowel pin holes ²	Metal bolts for positioning ³	Sub-table greasing holes ⁴	Surface treatment ⁵ (AP-C)	Low dust-generating grease ⁶ (AFF)
KR45H	10: 10 mm	C: 1 block (short block) D: 2 blocks (short block)	C Type		R1: Non-standard side wrap R2: Standard side wrap R3: Bottom surface wrap	0: Without 1: With	Motor wrap V14M Y11M/Y14M (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)
	20: 20 mm		D Type									
			0230: 230 mm	0160: 160 mm								
			0330: 330 mm	0260: 260 mm								
			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 this symbol.

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.)

⁶ When low dust-generating grease is specified, AFF Grease will be applied.

V 14 M

① ② ③

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

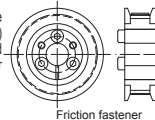


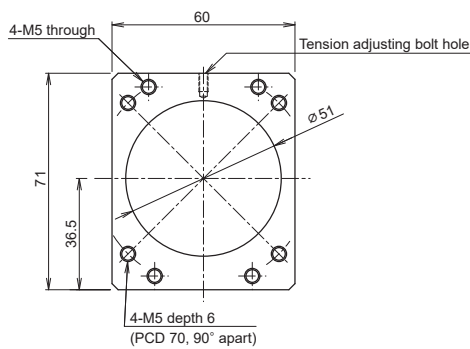
Figure: Motor shaft securing method

KR45H C/D Motor Wrapping Dimensional Diagram for Motor Mounting

Wrapping Specifications (Motor Mounting Plate)

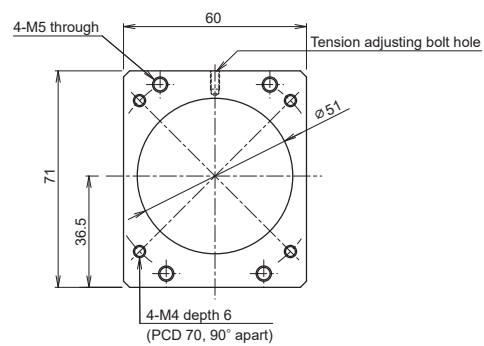
KR45H
V14M

Thickness: 6 mm



KR45H
Y11M/Y14M

Thickness: 6 mm



Handling Precautions LM Guide Actuator

Product Application

- (1) This product must not be used for devices or systems that are utilized under situations that may affect human life.
- (2) Be sure to contact THK in advance if you are considering using this product for special applications, such as with devices or systems relating to passenger vehicles, medicine, aerospace, nuclear power, or electric power.

Handling

- (1) Do not disassemble the parts. This will result in loss of functionality.
- (2) Take care not to drop or strike this product. Otherwise, it may cause injury or damage the unit. Even if there is no outward indication of damage, a sudden impact could prevent the unit from functioning properly.
- (3) Wear appropriate safety gear, such as protective gloves and safety shoes, when handling the product.
- (4) Tilting a table or outer rail may cause it to fall by its own weight.

Use

- (1) Carefully read the user manual, gain a sufficient understanding of its contents, and be sure to follow the safety precautions.
- (2) Prevent foreign materials, such as cutting chips or coolant, from entering the product. Failure to do so could damage the product.
- (3) Prevent foreign materials, such as cutting chips, coolant, corrosive solvents, or water from getting in the product by using a bellows or cover when the product is used in an environment where such a thing is likely.
- (4) If foreign materials such as cutting chips adhere to the product, replenish the lubricant after washing the product.
- (5) The operating temperature range for this product is between 0°C to 40°C (no freezing or condensation). Contact THK if you are considering using this product outside of the operating temperature range.
- (6) Using this product in excess of the critical speed may damage the components or cause an accident. Be sure to use the product within the specification range designated by THK.
- (7) Install shock absorbers or another impact-absorbing mechanism if there is a risk that the slider may strike the stoppers mounted on both ends of the range of motion. The stoppers are not intended to absorb the impact from sliders. Impacts to the stoppers during operation may lead to damage or accidents.
- (8) Using this product in excess of the torque limit may damage the components or cause an accident.
- (9) Very small strokes can inhibit the formation of an oil film between the raceways and the areas of contact on 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.
- (10) Do not forcibly drive a pin, key, or any other positioning device into the product. This could create indentations on the raceway and impair the product's function.
- (11) Do not touch any moving parts while the product is in operation or in an operable state. In addition, do not enter the operating range of the actuator.
- (12) If performing a task involving multiple people, confirm how to perform the work, what signals will be used, and how to handle problems before beginning, and assign another person to monitor the work.
- (13) If the mounting material lacks sufficient rigidity or accuracy, the bearing load can be focused in one area, and bearing functionality will dramatically decrease. Therefore, carefully consider the rigidity and accuracy of the housing and base, and the strength of the securing bolts.
- (14) The motor wrap type does not have a safety device for if the timing belt breaks. For your safety, please install a safety device next to the equipment.
- (15) In applications where this product will be moved or transferred, the conditions of use may cause inertia from the motor's mass to result in damage to the motor attachment (Housing A) or other parts. Please contact THK before using in this manner.

Lubrication

- (1) Thoroughly wipe off anti-rust oil before using the product.
- (2) The SKR/KR must be lubricated in order for it to demonstrate its full performance. Insufficient lubrication may increase wear on the rolling elements and lead to premature damage. The standard grease used for this product is shown below.

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

- (3) Do not mix different lubricants. Even greases containing the same type of thickening agent may, if mixed, interact negatively due to disparate additives or other ingredients.
- (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) Contact THK if oil lubricant will be used.
- (6) The lubrication interval will vary depending on the operating conditions, so we recommend determining the interval based on the initial inspection. How often lubricant should be replenished varies depending on the operating conditions and environment. We recommend lubricating the system approximately every 100 km traveled (3 to 6 months). The final lubrication interval/amount should be set at the actual machine.
- (7) Grease viscosity can vary depending on the temperature. Please keep in mind that the product's sliding resistance may be affected by changes in viscosity.
- (8) After lubrication, the sliding resistance of the product may increase due to the stirring resistance of the grease. Be sure to perform a warm-up operation and allow the grease to break in sufficiently before operating the machine.
- (9) Excess grease may spatter after lubrication. Wipe off spattered grease as necessary.
- (10) Grease deteriorates over time, which decreases the lubricity, so perform regular grease inspections and replenish grease based on frequency of use.

Storage

When storing the product, pack it as designated by THK and store it indoors in a horizontal position away from high or low temperatures and high humidity. Please note that if the product has been kept in storage for an extended period, the lubricant inside may have deteriorated. Please ensure that you replenish the lubricant before use.

Disposal

The product should be treated as industrial waste and disposed of appropriately.

Instruction Manual

The LM Guide Actuator SKR/KR Instruction Manual can be downloaded from the THK Technical Support Site.

THK Technical Support Site

<https://tech.thk.com/ja>

SKR20

SKR26

SKR33

SKR46

KR20

KR26

KR30H

KR45H

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

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