

The Utility Slide UGR is utilized in a wide variety of applications such as residential and office fixtures.

The slim body can support large loads and enables compact design of machines with a high degree of design freedom.

End seal
(Debris ingress protection)

Ball travel groove

Utility Slide

UGR

Feature 1 Stable movement

The rolling guide utilizes a ball circulation system.

Feature 2 Easy to install

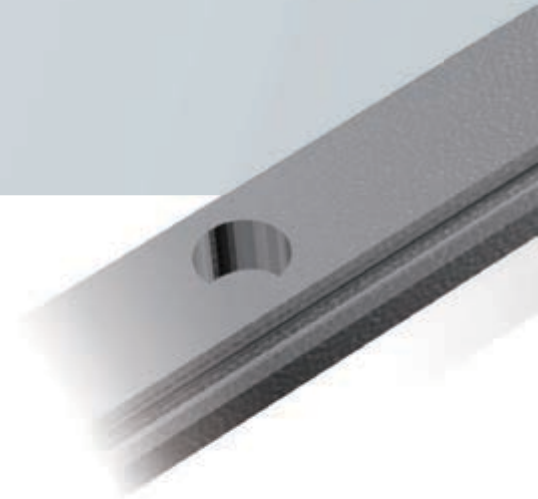
This product can be secured with bolts during installation. Mounting time is considerably reduced because clearance adjustment is unnecessary.

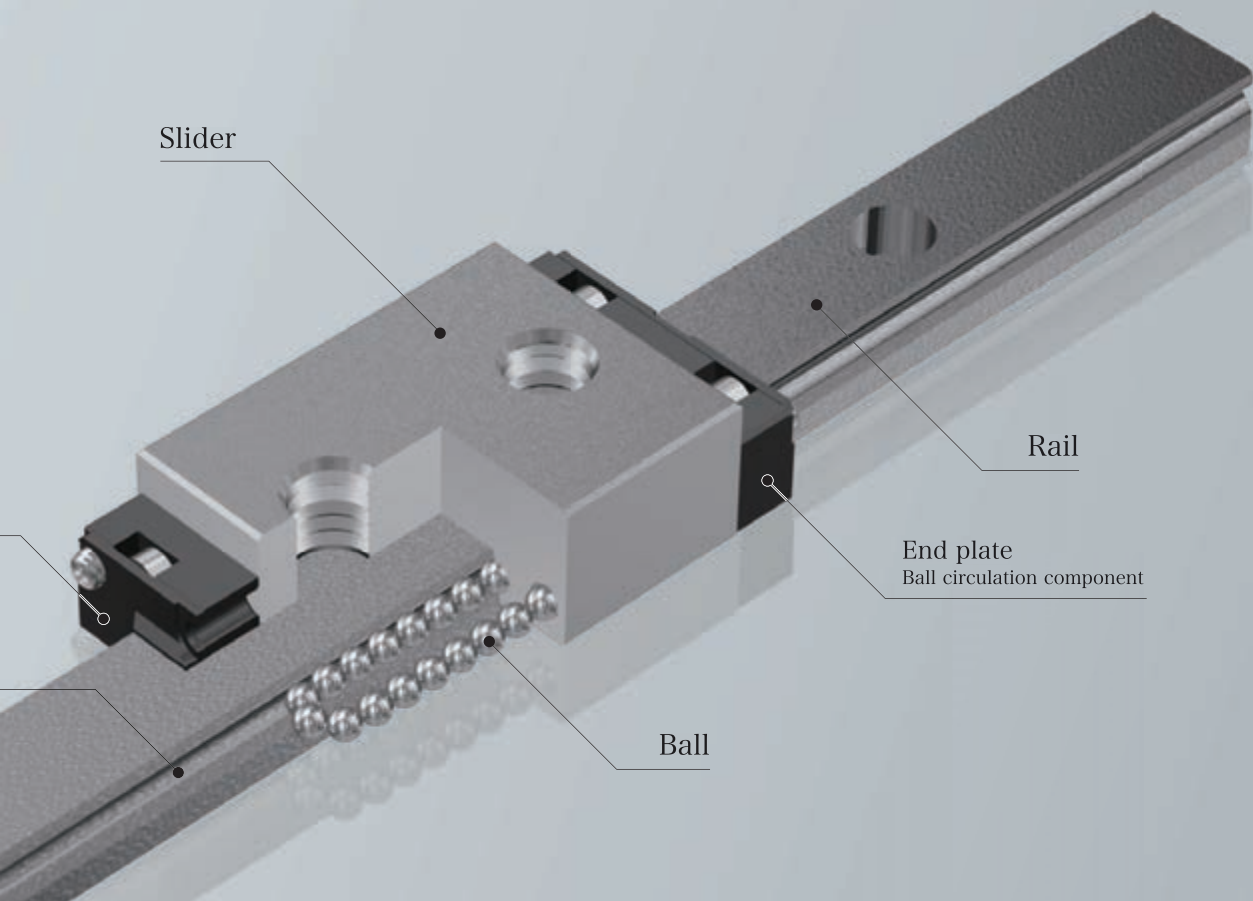
Feature 3 Compact and accommodates high loads

With a compact size of 20 mm (height) x 32 mm (width), each slider has a permissible load of 3430 N (radial direction). The quantity of sliders can be freely selected to suit the specifications, and rails can be manufactured at a maximum length of 2960 mm.

Feature 4 Capable of receiving a load in any direction

This product can be used in a variety of installation orientations such as horizontal, vertical, slanted, wall-mounted, and suspended.

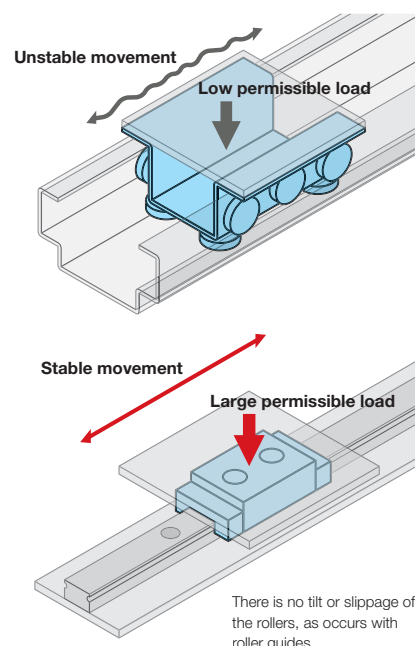




Benefits of the Utility Slide

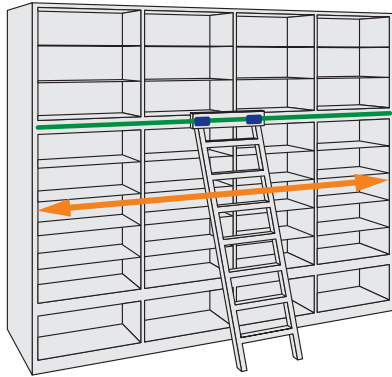
Comparison with a Roller Guide

	Permissible load	Clearance adjustment
Roller guide	Permissible load is small compared to the size of the roller guide main unit.	Clearance adjustment is difficult, making movement heavy and resulting in large gaps.
Utility Slide UGR	Large permissible load and allows for compact designs.	Clearance adjustment is unnecessary. (Adjusted: maximum radial clearance +0.05 mm)

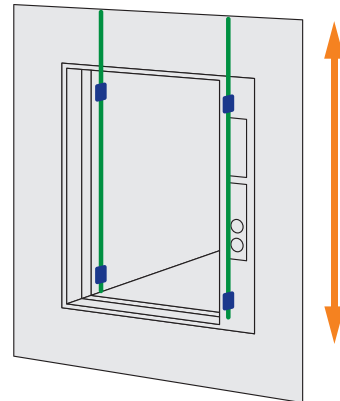


Example Applications

Stores

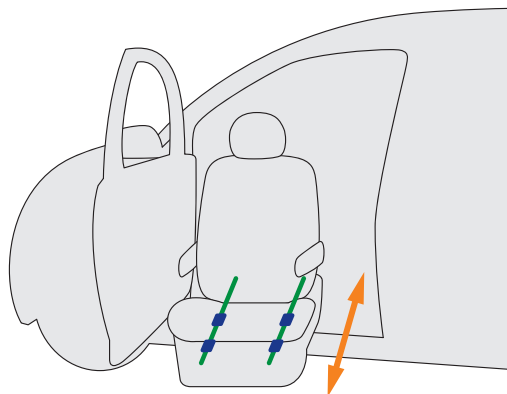


Sliding ladders for large shelves



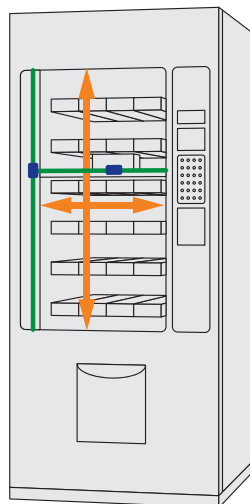
Small freight elevators

Assistive Devices

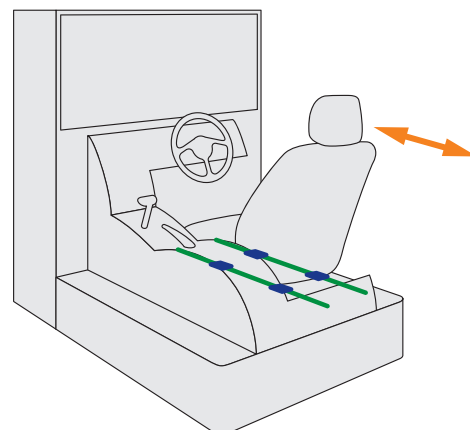


Lifting devices for assistive vehicles

Other Facilities

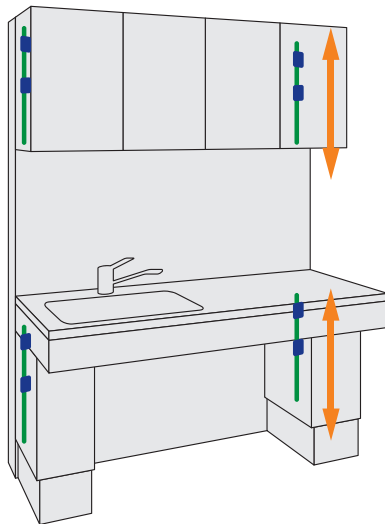


Automatic vending machines

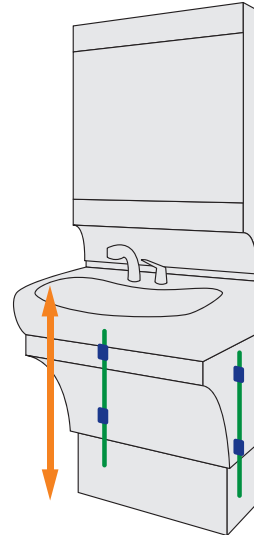


Driving games

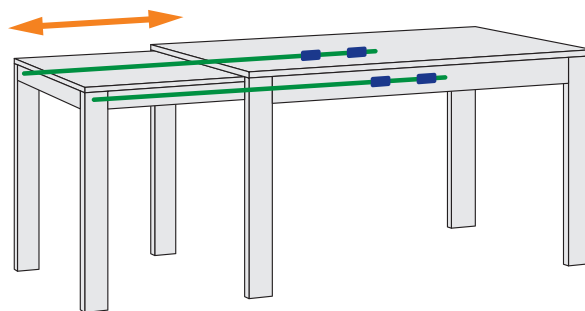
Housing



Kitchens with electronic lift systems

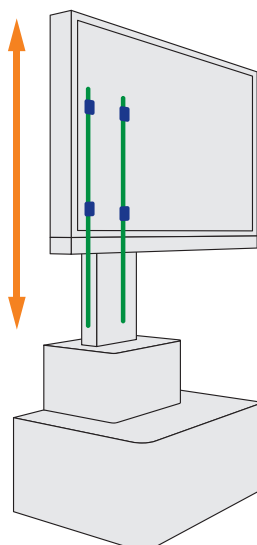


Sinks and vanities with electronic lifts



Sliding tables

Offices

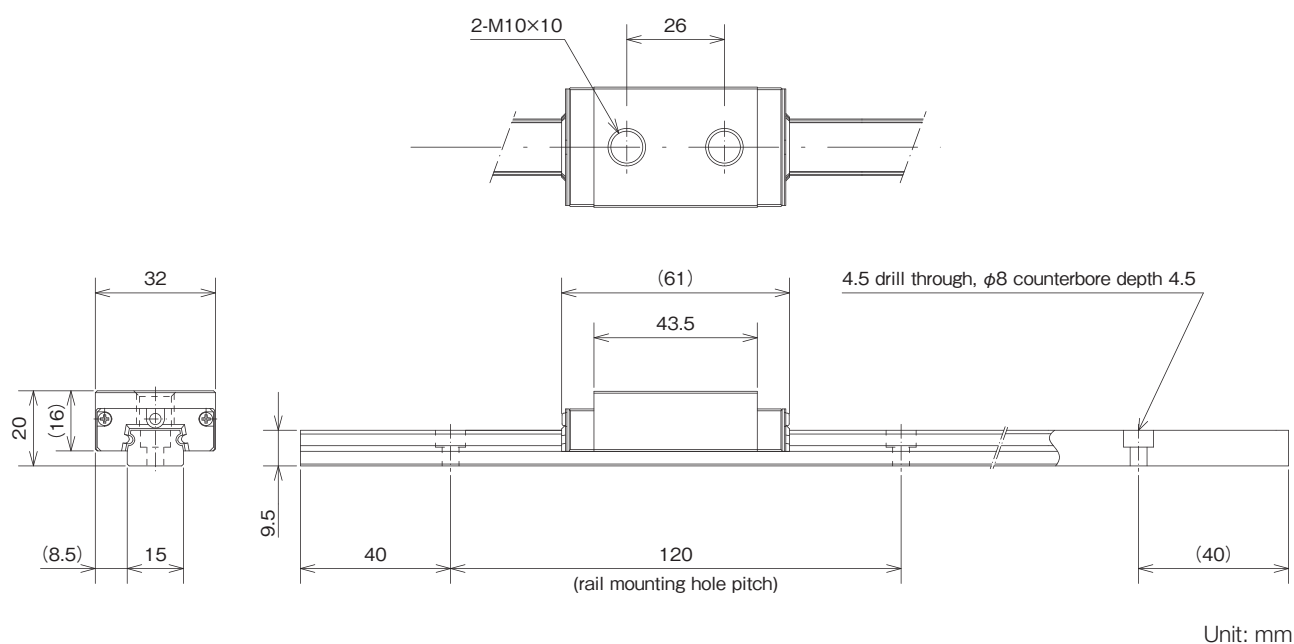


Flat-panel monitor lifting units



Movable shelving

External Dimensions



Model Number Coding

2 UGR 680

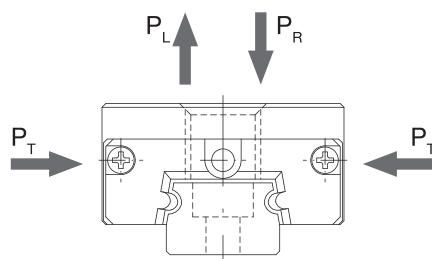
Slider quantity Model No. Rail length

Standard rail lengths: 200 mm, 440 mm, 680 mm, 920 mm

Note 1: The maximum rail length is 2960 mm. Please contact THK if you would like to order a nonstandard rail length.

Note 2: This product is not manufactured for use as a joint rail.

Permissible Load



Unit: N

Model	Permissible load		
	Radial direction (P_R)	Reverse radial direction (P_L)	Lateral direction (P_T)
UGR	3430	2700	2700

Note: Strength of bolts used for installation is not included.

Handling Precautions

Handling

- Do not disassemble the parts. This may result in debris entering the product and loss of functionality.
- If the slider is removed from the rail, balls will fall out. A stopper is installed to prevent the slider from coming off, but please exercise caution when handling.
- Tilting the slider or slide rail may cause it to fall by its own weight.
- Take care not to drop or strike the utility slide. 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.
- Be aware that the permissible load of the utility slide will vary depending on direction.
- Prevent foreign materials from getting inside the product. Otherwise, it may damage the ball circulation components or result in a loss of functionality.
- If foreign materials adhere to the product, replenish the lubricant after washing the product.
- Do not subject this product to harsh conditions, such as an abnormally hot, cold, damp, or dusty environment, or to intense, repeated motion that would cause it to heat up due to friction. Use of this product under such conditions can result in damage or loss of functionality. Please contact THK if the product will be used in harsh conditions.
- If the utility slide will be used in an inverted orientation, take preventive measures such as adding a safety mechanism to prevent items from falling. If the slider is damaged due to an accident, etc., balls may fall out, or the slider may become detached from the slide rail and fall down.

Lubrication

- A black lithium soap-based grease is applied to the slider and ball circulation components. Do not mix lubricants with different properties.

Storage

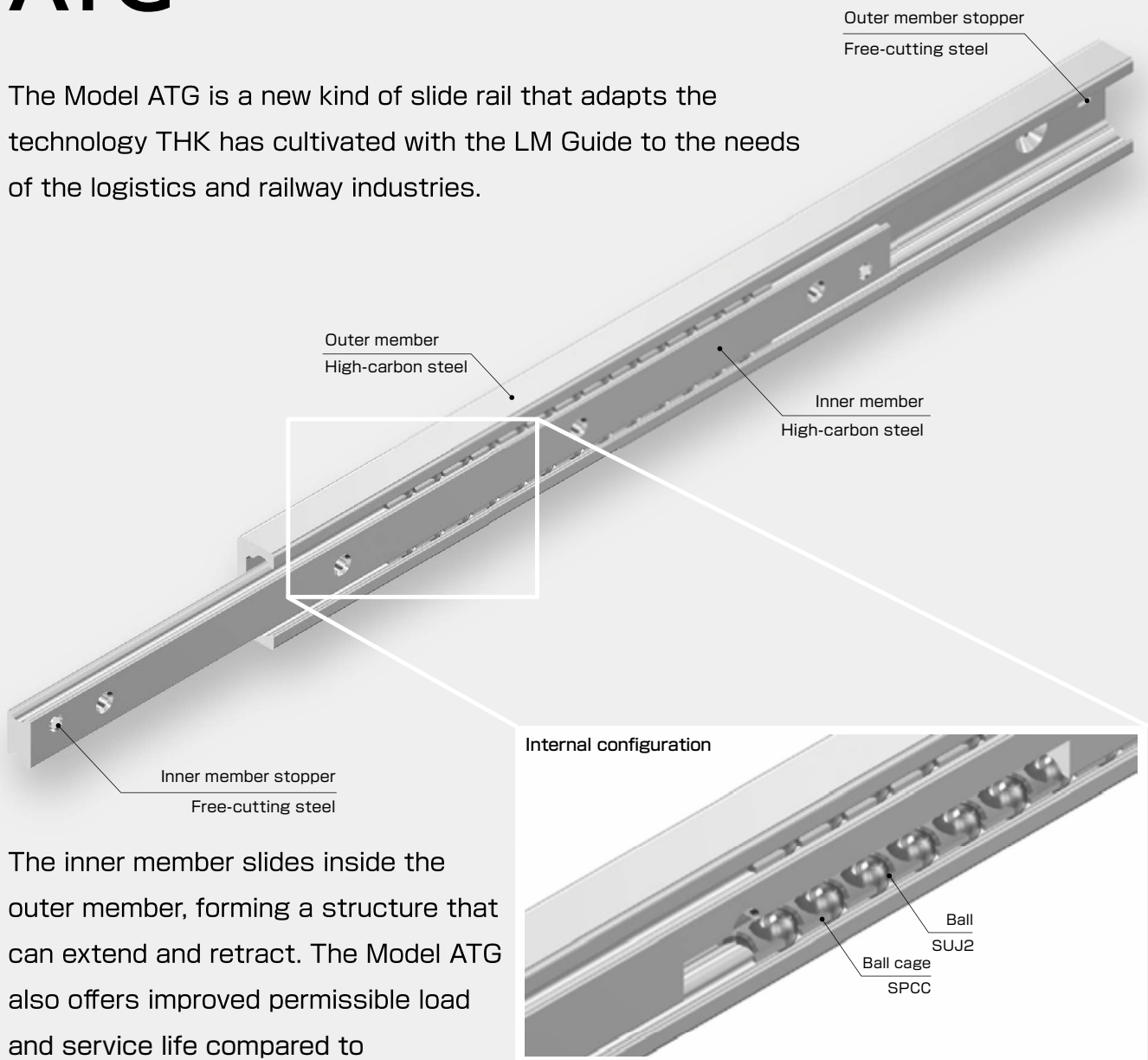
- When storing the utility slide, pack it as designated by THK and store it indoors away from extreme heat or cold and high humidity.

Disposal

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

Utility Slide ATG

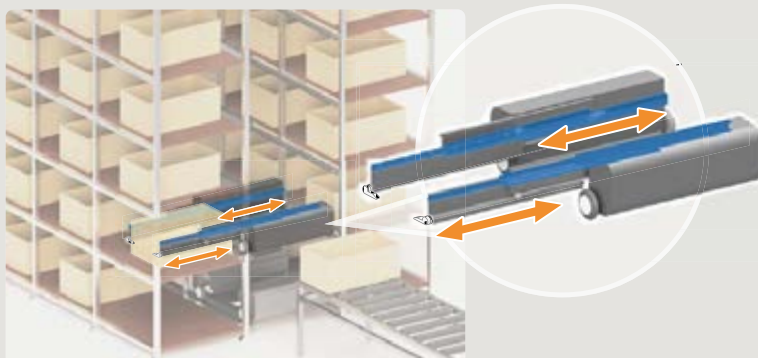
The Model ATG is a new kind of slide rail that adapts the technology THK has cultivated with the LM Guide to the needs of the logistics and railway industries.



The inner member slides inside the outer member, forming a structure that can extend and retract. The Model ATG also offers improved permissible load and service life compared to conventional slide rails.

● Applicable Fields

Logistics



▲ Automated warehouse racks

Railways



▲ Railway vehicle doors

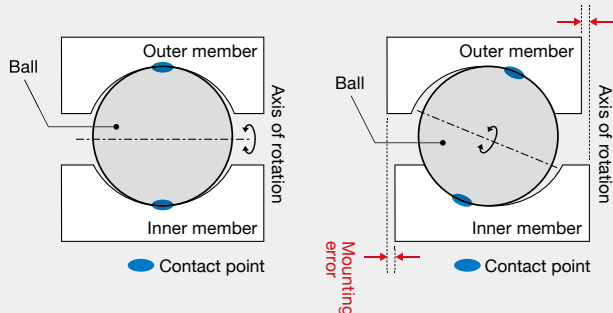
Feature 1 Improved Permissible Load and Extended Service Life

The Model ATG distinguishes itself from conventional slide rails by incorporating the same material used in the LM Guide for its inner and outer members, which is further heat-treated for enhanced strength and surface hardness. The result is a high load capacity, high durability, and improved permissible load and service life compared to conventional products.

Feature 2 Easy Adjustment

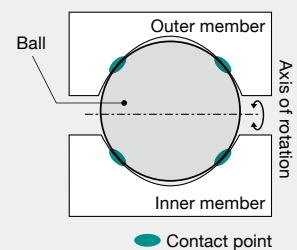
The circular arc grooves make the Model ATG excel at adjusting to slight mounting errors during installation.

2-Point Circular Arc Contact



► Circular arc grooves have the ability to absorb any mounting errors by shifting the point where the balls contact the groove.

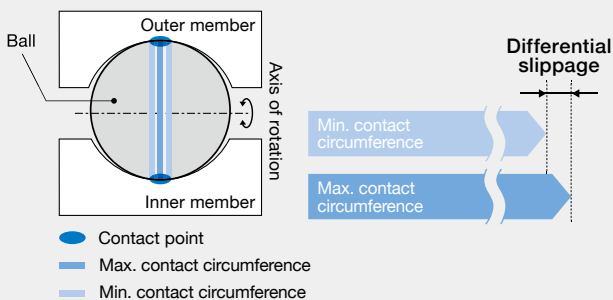
4-Point Gothic Arch Contact



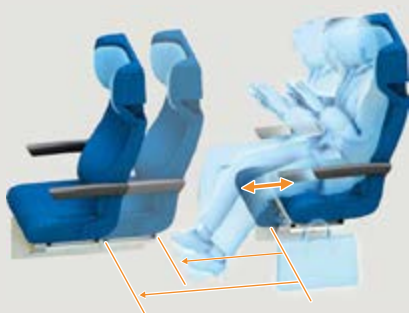
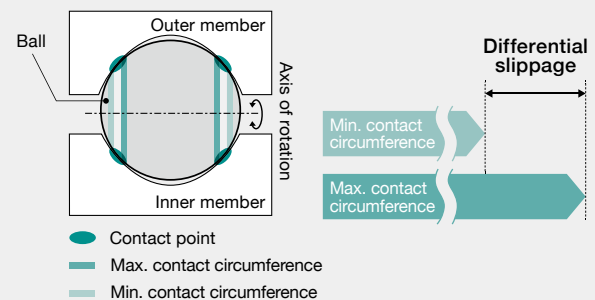
Feature 3 Helps Prevent Locking at the Stroke End

Thanks to its circular arc grooves, the Model ATG experiences less differential slippage than conventional (Gothic-arch groove) products, which helps keep ball cages from becoming misaligned. This in turn reduces locking at the stroke end and contributes to the stable running of equipment.

2-Point Circular Arc Contact



4-Point Gothic Arch Contact



▲ Passenger seating



▲ Storage space for railway vehicle maintenance



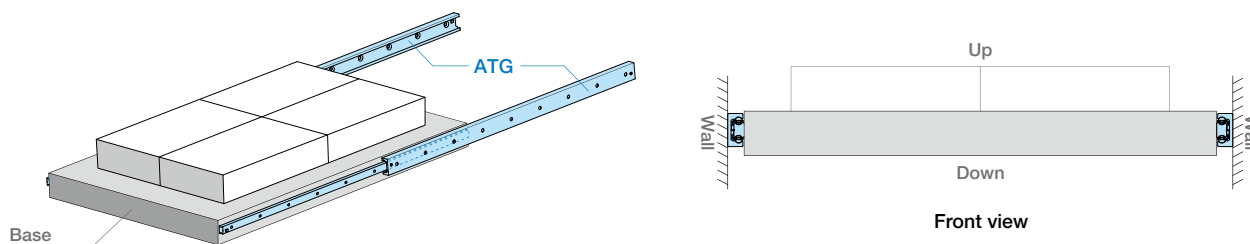
▲ Sliding steps for railway doors

Product Specifications

Mounting Orientation

The Model ATG is intended to be used in a set with two slide rails mounted on a wall.

Note: Please consult THK if you are considering using only one slide rail or installing the product in something other than a wall-mounted orientation.



Basic Specifications

Item	Unit	Model No.			
		ATG22S	ATG28S	ATG35S	ATG43S
Product width	mm	22	28	35	43
Permissible load ¹	N/pair	1,690 to 3,920	3,410 to 6,600	5,150 to 9,740	6,490 to 13,470
Max. sliding resistance ²	N	3	5	5	5
Operating temperature range ³	°C	-15 to 100			
Grease	—	AFB-LF			
Heat treatment ⁴	—	High-frequency induction hardening			
Surface treatment ⁵	—	Trivalent chromate plating			

¹ See the Permissible Load section below for details on calculating the permissible load.

² This is the maximum sliding resistance value when the product has been assembled with zero clearance between the balls and the raceway grooves of the inner and outer members.

³ Contact THK if the product will be used in an environment outside of the specified temperature range.

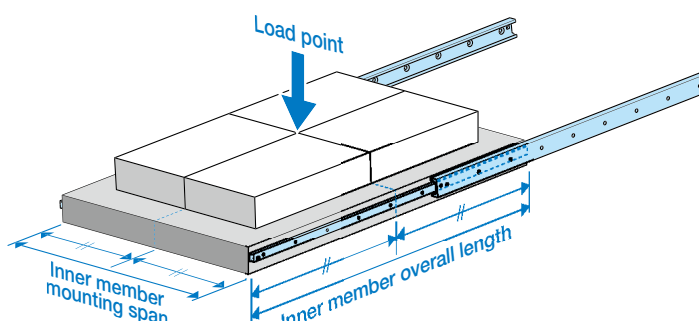
⁴ Induction hardening is performed on the raceway grooves of the inner and outer members.

⁵ Surface treatment applies to all components except for the balls.

Permissible Load

As shown in the figure below, the permissible load is calculated from the permissible surface pressure based on a load centered at a point halfway between the inner members and halfway down the length of an inner member extended the full length of its stroke (indicated by the load point arrow in the figure).

Note: Please do not install the Model ATG's inner members more than around 300 mm apart. If the distance between the installed inner members will be wider than 300 mm, factor in the load that will be caused by deflection of the mounting components. Contact THK for details.



○ Safety Factor

When the Model ATG is stationary or in motion, an unexpected external force may be applied due to vibrations, impacts, or inertia caused by starting and stopping. It is necessary to take a safety factor into account with regard to this type of applied load.

$$f_s = \frac{P_o}{P_c}$$

f_s: Safety factor

P_o: Permissible load (N)

P_c: Applied load (N)

■ Reference Values for the Safety Factor

Treat the safety factor values in the table to the right as the reference minimum values for the given operating conditions. When selecting the model and member length, make sure that the safety factor f_s obtained by dividing the permissible load by the applied load is a value greater than the applicable minimum value.

Reference Values for the Safety Factor (f_s)

Machine type	Load conditions	Lower limit of f_s
General industrial machinery (Automated warehouses, doors, etc.)	Without vibrations or impacts	1.0 to 3.5
	With vibrations or impacts	2.0 to 5.0

○ Lubrication

■ Standard Grease

AFB-LF Grease is a general-purpose grease that provides excellent extreme pressure and mechanical stability properties through the use of a refined mineral oil base oil and a lithium-based consistency enhancer.

Note: Non-standard greases are also available. Contact THK for details.

AFB-LF Representative Physical Properties

Item	Representative property	Testing method
Consistency enhancer	Lithium-based	
Base oil	Refined mineral oil	
Base oil kinematic viscosity: mm ² /s (40°C)	170	JIS K 2220 23
Worked penetration (25°C, 60 W)	275	JIS K 2220 7
Mixing stability (100,000 W)	345	JIS K 2220 15
Dropping point: °C	193	JIS K 2220 8
Evaporation volume: mass% (99°C, 22 h)	0.4	JIS K 2220 10
Oil separation rate: mass% (100°C, 24 h)	0.6	JIS K 2220 11
Copper plate corrosion (B method, 100°C, 24 h)	Passed	JIS K 2220 9
Low-temperature torque: mN·m (-20°C)	Starting	JIS K 2220 18
	Rotational	
4-ball testing (welding load): N	3,089	ASTM D2596
Operating temperature range: °C	-15 to 100	
Color	Yellowish brown	

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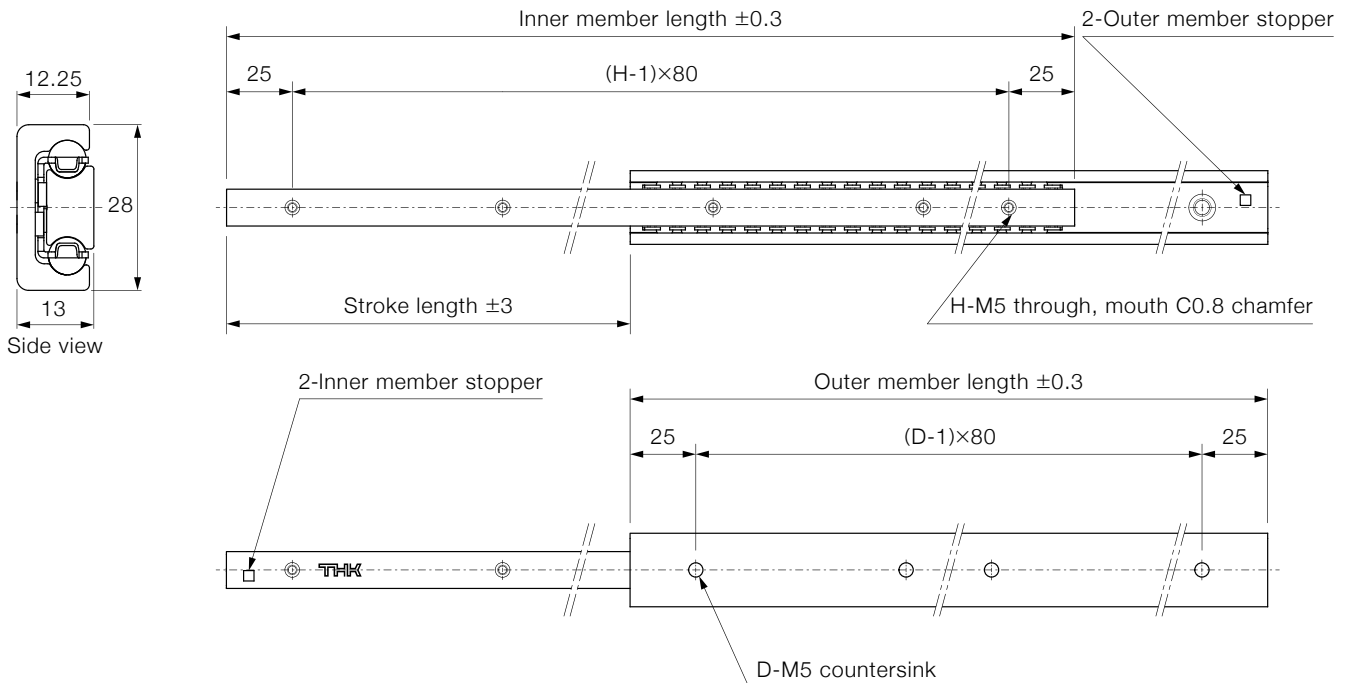
Model No. + Outer member length	Stroke length	Outer member length	Inner member length	No. of mounting holes		Permissible load N/set	Mass kg/set
				D	H		
ATG22S+130L	79.4	130	130	2	2	1,690	0.35
ATG22S+210L	114.4	210	210	3	3	2,920	0.57
ATG22S+290L	158.4	290	290	4	4	3,010	0.79
ATG22S+370L	202.4	370	370	5	5	3,120	1.01
ATG22S+450L	237.4	450	450	6	6	3,490	1.24
ATG22S+530L	281.4	530	530	7	7	3,500	1.46
ATG22S+610L	316.4	610	610	8	8	3,730	1.68
ATG22S+690L	351.4	690	690	9	9	3,920	1.91

The outer member lengths in the table above are the standard lengths. Please contact THK if you would like to order a non-standard length or a special stroke length.

Select an option Fixed symbol

Note: When ordering the Model ATG, specify the number of individual slide rails needed. The Model ATG can be ordered in any quantity of one or more.

ATG28



Unit: mm

Model No. + Outer member length	Stroke length	Outer member length	Inner member length	No. of mounting holes		Permissible load N/set	Mass kg/set
				D	H		
ATG28S+130L	75	130	130	2	2	3,410	0.50
ATG28S+210L	117	210	210	3	3	4,560	0.83
ATG28S+290L	149.5	290	290	4	4	6,000	1.15
ATG28S+370L	191.5	370	370	5	5	6,220	1.47
ATG28S+450L	233.5	450	450	6	6	6,370	1.80
ATG28S+530L	275.5	530	530	7	7	6,470	2.12
ATG28S+610L	317.5	610	610	8	8	6,540	2.44
ATG28S+690L	359.5	690	690	9	9	6,600	2.86

Note: The permissible load and mass are the values for one set of two slide rails.

The outer member lengths in the table above are the standard lengths. Please contact THK if you would like to order a non-standard length or a special stroke length.

Model Number Coding

Select an option Fixed symbol

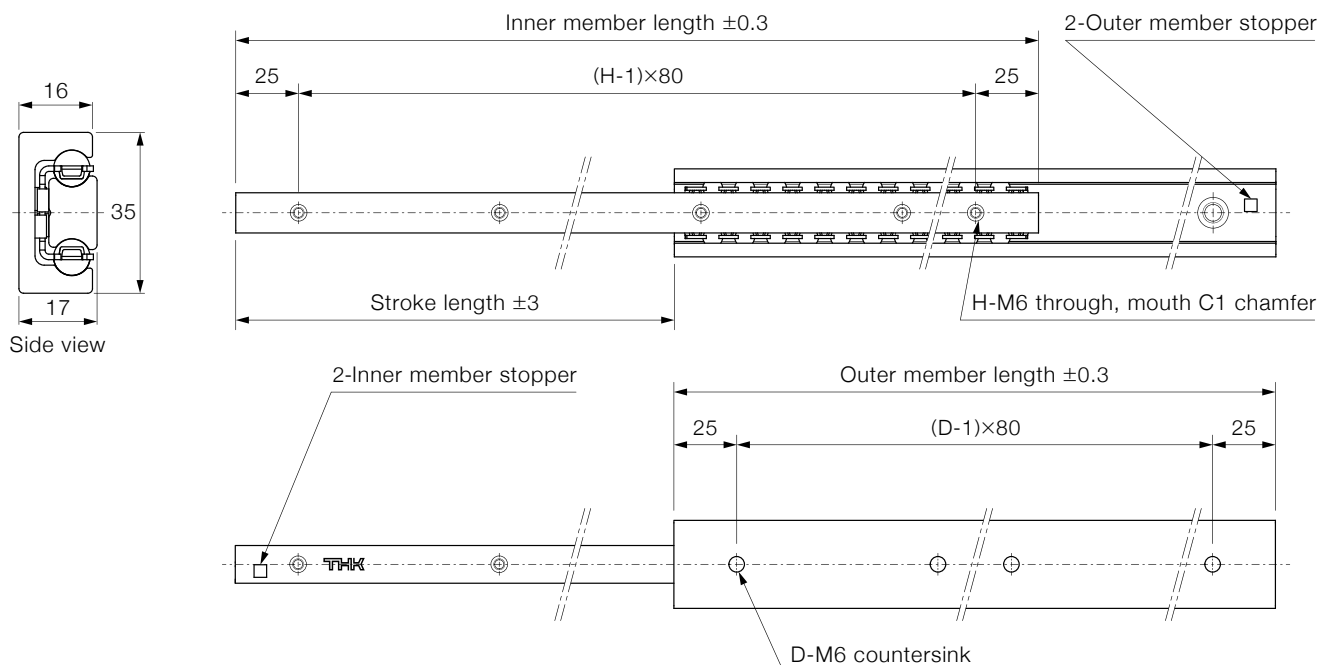
ATG28S + **210L**

Model No. Outer member length

Note: When ordering the Model ATG, specify the number of individual slide rails needed. The Model ATG can be ordered in any quantity of one or more.

Dimensional Table

ATG35



Unit: mm

Model No. + Outer member length	Stroke length	Outer member length	Inner member length	No. of mounting holes		Permissible load N/set	Mass kg/set
				D	H		
ATG35S+210L	128.7	210	210	3	3	5,150	1.33
ATG35S+290L	157.9	290	290	4	4	7,990	1.87
ATG35S+370L	199.8	370	370	5	5	8,610	2.40
ATG35S+450L	254.4	450	450	6	6	7,970	2.90
ATG35S+530L	283.6	530	530	7	7	9,320	3.44
ATG35S+610L	325.5	610	610	8	8	9,540	3.97
ATG35S+690L	367.4	690	690	9	9	9,740	4.50

Note: The permissible load and mass are the values for one set of two slide rails.

The outer member lengths in the table above are the standard lengths. Please contact THK if you would like to order a non-standard length or a special stroke length.

Model Number Coding

Select an option Fixed symbol

ATG35S

Model No.

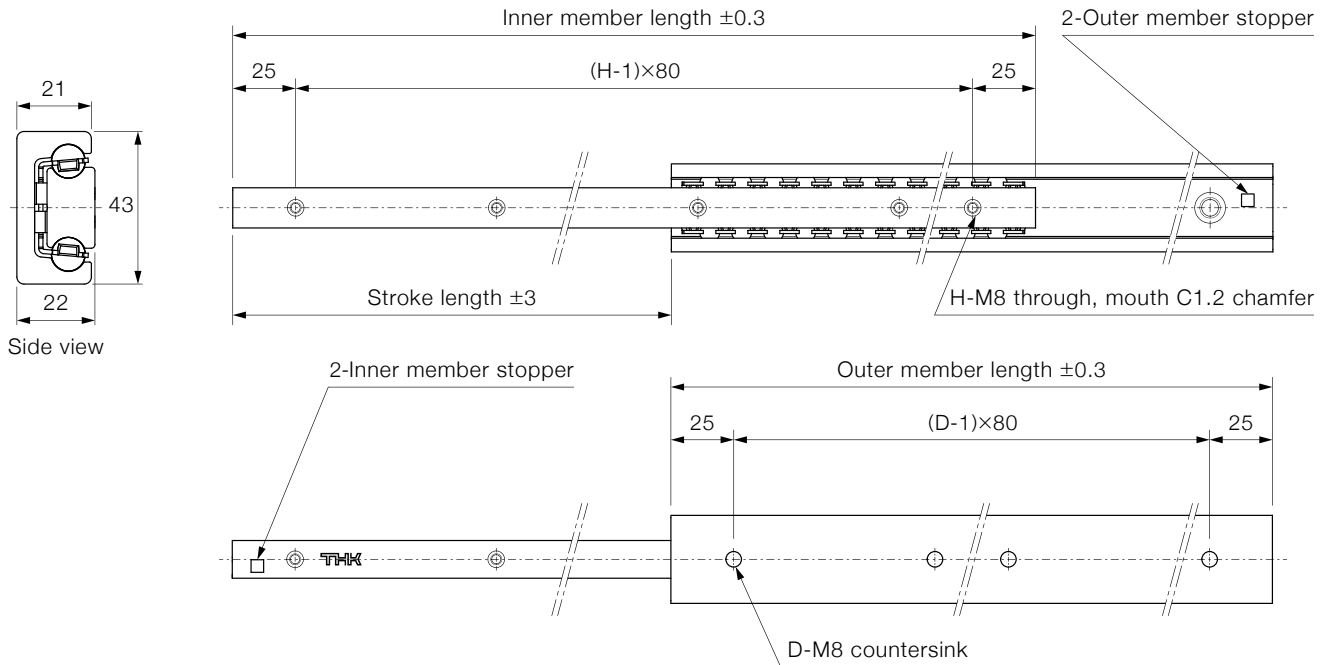
+

210L

Outer member length

Note: When ordering the Model ATG, specify the number of individual slide rails needed. The Model ATG can be ordered in any quantity of one or more.

ATG43



Unit: mm

Model No. + Outer member length	Stroke length	Outer member length	Inner member length	No. of mounting holes		Permissible load N/set	Mass kg/set
				D	H		
ATG43S+210L	132.6	210	210	3	3	6,490	2.22
ATG43S+290L	167.6	290	290	4	4	9,650	3.10
ATG43S+370L	217.6	370	370	5	5	9,810	3.96
ATG43S+450L	252.6	450	450	6	6	11,560	4.84
ATG43S+530L	287.6	530	530	7	7	12,890	5.72
ATG43S+610L	322.6	610	610	8	8	13,930	6.60
ATG43S+690L	372.6	690	690	9	9	13,470	7.44

Note: The permissible load and mass are the values for one set of two slide rails.

The outer member lengths in the table above are the standard lengths. Please contact THK if you would like to order a non-standard length or a special stroke length.

Model Number Coding

Select an option Fixed symbol

ATG43S

Model No.

+

210L

Outer member length

Note: When ordering the Model ATG, specify the number of individual slide rails needed. The Model ATG can be ordered in any quantity of one or more.

A newly developed utility slide that offers smooth sliding motion and high-performance contamination protection



Utility Slide

Advanced Wheel Guide



Feature 1 Smooth Sliding Mechanism

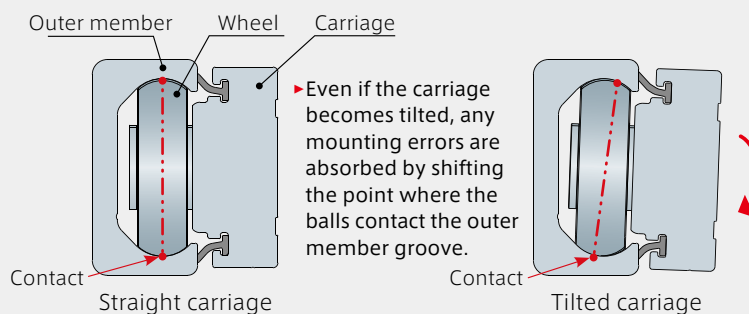
Feature 2 Superior Contamination Protection and Durability

Feature 3 Environmentally Friendly

Advanced Wheel Guide

Feature 1 Smooth Sliding Mechanism

Adopting the circular arc groove contact structure technology developed with THK's LM Guide enables smooth sliding motion even on mounting surfaces with low accuracy, where the carriage may become tilted, thanks to the product's self-adjustment capability.

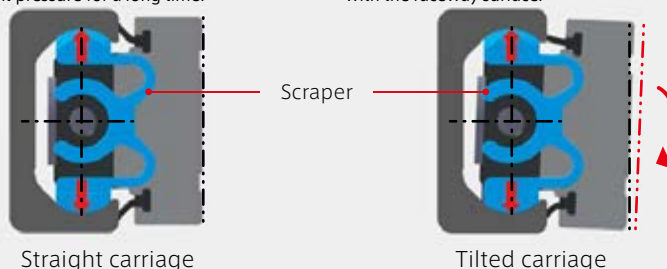


Feature 2 Superior Contamination Protection and Durability

Pairing side seals with newly developed scrapers designed to apply constant pressure enables the scrapers to maintain contact with the raceway surface for a long time, which grants superior contamination protection compared to existing slide rails. Additionally, both the outer member and the wheels have been heat-treated to provide boosted hardness and enhanced durability.

The pressing force exerted from the elasticity of the resin enables contact at constant pressure for a long time.

The scrapers do not tilt even if the carriage does, so they are able to maintain contact with the raceway surface.



Feature 3 Environmentally Friendly

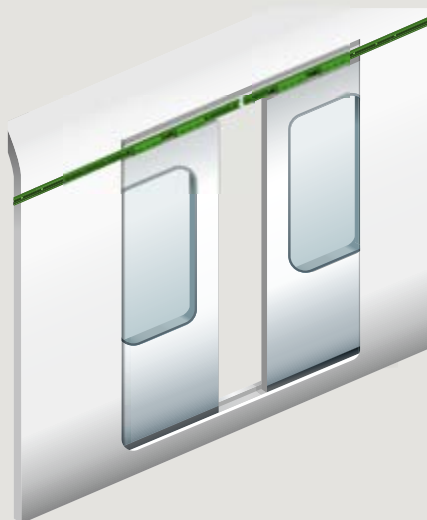
The newly developed grease tank creates an eco-friendly lubrication system that does not contaminate the surrounding area, since the right amount of grease is applied to the raceway.

Example Applications

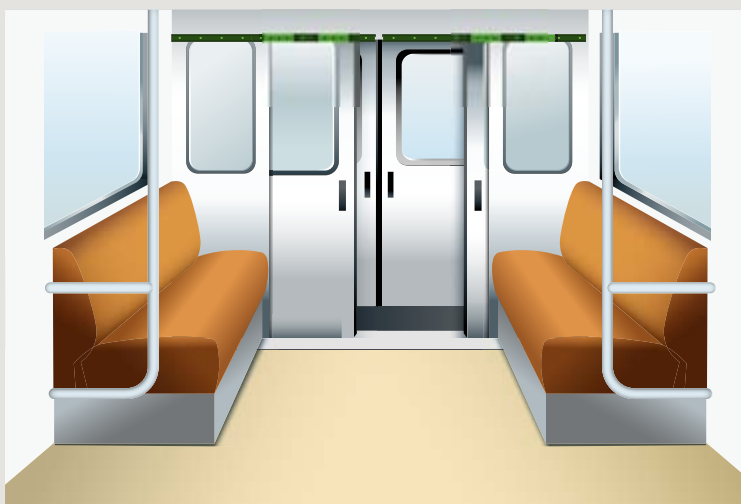
Railways

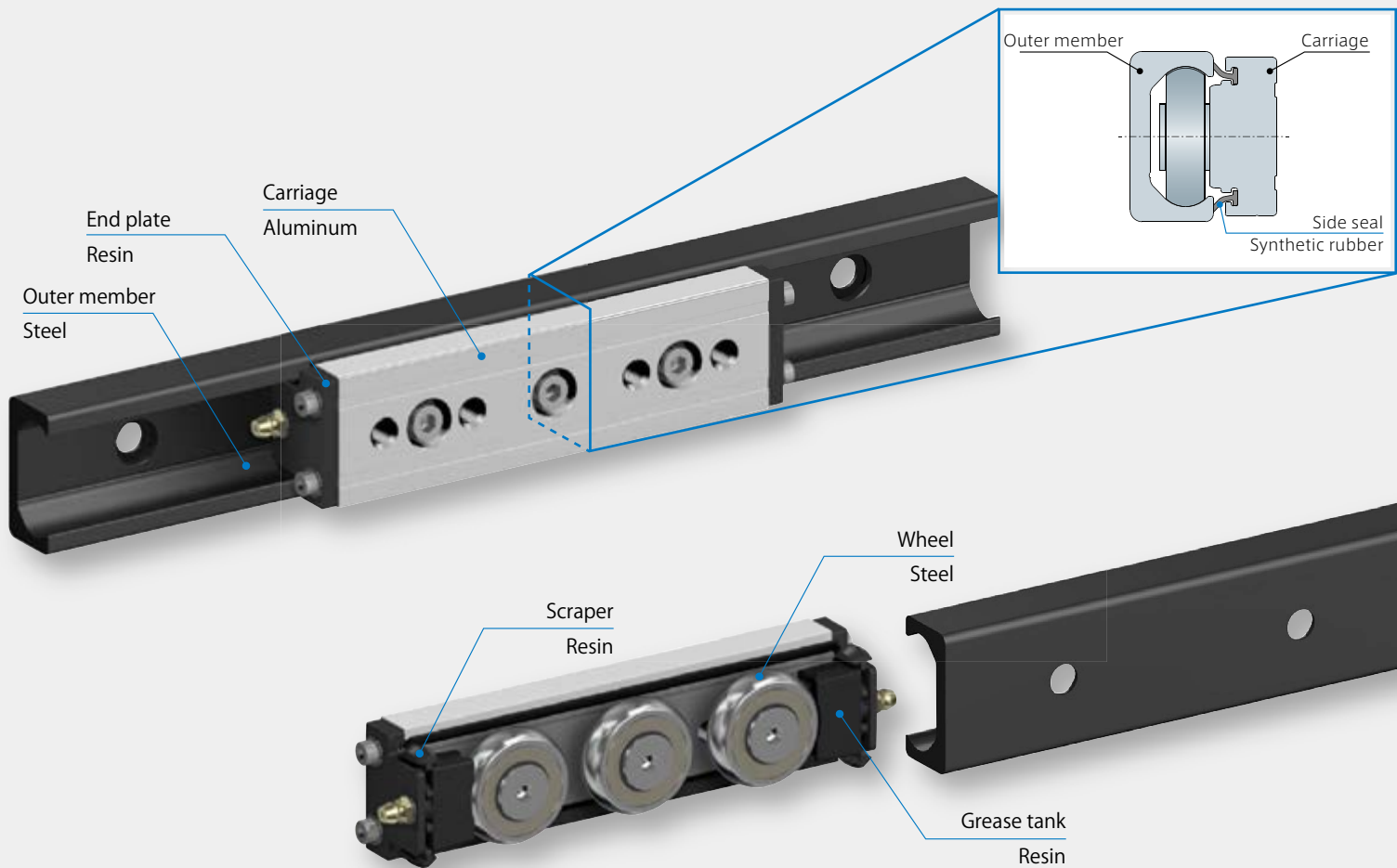
Railway vehicle doors

Exterior doors

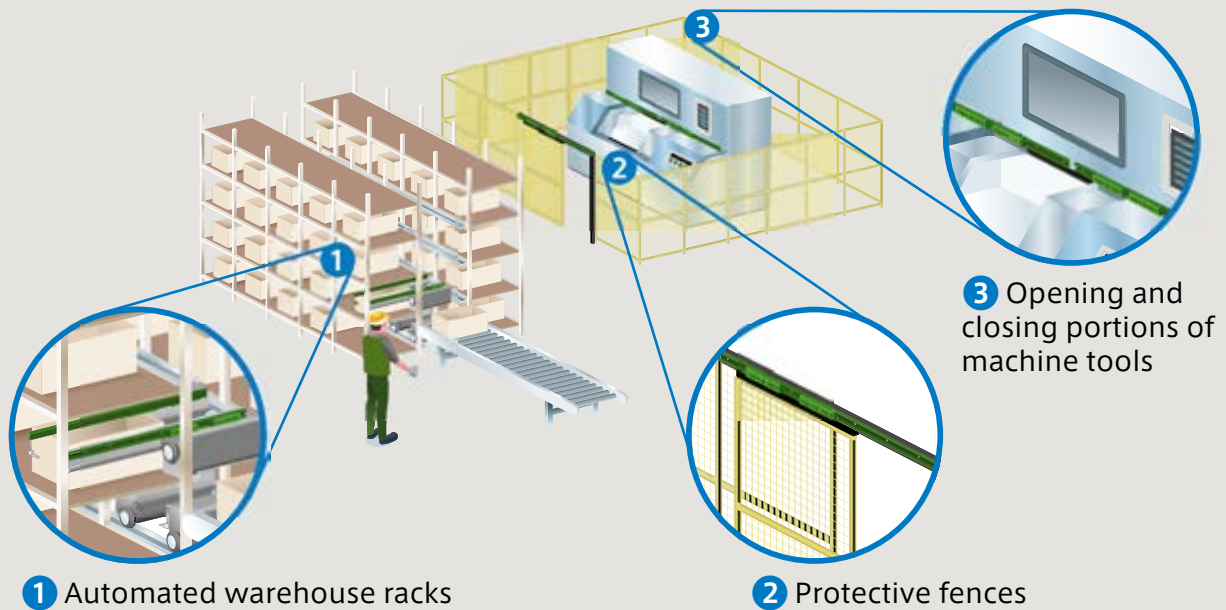


Gangway doors





Logistics and Other

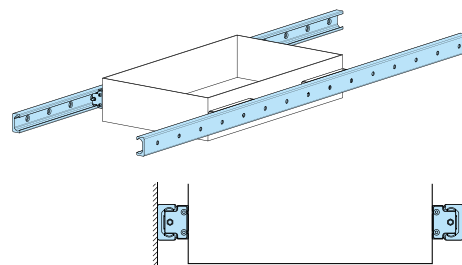


Product Specifications

Mounting Orientation

① Wall-mounting two units facing each other

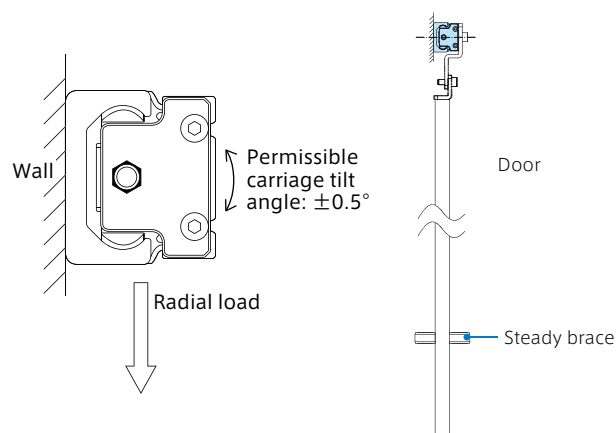
This product is typically wall-mounted with two units facing each other. It is possible for either the outer members to be fixed so the carriages move, or for the carriages to be fixed so the outer members move.



Installation example:
Two wall-mounted units facing each other

② Wall-mounting one unit

It is also possible to mount a single unit to a wall. Make the center of gravity be straight down from the center of the outer member's grooves, and prepare a steady brace so that the moment load is not borne in a rolling direction. We recommend using at least two carriages per outer member.



One wall-mounted unit One wall-mounted unit with a steady brace

Installation example: One wall-mounted unit

If a mounting orientation other than method 1 or 2 above is required, contact THK.

Basic Specifications

Item	Unit	Model number			
		AWG18	AWG28	AWG35	AWG43
Product width	mm	18	28	35	43
Basic static load rating C ₀ ¹	N/pair	730 to 1,095	2,100 to 3,150	3,900 to 5,850	6,100 to 9,150
Radial clearance ²	mm	0 to 0.02	0 to 0.04		
Permissible carriage tilt angle ³	°	±0.5			
Operating temperature range ⁴	°C	-15 to 80			
Grease	—	AFB-LF			

¹ It is typical for this product to be wall-mounted with two units facing each other. However, the basic static load rating given is the value for one carriage and one outer member.

² Contact THK if you want to use a product with a radial clearance outside of this range.

³ Avoid applications where the carriage would be tilted more than 0.5°.

⁴ This product contains components made of resin and rubber. Do not use this product at temperatures above 80°C.

Outer Member Standard Lengths

The standard lengths of the outer members for this product are shown in the table to the right.

When specifying a non-standard length, please also specify the number of holes to be drilled at the standard pitch. Additionally, please consider the distance between the mounting holes and the end surfaces when setting the G and g dimensions. Be aware that as the G and g dimensions increase, that portion becomes less stable, and the accuracy may be negatively affected. See the dimensional drawings and dimensional tables on pages 7, 8, and 9 for details about the G and g dimensions. If a length in excess of the maximum length is desired, joint outer members will be used. Contact THK for details.

Unit: mm

Model No.	AWG18	AWG28	AWG35	AWG43
Outer member standard length		480 (6)		
(n: Number of mounting holes)		720 (9)		
		960 (12)		
		1,200 (15)		
Standard pitch		80		
G, g		40		

○ Wheel Contact Positions and Maximum Single Wheel Load P_{max}

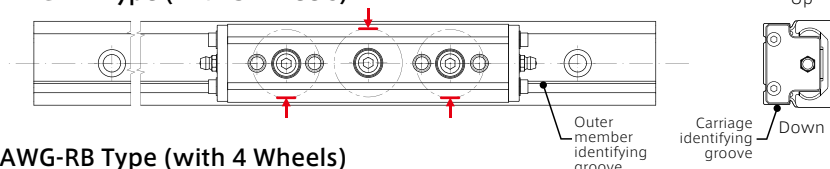
The recommended installation method for this product is to mount it to a wall. The wheel contact positions in a wall-mounted application are shown in the figures to the right.

The radial and moment loads borne by each wheel will differ depending on the installation conditions and the center of gravity.

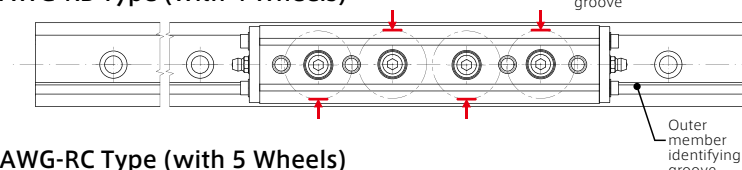
Both radial and moment loads are considered when calculating the maximum single wheel load (the load borne by any one wheel bearing a larger load than any of the others).

Please contact THK for details about how the maximum single wheel load is calculated.

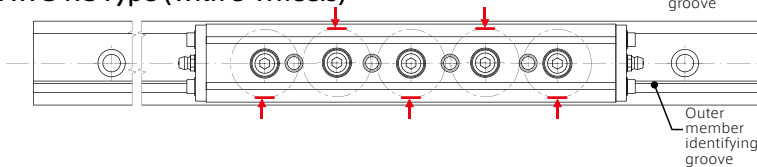
AWG-RA Type (with 3 Wheels)



AWG-RB Type (with 4 Wheels)



AWG-RC Type (with 5 Wheels)



Note: If the outer members will be fixed so the carriages move, install the product so that the identifying groove is on the bottom.

Wheel contact positions

○ Static Safety Factor

If this product experiences vibrations or impacts from sudden stops and starts, or if a large moment caused by an overhung load is applied to the product, the wheels may receive an unexpectedly large load.

When selecting a model, check the maximum single wheel load (whether stationary or in motion) and take the static safety factor into account.

Estimates for the static safety factor are shown in the table to the right.

Note: Please contact THK for details about calculating the static safety factor.

Estimates of the Static Safety Factor (f_s)

Machine type	Load conditions ¹	Lower limit of f_s
General industrial machinery (Automated warehouses, doors, etc.)	Without vibrations or impacts	2
	With vibrations or impacts	5

¹ Vibrations and impacts are typically caused by factors such as acceleration and deceleration, sudden starting and stopping, and vibrations and impacts from an external machine.

$$f_s = \frac{C_0}{P_{max}}$$

f_s : Static safety factor C_0 : Basic static load rating (N) P_{max} : Maximum single wheel load (N)

○ Lubrication

The standard lubrication specification for this product is grease lubrication. The standard grease it uses is THK AFB-LF Grease. AFB-LF Grease is a general-purpose grease that provides excellent extreme pressure resistance and mechanical stability through the use of a refined mineral oil base oil and a lithium-based consistency enhancer.

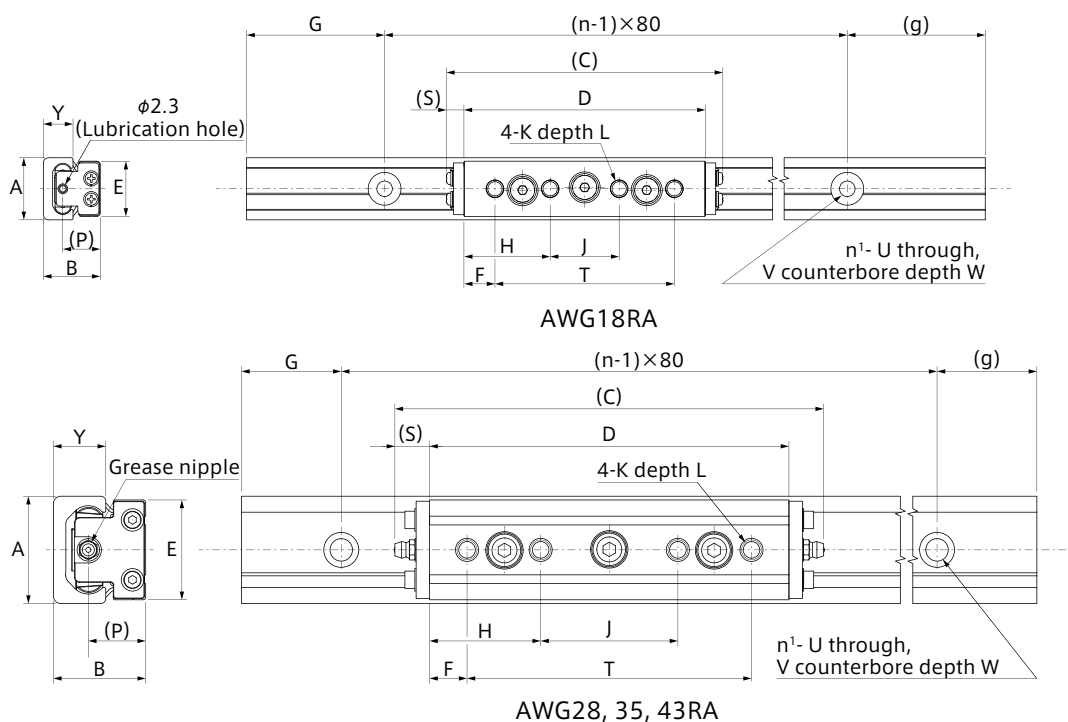
Note: Non-standard greases are also available. Contact THK for details.
Make sure to fill the grease tank with grease prior to use.

AFB-LF Representative Physical Properties

Item	Representative property	Testing method
Consistency enhancer	Lithium-based	
Base oil	Refined mineral oil	
Base oil kinematic viscosity: mm ² /s (40°C)	170	JIS K 2220 23
Worked penetration (25°C, 60 W)	275	JIS K 2220 7
Mixing stability (100,000 W)	345	JIS K 2220 15
Dropping point: °C	193	JIS K 2220 8
Evaporation amount: mass% (99°C, 22 h)	0.4	JIS K 2220 10
Oil separation rate: mass% (100°C, 24 h)	0.6	JIS K 2220 11
Copper plate corrosion (B method, 100°C, 24 h)	Passed	JIS K 2220 9
Low-temperature torque: mN·m (-20°C)	Starting	130
	Rotational	51
4-ball testing (welding load): N	3089	JIS K 2220 18
Operating temperature range: °C	-15 to 100	ASTM D2596
Color	Yellowish brown	

Dimensional Tables

AWG-RA Type (with 3 Wheels)



Unit: mm

Model No.	Outer dimensions			Carriage dimensions											Outer member dimensions					Basic static load rating C_0 (N)	Mass	
	A	B	C	D	S	E	F	T	H	J	K	L	P	Grease nipple	U	V	W	Y	G, g		Carriage (kg)	Outer member (kg/m)
AWG18RA	18	16.5	80.2	70	5.1	16	9	52	25	20	M5	6.9	10.9	—	4.5	9.5	1.7	8.6	40	730	0.03	0.55
AWG28RA	28	24	123.4	98	12.7	25	10	78	31.5	35	M5	11.7	15	A-M4 $\times 0.7$	6	9.5	2.1	12.5	40	2,100	0.12	1.17
AWG35RA	35	30	146.6	120	13.3	32	10	100	37.5	45	M6	13.9	18.9	A-M6F	7	11	2.5	16	40	3,900	0.241	1.83
AWG43RA	43	37	171.8	144	13.9	40	15	114	44.5	55	M8	17	23	A-M6F	9	14	3.7	21	40	6,100	0.453	2.94

¹ Specify n, the number of mounting holes, based on the length of the outer member. (See Outer Member Standard Lengths on page 5 for n, the number of mounting holes, for each of the standard product lengths.)

Note: It is typical for this product to be wall-mounted with two units facing each other. However, the basic static load rating and mass given are the values for one carriage and one outer member.

The basic static load rating takes into consideration the number of wheels that can bear a radial load. (See Wheel Contact Positions and Maximum Single Wheel Load on page 6.)

The Model AWG18 comes with extra-low profile bolts for fixing the outer member in place. Please prepare low-profile bolts for Models AWG28 through 43. See the Fastening Torque Table on page 10 for details.

Model Number Coding

Select an option

AWG43

Model No.
AWG18
AWG28
AWG35
AWG43

RA

Type of carriage
RA: With 3 wheels
RB: With 4 wheels
RC: With 5 wheels

2

Number of carriages used per
outer member

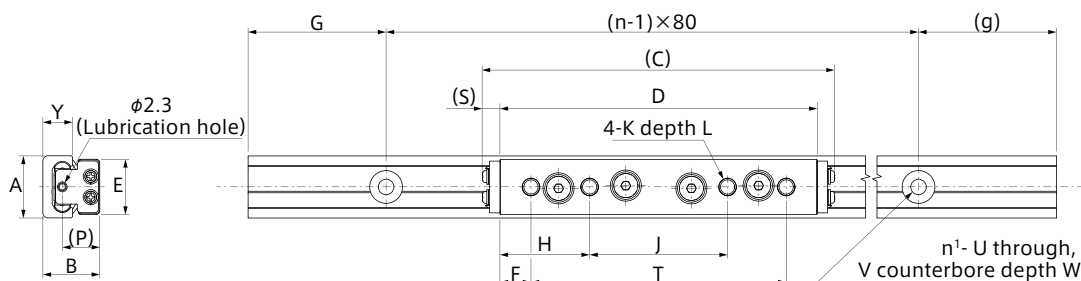
SS

Seal symbol
No symbol: Without seal
SS: Side seals + scrapers

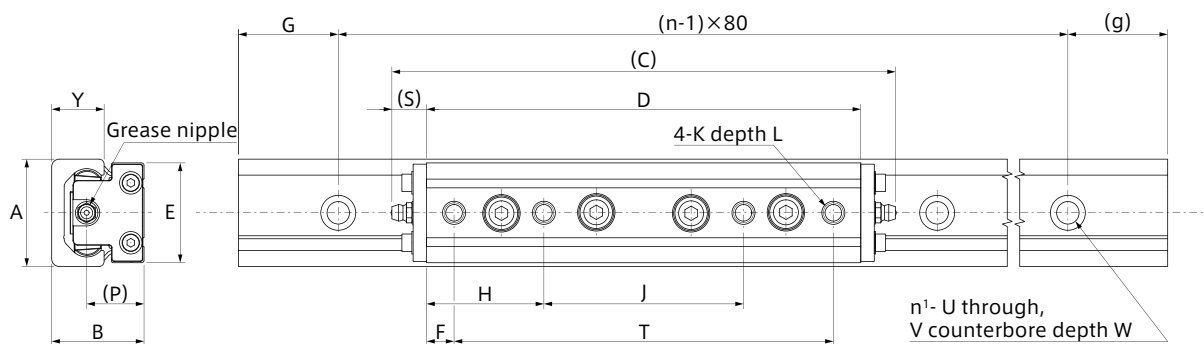
+ 1200L

Outer member length (in mm)
Standard lengths: 480
720
960
1200

AWG-RB Type (with 4 Wheels)



AWG18RB



AWG28, 35, 43RB

Unit: mm

Model No.	Outer dimensions			Carriage dimensions											Outer member dimensions					Basic static load rating C_0 (N)	Mass	
	A	B	C	D	S	E	F	T	H	J	K	L	P	Grease nipple	U	V	W	Y	G, g		Carriage (kg)	Outer member (kg/m)
AWG18RB	18	16.5	102.2	92	5.1	16	9	74	26	40	M5	6.9	10.9	—	4.5	9.5	1.7	8.6	40	730	0.04	0.55
AWG28RB	28	24	142.4	117	12.7	25	10	97	33.5	50	M5	11.7	15	A-M4 ×0.7	6	9.5	2.1	12.5	40	2,100	0.151	1.17
AWG35RB	35	30	165.6	139	13.3	32	9	121	39.5	60	M6	13.9	18.9	A-M6F	7	11	2.5	16	40	3,900	0.29	1.83
AWG43RB	43	37	201.8	174	13.9	40	11	152	47	80	M8	17	23	A-M6F	9	14	3.7	21	40	6,100	0.566	2.94

¹ Specify n, the number of mounting holes, based on the length of the outer member. (See Outer Member Standard Lengths on page 5 for n, the number of mounting holes, for each of the standard product lengths.)

Note: It is typical for this product to be wall-mounted with two units facing each other. However, the basic static load rating and mass given are the values for one carriage and one outer member.

The basic static load rating takes into consideration the number of wheels that can bear a radial load. (See Wheel Contact Positions and Maximum Single Wheel Load on page 6.)

The Model AWG18 comes with extra-low profile bolts for fixing the outer member in place. Please prepare low-profile bolts for Models AWG28 through 43. See the Fastening Torque Table on page 10 for details.

Model Number Coding

Select an option

AWG43

Model No.
AWG18
AWG28
AWG35
AWG43

RB

Type of carriage
RA: With 3 wheels
RB: With 4 wheels
RC: With 5 wheels

2

Number of carriages used per outer member

SS

Seal symbol
No symbol: Without seal
SS: Side seals + scrapers

+ 1200L

Outer member length (in mm)
Standard lengths: 480
720
960
1200

Technical drawings of ball bearings, showing cross-sections and dimensions.

Top Drawing (AWG18RC):

- Overall length: $(n-1) \times 80$
- End distance: g
- Inner diameter: $\phi 2.3$ (Lubrication hole)
- Dimensions: $G, (C), D, (S), 4\text{-K depth } L, H, J, T, F, A, Y, E, B, P$
- Feature: $n^1\text{-U through, V counterbore depth } W$

Bottom Drawing (AWG28, 35, 43RC):

- Overall length: $(n-1) \times 80$
- End distance: g
- Feature: Grease nipple
- Dimensions: $G, (C), D, (S), 4\text{-K depth } L, H, J, T, F, A, Y, E, B, P$
- Feature: $n^1\text{-U through, V counterbore depth } W$

Model No.	Outer dimensions			Carriage dimensions											Outer member dimensions					Basic static load rating C ₀ (N)	Mass	
	A	B	C	D	S	E	F	T	H	J	K	L	P	Grease nipple	U	V	W	Y	G, g		Carriage (kg)	Outer member (kg/m)
AWG18RC	18	16.5	122.2	112	5.1	16	26	60	46	20	M5	6.9	10.9	—	4.5	9.5	1.7	8.6	40	1,095	0.05	0.55
AWG28RC	28	24	167.4	142	12.7	25	33.5	75	58.5	25	M5	11.7	15	A-M4 ×0.7	6	9.5	2.1	12.5	40	3,150	0.183	1.17
AWG35RC	35	30	195.6	169	13.3	32	39.5	90	69.5	30	M6	13.9	18.9	A-M6F	7	11	2.5	16	40	5,850	0.353	1.83
AWG43RC	43	37	237.8	210	13.9	40	45	120	85	40	M8	17	23	A-M6F	9	14	3.7	21	40	9,150	0.687	2.94

The Model AWG18 comes with extra-low profile bolts for fixing the outer member in place. Please prepare low-profile bolts for Models AWG28 through 43. See the Fastening Torque Table on page 10 for details.

Select an option

+ 1200L

Standard lengths: 480
720
960
1200

THK