

NSK Linear Guides™ Miniature PU Series/PE Series

Super lightweight and smooth motion linear guides are suited for diverse applications in semiconductor manufacturing equipment, inspection equipment, and medical equipment.

The high load capacity type is added to both series as a standard item for the expansion of the range of options.

The random matching of rails and ball slides is now available for quick delivery.



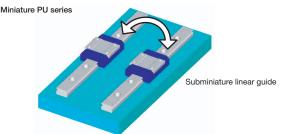


Features

- 1. The ball slide is fabricated to be approximately 20% lighter than that of existing miniature LU and LE series.
- 2. Newly designed ball-recirculation components facilitate smooth operation of ball slides.
- 3. A retainer prevents steel balls from dropping out of the ball slide for easy handling.
- 4. Now available in the random matching of rails and ball slides, which are respectively stocked for quick delivery.

NSK Linear Guides™: Miniature PU Series/PE Series

■ PU series and PE series



■ Product lineup of PU and PE series

The high load capacity type is added for the enhancement of the series.

							Unit: mm
Series	Size	Rail width	Standard type		High load capacity type		Maximum rail length
	5	5	TR*	●☆	-	-	210
PU	7	7	AR	●☆	-	-	375
	9	9	TR	●☆	UR	0	600
	12	12	TR	●☆	UR	0	800
	15	15	AL	●☆	BL	0	1 000
	5	10	AR	●☆	-	-	150
	7	14	TR	●☆	-	-	600
PE	9	18	TR	●☆	UR	0	800
	12	24	AR	●☆	BR	0	1 000
	15	42	AR	●☆	BR	0	1 200

Existing type : Newly added type

☆: Random matching

*: Ball slide shape code

Wide rail type miniature PE series

Wide rail t
A single ra
system be

Wide rail type miniature linear guide
A single rail can be used for a linear guide
system because of high moment load capacity.

- Rolling direction: 3 to 4.1 times more than PU series.
 Pitching and yawing direction: 2.3 to 3 times more than PU series.
- High load capacity type

The high load capacity type has approximately 1.5 times more capacity than the standard type, and thus substantially extends the life of a guide way system. The high load capacity type has substantial load carrying capability in pitching and yawing directions, and thus suits for the application for a cantilever column that supports moment loads.

Basic dynamic load rating:

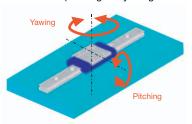
1.3 to 1.5 times more than the standard type

1.5 to 2.7 times more than the standard type

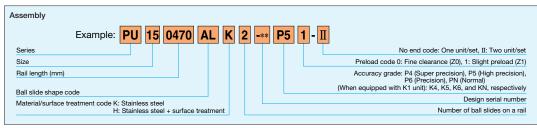
1.5 to 1.7 times more than the standard type

(Rolling direction)

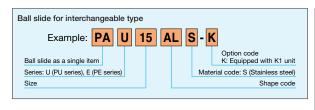
2.2 to 2.7 times more than the standard type (Pitching and yawing directions)

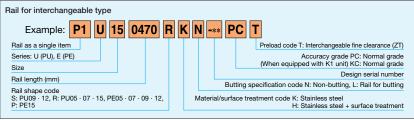


■ Reference number



*Please note that the appropriate design number will be assigned to the reference number, and the end code of (II) will be omitted.





Please refer to the catalog (CAT No. E3327) for details of the product.

■ Specification

Type of ball slides	Square type with ball retainer		
Preload	Z1 (Slight preload), Z0 (Fine clearance), ZT (Interchangeable fine clearance)		
Accuracy grade	P4 (Super precision), P5 (High precision), P6 (Precision), PN (Normal), PC (Interchangeable normal grade)		
Material	Martensitic stainless steel		

^{*}Replacing or adding ball slide is possible for the PC grade (Interchangeable type)

For more information about NSK products, please contact:-

-www.nsk.com

