

Selecting the right position indicator

Linear guides/lead screw tables can be assembled with supplementary accessories. In addition to hand wheels and clamps, analog position indicators are also available. A position indicator is used to display the location of the bearing in relation to the end block. It is typically offered with a 3-5 digit display (depending on the model).

igus® offers a mechanical analog position indicator for drylin® lead screw tables. The position indicator is used to create reproducible values, making format adjustments quick and precise. It features a plastic analog display for the adjustment and direct reading of the carriage position, and includes appropriate adapter sleeves in the supply.

How They Work:

Position indicators are attached to a linear slide with an adapter plate and are fixed to the lead screw using a set screw. Once assembled, the position indicator displays the linear travel per rotation of the drive shaft.

When to Use Them:

Position indicators are used for manually-operated applications that require repetitive positioning. They are used for all types of adjustment applications, including packaging and lab equipment that require manual repositioning.

Although position indicators are simple in design, selecting the correct model for your application is critical.

These are the questions that need to be considered when selecting a position indicator:

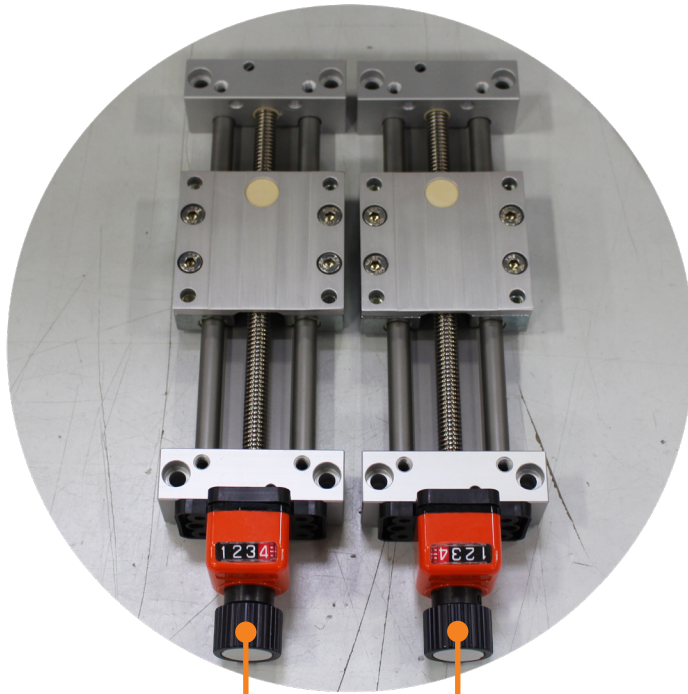
How is your slide oriented?

Knowing how your slide is oriented is one of the most important factors when selecting a position indicator. Slide orientation is one of the most common reasons engineers exchange their position indicators in for different models.



► drylin® SET EasyTube with position indicator

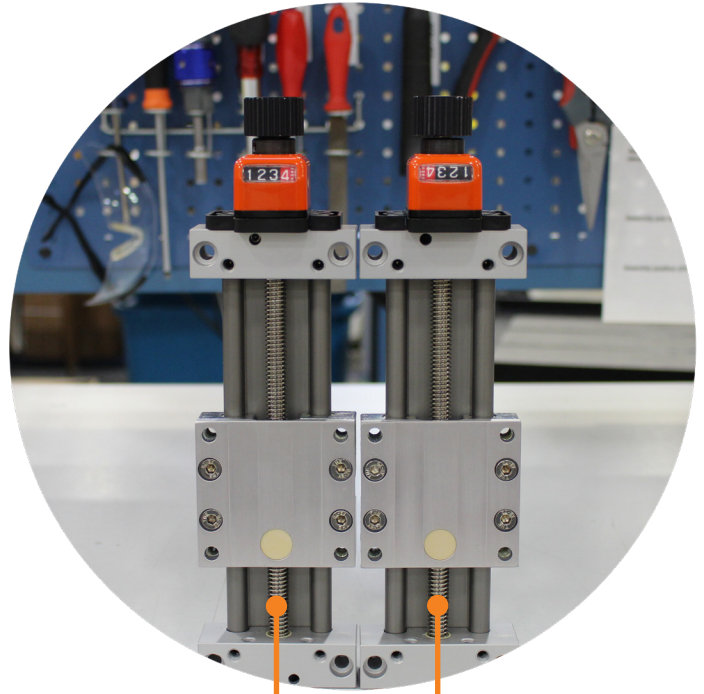
Horizontal orientation



View A

View B

Vertical orientation



View B

View A

View A
Standard



View B
180° turned



Position indicators assembled with view A are recommended for horizontal applications.

View B is recommended for vertical applications.

What counting direction do you require?

Clockwise
(Standard)



DX

Counter-
Clockwise



SX

DX versions are standard, in which the values increase with clockwise rotation.

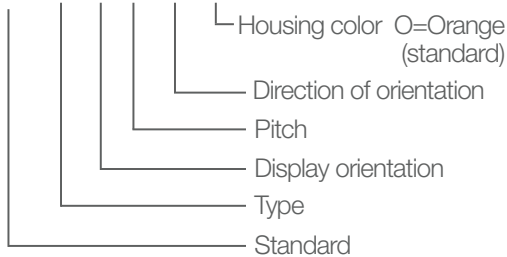
In SX versions, the values increase with counter-clockwise rotation.

What is the lead of the screw?

The lead of the screw and the position indicator selected determine the display on the screen after one rotation. igus® installs the appropriate indicator based on the lead of the screw.

Order key:

HTS-P3-A-2-DX-O



Pitch	For lead screw	Display on screen after one rotation	Type
1.25	M8x1.25	001.25	P1 ¹⁰³⁾
1.5	Tr8x1.5	001.5	P1 ¹⁰³⁾
2	Tr10x2	002.0	P3 ¹⁰³⁾
3	Tr10x3; Tr12x3	003.0	P3 ¹⁰³⁾
4	Tr18x4; Tr14x4	004.0	P3 ¹⁰³⁾
5	Tr24x5	005.0	P3 ¹⁰³⁾
5	Tr26x5	005.0	P6 ¹⁰³⁾
6	Tr30x6	006.0	P6 ¹⁰³⁾
12	10x12	012.0	P3 ¹⁰³⁾
15	8x15	015.0	P1 ¹⁰³⁾
50	10x50	005.0	P3 ¹⁰³⁾
100	18x100	001.0	P3 ¹⁰³⁾

The pitch depends on the lead screw used.

¹⁰³⁾ P1: 3-digit, P3: 4-digit, P6: 5-digit

What assembly position do you require?

Assembly positions depend on the design of your application and where the indicator can be installed. Position indicators are assembled at 0 degrees, 90 degrees, 180 degrees or 270 degrees.

Assembly position 0°
vertical (standard)



P0

Assembly position 90°
lateral right



P90

Assembly position 180°
vertical (upside down)

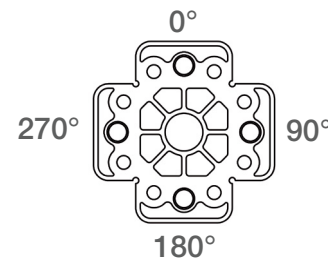


P180

Assembly position 270°
lateral left



P270



Configure a linear system:

With the [drylin® drive technology configurator](#), you can configure a linear system and find a solution that is tailored to your application. Calculate predicted service life, select a position indicator and receive an estimated delivery time, all in one place. CAD models can also be downloaded [here](#).