

A new idea for rotational and linear motions



TSUBAKI Pin Gear Drive Unit



Pin Gear Drive Unit

A drive unit for linear and rotational drives with various features

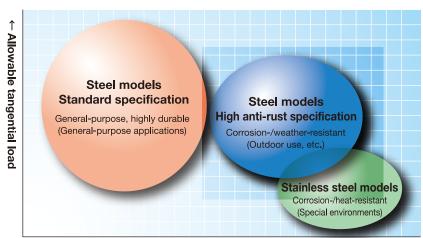
Tsubaki's Pin Gear Drive Unit replaces racks and gears.

Features

1

Extensive lineup

- Allowable tangential loads up to 525 kN and pitches from 20 to 240 mm
- Lineup includes high anti-rust models with surface treatment and stainless steel models

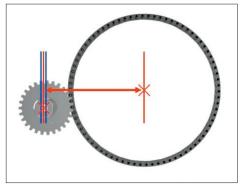


→ Corrosion resistance

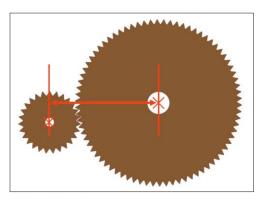
2

Easy to install and absorbs rattling

- Segmented structure ensures easy installation and replacement
- Rough mounting accuracy is made possible by utilizing backlash (approx. 10 times that of gears)
- Easy to transfer between racks
- Resists rattling and disengagement



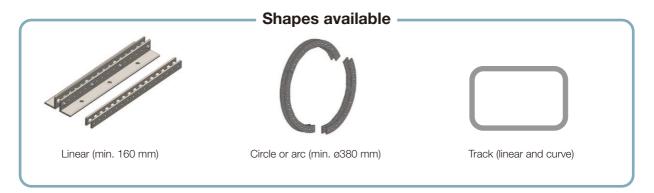
Pin Gear Drive Unit



Gear

Wide variety of layouts

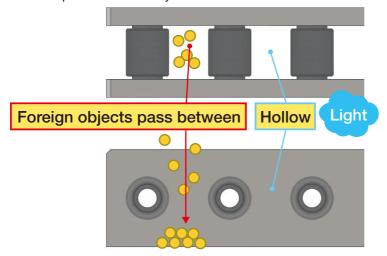
- Segmented structure allows for a wide range of sizes
- Can be used in various layouts including linear, curve, or composite forms





Structure with clearance

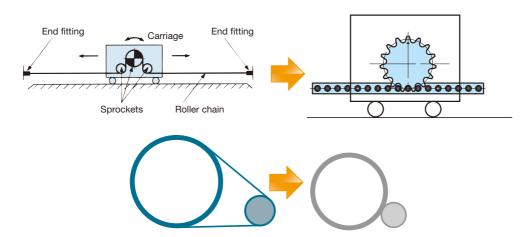
- Reduces biting of foreign objects and risk of emergency stoppage.
- Lighter than systems with racks, gears, or other components for reduced equipment weight and improved workability.



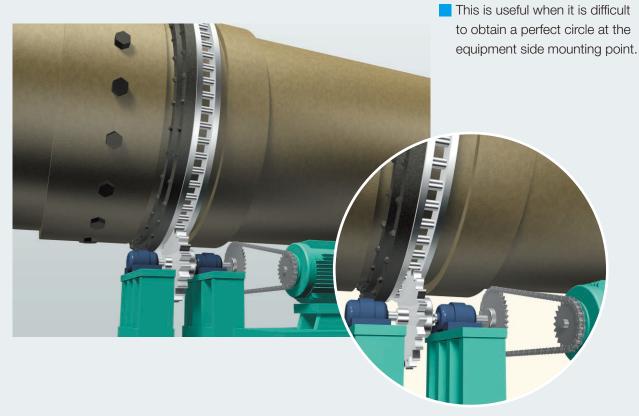


Space-saving

- Greater space savings than roller chain and sprocket systems
- Helps reduce part count



Allows rough mounting accuracy



Clearance in the width direction can be increased.

Key selling point

Structure with clearance

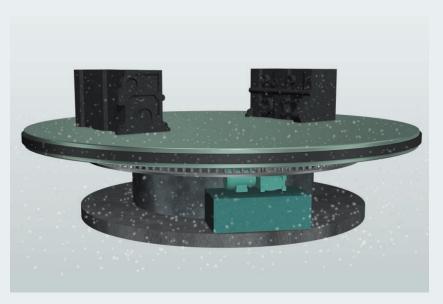
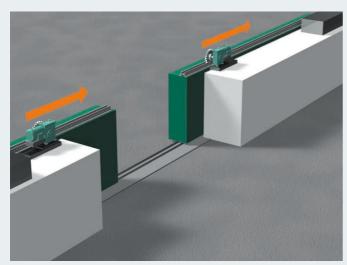


Table swiveling

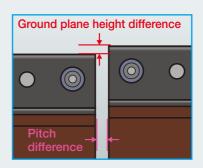
The clearance structure of the Pin Gear Drive Unit is helpful in dusty environments.

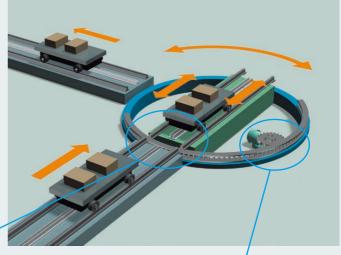
Resists rattling and disengagement

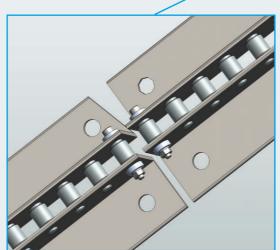
Movement between pin racks is smooth thanks to rough engagement.



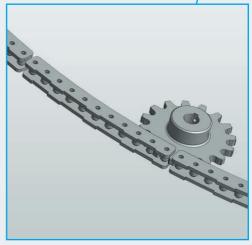
High anti-rust models and stainless steel models can be used outdoors.







This unit reduces the risk of interference between pin racks, including when installed on a turntable.



Segments can be provided with clearance to avoid accumulated pitch errors.

Please view it for more information.

https://www.youtube.com/watch?v=8xHAMISP0nk





^{*} A video introducing the features of the Pin Gear Drive Unit is also available.

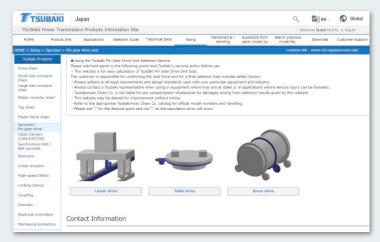


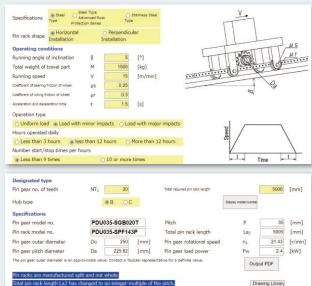
Tsubaki Power Transmission Products Information site https://tt-net.tsubakimoto.co.jp

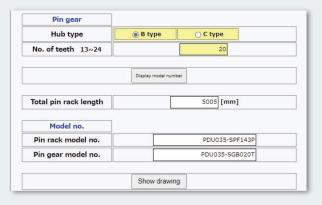
The site is designed to facilitate product selection and selection calculation, including drawings available for download in the drawing library.

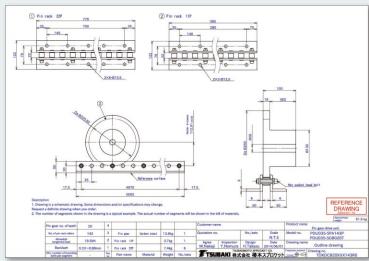
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