

A new concept for rotational  
and linear motions

**It's PDU**

**P**ingear **D**rive **U**nits

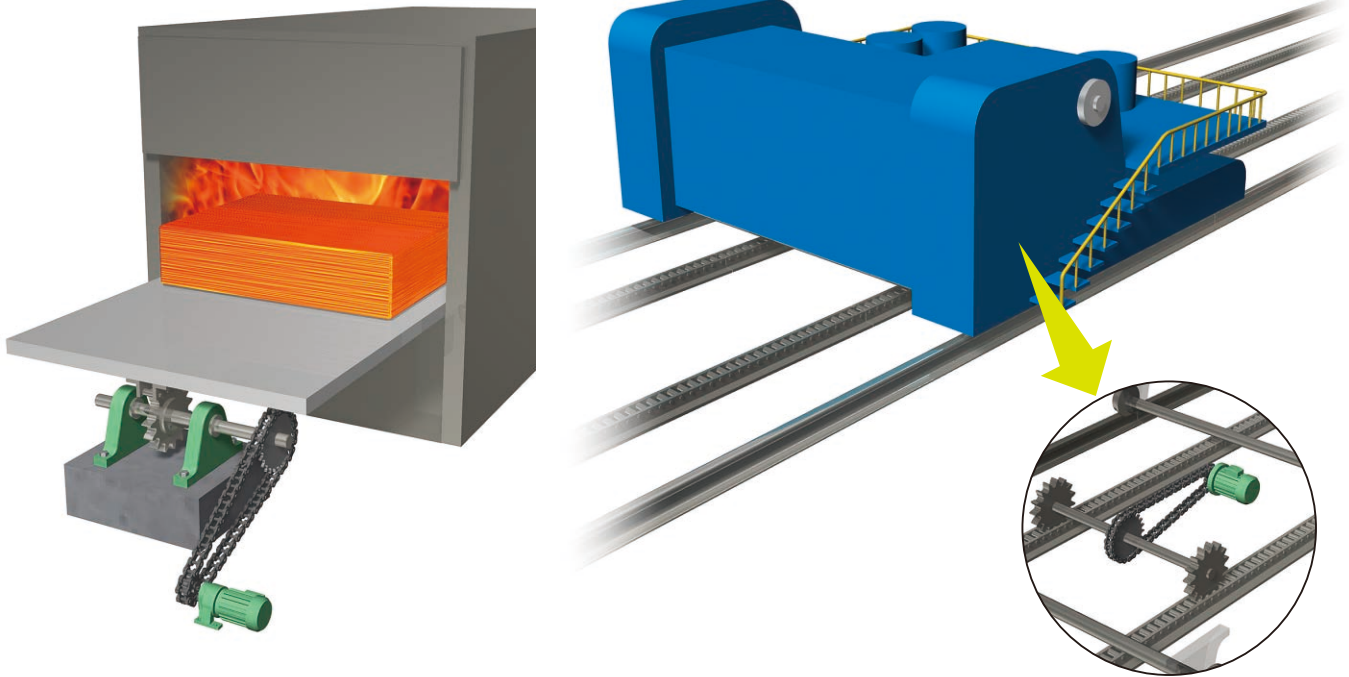


**TSUBAKI Pin Gear Drive Unit**



# 1 Large transmission force

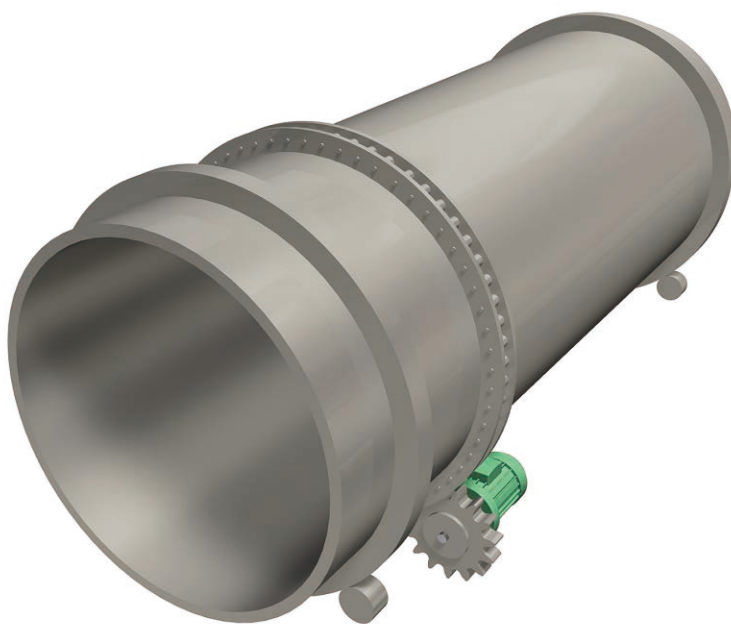
## Heavy load conveyor trolley



■ Widely used with industrial furnaces

■ Extensive experience in conveyance of heavy objects such as steel manufacturing equipment

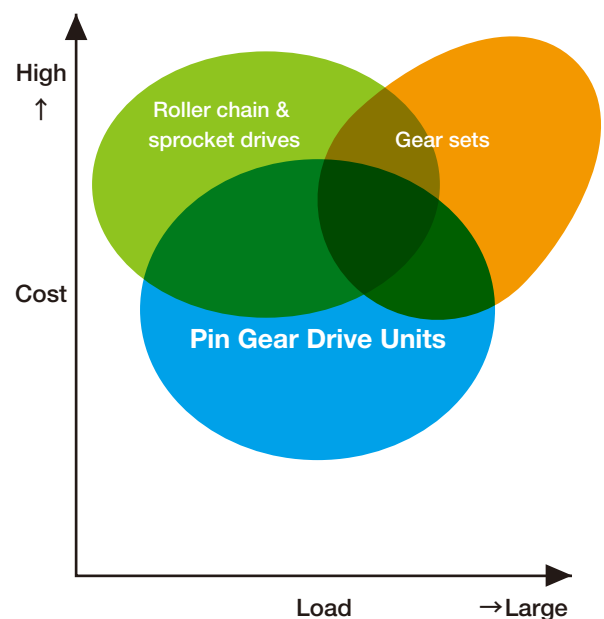
## Kiln cooler



■ Lower cost and quicker delivery than gear sets

■ Larger speed ratios at lower cost compared to roller chain and sprocket drives

## Comparison by mechanism



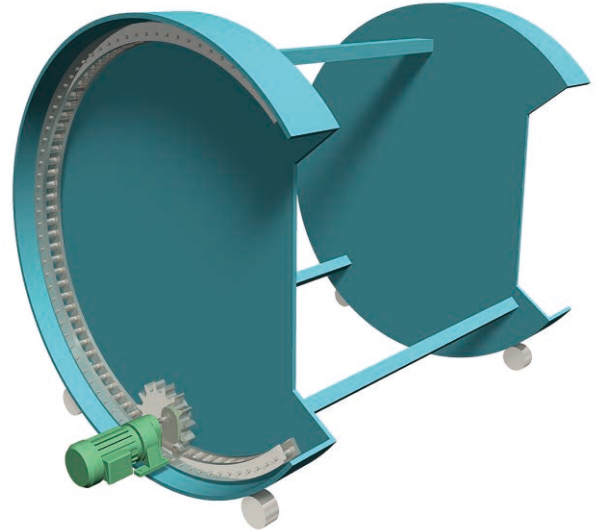
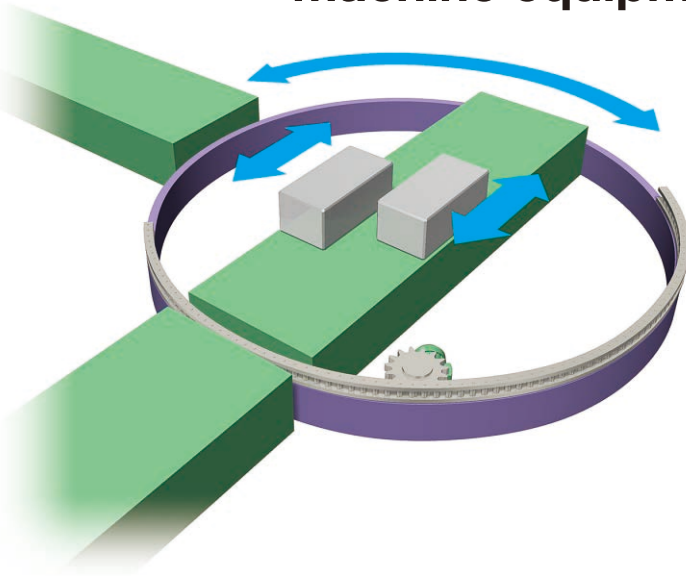
# 2

Separable segmented design allows for a wide variety of applications

## Turntable

## Reversing machine

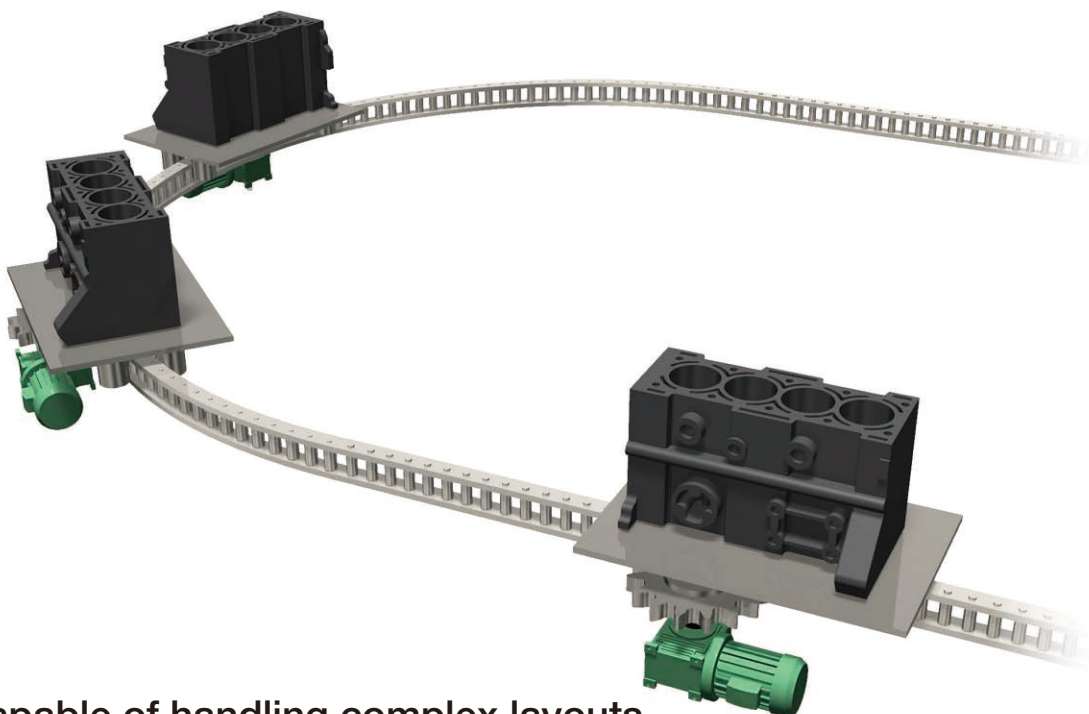
**Very useful for workpiece conveyance and automatic machine equipment applications**



- Separable segmented design allows only the required angles to be installed, resulting in lower cost compared to gear sets

- No need for tension adjustment, which is necessary for roller chain and sprocket drives
- Inner rotary drive allows for compact design

## Combination of straight and curved lines



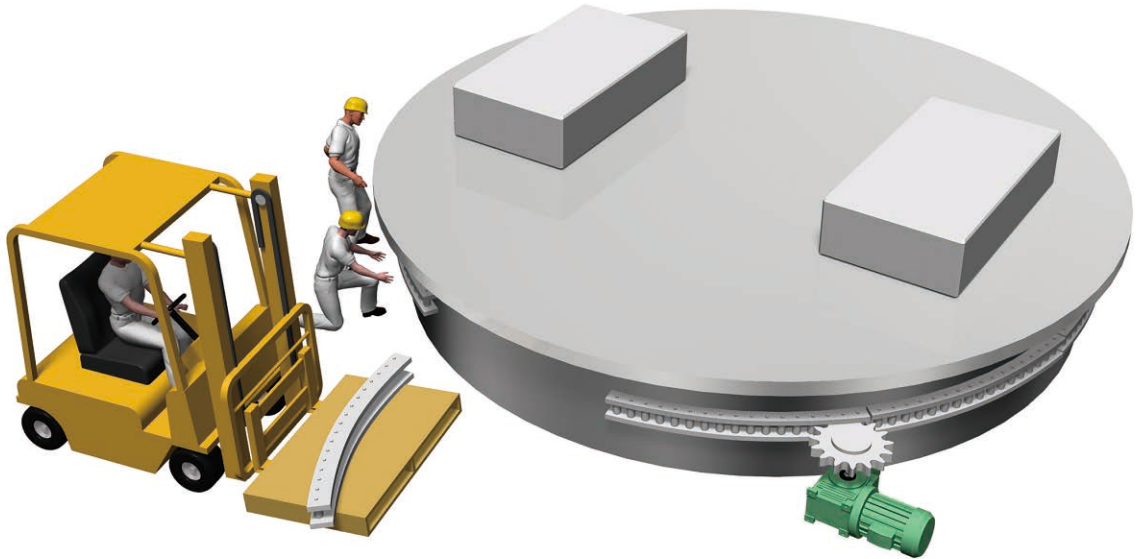
- Capable of handling complex layouts  
Enables novel solutions



# 3 Easy to install

## Large diameter swiveling table

### Separable segmented design improves installation workability



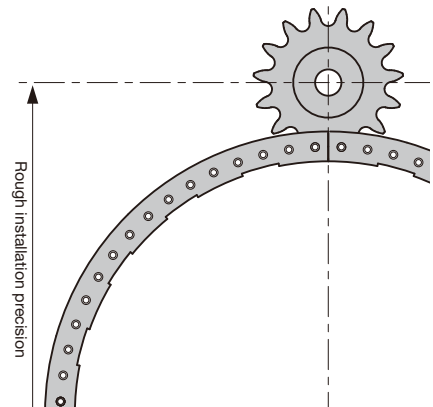
- Lower cost, quicker delivery, and lighter weight than gears with slewing bearings
- Reliable transmission without slippage compared to roller drives

## Equipment maintenance

- Easy assembly and disassembly on site



- Driving only requires rough mounting precision  
Easy setup during assembly



# 4 Wide variety of products

## Product information site

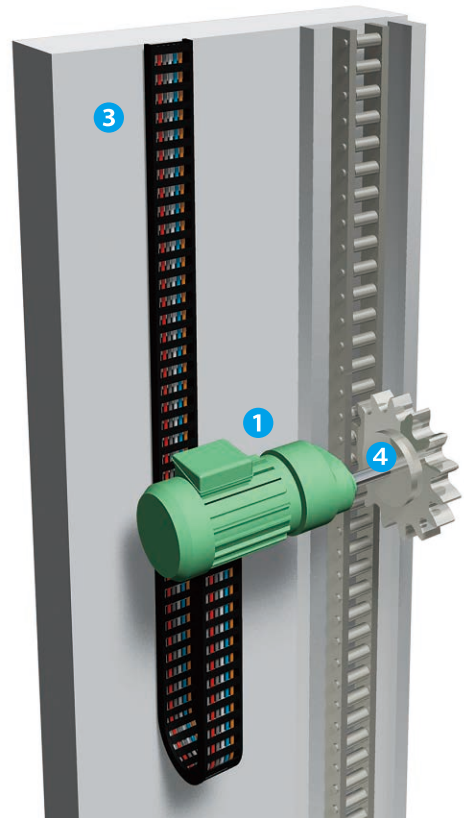
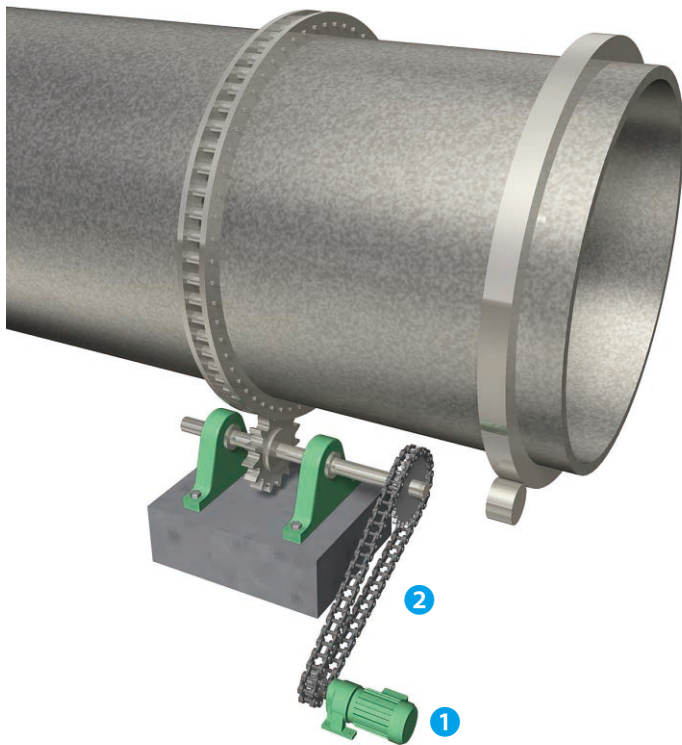
### Tsubaki Power Transmission Products Information site

This site provides information about power transmission products.

In addition to product information, you will also find application examples, selection calculations, and other information to help you selecting products.



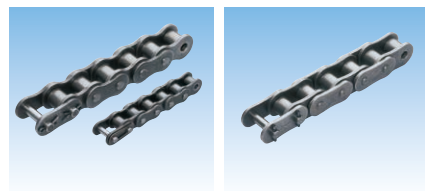
<https://tt-net.tsubakimoto.co.jp>



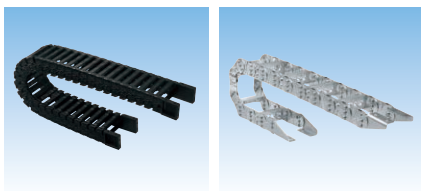
1 Reducer



2 Drive chain



3 Cable carrier



4 Power Lock



# 5 Selection

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.



HOME > Sizing > Sprocket / Pin gear drive > Pin gear drive unit

<b>Pin gear</b>	
Hub type	<input checked="" type="radio"/> B type <input type="radio"/> C type
No. of teeth	13~24 <input type="text" value="20"/>
Display model number	
Total pin rack length	<input type="text" value="5005"/> [mm]
<b>Model no.</b>	
Pin rack model no.	<input type="text" value="PDU035-SPF143P"/>
Pin gear model no.	<input type="text" value="PDU035-SGB020T"/>
Show drawing	

Description		Customer name		Product name	
Pin gear no. of teeth	20	4		Pin gear drive unit	
No. of pin-rack teeth	143	3	Pin gear	Carbon steel	13.8kg
Pin rack	22P	1	Pin rack	11P	3.7kg
Standard	19.5AN	1	Pin rack	22P	7.4kg
Standard	0.33~0.58mm	1	Pin rack	11P	2.4kg
No. of rollers	-	1	Pin rack	22P	2.4kg
Weight	-	1	Pin rack	11P	2.4kg



TSUBAKIMOTO CHAIN CO. Kyotanabe Plant 1-1-3 Kannabidai, Kyotanabe, Kyoto 610-0380 Japan

The Tsubaki Eco Link logo is used only on products that satisfy the standards for environmental friendliness set by the Tsubaki Group.

Website <https://www.tsubakimoto.com>

The logos, brand names, or product names in this pamphlet are trademarks or registered trademarks of Tsubakimoto Chain Co. in Japan and other countries.