

Sprockets, Chains

Sprockets Chains



Product Name	Standard Roller Chains	Joint Links, Offset Links	Standard Sprockets - 11B, 15B Series	25B Series	35B Series	40B Series
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50B Series	60B Series	80B Series	Double Sprockets	Keyless Sprockets	Double Pitch S	Joint Links
1540	1541	1542	1542	1543	1544	1544



Chains with Attachments	Joint Links	Engineering Plastic Block Chains - Single Strand	Engineering Plastic Block Chains - Double Strand	Sprockets for Engineering Plastic Block Chains - Double Strand	Double Speed Chains	Double Speed Sprockets
1545	1545	1546	1546	1546	1547	1547



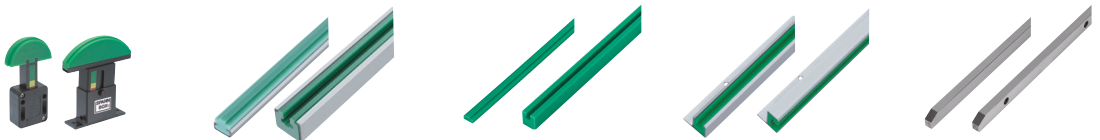
Aluminum Extrusions for Double Speed Chains	Return Guides	Table Top Conveyor Chains	Idler Sprockets	Idler Sprockets with Hub	Small Idlers	Idler Pins
1548	1548	1549	1550	1551, 1552	1552	1553



• Idler is optional.

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Tensioner Units with Idler	Tensioner Units	Tensioners - Link Bar Type	Slide Plates for Tension	Chain Tensioners - Idler Set Type
1554	1555	1556	1556	1557



Chain Guide Tensioners	Chain Guides with Steel Frame - Raised Track, Channel	Raised Track, Channel	Flanged	Steel Chain Guides
1558	1559	1559	1560	1560



Turnbuckles	Turnbuckle Components	Idler Sprockets with Hub	Idler Sprockets with Hub
1561	1562	1550	1551

Sprockets / Chains - Overview

All the specifications for Sprockets
/ Chains are compliant with
JIS A Series - Class 1.

What are a Sprocket / Chain?

It is the mechanical part intended to transmit the driving force as tensile strength by engaging the serrations of a sprocket with the roller of a chain.

This is used mainly for the following two types of application: for transmitting the driving force through the connected motor and for conveying workpieces by loading them directly or indirectly onto a chain. When combining a chain and sprocket, make sure that they are identical in specifications and sizes.

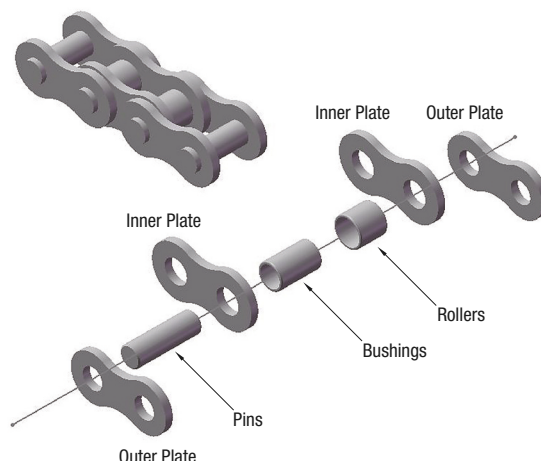
Benefits of selecting chains

Long Distance Transmission : Enables transmission of the driving force at the level of several meters.

Transmission Force : Has a high allowable tension and thus, can convey a heavy workpiece.

Price : Enables more economical designs than when belt-based transmission is adopted.

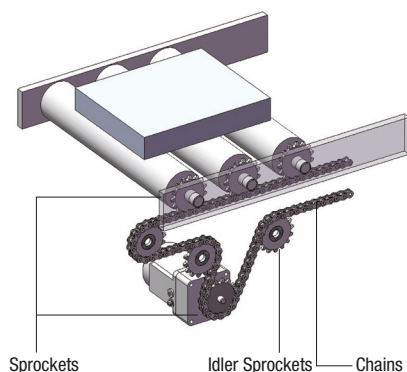
Chain Components



App. Example

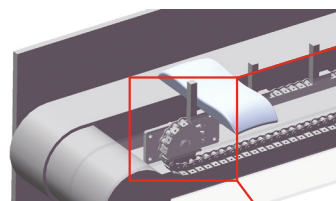
For transmission

Mechanism intended to convert the driving force of a motor into rotation of a roller.



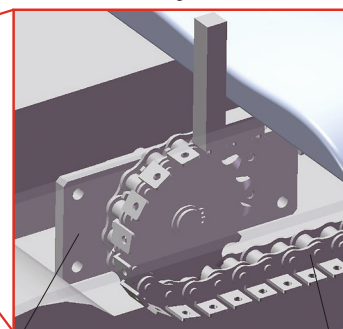
For transfer

Mechanism by which the attachment is mounted on a chain to facilitate a workpiece to be pushed out for conveyance.



*A chain is driven between two flat belts aligned with each other.
This mechanism is used to facilitate a workpiece to be conveyed at regular intervals in portions where the guide is the most likely to hook such a workpiece.

Enlarged View



Tensioner Units (TNSR)

When applying tension through the idler, the tension can be adjusted easily by using the adjustment screw.

Chains with Attachments (CHL)

A bracket can be served as the protrusion intended to catch a workpiece by vertically mounting it onto the attachment.

Products needed to design Sprockets / Chains

Name	Sprockets	Chains	Idlers	Accessory
Photo				
Description	By engaging with a chain, transmits a driving force.	By working with rotation of a sprocket, transmits a driving force.	Sprocket with a bearing integrated. Can retain tension of a chain and, thus prevents the chain from generating vibration or noise and the sprocket part from malfunctioning in engagement.	Reduces the time and trouble of doing maintenance for chain stretch.
Features of MISUMI Product	Since this product has keyway and tap hole already machined, it can be assembled with other parts immediately after arrival. In addition, by focusing upon a scenario where any more keyways and tap holes need to be added, the Pilot Hole Type is also released.	A variety of products, such as lubrication-free chains for driving force transmission, chains with attachments for transfer and plastic chains, is offered.	Various types are available, including the Double Bearing Type for heavy load and the Small Type mountable even on limited spaces.	A variety of tools dedicated for designing chain guides or chain hanging mechanism units hard to manufacture in inner production environments is provided to help the customers reduce their time and costs of the said inner production.
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