

Sprockets / Chains

Overview

Sprockets, Idler Sprockets

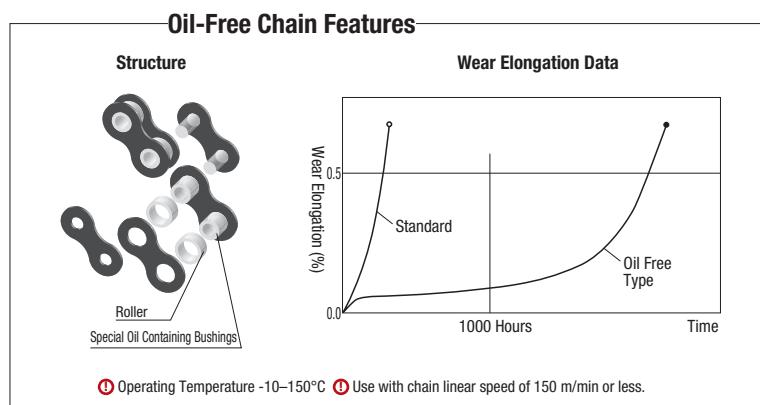
Sprockets with machined bores. Idlers with embedded bearings.

Sprockets		Idler Sprockets		
Standard Sprockets P.1511-1517	Keyless Sprockets P.1518	Idler Sprockets P.1525	Idler Sprockets with Hub P.1527-1528	Small Idlers 1528
Sprockets with shaft bore and keyway. Sizes 11B-80B are available.	Sprocket which doesn't require machining to shafts. Easy phase matching. 35B and 40B are available.	Idler Sprockets for tension adjustments. Available in Steel, Stainless Steel and Nylon 6.	Bearings are built-in on both sides of general purpose sprockets. Suitable for adjusting tension on driving side.	Tooth-less Idler usable in space limited areas.

Chains

A wide selection of Chains are offered for the purposes of both driving force transmission and transfer.

Roller Chains	
Standard Chains P.1511-1517	Oil-Free Chains P.1514-1516
The most widely used Roller Chains. Sizes 11B-80B are available.	Roller Chains with special oil-impregnated bushings provides self-lubrication and reduces service intervals.



Small Conveyor Chains		Plastic Chains		
Double Pitch Chains P.1519	Chains with Attachments P.1520	Double Speed Chains P.1521	Engineered Plastic Block Chains P.1523	Top Chains P.1524
Twice longer pitches than those of general roller chains. Flat plate enables direct mount for transfer.	General Roller Chains come with Attachment, suitable for short distance transfer.	Pallets can be transferred at a speed of 2.5 times faster than chains. Suitable for Free Flow Conveyors.	Made with blocks smaller in width. Suitable for conveyance of small work pieces. Possible to convey pallets when used in parallel.	Work-pieces are directly placed on flat and wide plates to transfer. Suitable for bulk transfers.

Related Components

Wide variety of tensioners and guides for chain mechanism are available.

Tensioners		Chain Guides		Others
Slotted Holes, Adjusting Screws Type P.1529	Link Bar Type P.1530	Plastic Type P.1533-1534	Steel Type P.1534	Turnbuckles P.1535
Idler is optional.	Idler is optional.	Chain Guides consist of UHMW with low friction coefficient. The length is configurable. Mounting holes can be machined.	Chain Guides are hard chrome plated suitable for usage where heavy load is applied.	Used for adjusting chain tension. Long type added for more adjustment allowance.

Sprockets / Chains

11B / 15B Series

Features: The Pilot Hole Type allows taps or keyways to be machined freely.

Sprockets - 11B / 15B Series

RoHS 10

Type	Material
SSP11B	303 Stainless Steel Equivalent
SP15B	1038 Carbon Steel Equivalent

Accessories: Set Screw (Only for shaft bore specifications [P] and [N])

Shaft Bore Specs. [S] (Pilot Bore) Shaft Bore Specs. [P] (Round Bore + Tap) Shaft Bore Specs. [P] (Round Bore + Tap) Shaft Bore Specs. [N] (New JIS Key + Tap)

① Set Screw (11B)
Number of Teeth 12-18: M3
20-48: M4

② Offset between tooth tip and keyway is ±0.5mm.

Part Number	Shaft Bore Specs.	Shaft Bore Specs.			Dp	Do	H	L	B	ε	Mass (g)	Available Types		
		S Specification (D _{int})	P Specification (D _{int})	N Specification (D _{int})								S Specification	P, N Specification	
SSP11B	S	12	5	5	14.475	16.2	9.4	10.5	1.6	4	19	6	•	•
		15	5	5 6	18.02	19.9	13					12	•	•
		16	5	5 6 8	19.204	21.1	14					14	•	•
		18	6	6 8	21.575	23.5	16					18	•	•
		20	8	8 10	23.949	25.9						23	•	•
		24	8	8 10	28.703	30.7						26	•	•
		28	8	8 10	33.462	35.5						29	•	•
		30	8	8 10	35.842	37.9						30	•	•
		34	8	8 10	40.604	42.7						38	•	•
		36	8	8 10	42.986	45.1						41	•	•
40	8	8 10	47.751	49.8		47	•	•						
48	8	8 10	57.283	59.4		61	•	•						
SP15B	S	11	5	5	16.9	19	11	10	4	4	10	9	•	•
		12	5	5 6	18.4	20.5	12					10	•	•
		13	5	5 6 8	19.9	22	14					14	•	•
		14	8	8	21.4	23.5	15					17	•	•
		15	8	8	22.91	25	17					22	•	•
	P	16	10	10	24.41	26.5	18	23	•	•				
		17	10	10	25.92	28	20	32	•	•				
		18	10	10	27.43	29.5	22	40	•	•				
		20	10	10	30.44	32.5	24	49	•	•				
		24	10	10	36.49	39	30	88	•	•				
		26	12	12	39.51	42	33	104	•	•				
		28	12	12	42.54	45	37	131	•	•				
		30	12	12	45.56	48	39	147	•	•				
		33	12	12	50.1	52.5	40	178	•	•				
		35	12	12	53.13	55.5	40	182	•	•				

Shaft Bore Machining Dimension Table (15B)

Shaft Bore Dia. D	Keyway b _x t _k	Set Screw M
5, 6	—	3
8	—	4
10	3x1.4	4
12	4x1.8	5
15	5x2.3	6
16	5x2.3	6



Part Number Example

Part Number	Bore Specification	Shaft Bore Dia.
SSP11B15	P	6
SP15B20	S	10

③ Shaft bore tolerance of S/P5 to S/P6 is H8.

Chains - 11B / 15B Series

RoHS 10

Type	Material
CHES11	304 Stainless Steel
CHE15	Steel

CHES11

*The last link is the Joint Link.

CHE15

*The last link is the Joint Link.

Number of Links Configurable

Part Number	Number of Links (Specify Even Number)	Maximum Allowable Tension (kN)
CHES11	4~	0.05
CHE15	4~	0.39

Unit Type

Part Number	Maximum Allowable Tension (kN)
CHES11-U (134 Links, Circum. Length 502 mm)	0.05
CHE15-U (210 Links, Circum. Length 1,000 mm)	0.39

(1) Specify links by even numbers. (One joint link included)

(2) A roller chain longer than the unit length (number of unit links) is divided into separate packages per unit Ex.) CHES11-200, 2 separate packages: 134 links + 66 links.



Part Number Example

Part Number	Number of Links
Number of Links Configurable CHES11	200
Unit Type CHE15-U	