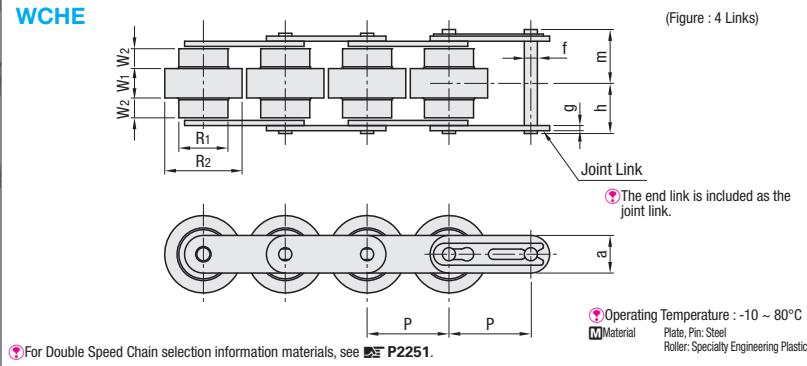
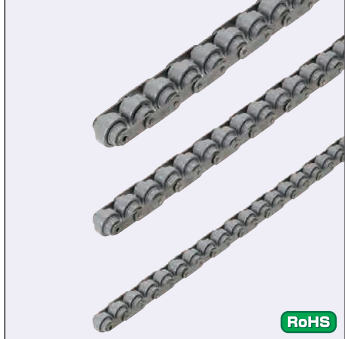


Double Speed Chains & Sprockets / Aluminum Extrusions / Return Guides

Features: Mixed structure of Small and Large Diameter Rollers enables a workpiece to be conveyed approx. 2.5 times faster than the chain speed. Suitable for free flow conveyors.

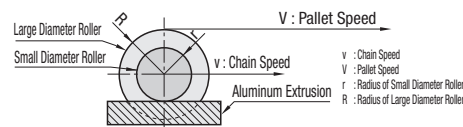
Double Speed Chains



Part Number Type	Nominal	Number of Links Specification (Specify Even Number)	Pitch		Roller				Plate			Pins			Max. Allowable Tension (kN)	Speed Multiplier	Approx. Mass kg/m	Unit Number of Links
			P	P	R ₁	R ₂	W ₁	W ₂	a	g	f	h	m					
(Chain) WCH2	3	4~550	19.05	11.91	18.3	7.0	4.1	8.8	1.2	3.28	11.2	12.95	0.55	2.54	0.4	160 (Circumference Length 3,048mm)		
	4	4~410	25.40	15.88	24.6	9.0	6.0	11.7	1.5	3.97	15.2	16.75	0.88	2.55	0.8	120 (Circumference Length 3,048mm)		
	5	4~350	31.75	19.05	30.0	11.4	7.0	14.6	2.0	5.08	19.45	20.90	1.37	2.57	1.3	96 (Circumference Length 3,048mm)		

Part Number Type	Nominal	Unit Price 1 ~ 2 pc(s).		Cutting Charge (+ Unit Price)
		Number of Links less than 1 Unit	Number of Links 1 Unit or More	
(Chain) WCH2	3	120 x Number of Links	100 x Number of Links	
	4	120 x Number of Links	100 x Number of Links	
	5	150 x Number of Links	130 x Number of Links	

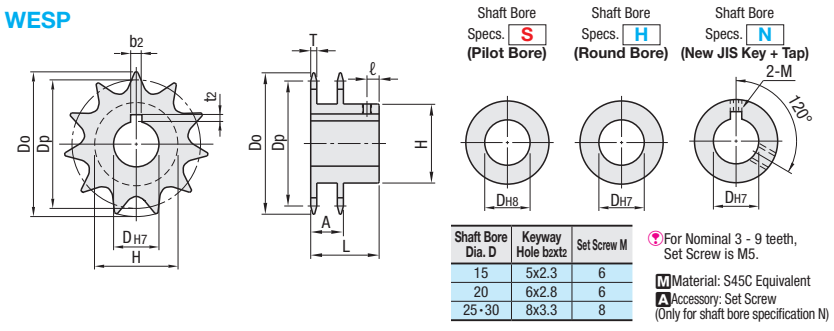
Principle of the Double Speed Chains



When a chain runs at v speed, circumferential velocity of the small diameter roller is v . At this time circumferential velocity of the large diameter roller becomes $(R/r) \cdot v$ due to ratio of radius.
Therefore, Pallet Speed V becomes a value that chain speed v and $(R/r) \cdot v$ are combined.
 $V = (R/r) \cdot v + v$
 $= (R/r + 1) \cdot v$
Since the ratio of radius of the large diameter roller and the small diameter roller is approximately 1.5:1
 $V = (1.5 + 1) \cdot v$
 $= 2.5v$

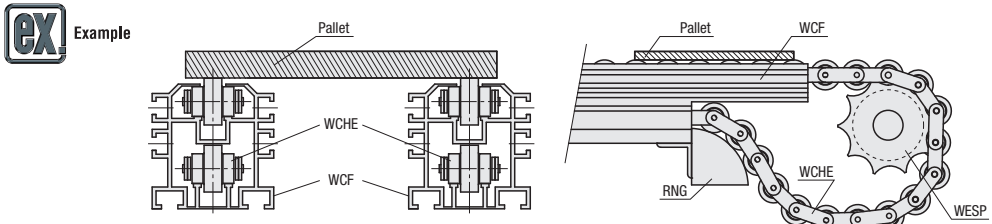
No cutting charge when placing orders by Unit Number of Links.
Ordering Example: Part Number **WCH2** - Number of Links **200**

Double Speed Sprockets

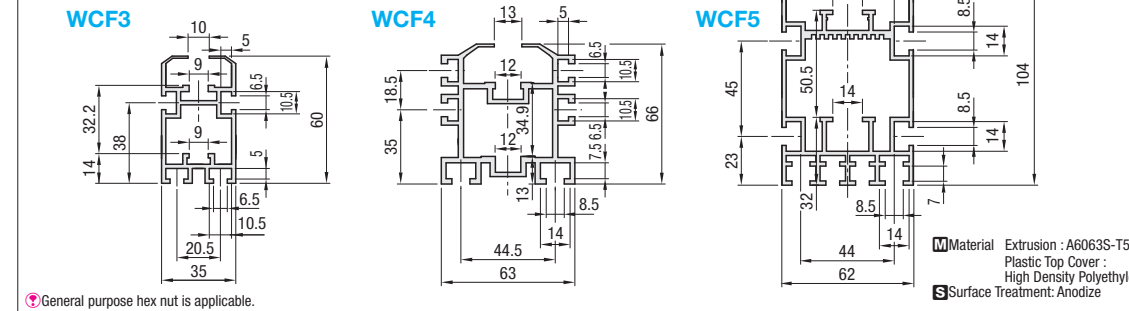
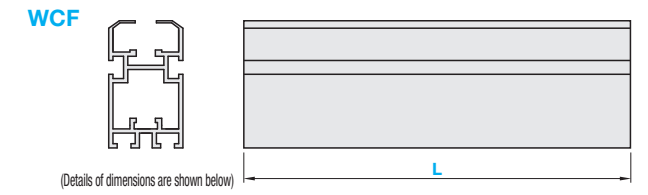
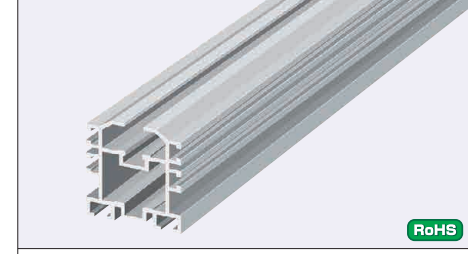


Part Number Type	Nominal	Number of Teeth	Shaft Bore Dia.			D _p	D _o	T	H	L	l	A	Unit Price 1 ~ 10 pc(s).
			S Specification (D _{H7})	H Specification (D _{H7})	N Specification (D _{H7})								
(Sprocket) WESP	3	9	14	15 20	15 20	55.70	63	3	33	22	4	15.3	
	4	10	14	15 20	15 20	61.65	68	3	37	25	5	15.3	
	5	10	19	20 25	20 25	82.20	93	4	52	40	8	21.5	

Ordering Example: Part Number **WESP3** - Number of Teeth **10** - Shaft Bore Specifications, ID. **H15**



Aluminum Extrusions for Double Speed Chains



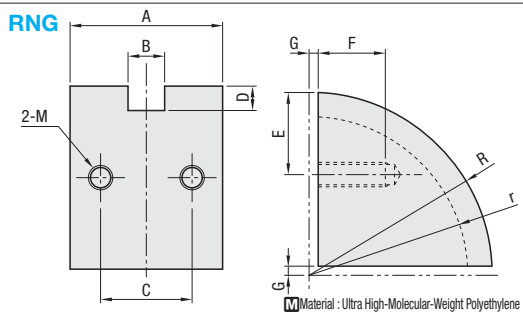
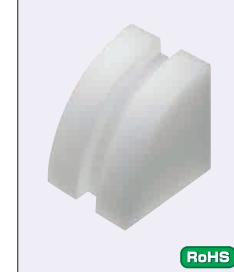
General purpose hex nut is applicable.

Part Number Type	Nominal	L 10mm Increment	Approx. Mass kg/m	Unit Price /m	Ordering Example
WCF	3	500~3000	1.39		WCF3 - 1000
	4		2.49		
	5		3.17		

Alterations: Part Number **WCF3** - L **1000** - (FLC, FRC, YA, YB, ZA, ZB) **FLC**

Alterations Code	Extrusion Cut		Counterbore on the Side Slots																																
	FLC·FRC	YA, YB, ZA, ZB																																	
Spec.	The extrusion ends are cut.	Adds counterbored holes for nuts on desired positions of the side slots. Use YA or YB as the code intended to specify the distance from the left end (on Plane Y) and ZA or ZB as the code intended to specify the distance from the right end (on Plane Z).																																	
			<table border="1"> <thead> <tr> <th>Nominal</th> <th>X</th> <th>Y</th> <th>S</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>210</td> <td>80</td> <td>25</td> </tr> <tr> <td>4</td> <td>300</td> <td>100</td> <td>25</td> </tr> <tr> <td>5</td> <td>340</td> <td>120</td> <td>45</td> </tr> </tbody> </table>	Nominal	X	Y	S	3	210	80	25	4	300	100	25	5	340	120	45	<table border="1"> <thead> <tr> <th>Part Number</th> <th>Holes</th> <th>Machine</th> <th>Applicable Mat. (US Class 1)</th> </tr> </thead> <tbody> <tr> <td>WCF3</td> <td>Ø12</td> <td>M6 or M5</td> <td></td> </tr> <tr> <td>WCF4</td> <td>Ø12</td> <td>M6 or M5</td> <td></td> </tr> <tr> <td>WCF5</td> <td>Ø16</td> <td>M8</td> <td></td> </tr> </tbody> </table>	Part Number	Holes	Machine	Applicable Mat. (US Class 1)	WCF3	Ø12	M6 or M5		WCF4	Ø12	M6 or M5		WCF5	Ø16	M8
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Return Guides



Part Number Type	Nominal	A	B	C	D	E	M	r	R	F	G	Unit Price
RNG	3	34	9	22	6	31	M6	54	60	25	3	
	4	50	12	30	8	30	M8	52	60	25	3	
	5	44	14	20	10	52	M8	54	64	25	3	

Ordering Example: Part Number **RNG3**

Alterations: Part Number **RNG3** - (SET) **SET**

Alterations Code	Bracket Set																																								
	SET																																								
Spec.	Bracket set is shipped with Return Guide. (Ordering Code) SET																																								
	<table border="1"> <thead> <tr> <th>Nominal</th> <th>L</th> <th>F</th> <th>G</th> <th>d₁</th> <th>d₂</th> <th>S</th> <th>P</th> <th>Q</th> <th>t</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>34</td> <td>6.75</td> <td>6</td> <td>6.5</td> <td>6.5</td> <td>25</td> <td>18</td> <td>17</td> <td>3</td> </tr> <tr> <td>4</td> <td>60</td> <td>7.75</td> <td>15</td> <td>8.5</td> <td>8.5</td> <td>30</td> <td>20</td> <td>17</td> <td>3</td> </tr> <tr> <td>5</td> <td>62</td> <td>9</td> <td>21</td> <td>8.5</td> <td>8.5</td> <td>35</td> <td>24</td> <td>20</td> <td>4</td> </tr> </tbody> </table>	Nominal	L	F	G	d ₁	d ₂	S	P	Q	t	3	34	6.75	6	6.5	6.5	25	18	17	3	4	60	7.75	15	8.5	8.5	30	20	17	3	5	62	9	21	8.5	8.5	35	24	20	4
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