

Aluminum Extrusions / Return Guides for Double Speed Chains

Aluminum Extrusions for Double Speed Chains

WCF

(Details of dimensions are shown below)

WCF3 **WCF4** **WCF5**

Materials: Extrusion: 6063-T5 Aluminum Alloy
Plastic Top Cover: High Density Polyethylene
Surface Treatment: Anodize

ⓘ General purpose hex nut is applicable.

Type	Part Number		L 10 mm Increment	Approximate Mass kg/m
	Nominal			
WCF	3		500-3000	1.39
	4			2.49
	5			3.17

Part Number Alterations Part Number - L - (FLC, FRC, ZA, ZB)
WCF3 - 1000 - FLC

Part Number Example Part Number - L - (FLC, FRC, ZA, ZB)
WCF3 - 1000 - FLC

Alterations Code	Extrusion Cut		Side Groove Counterbore Holes																												
	FLC / FRC		YA / YB / ZA / ZB																												
Spec.	The extrusion edges are cut.		Add counterbore holes for nuts on specified locations of the side grooves. Specify the distance from the left end face with YA, YB (Y side), and ZA, ZB (Z side).																												
	<p>FLC (For driving side) FRC (For driven side)</p> <p>Ordering Code: FLC, FRC ⓘ L-X-Y ≥ 10</p>	<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> <p>Example</p>	Nominal	X	Y	S	3	210	80	25	4	300	100	25	5	340	120	45	<table border="1"> <thead> <tr> <th>Type</th> <th>Machined Hole</th> <th>Applicable Nut</th> </tr> </thead> <tbody> <tr> <td>WCF3</td> <td>Ø12</td> <td>M6 or M5</td> </tr> <tr> <td>WCF4</td> <td>Ø12</td> <td>M6 or M5</td> </tr> <tr> <td>WCF5</td> <td>Ø16</td> <td>M8</td> </tr> </tbody> </table> <p>1mm increments Ordering Code: ZA150 ZA100-ZB250 ⓘ ZA ≥ 10 ⓘ L-YA, L-ZA ≥ 10 ⓘ L-YB, L-ZB ≥ 10 ⓘ YB-YA, ZB-ZA ≥ 10</p>	Type	Machined Hole	Applicable Nut	WCF3	Ø12	M6 or M5	WCF4	Ø12	M6 or M5	WCF5	Ø16	M8
Nominal	X	Y	S																												
3	210	80	25																												
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Return Guides

RNG

Material: Ultra High-Molecular-Weight Polyethylene

Part Number		A	B	C	D	E	M	r	R	F	G
Type	Nominal										
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

Part Number Example Part Number - RNG3

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

Alterations Bracket Set

Code SET

Bracket set is shipped with Return Guide.
Ordering Code: SET

Material: 6063 Aluminum Alloy T5

Nom.	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	10.5	30	20	17	3
5	76	10.25	20.5	8.5	10.5	35	24	17	4

Engineered Plastic Block Chains 2-Row, Dedicated Sprockets / 1-Row Type

Engineered Plastic Block Chains – 2-Row, Dedicated Sprockets

CHEES

Shaft Bore Specifications (New JIS Key+Tap)

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

Material: 1045 Carbon Steel or Equivalent
Surface Treatment: Bright Chromate Plating

Part Number	Do	P.C.D.	Root Diameter DB	No. of Teeth	Reference Mass (kg)
CHEES	20	68	65.1	16	0.6
	25				
	30				

Specifications of Shaft Bore N Machining

Shaft Bore Dia. d	Keyway b ₂ x t ₂	Set Screw M
20	6 x 2.8	6
25	8 x 3.3	8
30	8 x 3.3	8

ⓘ Set screws are included.

Part Number Example Part Number - CHEES20

Features: Use the products in environments where workpieces must not be tainted with chain oil or must not be damaged. Generally, they are used for conveying cans, etc.

Engineered Plastic Block Chains – 1-Row Type

CHEED General Use
CHEEC Conductive
CHEEH Heat Resistant
CHEEY Chemical Resistant

(Figure: 3 Links)

ⓘ Chains only bend in the arrow direction but not in the opposite direction.

Engineered Plastic Block Chains – 2-Row Type

CHEE General Use

ⓘ Select CHEES as sprockets.

(Figure: 3 Links)

ⓘ Chains only bend in the arrow direction but not in the opposite direction.

ⓘ The pin shape of CHEE is changed from Round to D.

ⓘ Part Number CHEEP60 is changed to CHEED60. Pin Shape: from Round to D.
ⓘ Since the bending angle of chain is predetermined, specify the mating sprocket with the number of teeth: 14 or more.

Part Number Example Part Number - Number of Links
CHEEP40 - 250
CHEE - 300

Part Number	Number of Links	Number of Rows	Usage	Color	Allowable Tension (N)	Allowable Chain Speed (m/min)	Coefficient of Sliding Friction f ₁	Reference Mass (kg/m)	Operating Temp. (°C)	Pitch	C	W	H	h ₁	h ₂	Number of Links per Unit			
CHEED	40	4-	General Use	White	441	60	0.25	0.32	-5-65	12.7	7.95	20	12.7	6.7	6	240 (Circumference Length 3,048 mm)			
	882				0.72			19.05								12.7	30	17.3	8.8
CHEEC	40			Single	Conductive	Black		340	60		0.36	-2-80	12.7	7.95	20	12.7	6.7	6	240 (Circumference Length 3,048 mm)
CHEEH	40							440			100								0.36
CHEEY	40		2 Rows	General Use	White	250		60	0.36	-20-80	12.7	7.95		20	12.7	6.3	6.3	240 (Circumference Length 3,048 mm)	
CHEE	40					1270			0.55									-5-65	14.4

(1) When the ordered number of links exceeds the given number of links per unit, the qty. of links per unit and the extra qty. of links are packaged separately.
Ex.) For CHEE-300, 2 separate packages: 240 links x 1 unit + 60 links

Resistance Against Chemicals and Oils

Chemical Name	Spec. for General Use / Conductive Type		Specifications for Chemical Resistant Type
	CHEED	CHEEC	CHEEY
Acetone	○	○	×
Oil (Vegetable, Mineral)	○	○	○
Alcohol	○	○	○
Ammonia Water	○	○	○
Sodium Chloride	○	○	○
Hydrochloric Acid (2%)	×	×	×
Seawater	△	△	△
Oxygenated Water	×	○	○
Sodium Hydroxide (Sodium Hydroxide (25%))	○	○	○
Gasoline	○	○	○
Formic Acid	×	○	○
Formic Aldehyde	○	○	○
Citric Acid	△	○	○

Chemical Name	Spec. for General Use / Conductive Type		Specifications for Chemical Resistant Type
	CHEED	CHEEC	CHEEY
Chromic Acid	×	○	△
Acetic Acid	×	○	○
Carbon Tetrachloride	○	○	△
Sodium Hypochlorite	×	×	○
Nitric Acid (5%)	×	○	○
Potassium Hydrate	○	○	○
Soap Solution	○	○	○
Lactic Acid	○	○	○
Paraffin	○	○	○
Benzene	○	○	○
Iodine	×	×	×
Sulfuric Acid	×	×	×
Phosphoric Acid (10%)	×	△	△

Resistance Against Foods

Chemical Name	Spec. for General Use / Conductive Type		Specifications for Chemical Resistant Type
	CHEED	CHEEC	CHEEY
Whiskey	○	○	○
Milk	○	○	○
Vinegar	△	△	△
Soft Drinks	○	○	○
Beer	○	○	○
Fruit Juice	○	○	○
Water	○	○	○
Vegetable Juice	○	○	○
Wine	○	○	○

ⓘ CHEEH is intended for use in dry environments and cannot be used in wet environments where water is splashed.