

Roller Conveyor Overview



Roller Conveyor Length Configurable Type

-Roller Diameter 19mm Type-

CAD Data

Selection Method of Roller Conveyors

(1) Selection of Roller Width

Select a roller width according to an outer size of conveyed objects.

- Optimum width selection is "Object width + 50mm or more".
- If the objects to be conveyed are on pallets, it is acceptable for the roller width to be narrower than the object width as long as the objects do not come into contact with the conveyor frame.

(2) Selection of Roller Pitch

Roller pitch is determined by surface length and mass of conveyed object.

-When the conveyed objects have hard bottoms

When the objects have hard bottoms, such as steel, plastic etc., select a pitch that always supports the objects with more than 4 rollers (>3 pitches).

-When the conveyed objects have soft bottoms

When the objects have soft bottoms, such as cardboard and rubber etc., select a pitch that always supports the objects with more than 6 rollers (>5 pitches). In addition, make designed load per roller within the allowable values shown in the table below.

-When impact is generated upon loading

When impact is generated upon loading, impact load is 1.5~3 times larger than the usual load. Please select the conveyor with ample load capacity.

List of Strength per Roller

Roller Outer Diameter	Roller Strength (N)				
	W113	W213	W313	W413	W513
19.1mm	618	530	343	294	206
28.6mm	1236	1059	687	588	412
38.1mm	1342	1342	922	785	588

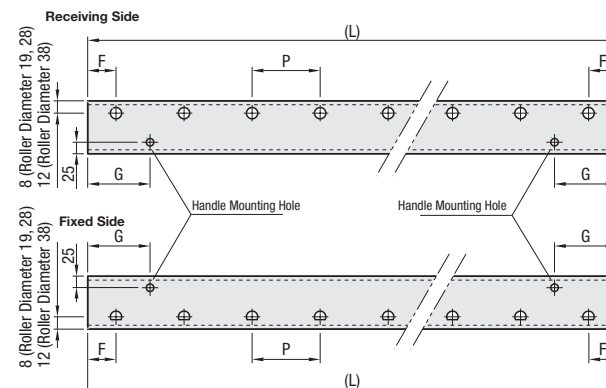
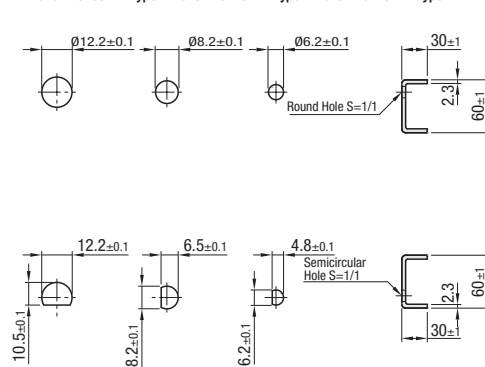
(3) Selection of Gravity Feed Inclination

When Roller Conveyors are installed at an incline, conveyed products move by own weights. This inclination is called gravity feed inclination. Gravity feed inclination varies depending on the condition of the bottom, material and a mass of the conveyed products.

- Refer to the right chart for selecting. The chart shows approximate values for flat bottom objects.

[Frame Side View]

Roller Dia. 38mm Type Roller Dia. 28mm Type Roller Dia. 19mm Type



Type	ROCO	ROCON	ROCOM	ROCOG	ROCOE ROCOJ	ROCOH
Frame Size	ø19xP20	ø19xP30	ø28xP30	ø28xP50	ø38xP50 ø38xP100*	ø38xP75
(L)	F	G	F	G	F	G
100~199	20	20	35	-	-	-
200~299	40	10	55	25	70	-
300~399	80	15	90	15	90	-
400~499	10	20	155	20	155	100
500~599	10	10	145	25	160	25
600~699	15	15	150	15	150	37.5
700~799	20	155	20	155	150	50
800~899	10	145	25	160	150	25
900~1000	15	150	15	150	150	37.5

* Holes for Roller Shafts are provided at 50mm pitch on ø38 x P100 frames.

Feature: Short roller conveyors 1m or less, with configurable width and length.

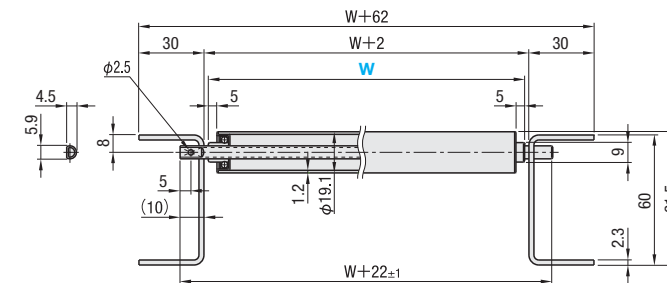


Roller Pitch		(1) Roller (HRO19)		Bearing	(2) Frame	
P=20	P=30	Material	Surface Treatment	Material	Material	Surface Treatment
ROCO	ROCON	Steel	Trivalent Chromate	Steel	Steel	* ZAM Plating

Roller Pitch		R Pin		Frame Coupling Support		Screw / Nut	
P=20	P=30	Material	Surface Treatment	Material	Surface Treatment	Material	Surface Treatment
ROCO	ROCON	Steel	Trivalent Chromate	Steel	Trivalent Chromate	Steel	Trivalent Chromate

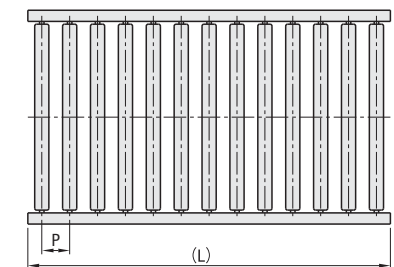
* ZAM Plating (Fused Plating of Zinc Aluminum Magnesium Type)

Roller Only



ROCO
ROCON

Roller Conveyor



Refer to the left page for Frame Side View.

Part Number	Type	Rollers Quantity	(L)		€ Unit Price Qty. 1 - 5									
			ROCO P=20	ROCON P=30	ROCON(P=30)									
			W113	W213	W313	W413	W513	W113	W213	W313	W413	W513		
6	(120)	(190)												
7	(140)	(200)												
8	(160)	(230)												
9	(180)	(260)												
10	(200)	(290)												
11	(220)	(330)												
12	(240)	(360)												
13	(260)	(390)												
14	(280)	(430)												
15	(300)	(460)												
16	(320)	(490)												
17	(340)	(500)												
18	(360)	(530)												
19	(380)	(560)												
20	(400)	(590)												
21	(420)	(630)												
22	(440)	(660)												
23	(460)	(690)												
24	(480)	(730)												
25	(500)	(760)												
26	(520)	(790)												
27	(540)	(800)												
28	(560)	(830)												
29	(580)	(860)												
30	(600)	(890)												
31	(620)	(930)												
32	(640)	-												
33	(660)	-												
34	(680)	-												
35	(700)	-												
36	(720)	-												
37	(740)	-												
38	(760)	-												
39	(780)	-												
40	(800)	-												
41	(820)	-												
42	(840)	-												
43	(860)	-												
44	(880)	-												
45	(900)	-												
46	(920)	-												
47	(940)	-												
48	(960)	-												

For orders larger than indicated quantity, please request a quotation.



Part Number - W
ROCO38 - 113
ROCON22 - 313



10 Days