

# Conveyor Rollers

## Core Material Type / Urethane Lined Type

# Conveyor Rollers / Sprocket Integrated Rollers / Plastic Conveyor Rollers

## Shaft & Roller Sets

For Motor Integrated Rollers, see P.1162. For dedicated shafts, see P.1165. For Shaft & Roller Sets, see the next page.

Core Material Type	Material		Surface Treatment	Bearing	Urethane Lined Type	Material		Hardness	Bearing
	Core	Wheel				Core	Lining		
HRO	STKM	Steel	Trivalent Chromate Plating	Pressed-in Bearings	HROU	Steel	Urethane (Natural Color)	Shore A90	Pressed-in Bearings
HROC			Hard Chrome Plating	Standard Bearing	HROH			Shore A70	Pressed-in Bearings
HROB (Silent Type)			Trivalent Chromate Plating	Standard Bearing	HROH			Shore A50	Standard Bearing
HROA	Aluminum	Steel	Clear Anodize	Pressed-in Bearings	HROBU (Silent Type)	STKM		Shore A90	Standard Bearing
HROS	SUS304	SUS304	-	Pressed-in Bearings	HROSU	SUS304	SUS304	Shore A90	Pressed-in Bearings

\*1. HROB and HROBU :  $d_{-0.008}^0$   
 \*2. Collar part of HROB and HROBU is plastic (Nylon 6).  
 \*3. Urethane is fusion bonded for the Lined Type.

Part Number Type	No.	L Selection	G Selection	D	a	d	(d1)	t	* Roller Strength for Reference (N)						
									L113	L163	L213	L263	L313	L413	L513
HRO Urethane Lined Type	19			19.1	5	6.2	(9)	1.2	618	573	530	436	343	294	206
	*22			22.2	3.5	6.2	(10)	1.2	618	573	530	436	343	294	206
	28			28.6	3.5	8.2	(12)	1.2	1236	1148	1059	873	687	588	412
	38			38.1	5.5	12.2	(16)	1.2	1342	1342	1342	1132	922	785	588
	*42			42.7	5	12.2	(16)	1.4	1667	1628	1589	1310	1030	883	745
HROC	22	113		22.2	3.5	6.2	(10)	1.2	618	573	530	436	343	-	-
	28	163		28.6	3.5	8.2	(12)	1.2	1236	1148	1059	873	687	-	-
	38	213		38.1	5.5	12.2	(16)	1.2	1342	1342	1342	1132	922	-	-
	42	313		42.7	5	12.2	(16)	1.4	1667	1628	1589	1310	1030	883	745
	57	413		57.2	6.5	12.2	(18)	1.4	2354	2206	2059	1912	1765	1471	1157
HROB Urethane Lined Type	19	263	3	19.1	6	6	(8)	1.2	775	721	667	549	431	373	-
	28	313	4	28.6	6.5	8	(10)	1.2	1549	1436	1323	1093	863	745	520
	38	413	5	38.1	6.5	12	(18)	2.4	2206	2040	1875	1673	1471	1226	1040
	42	513		42.7	5	12	(18)	2.3	2942	2687	2432	2319	2206	1844	1451
	57			57.2	6.5	12	(18)	1.4	2942	2687	2432	2319	2206	1844	1451
HROA	28			28.6	5.5	8.2	(12)	1.6	617	573	529	436	343	-	-
	38			38.1	5	8.1	(13)	1.6	705	705	705	583	460	-	-
	42			42.7	6.5	12.2	(16)	1.6	784	735	686	637	588	-	-
	57			57.1	6.5	12.2	(16)	1.6	784	735	686	637	588	-	-
	50			50.8	6.5	12.2	(18)	1.6	1716	1682	1648	1584	1520	1442	1147
HROS Urethane Lined Type	19			19.0	5	6.2	(10)	1.2	432	403	373	309	245	196	147
	28			38.1	3.5	8.2	(16)	1.0	883	836	790	684	579	490	373
	38			38.1	3.5	8.2	(16)	1.0	883	836	790	684	579	490	373
	42			50.8	6.5	12.2	(18)	1.5	1324	1250	1177	1128	1079	883	687
	50			50.8	6.5	12.2	(18)	1.5	1324	1250	1177	1128	1079	883	687

HROB and HROBU are excellent in quiet operation and durability as standard bearings are used. For No.19 and No.28 of HROB and HROBU, hubs are replaced with collars. Sizes with \* (No.22, No.42, No.50) are available for HRO only.

Ordering Example: Part Number - L - G  
 HRO38 - 213 - 3  
 HROU38 - 213 - 3

Part Number Type	No.	Unit Price						
		L113	L163	L213	L263	L313	L413	L513
HRO	19							
	22							
	28							
	38							
	42							
HROC	22							
	28							
	38							
	42							
	57							
HROB	19							
	28							
	38							
	42							
	57							

For HROG and HROH, the unit prices in the table are to be multiplied by 1.1.

Part Number Type	No.	Unit Price						
		L113	L163	L213	L263	L313	L413	L513
HROA	28							
	38							
	57							
	19							
	50							
HROS	19							
	28							
	38							
	50							
	57							
HROU (Unit Price x1.0)	19							
	28							
	38							
	42							
	57							
HROH (Unit Price x1.1)	19							
	28							
	38							
	42							
	57							
HROBU	19							
	28							
	38							
	42							
	57							
HROSU	19							
	28							
	38							
	42							
	50							

Alterations Example: Part Number - L - G - (UDC)  
 HROU38 - 213 - 3 - UDC

Alteration Code	Spec.
UDC	Changes Urethane Lined Type Shore A90 to Antistatic Urethane. Ordering Code UDC Specific Volume Resistivity $2.1 \times 10^8 \Omega \cdot \text{cm}$ Surface Resistivity $4.0 \times 10^9 \Omega$ (Temperature 30°C / Humidity 60%)

Conveyor Roller Shaft Holder for Aluminum Extrusion HSCX(P. 778)

Use in combination with Roller Shaft (P.1165). Do not let the shaft hubs on the rollers to support the cantilevered loads as this will apply offset loads on the bearings.

Features: Set of Conveyor Rollers and Economical Hollow Tube Rollers

### Conveyor Rollers - Shaft & Roller Sets

Type	Material			Surface Treatment		Bearing
	Rollers Core	Wheel	Shaft	Pin	Roller	
HROJS	Steel	Steel	Steel	Steel	Hot Zinc Plating	Trivalent Bright Chromate Plating / Pressed-in Bearings

Shafts and Pins are shipped as included accessories, not inserted into rollers.

Part Number Type	No.	L Selection	D	a	d	(d1)	t	Set Shaft & Pin	* Roller Strength for Reference (N)							Unit Price									
									L113	L163	L213	L263	L313	L413	L513	L113	L163	L213	L263	L313	L413	L513			
HROJS	19	113	19.1	5	6.2	(9)	1.2	For 06	431	318	205	436	343	294	206										
	22	163	22.2	3.5	6.2	(9)	1.2	For 06	431	-	205	-	343	294	206										
	28	213	28.6	3.5	8.2	(12)	1.2	For 08	490	490	490	450	687	588	412										
	38	263	38.1	5.5	12.2	(16)	1.2	For 08	1342	1342	1342	1132	922	785	588										
	42	313	42.7	5	12.2	(16)	1.4	For 012	1667	1628	1589	1310	1030	883	745										
50	413	57.2	6.5	12.2	(18)	1.6	For 012	1716	1628	1648	1584	1520	1442	1147											
57	513	57.2	6.5	12.2	(18)	1.4	For 012	2354	2206	2059	1912	1765	1471	1157											

Ordering Example: Part Number - L  
 HROJS38 - 263

Features: Rollers with integrated sprockets for synchronizing.

### Roller with Sprocket HROSSP

App. Example: Bearing ① B6001ZZ, Bearing ② B6201ZZ, Sprocket Number of teeth : 10(Dp41.1, Do46), Applicable Chain : CHE40 (P.1535)

Conveyor Speed max 25m/min

Part Number Type	No.	L Selection	D	d	a	b	e	t	Roller Strength (N)					Unit Price 1~4 pc.					
									L100	L200	L300	L400	L500	L100	L200	L300	L400	L500	
HROSSP	38	100	38.1	12	12	14	3	2.4	883	809	588	490	417						
	57	200	57.2	12	12	13	3	2.1	883	834	735	539	441						
	300																		

Ordering Example: Part Number - L  
 HROSSP38 - 100

### Plastic Conveyor Rollers HRJA

Material: ABS Plastic

Outer Wheel / Inner Wheel : Polyacetal Retainer : Nylon 66 Cover : ABS Plastic Ball : SUS304

Part Number Type	No.	L Selection	D	a	b	B	d	(d1)	t	Roller Strength for Reference (N)					Unit Price					
										L113	L213	L313	L413	L513	L50-150	L151-250	L251-350	L351-450	L451-513	
HRJA	20		20.4±0.5				(14.9)	6.1	9.5(±0.2)	1.5(±0.5)	113	105	98	90	83					
	30		30.6±0.5	(2)	(1)	(24.9)	8.2	14(±0.2)	1.8(±0.5)	162	154	147	139	132						
	50	50-513	50.3±0.5			(39.9)	12.2	17(±0.2)	2.8(±0.5)	314	304	294	289	279						

Ordering Example: Part Number - L  
 HRJA20 - 213