

Conveyor Rollers

Core Material Type / Urethane Lined Type

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	Wheel	Lining		
HRO	JIS-STKM (Tube Steel)	Steel	Trivalent Chromate Plating	Pressed-in Bearings	HROU	JIS-STKM (Tube Steel)	Steel	Urethane (Natural Color)	Shore A90	Pressed-in Bearings
HROC	JIS-STKM (Tube Steel)	Steel	Hard Chrome Plating	Standard Bearing	HROH	JIS-STKM (Tube Steel)	Steel	Urethane (Natural Color)	Shore A70	Pressed-in Bearings
HROA	Aluminum	Steel	Clear Anodize	Pressed-in Bearings	HROBU (Silent Type)	JIS-STKM (Tube Steel)	Steel	Urethane (Natural Color)	Shore A50	Standard Bearing
HROS	EN 1.4301 Equiv.	EN 1.4301 Equiv.	-	Pressed-in Bearings	HROSU	EN 1.4301 Equiv.	EN 1.4301 Equiv.	Urethane (Natural Color)	Shore A90	Pressed-in Bearings

Urethane Lined Type

Only for No.19 and No.28 of HROB and HROBU.

Collar

*1. HROB and HROBU : d₀ ±0.008

*2. Collar part of HROB and HROBU is plastic (Nylon 6).

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	*50			50.8	6.5	12.2	(18)	1.6	1716	1682	1648	1584	1520	1442	1147	
	57			57.2	6.5	12.2	(18)	1.4	2354	2206	2059	1912	1765	1471	1157	
	22	113		22.2	3.5	6.2	(10)	1.2	618	573	530	436	343	-	-	
	28	163	3	28.6	3.5	8.2	(12)	1.2	1236	1148	1059	873	687	-	-	
	38	213	4	38.1	5.5	12.2	(16)	1.2	1342	1342	1342	1132	922	-	-	
HROB Urethane Lined Type	19	263	5	19.1	6	6	(8)	1.2	775	721	667	549	431	373	-	
	28	313		28.6	6.5	8	(10)	1.2	1549	1436	1323	1093	863	745	520	
	38	413		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	-	-	
	57			57.1	6.5	12.2	(16)	1.6	784	735	686	637	588	-	-	
	19			19.0	5	6.2	(10)	1.2	432	403	373	309	245	196	147	
	38			38.1	3.5	8.2	(16)	1.0	883	836	790	684	579	490	373	
HROS Urethane Lined Type	19			50.8	6.5	12.2	(18)	1.5	1324	1250	1177	1128	1079	883	687	
	50															

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.

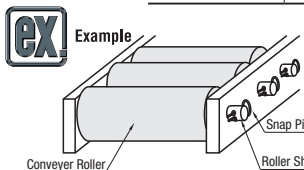
Ordering Example	Part Number	-	L	-	G
	HRO38	-	213	-	
	HROU38	-	213	-	3

Part Number Type	No.	Unit Price						
		L113	L163	L213	L263	L313	L413	L513
HRO	19							
	22							
	28							
	38							
	42							
HROC	50							
	57							
	22						-	-
	28						-	-
	38						-	-
HROB	19							
	28							
	38							
	42							
	57							

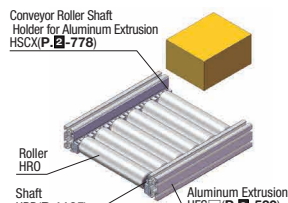
For HROG and HROH, the unit prices in the table are to be multiplied by 1.1.

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

Alterations	Part Number	-	L	-	G	-	(UDC)
	HROU38	-	213	-	3	-	UDC
Alteration Code	Spec.						
Antistatic Urethane Change to (Urethane Color: Gray)	UDC	Changes Urethane Lined Type Shore A90 to Antistatic Urethane. (Ordering Code) UDC Specific Volume Resistivity 2.1 x 10 ⁸ Ω · cm Surface Resistivity 4.0 x 10 ⁸ Ω (Temperature 30°C / Humidity 60%)					



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.



Conveyor Rollers / Sprocket Integrated Rollers / Plastic Conveyor Rollers

Shaft & Roller Sets

Features: Set of Conveyor Rollers and Economical Hollow Tube Rollers

Conveyor Rollers - Shaft & Roller Sets

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

Rollers

		Rollers	Surface Treatment	Terminal Cover
		38Ø	42.7, 57Ø	Rollers
Material		EN 1.0034 Equiv.	EN 1.0038 Equiv.	Trivalent Bright Chromate Plating
				Plastic

For Ø6 Shaft

For Ø8 Shaft

For Ø12 Shaft

Part Number		L Selection	D	a	d	(d1)	t	Set Shaft & Pin	* Roller Strength for Reference (N)							Unit Price							
Type	No.								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 Ø6	431	318	205	436	343	294	206								
	22	163	22.2	3.5	6.2	(9)	1.2		431	-	205	-	343	294	206		-		-				
	28	213	28.6	3.5	8.2	(12)	1.2		490	490	490	450	687	588	412								
	38	263	38.1	5.5	12.2	(16)	1.2	For Ø12	1342	1342	1342	1132	922	785	588								
	42	313	42.7	5	12.2	(16)	1.4		1667	1628	1589	1310	1030	883	745								
	50	413	50.8	6.5	12.2	(18)	1.6		1716	1628	1648	1584	1520	1442	1147								
	57	513	57.2	6.5	12.2	(18)	1.4		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	Bearing ①	Bearing ②	Plastic Bushing	Collar	a	b	d	(d1)	t	L±2	e	Bearing ① B6001ZZ	Bearing ② B6201ZZ	Sprocket Number of teeth : 10(Dp41.1, Do46)	Applicable Chain : CHE40 (P1535)	Conveyor Speed max 25m/min
App. Example																	

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	11	14	3	2.4	883	809	588	490	417					
	57	300	57.2			13		2.1	883	834	735	539	441					

Ordering Example	Part Number	-	L
	HROSSP38	-	100

Plastic Conveyor Rollers	HRJA	D	a	b	B
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