

Rollers

Bearing Type (L=15-100)

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RoHS 10

For detailed bearing dimensions, see P.1018-1019, 1028-1029.

Type			Material	Surface Treatment (Lining)	Bearing	Hardness
L Selectable	L Configurable	L Selectable				
RORB	—	ROCRB	1045 Carbon Steel or Equivalent	Black Oxide	Steel	—
RORM	—	ROCRM		Electroless Nickel Plating		—
RORS	—	ROCRS	304 Stainless Steel	—	Steel	—
RORA	—	ROCRA	Aluminum Alloy	Clear Anodize		—
RORKS	—	—	304 Stainless Steel	Urethane (Natural Color)	Steel	Shore A95
RORKA	—	—	Aluminum Alloy			—
RORUS	ROFRUS	ROCRUS	304 Stainless Steel	Urethane (Natural Color)	Stainless Steel	Shore A90
RORUA	ROFRUA	ROCRUA	Aluminum Alloy			—
RORUP	—	—	MC Nylon	Urethane (Natural Color)	Steel	Shore A70
RORGS	—	ROCRGS	304 Stainless Steel			—
RORGA	ROFRGA	ROCRGA	Aluminum Alloy	Urethane (Natural Color)	Steel	Shore A50
RORHS	—	ROCRHS	304 Stainless Steel			—
RORHA	ROFRHA	—	Aluminum Alloy	Silicon Rubber (Light Gray)	Steel	Shore A70
RORSS	ROFRSS	ROCRSS	304 Stainless Steel			—
RORSA	—	—	Aluminum Alloy	Silicon Rubber (Light Gray)	Steel	Shore A50
RORJS	—	—	304 Stainless Steel			—
RORJA	—	—	Aluminum Alloy	Silicon Rubber (White)	Steel	Shore A70
RORWS	—	—	304 Stainless Steel			—
RORTS	ROFRTS	—	304 Stainless Steel	Heat Resistant Urethane (Red brown)	Steel	Shore A90
RORTA	—	—	Aluminum Alloy	Operating Temperature: ~110°C		—
RORNS	—	—	304 Stainless Steel	NBR Nitrile Rubber (Black)	Steel	Shore A60
RORNA	—	—	Aluminum Alloy			—

Urethane, Silicon Rubber and NBR Nitrile Rubber are baked on the roller's outer diameter.

Straight

Crowned

L Selectable		Part Number		D	L	d	D _{1 (HT)}	dh	B	Bearing Used								
Type	No.	Type	No.															
Straight Core Material Only RORB RORM RORS RORA	(20)	Silicon Rubber	15	20	25	30	40	50	6	15	10	5	696ZZx2					
		Heat Resistant Urethane	25	25	30	40	50	60	70	80	90	100	6	15	10	5	696ZZx2	
		Urethane	30	20	25	30	40	50	60	70	80	90	100	8	19	15	6	698ZZx2
		NBR Nitrile Rubber	35A	25	30	40	50	8	22	15	7	608ZZx2						
Crowned Core Only ROCRB ROCRM ROCRS ROCRA	(20)	Silicon Rubber	15	20	25	30	40	50	6	15	10	5	696ZZx2					
		Heat Resistant Urethane	25	25	30	40	50	60	70	80	90	100	6	15	10	5	696ZZx2	
		Urethane	30	20	25	30	40	50	60	70	80	90	100	8	19	15	6	698ZZx2
		NBR Nitrile Rubber	35A	25	30	40	50	8	22	15	7	608ZZx2						
Urethane RORKS RORKA RORUP RORUS RORUA RORGA RORHS RORHA	(20)	Silicon Rubber	15	20	25	30	40	50	6	15	10	5	696ZZx2					
		Heat Resistant Urethane	25	25	30	40	50	60	70	80	90	100	6	15	10	5	696ZZx2	
		Urethane	30	20	25	30	40	50	60	70	80	90	100	8	19	15	6	698ZZx2
		NBR Nitrile Rubber	35A	25	30	40	50	8	22	15	7	608ZZx2						
Urethane RORUS RORUA RORGA RORHS RORHA	(20)	Silicon Rubber	15	20	25	30	40	50	6	15	10	5	696ZZx2					
		Heat Resistant Urethane	25	25	30	40	50	60	70	80	90	100	6	15	10	5	696ZZx2	
		Urethane	30	20	25	30	40	50	60	70	80	90	100	8	19	15	6	698ZZx2
		NBR Nitrile Rubber	35A	25	30	40	50	8	22	15	7	608ZZx2						

D20 is only applicable to Core Only Types (RORB, RORM, RORS, RORA, ROCRB, ROCRM, ROCRS and ROCRA).
No.35A, 40A, 50A are not available for RORUP.

L Configurable (Straight Only)

Part Number		D	L=1mm Increment	d	D _{1 (HT)}	dh	B	Bearing Used
Type	No.							
Urethane ROFRUS ROFRUA ROFRGA ROFRHA	Silicon Rubber	25	25	6	15	10	5	696ZZx2
	Heat Resistant Urethane	30	30	8	19	15	6	698ZZx2
	Urethane	35A	35	8	22	15	7	608ZZx2
Urethane ROFRUS ROFRUA ROFRGA ROFRHA	Silicon Rubber	35	35	10	26	18	6	6900ZZx2
	Heat Resistant Urethane	40A	40	12	28	24	8	6000ZZx2
	Urethane	40	40	12	28	24	8	6001ZZx2
Urethane ROFRUS ROFRUA ROFRGA ROFRHA	Silicon Rubber	50A	50	12	32	24	10	6201ZZx2
	Heat Resistant Urethane	50	50	15	32	28	9	6002ZZx2

Urethane may discolor over time, but there is no effect on physical properties.

Rollers

Bearing Type (L=15-100), continued

Part Number Example: **ROFRSS40 - L 38**

L Selectable

D	L	Available Types																
		Straight																
		Core Only				Urethane				Silicon								
		RORB	RORM	RORS	RORA	RORKS	RORKA	RORUS	RORUZ	RORUA	RORUP	ROCRS	ROCRHA	RORSS	RORSA	RORJS	RORJA	RORWS
20	15-25	*	*	*	*	—	—	—	—	—	—	—	—	—	—	—	—	—
	30-50	*	*	*	*	—	—	—	—	—	—	—	—	—	—	—	—	—
25	20-25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	30-50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
30	60-100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	20-25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
35	30-50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	60-100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
35A	25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	30-50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
40	60-100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
40A	30-50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	60-100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
50	25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	30-50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
50A	60-100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

D	L	Available Types													
		Straight				Crowned									
		Heat Resistant Urethane		NBR Nitrile Rubber		Core Only				Urethane		Silicon			
		RORTS	RORTA	RORNS	RORNA	ROCRB	ROCRM	ROCRS	ROCRA	ROCRUS	ROCRUA	ROCRGA	ROCRGS	ROCRHS	ROCRSS
20	15-25	—	—	—	—	*	*	*	*	—	—	—	—	—	—
	30-50	—	—	—	—	*	*	*	*	*	*	*	*	*	*
25	20-25	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	30-50	*	*	*	*	*	*	*	*	*	*	*	*	*	*
30	20-25	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	30-50	*	*	*	*	*	*	*	*	*	*	*	*	*	*
35	25	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	30-50	*	*	*	*	*	*	*	*	*	*	*	*	*	*
35A	25	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	30-50	*	*	*	*	*	*	*	*	*	*	*	*	*	*
40	25	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	30-50	*	*	*	*	*	*	*	*	*	*	*	*	*	*
40A	30-50	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	25	*	*	*	*	*	*	*	*	*	*	*	*	*	*
50	30-50	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	60-100	*	*	*	*	*	*	*	*	*	*	*	*	*	*

L Configurable

D	L	Available Types					
		Straight					
		Urethane		Silicon		Heat Resistant Urethane	
		ROFRUS	ROFRUA	ROFRGA	ROFRHA	ROFRSS	ROFRTS
25	21-25	*	*	*	*	*	*
	26-49	*	*	*	*	*	*
30	21-25	*	*	*	*	*	*
	26-49	*	*	*	*	*	*
35	26-49	*	*	*	*	*	*
	26-49	*	*	*	*	*	*
40	26-49	*	*	*	*	*	*
	26-50	*	*	*	*	*	*
50A	51-99	*	*	*	*	*	*

Part Number Alterations Example: **RORNS40 - L 50 - (UDC, SB)**

Alterations	Code	Spec.
Change to Antistatic Urethane (Urethane Color: Gray)	UDC	Urethane Shore A90 to Antistatic Urethane Ordering Code: UDC Specific Volume Resistivity 2.1 x 10 ⁸ Ωcm Surface Resistivity 4.0 x 10 ⁹ Ω (Temperature 30°C/Humidity 60%)

Alterations	Code	Spec.
Bearing Material	SB	Bearing material is changed to Stainless Steel. Ordering Code: SB ⊗ Not applicable to RORUZ