

# Hollow Rollers

## Straight (L=100 ~ 500)

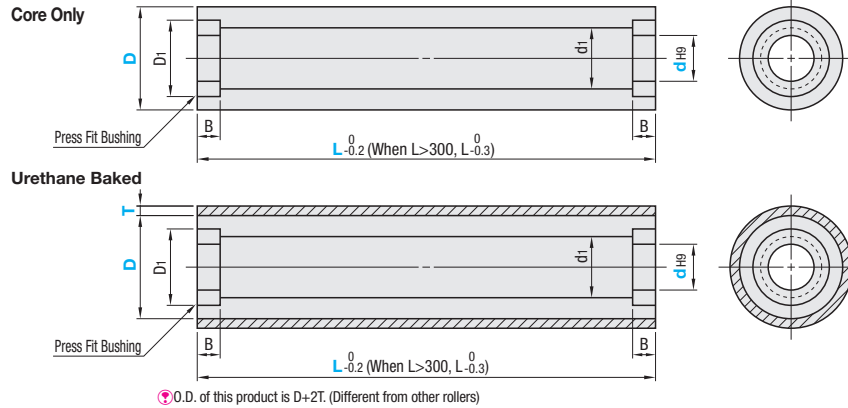
Features: Dedicated drawn aluminum pipes are used. Lightweight and reasonably priced.

### Straight



Type	Material Core	Surface Treatment (Lining)	Hardness
ROLLA	Aluminum Alloy	Clear Anodize	-
ROLAU		Urethane (Natural Color)	Shore A90
ROLAG		Urethane (Natural Color)	Shore A70
ROLLM		Electroless Nickel Plating	-
ROLLS	Stainless Steel (EN 1.4301 Equiv.)	-	-

Surface treatment is not applied to shaft end and I.D.  
 Urethane is baked on the outer circumference of the core material.  
 Since the drawing surface of pipe is unpolished, the inner diameter d1 is distorted to some extent.



O.D. of this product is D+2T. (Different from other rollers)

Part Number Type	D	Urethane Thickness T Selection	dH9 Selection	L Selection			d1			D1	B
				Aluminum Alloy	Steel	Stainless Steel	Aluminum Alloy	Steel	Stainless Steel		
Core Only ROLLA ROLLM ROLLS	20	3	6	100	150	200	11	12	13	15	10
			8				15	15.8	18		
			10				17	22.7	22		
	30		12	20	22	27	30	28	40		
			15	25	30	32	-	-	45		
			20	30	35	41	-	-	55		
	40		25	40	45	-	-	-	-		
			30	50	55	-	-	-	-		
			35	-	-	-	-	-	-		
	50		40	-	-	-	-	-	-		
			50	-	-	-	-	-	-		
			60	-	-	-	-	-	-		
60	60	-	-	-	-	-	-				
	80	-	-	-	-	-	-				
	80	-	-	-	-	-	-				
Urethane Baked ROLAU ROLAG	20	10	8	100	150	200	11	12	13	15	10
			10				15	15.8	18		
			12				17	22.7	22		
30	15		20	22	27	30	28	40			
	20		25	30	32	-	-	45			
	25		30	35	41	-	-	55			
40	30		40	45	-	-	-	-			
	35		50	55	-	-	-	-			
	40		-	-	-	-	-	-			
50	40		-	-	-	-	-	-			
	50		-	-	-	-	-	-			
	60		-	-	-	-	-	-			
60	60	-	-	-	-	-	-				
	80	-	-	-	-	-	-				
	80	-	-	-	-	-	-				

Ordering Example: Part Number - T - d - L  
 ROLLA50 - 20 - L300  
 ROLAU60 - T10 - 20 - L400

Core Only

Type	D	L100	L150	L200	L250	L300	L350	L400	L450	L500
ROLLA (Aluminum)	20	-	-	-	-	-	-	-	-	-
	30	-	-	-	-	-	-	-	-	-
	40	-	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	-	-
	60	-	-	-	-	-	-	-	-	-
ROLLM (Steel)	20	-	-	-	-	-	-	-	-	-
	30	-	-	-	-	-	-	-	-	-
	40	-	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	-	-
	60	-	-	-	-	-	-	-	-	-
ROLLS (Stainless Steel)	20	-	-	-	-	-	-	-	-	-
	30	-	-	-	-	-	-	-	-	-
	40	-	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	-	-
	60	-	-	-	-	-	-	-	-	-

Urethane Baked (Core Material Aluminum)

D	T	Unit Price										
		ROLAU (Unit Price x 1.0)			ROLAG (Unit Price x 1.1)							
		L100	L150	L200	L250	L300	L350	L400	L450	L500		
20	3	-	-	-	-	-	-	-	-	-		
		5	-	-	-	-	-	-	-	-	-	
			10	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-

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

# Hollow Rollers

## With Bearings (L=100 ~ 500)

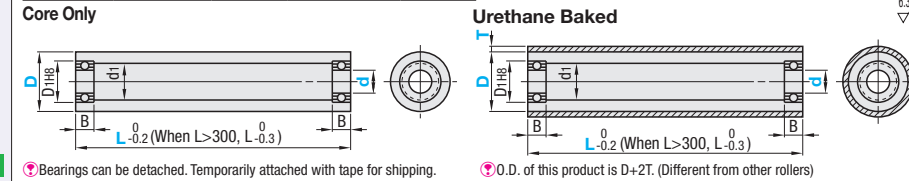
Features: Dedicated drawn aluminum pipes are used. Lightweight and reasonably priced.

### With Bearings



Type	Material Core	Bearing	Surface Treatment (Lining)	Hardness
RORLA	Aluminum Alloy	Steel	Clear Anodize	-
RORLAK			Urethane (Natural Color)	Shore A95
RORLAU			Urethane (Natural Color)	Shore A90
RORLAG			Urethane (Natural Color)	Shore A70
RORLAH			Urethane (Natural Color)	Shore A50
RORLM	Steel	Electroless Nickel Plating	-	
RORLS	Stainless Steel (EN 1.4301 Equiv.)	Steel	-	-
RORLSU			Urethane (Natural Color)	Shore A90
RORLSG			Urethane (Natural Color)	Shore A70
RORLSH			Urethane (Natural Color)	Shore A50

Surface treatment is not applied to shaft end and I.D.  
 Urethane is baked on the outer circumference of the core material.  
 Since the drawing surface of pipe is unpolished, the inner diameter d1 is distorted to some extent.



Bearings can be detached. Temporarily attached with tape for shipping.

O.D. of this product is D+2T. (Different from other rollers)

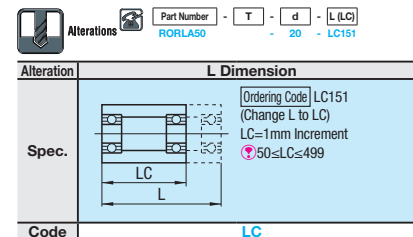
Part Number Type	D	Urethane Thickness T Selection	d	L Selection			Bearing Used	D1	B	d1		
				Aluminum Alloy	Steel	Stainless Steel				Aluminum Alloy	Steel	Stainless Steel
Core Only RORLA RORLM RORLS	20	3	6	100	150	200	B696ZZ	15	5	11	12	13
			8				B688ZZ	16	6	15	-	-
			8A				B698ZZ	19	7	-	-	-
	30		10	B608ZZ	22	7	-	-				
			12	B690ZZ	22	6	15	15.8	18			
			12	B6901ZZ	24	6	17	18.1	18			
	40		10	B6902ZZ	22	6	17	18.1	18			
			12	B6901ZZ	24	6	17	18.1	18			
			15	B6902ZZ	28	7	22	-	-			
	50		8	B628ZZ	24	8	17	18.7	20			
			10	B600ZZ	26	6	17	18.7	20			
			12	B6901ZZ	24	6	17	18.7	20			
60	15	B6902ZZ	28	7	22	-	-					
	20	B6804ZZ	32	7	22	22.7	22					
	25	B6200ZZ	30	9	17	-	-					
80	10	B6001ZZ	28	8	22	18	22					
	12	B6902ZZ	28	7	17	-	-					
	15	B6904ZZ	37	9	27	30	28					
Urethane Baked RORLAK RORLAU RORLAG RORLAH RORLSU RORLSG RORLSH	20	10	8	100	150	200	B6905ZZ	42	10	-	-	-
			10				B6201ZZ	32	9	32	-	-
			12				B6002ZZ	37	9	32	-	-
30	15		B6904ZZ	37	9	32	-	-				
	20		B6905ZZ	42	9	32	-	-				
	25		B6906ZZ	47	9	32	-	-				
40	25		B6205ZZ	52	15	-	-	-				
	30		B6006ZZ	55	13	41	-	-				
	35		B6907ZZ	55	10	-	-	-				

For bearing detailed dimensions, see P989. Relief is added to the end faces to prevent contacts with the bearing inner ring. \*1. Urethane bonded type not available for D35. For applicable sizes, please check the price list.

Ordering Example: Part Number - T - d - L  
 RORLA50 - 20 - L300  
 RORLAU60 - T10 - 20 - L400

Core Only

Type	D	Unit Price								
		L100	L150	L200	L250	L300	L350	L400	L450	L500
RORLA (Aluminum)	20	-	-	-	-	-	-	-	-	-
	30	-	-	-	-	-	-	-	-	-
	40	-	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	-	-
	60	-	-	-	-	-	-	-	-	-
RORLM (Steel)	20	-	-	-	-	-	-	-	-	-
	30	-	-	-	-	-	-	-	-	-
	40	-	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	-	-
	60	-	-	-	-	-	-	-	-	-
RORLS (Stainless Steel)	20	-	-	-	-	-	-	-	-	-
	30	-	-	-	-	-	-	-	-	-
	40	-	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	-	-
	60	-	-	-	-	-	-	-	-	-



For RORLAK, RORLAG, RORLAH, RORLSG and RORLSH, the unit prices in the table are to be multiplied by 1.1.  
 Urethane Baked (Core Material Aluminum)

D	T	Unit Price										
		RORLAU (Unit Price x 1.0)			ROLAG (Unit Price x 1.1)							
		L100	L150	L200	L250	L300	L350	L400	L450	L500		
20	3	-	-	-	-	-	-	-	-	-		
		5	-	-	-	-	-	-	-	-	-	
			10	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-

Urethane Baked Core (Material Stainless Steel)

D	T	Unit Price										
		RORLSU (Unit Price x 1.0)			RORLSG (Unit Price x 1.1)							
		L100	L150	L200	L250	L300	L350	L400	L450	L500		
20	3	-	-	-	-	-	-	-	-	-		
		5	-	-	-	-	-	-	-	-	-	
			10	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-

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