

Pipe Rollers

Set Screw Type (L=100-500)

Pipe Rollers – Set Screw Type

RoHS 10

| Type | Material Core | Surface Treatment (Lining) | Hardness |
|--------|----------------|----------------------------|-----------|
| ROLNAU | Aluminum Alloy | Urethane (Natural Color) | Shore A90 |
| ROLNAG | | | Shore A70 |
| ROLNAH | | | Shore A50 |

Ⓞ Surface treatment may not be 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.

Urethane Baked

Press Fit Bushings

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

| Part Number Type | D | Urethane Thickness T | d _{1H9} | L | d ₁ | | | D ₁ | B | M |
|--|----|----------------------|------------------|-----|----------------|-----------|-----------------|----------------|----|----|
| | | | | | Aluminum | Steel | Stainless Steel | | | |
| Urethane Baked ROLNAU ROLNAG ROLNAH | 30 | 3 | 8 | 100 | 15 | 15.8 (18) | 18 | 22 | 10 | M4 |
| | | | 10 | | | | | | | |
| | | | 12 | | | | | | | |
| | | | 15 | | | | | | | |
| | | | 20 | | | | | | | |
| | | | 25 | | | | | | | |
| | 40 | 5 | 12 | 150 | 17 | 22.7 (22) | 22 | 33 | 10 | M5 |
| | | | 15 | | | | | | | |
| | | | 20 | | | | | | | |
| | | | 25 | | | | | | | |
| | | | 30 | | | | | | | |
| | | | 35 | | | | | | | |
| 50 | 10 | 15 | 200 | 22 | 30 (28) | 28 | 40 | 10 | M6 | |
| | | 20 | | | | | | | | |
| | | 25 | | | | | | | | |
| | | 30 | | | | | | | | |
| | | 35 | | | | | | | | |
| | | 40 | | | | | | | | |
| 60 | 10 | 20 | 250 | 27 | — | — | 45 | 10 | M5 | |
| | | 25 | | | | | | | | |
| | | 30 | | | | | | | | |
| | | 35 | | | | | | | | |
| | | 40 | | | | | | | | |
| | | 45 | | | | | | | | |
| 80 | 10 | 25 | 300 | 32 | — | — | 55 | 15 | M8 | |
| | | 30 | | | | | | | | |
| | | 35 | | | | | | | | |
| | | 40 | | | | | | | | |
| | | 45 | | | | | | | | |
| | | 50 | | | | | | | | |

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

Part Number Example

Part Number - T - d - L

ROLNLA50 - 20 - L300

ROLNLM30 - 8 - L350

ROLNAU60 - T10 - 20 - L400

Part Number Alterations

Part Number - T - d - L (LC)

ROLNLA30 - 12 - LC315

| Alteration | L Dimension |
|------------|---|
| Spec. | <p>Ordering Code: LC151 (Change L to LC) LC=1mm Increment Ⓞ 50≤LC≤499</p> |
| Code | LC |

Long Pipe Rollers

Bearing Type

Ⓞ Carbon Steel material resists bending.

Long Pipe Rollers – Set Screw Type / Bearing Type

RoHS 10

| Type | Material Core | Surface Treatment |
|------------|---------------------|----------------------------|
| L=100-500 | Aluminum Alloy | Clear Anodize |
| L=550-1000 | | Electroless Nickel Plating |
| ROLNLA | Steel | — |
| ROLNLM | | — |
| ROLNT | 304 Stainless Steel | — |
| ROLNS | | — |

Ⓞ Surface treatment may not be applied to shaft end and I.D.
 Ⓞ Since the drawing surface of pipe is unpolished, the inner diameter d1 is distorted to some extent.

Core Only

Press Fit Bushings

L100-500

| Part Number Type | D | d _{1H9} | L | d ₁ | | | D ₁ | B | M | |
|---|----|------------------|-----|----------------|-------|-----------------|----------------|----|----|----|
| | | | | Aluminum | Steel | Stainless Steel | | | | |
| Core Only ROLNLA ROLNLM ROLNT ROLNS | 30 | 8 | 100 | 15 | 15.8 | 18 | 22 | 10 | M4 | |
| | | | | | | | | | | 10 |
| | | | | | | | | | | 12 |
| | | | | | | | | | | 15 |
| | | | | | | | | | | 20 |
| | | | | | | | | | | 25 |
| | 35 | 12 | 150 | 17 | 22.7 | 22 | 33 | 10 | M5 | |
| | | | | | | | | | | 15 |
| | | | | | | | | | | 20 |
| | | | | | | | | | | 25 |
| | | | | | | | | | | 30 |
| | | | | | | | | | | 35 |
| 40 | 15 | 200 | 22 | 30 | 28 | 40 | 10 | M6 | | |
| | | | | | | | | | 20 | |
| | | | | | | | | | 25 | |
| | | | | | | | | | 30 | |
| | | | | | | | | | 35 | |
| | | | | | | | | | 40 | |
| 50 | 20 | 250 | 27 | — | — | 45 | 10 | M5 | | |
| | | | | | | | | | 25 | |
| | | | | | | | | | 30 | |
| | | | | | | | | | 35 | |
| | | | | | | | | | 40 | |
| | | | | | | | | | 45 | |
| 60 | 25 | 300 | 32 | — | — | 55 | 15 | M8 | | |
| | | | | | | | | | 30 | |
| | | | | | | | | | 35 | |
| | | | | | | | | | 40 | |
| | | | | | | | | | 45 | |
| | | | | | | | | | 50 | |

Part Number Example

Part Number - d - L

ROLNLA50 - 20 - L300

ROLNLM30 - 9 - L350

L550-1000

| Part Number Type | D | d _{1H9} | L | d ₁ | | | D ₁ | B | M |
|--------------------------|----|------------------|------|----------------|-------|-----------------|----------------|----|----|
| | | | | Aluminum | Steel | Stainless Steel | | | |
| ROLNT Steel | 40 | 12 | 550 | 22 | 22.7 | 22 | 32 | 10 | M4 |
| | | | 600 | | | | | | |
| | | | 650 | | | | | | |
| | 50 | 15 | 700 | 27 | 40 | 28 | 43 | 10 | M6 |
| | | | 750 | | | | | | |
| | | | 800 | | | | | | |
| ROLNS Stainless Steel | 60 | 25 | 850 | 32 | 49.5 | — | 53 | 10 | M6 |
| | | | 850 | | | | | | |
| | | | 900 | | | | | | |
| ROLNA Aluminum | 80 | 30 | 950 | 41 | 68.6 | — | 72 | 15 | M8 |
| | | | 950 | | | | | | |
| | | | 1000 | | | | | | |

Ⓞ Steel (1020 Carbon Steel) applies to sizes with *.

Set Screw Type

| Type | D | Available Types | | | | | | | | | |
|----------------------------|----|-----------------|------|------|------|------|------|------|------|------|-------|
| | | L550 | L600 | L650 | L700 | L750 | L800 | L850 | L900 | L950 | L1000 |
| ROLNT (Steel) | 40 | • | • | • | • | • | • | • | • | • | • |
| | 50 | • | • | • | • | • | • | • | • | • | • |
| | 60 | • | • | • | • | • | • | • | • | • | • |
| | 80 | • | • | • | • | • | • | • | • | • | • |
| ROLNS (Stainless Steel) | 40 | • | • | • | • | • | • | • | • | • | • |
| | 50 | • | • | • | • | • | • | • | • | • | • |
| | 60 | • | • | • | • | • | • | • | • | • | • |
| | 80 | • | • | • | • | • | • | • | • | • | • |
| ROLNA (Aluminum) | 40 | • | • | • | • | • | • | • | • | • | • |
| | 50 | • | • | • | • | • | • | • | • | • | • |
| | 60 | • | • | • | • | • | • | • | • | • | • |
| | 80 | • | • | • | • | • | • | • | • | • | • |

Long Pipe Rollers – Set Screw Type / Bearing Type

RoHS 10

| Type | Material Core | Surface Treatment |
|--------------|---------------|----------------------------|
| With Bearing | ROLRC | Steel |
| | RORSS | 304 Stainless Steel |
| | RORAA | Aluminum Alloy |
| | | Electroless Nickel Plating |
| | | Clear Anodize |

Ⓞ Since the drawing surface of pipe is unpolished, the inner diameter d1 is distorted to some extent.

With Bearing

Press Fit Bushings

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

With Bearings

| Part Number Type | D | d | L | D ₁ | B ₁ | B | d ₁ | | | d ₁ | | Bearing Used |
|--------------------------|----|----|------|----------------|----------------|----|----------------|-------|-----------------|----------------|----------|--------------|
| | | | | | | | Aluminum | Steel | Stainless Steel | Steel | Aluminum | |
| ROLRC Steel | 40 | 8 | 550 | 24 | 8 | 12 | 22.7 | 22 | 22 | 15 | 15 | B628ZZ |
| | | | 600 | | | | | | | | | |
| | | | 650 | | | | | | | | | |
| | 50 | 10 | 700 | 30 | 9 | 15 | 40 | 28 | 27 | 17 | 17 | B6200ZZ |
| | | | 750 | | | | | | | | | |
| | | | 800 | | | | | | | | | |
| RORSS Stainless Steel | 60 | 12 | 800 | 32 | 10 | 15 | 49.5 | — | 32 | 22 | 22 | B6001ZZ |
| | | | 850 | | | | | | | | | |
| | | | 900 | | | | | | | | | |
| | 80 | 15 | 950 | 32 | 9 | 15 | 49.5 | — | 32 | 22 | 22 | B6002ZZ |
| | | | 950 | | | | | | | | | |
| | | | 1000 | | | | | | | | | |
| RORAA Aluminum | 25 | 30 | 550 | 52 | 15 | 20 | 68.6 | — | 41 | 41 | 38 | B6205ZZ |
| | | | 600 | | | | | | | | | |
| | | | 650 | | | | | | | | | |
| 80 | 30 | 35 | 700 | 55 | 13 | 20 | 68.6 | — | 41 | 41 | 38 | B6006ZZ |
| | | | 750 | | | | | | | | | |
| | | | 800 | | | | | | | | | |

Part Number Example

Part Number - d - L

RORC60 - 15 - L600

RORAA50 - 12 - L1000

| Type | D | Available Types | | | | | | | | | |
|--------------------------|----|-----------------|------|------|------|------|------|------|------|------|-------|
| | | L550 | L600 | L650 | L700 | L750 | L800 | L850 | L900 | L950 | L1000 |
| ROLRC Steel | 40 | • | • | • | • | • | • | • | • | • | • |
| | 50 | • | • | • | • | • | • | • | • | • | • |
| | 60 | • | • | • | • | • | • | • | • | • | • |
| | 80 | • | • | • | • | • | • | • | • | • | • |
| RORSS Stainless Steel | 40 | • | • | • | • | • | • | • | • | • | • |
| | 50 | • | • | • | • | • | • | • | • | • | • |
| | 60 | • | • | • | • | • | • | • | • | • | • |
| | 80 | • | • | • | • | • | • | • | • | • | • |
| RORAA Aluminum | 40 | • | • | • | • | • | • | • | • | • | • |
| | 50 | • | • | • | • | • | • | • | • | • | • |
| | 60 | • | • | • | • | • | • | • | • | • | • |
| | 80 | • | • | • | • | • | • | • | • | • | • |