



Rollers

Straight Type with Keyway / Tapped Type with Keyway

Rollers – Straight Type with Keyway



Rollers – Tapped Type with Keyway

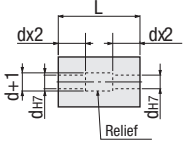


| L Dimension Selectable | | Urethane Thickness Selectable Type | | Material | | Hardness |
|------------------------|--------|------------------------------------|---------|---------------------|--------------------------|-----------|
| Straight | Tapped | Straight | Tapped | Core | Lining | |
| ROUSK | ROUSKN | ROEUSK | ROEUSKN | 304 Stainless Steel | Urethane (Natural Color) | Shore A90 |
| ROUAK | ROUAKN | ROEUAK | ROEUAKN | Aluminum Alloy | | |
| ROGSK | ROGSKN | ROEGSK | ROEGSKN | 304 Stainless Steel | Urethane (Natural Color) | Shore A70 |
| ROGAK | ROGAKN | ROEGAK | ROEGAKN | Aluminum Alloy | | |
| ROHSK | ROHSKN | ROEHSK | — | 304 Stainless Steel | Urethane (Natural Color) | Shore A50 |
| ROHAK | ROHAKN | ROEHAK | ROEHAKN | Aluminum Alloy | | |

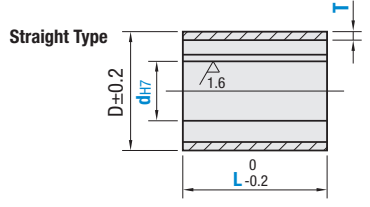
ⓘ Urethane is baked on the outer circumference of the core material.

ⓘ When $L \leq dx3$, hole d is machined from the same direction.

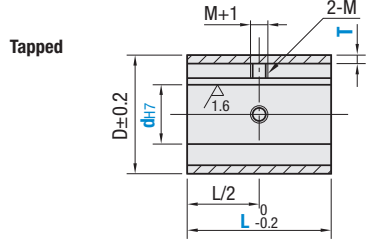
ⓘ When $L > dx3$, hole d is machined from both ends as shown below. There may be no relief in some cases.



Straight Type



Tapped



Keyway Dimensions

| Shaft Hole Dia. | d | Ref. Dim. | Tolerance (JS9) | b | Ref. Dim. | Tolerance (JS9) | t | Ref. Dim. | Tolerance (JS9) |
|-----------------|----|-----------|-----------------|-----|-----------|-----------------|---|-----------|-----------------|
| 8 | 10 | 3 | ±0.0125 | 1.4 | 1.8 | +0.1 | 0 | — | — |
| 12 | 15 | 4 | ±0.0150 | 2.3 | 2.8 | 0 | — | — | — |
| 20 | 25 | 6 | ±0.0180 | 3.3 | — | — | — | — | — |
| 30 | — | 8 | ±0.0180 | — | — | — | — | — | — |

L Dimension Selectable

| Part Number Type | D | d _{H7} Selection | L Selection | T | M |
|------------------|----|---------------------------|-----------------------------------|---|---|
| Straight | 20 | 8 | 15 20 25 30 40 50 60 70 80 90 100 | 3 | 3 |
| | 25 | 8 10 12 | 15 20 25 30 40 50 60 70 80 90 100 | | |
| Tapped | 30 | 8 10 12 15 | 15 20 25 30 40 50 60 70 80 90 100 | 3 | 4 |
| | 35 | 10 12 15 20 | 20 25 30 40 50 60 70 80 90 100 | | |
| Tapped | 40 | 10 12 15 20 | 20 25 30 40 50 60 70 80 90 100 | 4 | 5 |
| | 50 | 12 15 20 25 | 25 30 40 50 60 70 80 90 100 | | |

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

Part Number Example

| | | | | | | |
|-------------|---|----|---|----|---|----|
| Part Number | - | d | - | L | - | T |
| ROUSK20 | - | 8 | - | 30 | - | — |
| ROEUSK80 | - | 20 | - | 50 | - | T5 |
| ROUAK30 | - | 10 | - | 30 | - | — |

Urethane Thickness Selectable Type

| Part Number Type | D | d _{H7} Selection | L 10 mm Increment | T | M |
|------------------|-----|---------------------------|-------------------|----|---|
| Straight | 50 | 10 12 15 | 30-100 | 5 | 5 |
| | 60 | 12 15 20 | | | |
| Tapped | 80 | 15 20 25 | 30-100 | 10 | 6 |
| | 100 | 20 25 30 | | | |

Part Number Alterations

| | | | | | | | | |
|-------------|---|----|---|----|---|----|---|----------|
| Part Number | - | d | - | L | - | T | - | (UDC,LC) |
| ROUSK20 | - | 8 | - | 30 | - | — | - | UDC |
| ROEUSK80 | - | 20 | - | 50 | - | T5 | - | — |
| ROUAK30 | - | 10 | - | 30 | - | — | - | LC29 |


| Alterations | Code | Spec. |
|--|------|--|
| Change to Antistatic Urethane (Urethane Color: Gray) | UDC | Urethane Shore A90 is changed to Antistatic Urethane. Ordering Code: UDC Specific Volume Resistivity $2.1 \times 10^8 \Omega \text{cm}$ Surface Resistivity $4.0 \times 10^9 \Omega$ (Temperature 30°C/Humidity 60%) |
| L Dimension Modification | LC | Ordering Code: LC11 LC=1mm Increment ⓘ $L \leq LC \leq 100$ ⓘ Only applicable for L dimension selectable types |

Urethane Rollers / End Feed Rollers

With Side Through Holes

Feature: Can be used as a set with shaft collar shown on P.336 and P.338.

Urethane Rollers with Side Through Holes



RoHS 10

| Type | Material | | Hardness |
|------|----------------|----------|----------|
| | Core | Lining | |
| ULSH | Aluminum Alloy | Urethane | A90 |

ⓘ Urethane is baked on the outer circumference of the core material.

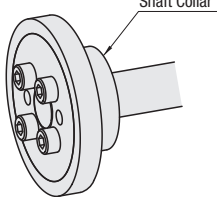
| Part Number Type | D | d | L | T | P | P ₂ | S | S ₂ |
|------------------|----|----|---|---|----|----------------|-----|----------------|
| ULSH | 40 | 10 | 8 | 5 | 18 | 20 | 4.5 | 5.5 |
| | | 12 | | | | | | |
| | 50 | 12 | | | 22 | 22 | 5.5 | 5.5 |
| | | 15 | | | | | | |
| | 60 | 15 | | | 25 | 26 | 6.5 | 6.5 |
| | | 20 | | | | | | |
| | 70 | 15 | | | 25 | 26 | 5.5 | 5.5 |
| | | 20 | | | | | | |
| | 80 | 20 | | | 32 | 34 | 6.5 | 6.5 |
| | | 25 | | | | | | |
| | | | | | 37 | 38 | | |

ⓘ Shaft collar shown on P.243 may not be installable depending on the B size.

Part Number Example

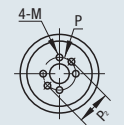
| | | | | |
|-------------|---|----|---|----|
| Part Number | - | D | - | d |
| ULSH | - | 40 | - | 10 |

Application Example




Part Number Alterations

| | | | | | | |
|-------------|---|----|---|----|---|------|
| Part Number | - | D | - | d | - | (MC) |
| ULSH | - | 40 | - | 10 | - | MC |

| Alteration | Tapping | | | | | | | | | | | | |
|-------------------------|--|-------------------------|---|----|--|-----|----|--|-----|----|--|-----|----|
| Code | MC | | | | | | | | | | | | |
| Spec. |  <table border="1"> <tr> <td>Change S to tapped hole</td> <td>S</td> <td>MC</td> </tr> <tr> <td></td> <td>4.5</td> <td>M4</td> </tr> <tr> <td></td> <td>5.5</td> <td>M5</td> </tr> <tr> <td></td> <td>6.5</td> <td>M6</td> </tr> </table> <p>Ordering Code: MC</p> | Change S to tapped hole | S | MC | | 4.5 | M4 | | 5.5 | M5 | | 6.5 | M6 |
| Change S to tapped hole | S | MC | | | | | | | | | | | |
| | 4.5 | M4 | | | | | | | | | | | |
| | 5.5 | M5 | | | | | | | | | | | |
| | 6.5 | M6 | | | | | | | | | | | |

End Feed Rollers



RoHS 10

| Type | Material |
|--------|------------|
| MCRPOM | Polyacetal |
| MCRUPE | UHMWPE |

| Part Number Type | D | d | P | 1mm Increment | W | L | D ₁ | M |
|------------------|----------|---------------|----------------|---------------|----|------------------------------|----------------|---|
| MCRPOM MCRUPE | 30 | 6 8 10 12 | 40 45 50 55 60 | 3-10 | 8 | 13-(P-D)/2√3 (4.34-10.11) | d+20 | 4 |
| | 35 | 6 8 10 12 15 | 45 50 55 60 65 | | | | | |
| | 40 | 8 10 12 15 20 | 50 55 60 65 70 | | 10 | | | 5 |
| | 45 | 10 12 15 20 | 55 60 65 70 75 | | | | | |
| | 50 | 12 15 20 | 60 65 70 75 80 | | | | | |
| | 55 | 15 20 30 | 65 70 75 80 | | | | | |
| 60 | 15 20 30 | 70 75 80 | | | | | | |

Part Number Example

| | | | | | | |
|-------------|---|---|---|----|---|---|
| Part Number | - | d | - | P | - | L |
| MCRPOM30 | - | 8 | - | 50 | - | 3 |

Application Example

