

Rollers

Straight Type with Set Screw Holes

Rollers – Straight Type with Set Screw Holes

RoHS 10

L Selectable	Urethane Thickness Selectable / L Configurable			Material		Hardness
	Set Screw Holes at Both Ends	Set Screw Hole at One End	Set Screw Holes at Both Ends	Core	Lining	
RONUS	ROEKUS	ROENUS		304 Stainless Steel	Urethane (Natural Color)	Shore A90
RONUA	ROEKUA	ROENUA		Aluminum Alloy		
RONGS	ROEKGS	—		304 Stainless Steel		
RONGA	ROEKGA	ROENGA		Aluminum Alloy		
RONHA	ROEKHA	ROENHA		Aluminum Alloy	Silicon Rubber	Shore A50
RONSS	—	—		304 Stainless Steel		
RONSA	—	—		Aluminum Alloy		
RONTS	—	—		304 Stainless Steel	Heat Resistant Urethane (Red Brown) Operating Temperature: ~110°C	Shore A90

① Urethane and silicon are baked on the outer circumference of the core material.

① When L<dx3, hole d is machined from the same direction.
② When L>dx3, hole d is machined from both ends as shown below. There may be no relief in some cases.

Set Screw Hole at One End

Set Screw Holes at Both Ends

6.3 / (1.6 /)

L Dimension Selectable Type (Set Screw Holes at Both Ends Type Only)

Part Number		D	d _{H7}	L							T	B	M
Type				15	20	25	30	40	50				
RONUS RONUA RONGS RONGA	RONHA	20	8							3	8	M3	
	RONSS	25	8	10	12								
	RONSA	30	8	10	12	15							
	RONTS	35	10	12	15								
		40	10	12	15								
		50	12	15									

Urethane Thickness Selectable Type (Set Screw Holes at One End / Both Ends)

Part Number		D	d _{H7}	L 10 mm Increment	T Selection	B	M
Type							
Set Screw Hole at One End ROEKUS ROEKUA ROEKGS ROEKGA ROEKHA	ROENUS	40	10	12	15	10	M5
	ROENUA	50	10	12	15		
	ROENGA	60	12	15	20		
	ROENHA	80	15	20	25		
		100	20	25	30		

① Urethane may discolor over time, but there is no effect on physical properties.

Part Number Example

Part Number - d - L - T

RONSS20 - 8 - 30

ROEKUA50 - 15 - 80 - T10

Part Number Alterations

Part Number - d - L - T - (UDC)

RONUS20 - 8 - 30 - UDC

ROEKUS50 - 15 - 80 - T10 - UDC

Alterations	Code	Spec.
Antistatic Urethane (Urethane Color: Gray)	UDC	Urethane Shore A90 (ROUSN, ROCUSN, ROUAN and ROCUAN) is changed to antistatic urethane. Ordering Code: UDC Specific Volume Resistivity 2.1 x 10 ⁸ Ωcm Surface Resistivity 40 x 10 ⁸ Ω-cm (Temperature 30°C/Humidity 60%)

Application Example

As a feeding roller for a card collator

Rollers

Press-Fit Straight Type

Features: Core material is press-fit in the surface material and more economical than the Baked Type.

Rollers – Press-Fit Straight Type

RoHS 10

Type	Material		Hardness
	Core	Urethane / Plastic	
ROUSP	304 Stainless Steel	Urethane (Natural Color)	Shore A90
ROUAP	Aluminum Alloy	Urethane (Natural Color)	Shore A90
ROMAP	Aluminum Alloy	Foam Urethane (Green)	Shore A65
ROSAP	Aluminum Alloy	Chloroprene Rubber Sponge	Shore A25

① Core material is press fit into Urethane, Foam Urethane and Chloroprene Rubber Sponge.

① When L<dx3, hole d is machined from the same direction.
② When L>dx3, hole d is machined from both ends as shown below. There may be no relief in some cases.

6.3 / (1.6 /)

Part Number		D	d _{H7} Selection					L Selection				
Type			8	10	12	15	20	25	30	40	50	
Urethane ROUSP ROUAP	20	8										
	(25)	8	10	12								
	(30)	8	10	12	15							
	35		10	12	15	20						
	40		10	12	15	20						
	(50)		12	15	20	25						

① Chloroprene rubber sponge is available in sizes in () only.

Part Number Example

Part Number - d - L

ROUSP20 - 8 - 30

Part Number Alterations

Part Number - d - L - (MC / UDC)

ROUSP20 - 8 - 30 - UDC

Foam Urethane

Each bubble is divided by walls resulting in lower absorption of water, oil and chemicals compared to general sponges with connected cells. Also, it excels in gripping power and shock absorption compared to conventional urethane and other general rubber.

Urethane Load (Reference)

Material	Load Standard N(kgf)	
	Radial	Axial
Urethane	147 (15)	242 (25)
Foam Urethane	97 (10)	97 (10)
Chloroprene Rubber Sponge	—	18 (2)

*Data above are for reference only, not guaranteed values.

- ① A core material is press fit into urethane, foam urethane and chloroprene rubber sponge, and unbalanced load may cause urethane and sponge part to slip or misalign with the core.
- ② Urethane may discolor over time, but there is no effect on physical properties.

Chloroprene Rubber Sponge

A chloroprene polymerized synthetic rubber. In comparison to natural rubber, it excels in rebound resilience, weather resistance, aging resistance, ozone resistance, heat resistance, and oil resistance. While it is a well-balanced rubber material, it is not suitable for use in low temperature (less than -35°C).

For the properties, see P.2566.

Alterations	Code	Spec.								
Tapping	MC	Adds 2 tapped holes at 90°. <table border="1"> <thead> <tr> <th>D</th> <th>M</th> </tr> </thead> <tbody> <tr> <td>20, 25, 30</td> <td>3</td> </tr> <tr> <td>35, 40</td> <td>4</td> </tr> <tr> <td>50</td> <td>5</td> </tr> </tbody> </table> Ordering Code: MC	D	M	20, 25, 30	3	35, 40	4	50	5
D	M									
20, 25, 30	3									
35, 40	4									
50	5									
Change to Antistatic Urethane (Urethane Color: Gray)	UDC	Urethane Shore A90 is changed to Antistatic Urethane. Ordering Code: UDC Specific Volume Resistivity 2.1 x 10 ⁸ Ωcm Surface Resistivity 4.0 x 10 ⁸ Ω (Temperature 30°C/Humidity 60%) ① Not applicable to foam urethane (ROMAP).								