

Metal Rollers

-Straight Crown Type / Female Thread Type / Bearing Type

CAD Data Folder Name: 16_Rollers

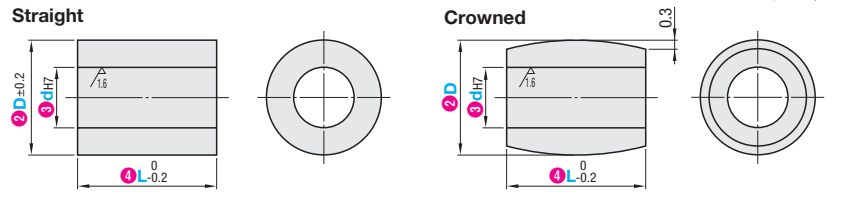
When ordering, select Part Number and Values from Selection Steps ①~④.

Ordering Example: Part Number (①Type-②D) - ③d - ④L
ROLB20 - **8** - **30**

■ Straight Crown Type **Configurable**

Type		Material	Surface Treatment
Straight	Crowned		
ROLB	-	S45C Equiv.	Black Oxide
ROLM	-		Electroless Nickel Plating
ROLS	ROCS	SUS304 Equiv.	-
ROLA	ROCA		Clear Anodize

⑤ Machining conditions will be different depending on d dimension and L dimension. Refer to P.912 for details.



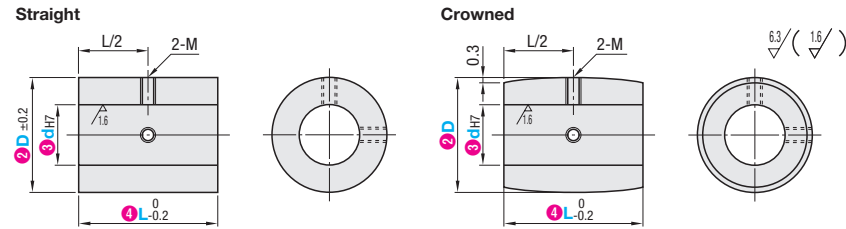
CAD 2D 3D **RoHS**

Part Number		③ dH7 Selection					④ L Selection							
① Type	② D													
Straight ROLB ROLM ROCS ROLA	Crowned ROCA	20	8				15	20	25	30	40	50		
		25	8	10	12		15	20	25	30	40	50		
		30	8	10	12	15		15	20	25	30	40	50	
		35	10	12	15	20		20	25	30	40	50		
	Straight ROLS	40		10	12	15	20		20	25	30	40	50	
		50			12	15	20	25		25	30	40	50	100
		60			12	15	20	25	30		30	40	50	100
		80			15	20	25	30		40	50	100		

■ Female Thread Type **Configurable**

Type		Material	Surface Treatment
Straight	Crowned		
ROLSN	ROCSN	SUS304 Equiv.	-
ROLAN	ROCAN		Clear Anodize

⑤ Machining conditions will be different depending on D dimension and L dimension. Refer to P.888 for details.



CAD 2D 3D **RoHS**

Part Number		③ dH7 Selection					④ L Selection					M			
① Type	② D														
Straight ROLSN ROLAN	Crowned ROCSN ROCAN	20	8				15	20	25	30	40	50	M		
		25	8	10	12		15	20	25	30	40	50	M3		
		30	8	10	12	15		15	20	25	30	40	50	M3	
		35	10	12	15	20		20	25	30	40	50	M4		
	Straight ROLSN ROLAN	40		10	12	15	20		20	25	30	40	50	M4	
		50			12	15	20	25		25	30	40	50	100	M5
		60			12	15	20	25	30		30	40	50	100	M5
		80			15	20	25	30		40	50	100			

Days to Ship: **5** Days (Others: **7** Days) **Express B**

Order Quantity	Standard Service	Non-Standard Service
	Regular Quantity	Large Quantity
Quantity	1-30	31-50
Days to ship	Standard	To be quoted

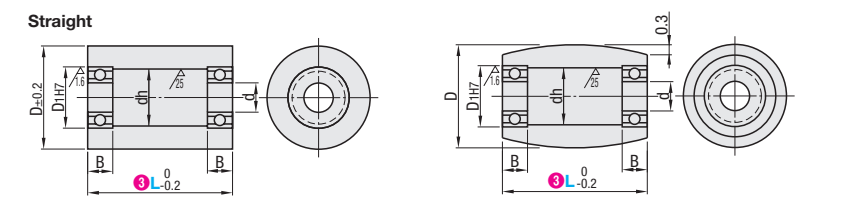
When ordering, select Part Number and Values from Selection Steps ①~③.

Ordering Example: Part Number (①Type-②No.) - ③L
RORB30 - **30**

■ Bearing Type **Configurable**

Type		Material	Surface Treatment
Straight	Crowned		
RORB	ROCRB	S45C Equiv.	Black Oxide
RORM	ROCRM		Electroless Nickel Plating
RORS	ROCRS	SUS304 Equiv.	-
RORA	ROORA		Clear Anodize

⑤ For bearing detailed dimensions, refer to P.655 and 657.



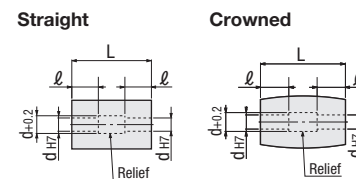
CAD 2D 3D **RoHS**

Part Number		D	③ L Selection										d	D _{1(H7)}	dh	B	Bearing		
① Type	② No.																		
Straight RORB RORM RORS RORA	Crowned ROCRB ROCRM ROCRS ROORA	20	15	20	25	30	40	50							6	15	10	5	696ZZx2
		25	20	25	30	40	50	60	70	80	90	100			6	15	10	5	696ZZx2
		30	20	25	30	40	50	60	70	80	90	100			8	19	15	6	698ZZx2
		35A	25	30	40	50									8	22	15	7	608ZZx2
		35	25	30	40	50	60	70	80	90	100				10	22	18	6	6900ZZx2
	Straight RORB RORM RORS RORA	40A	25	30	40	50									10	26	18	8	6000ZZx2
		40	25	30	40	50	60	70	80	90	100				12	28	24	8	6001ZZx2
		50A	25	30	40	50									12	32	24	10	6201ZZx2
		50	25	30	40	50	60	70	80	90	100				15	32	28	9	6002ZZx2

Days to Ship: **5** Days (Others: **7** Days) **Express B**

Order Quantity	Standard Service	Non-Standard Service
	Regular Quantity	Large Quantity
Quantity	1-30	31-50
Days to ship	Standard	To be quoted

⑤ Machining Conditions of Round Hole Type and Set Screw Type



⑥ L Dimension

d	Overall Length L Dimension						
	15	20	25	30	40	50	100
8	No Relief		8	8	16	16	-
10	No Relief			10	10	10	-
12	No Relief				12	24	24
15	No Relief					15	30
20	No Relief						40
25	No Relief						25
30	No Relief						30

⑥ When L<dx3, straight (no relief).
 When L>dx3, effective length of both sides dx1(ℓ), others with relief.
 When L>dx4, effective length of both sides dx2(ℓ), others with relief.
 * There may be no relief in some cases.

Urethane, Rubber Lined Rollers

-Bearings Type-

Urethane, Silicon, and NBR are baked on the outer circumference of the core material.

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When ordering, select Part Number and Values from Selection Steps 1~3.

Ordering Example

Part Number (1 Type-2 No.) - 3 L

RORUS30 - 30

RORHS40 - 100

Configurable

Type	Material Core	Surface Treatment (Lining)	Bearing	Hardness
RORUS	SUS304 Equiv.	Urethane (Natural Color)	Steel	Shore A90
RORUZ	SUS304 Equiv.		Stainless Steel	
RORUA	5000series Alum.Alloy		Steel	Shore A70
RORGS	SUS304 Equiv.			
RORGA	5000series Alum.Alloy			
RORHS	SUS304 Equiv.			
RORHA	5000series Alum.Alloy	Silicon Rubber (Light Gray)	Steel	Shore A70
RORSS	SUS304 Equiv.			
RORSA	5000series Alum.Alloy			
RORJS	SUS304 Equiv.			
RORJA	5000series Alum.Alloy			
RORWS	SUS304 Equiv.			
RORTS	SUS304 Equiv.	Heat Resistant Urethane (Red Brown)	Shore A90	
RORTA	5000series Alum.Alloy	Operating Temperature: ~ 110°C	Shore A60	
RORNS	SUS304 Equiv.	NBR (Black)		

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

For bearing detailed dimensions, refer to P.655 and 657.

Part Number			D	3 L Selection	d	D1 (H7)	dh	B	Bearing	
1 Type	2 No.	3								
Urethane RORUS RORUZ RORUA RORGS RORGA RORHS RORHA	Silicon	25	25	20 25 30 40 50 60 70 80 90 100	6	15	10	5	696ZZx2	
		30	30	20 25 30 40 50 60 70 80 90 100	8	19	15	6	698ZZx2	
	Heat Resistant Urethane	35A	35	25 30 40 50	8	22	15	7	608ZZx2	
		35	35	25 30 40 50 60 70 80 90 100	10	22	18	6	690ZZx2	
	NBR	40A	40	25 30 40 50	10	26	18	8	6000ZZx2	
		40	40	25 30 40 50 60 70 80 90 100	12	28	24	8	6001ZZx2	
		50A	50	25 30 40 50	12	32	24	10	6201ZZx2	
			50	50	25 30 40 50 60 70 80 90 100	15	32	28	9	6002ZZx2

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

Days to Ship

Urethane: 5 Days

Silicon Rubber, Heat Resistant Urethane, NBR: 7 Days

Order Quantity	Standard Service	Non-Standard Service
	Regular Quantity	Large Quantity
Quantity	1~50	51~
Days to ship	Standard	To be quoted

Urethane Lined Rollers

-Bearings, Urethane Thickness Selectable Type-

Urethane Thickness Selectable

CAD Data Folder Name: 16_Rollers

When ordering, select Part Number and Values from Selection Steps 1~5.

Ordering Example

Part Number (1 Type-2 D) - 3 d - 4 L - 5 T

ROERUS60 - 20 - 50 - T5

Configurable

Type	Material		Hardness	Bearing
	Core	Lining		
ROERUS	SUS304 Equiv.	Urethane (Natural Color)	Shore A90	Steel
ROERUA	5000series Alum.Alloy			
ROERGS	SUS304 Equiv.		Shore A70	
ROERGA	5000series Alum.Alloy			
ROERHS	SUS304 Equiv.			
ROERHA	5000series Alum.Alloy			

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

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

For bearing detailed dimensions, refer to P.655.

Part Number			3 d Selection	4 L 10mm Increment	5 T Selection	D1	dh	B	Bearing
1 Type	2 D	3							
ROERUS ROERUA ROERGS ROERGA ROERHS ROERHA	UrethaneA90/SUS304	40	8	20~100	5	19	15	6	698ZZx2
		10	22			18	6	6900ZZx2	
	UrethaneA90/A5052	10	22			18	6	6900ZZx2	
		12	28			24	8	6001ZZx2	
	UrethaneA70/SUS304	60	15			32	9	6002ZZx2	
		12	32			28	9	6002ZZx2	
	UrethaneA70/A5052	60	20		42	12	6004ZZx2		
		15	32		28	9	6002ZZx2		
	UrethaneA50/SUS304	80	20		42	12	6004ZZx2		
		25	42		36	12	6005ZZx2		
UrethaneA50/A5052	80	20	42	12	6004ZZx2				
	25	47	41	12	6005ZZx2				
	100	20	42	12	6004ZZx2				
		25	47	41	12	6005ZZx2			
		30	55	48	13	6006ZZx2			

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

Days to Ship

7 Days

Express B

Order Quantity	Standard Service	Non-Standard Service
	Regular Quantity	Large Quantity
Quantity	1~20	21~
Days to ship	Standard	To be quoted

