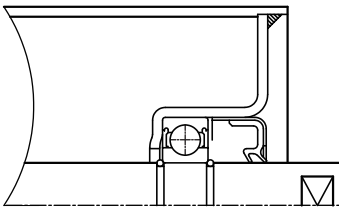
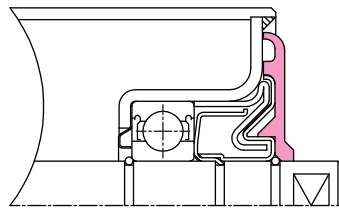
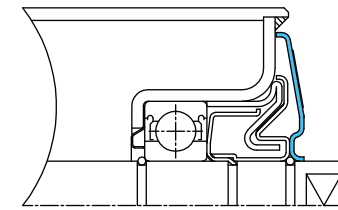
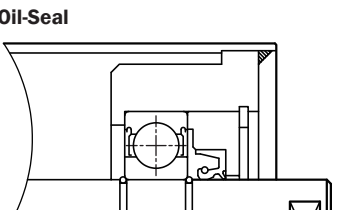




Optional Parts Overview

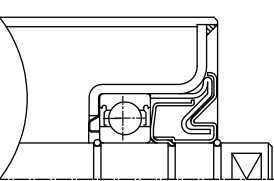
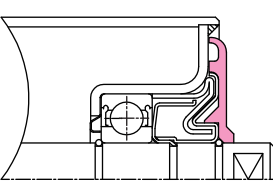
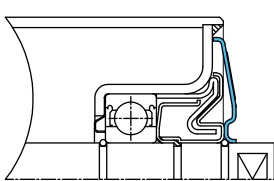
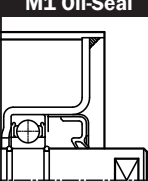
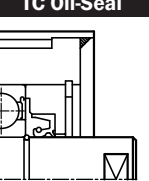






























Parts Characteristics Table

The standard roller can be enhanced with the optional parts listed in the table below.

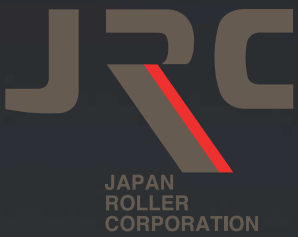
	Oil-Seal (B)	GS Guard (G)	NS Guard (N)
Structure example	M1 Oil-Seal 		
	TC Oil-Seal 		
Characteristics	Contact Seal with Lip - Effectively prevents the ingress of dust and water from the outside of the roller.	Attached to the Shaft on the Side of the Roller - Blocks external dust and water before the labyrinth seal, preventing materials from catching on the roller's side.	Attached to the Shaft on the Side of the Roller - Adds dustproof, waterproof, and anti-jamming functions. In addition, it is free from ignition risks and offers excellent corrosion resistance.
Enhanced Features	<ul style="list-style-type: none">Improved sealing performance	<ul style="list-style-type: none">Improved sealing performanceAdded anti-jamming function	<ul style="list-style-type: none">Improved sealing performanceAdded anti-jamming functionAdded non-flammabilityAdded corrosion and weather resistance

Parts Comparison Chart

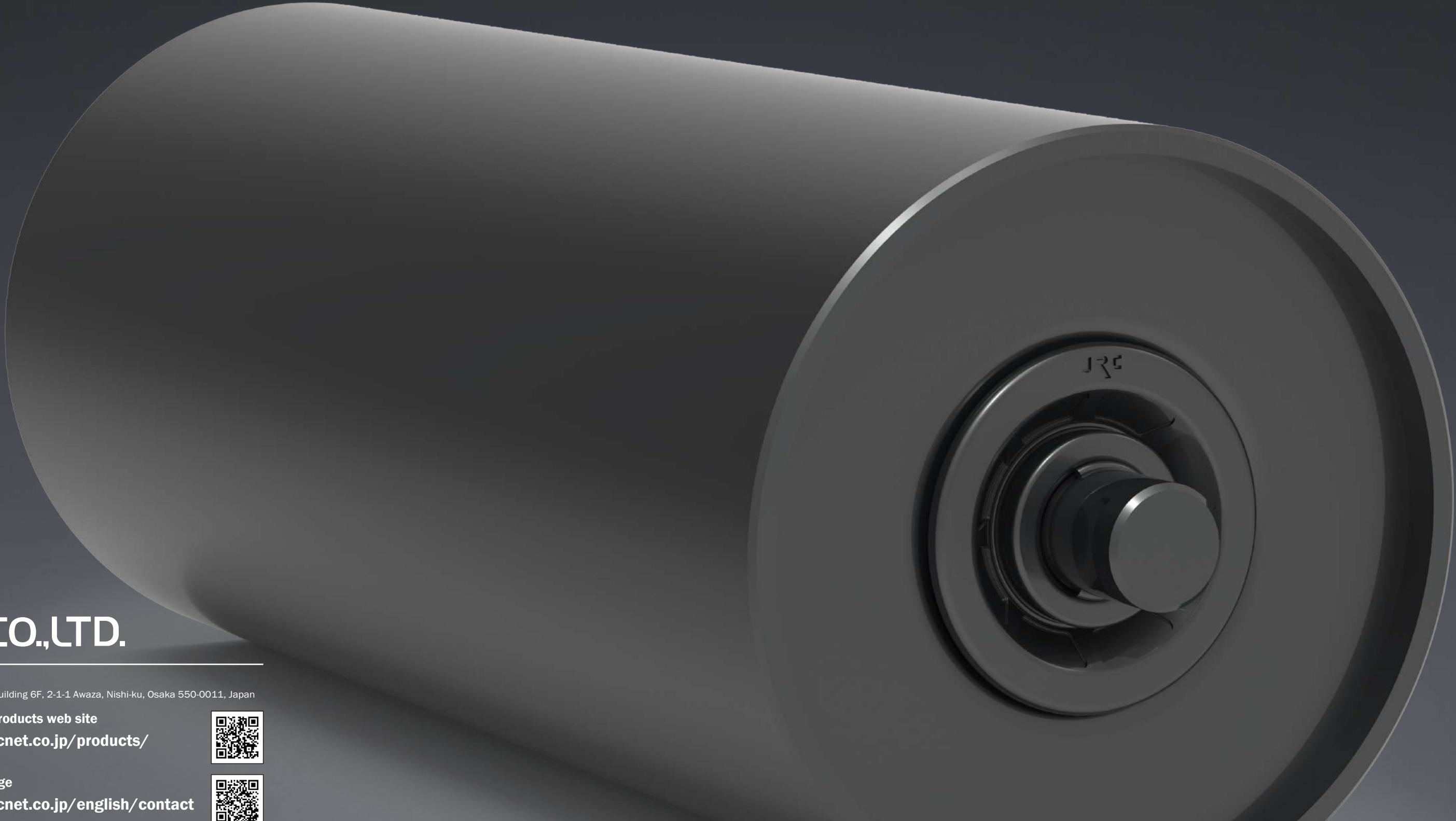
We offer a diverse range of standard roller options, all made to order to meet your specific needs. Choose the perfect parts for your requirements :

Model	Labyrinth-Seal (A)	Oil-Seal (B)		GS-Guard (G)	NS-Guard (N)
Cross Section Diagram		M1 Oil-Seal	TC Oil-Seal		
					
Running accuracy					
Running resistance					
Sealing Performance					
Anti-Jamming Prevention					
Non-Combustibility					
Durability					

Our products are rated on a five-point scale, with colors indicating performance levels. The blue arrows show that the darker the color (right), the better the performance, based on the labyrinth seal (A).



JRC ROLLER PRODUCT-SYSTEM



JRC CO.,LTD.

Headquarters
CAMCO Nishihonmachi Building 6F, 2-1-1 Awaza, Nishi-ku, Osaka 550-0011, Japan

JRC Conveyor Products web site
<https://www.jrcnet.co.jp/products/>

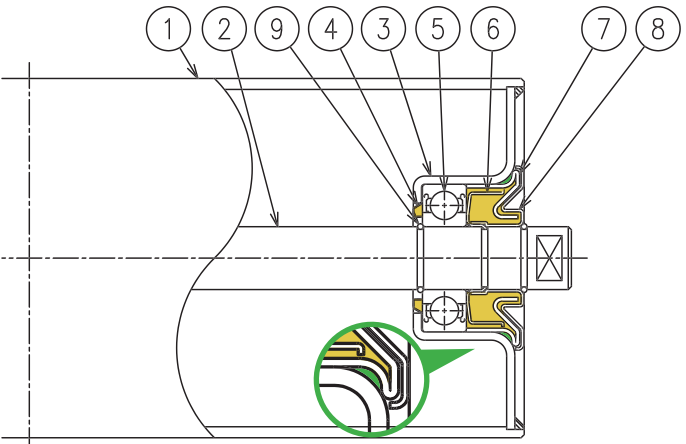
JRC Contact Page
<https://www.jrcnet.co.jp/english/contact>





JRC Standard Roller

Characteristics

Standard Roller Internal Structure :



No.	Parts name	Material	Quantity
1	Shell (Pipe)	STK400	1
2	Shaft Axis	SS400	1
3	Housing	SPCC	2
4	Back Seal	SPCC	2
5	Bearing	SUJ2	2
6	Inner Plate	SPCE	2
7	Hole Labyrinth Seals	SPCE	2
8	Axle Labyrinth Seal	SPCE	2
9	Circlip	SWC80	4

 Grease Filling Space  Caulking Application Area

Feature of Parts of JRC Standard Roller

- Shell (Pipe)**
The shell is made from high-precision, specialized materials, and the entire housing is welded to ensure sealing performance and strength. Additionally, JRC's original fully automated roller assembly line allows for stable assembly, resulting in rollers with extremely low rotational runout.
- Shaft**
The shaft is made from specially designed cold-finished steel bars, engineered according to JRC's own dimensional standards (which are stricter than JIS specifications). This design eliminates any rolling or slipping between the bearing and the shaft, enabling high-speed rotation and operation under heavy loads.
- Housing**
The housing is constructed with a strong structure by dividing the pressing process into multiple steps, ensuring precise management of joint accuracy. This design allows for the production of rollers with lightweight rotating parts.
- Labyrinth Seal**
The labyrinth seal is an innovative, non-contact steel seal developed by JRC. When the roller rotates, the labyrinth seal itself expels foreign particles. Additionally, by injecting special grease inside the seal, it provides excellent dustproof and waterproof performance. The seal is also fitted into a groove on the shaft, offering resistance to thrust loads.
- Grease**
The grease is a specially developed product created in collaboration with a grease manufacturer to meet JRC's requirements. This proprietary grease, which provides excellent dustproof and waterproof performance and low initial resistance, is filled in the space of the non-contact labyrinth seal. (Operating temperature range: -25 °C to 120 °C)
- Caulking**
The caulking process is applied to the holes between the housing and labyrinth seal, enhancing dustproof and waterproof performance.

Assembling process of JRC standard roller

JRC's head office factory (Minami-Awaji City, Hyogo Prefecture) is home to the only fully automated roller assembly line in Japan, enabling unmanned roller manufacturing processes from material cutting to assembly. We have established a stable supply and prompt delivery system for high-precision rollers with no variation in quality.

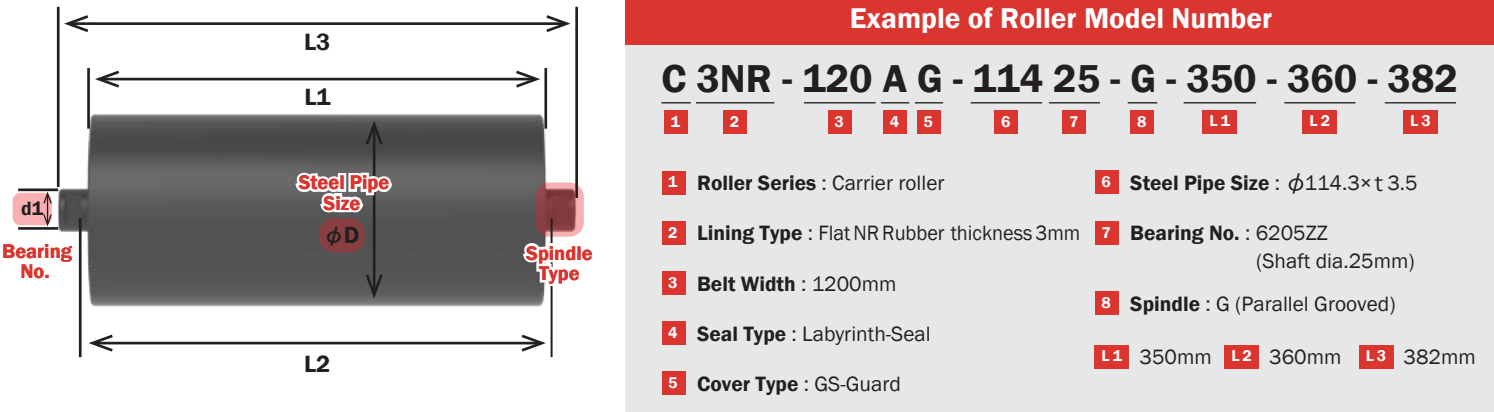


▲ Factory Video
Click here to visit our YouTube.

JRC's Roller Model Number System

□ □ - ○ □ □ - D d1 - □ - L1 - L2 - L3

1 2 3 4 5 6 7 8



1 Roller Series Code

Code	C	R	GC	GVR	GU
Roller Series	Carrier Roller	Return Roller	Suspended Carrier Roller	Suspended V-Return Roller	Guide Roller
Image					

*Please refer to the table on page 7, "Manufacturable Roller Sizes (Combination and Lining)" for manufacturable sizes.

2 Lining Type Code

Code	Lining Type	Lining Image	Purpose
(blank)	Non lined (Standard)		The shell surface refers only to the coating on the raw steel pipe.
3NR	Flat NR Rubber thickness 3mm		By lining the outer surface of the shell with NR rubber, which is softer than steel pipes, it prevents the adhesion of conveyed materials to the shell surface and reduces noise during belt operation.
5NR	Flat NR Rubber thickness 5mm		
3NBR	Flat NBR Rubber thickness 3mm		
5NBR	Flat NBR Rubber thickness 5mm		
DL	Soft Rubber (Dangoless)		NR rubber featuring a softness greater than the standard rubber(*) enhances the effect of preventing the adhesion of conveyed materials by lining the outer surface of the shell. *the standard rubber : 3NR,5NR,3NBR,5NBR
IM	M-Type Cushion NR Rubber		NR rubber featuring grooves around it, where the convex parts flexibly deform, absorbs impact loads and prevents damage to the belt and roller.
IT	T-Type Cushion NR Rubber		NR rubber featuring holes along the entire length of the roller flexibly deforms, absorbing more severe impact loads than the M-type and preventing damage to the belt and roller. *M-Type : M-Type Cushion NR Rubber
RG	Sleeve Ring NR Rubber		NR rubber featuring a narrow width reduces the contact area with the belt prevents the peeling of materials adhered to the belt.
KNR	Fall Prevention Ring NR Rubber		NR rubber featuring a narrower width than Sleeve Ring NR-Rubber minimizes the contact area with the belt and prevents materials adhered to the belt from peeling off.

3 Belt Width (cm)

Please enter the belt width. Leave blank if unknown.

4 Seal Type Code

Code	A	B
Seal Type	Labyrinth-Seal	Oil-Seal
Image		

*Please refer to the table below, "Applicable Seal & Cover type" for available sizes.

6 Steel Pipe Size

D	Steel Pipe Size(mm)	D	Steel Pipe Size(mm)
61	φ60.5×t 2.3	133	(φ135.0×t 6.0)
76	φ76.3×t 2.8	140	φ139.8×t 3.5
89	φ89.1×t 2.8	159	(φ159.0×t 6.0)
102	φ101.6×t 3.2	165	φ165.2×t 3.7
114	φ114.3×t 3.5	191	φ190.7×t 4.5
127	(φ127.0×t 4.5)		

*The sizes marked in yellow indicate JRC's standard mass production sizes. The sizes in (parentheses) are for reference only, and other sizes can be manufactured upon request. However, special materials may be required.

Applicable Seal & Cover type

- Seal Code The items marked in blue indicate standard products.

Shaft Dia. d1	Steel Pipe CODE D										
	61	76	89	102	114	(127)	(133)	140	(159)	165	191
φ17	A / B	A / B	A / B	A / B	A / B						
φ20	A / B	A / B	A / B	A / B	A / B	A / B	A / B	A / B			
φ25		A / B	A / B	A / B	A / B	A / B	A / B	A / B	A / B	A / B	
φ30		A / B	A / B	A / B	A / B	A / B	A / B	A / B	A / B	A / B	A / B
φ35			A / B	A / B	A / B	A / B	A / B	A / B	A / B	A / B	A / B
φ40				A / B	A / B	A / B	A / B	A / B	A / B	A / B	A / B
φ45					A / B	A / B	A / B	A / B	A / B	A / B	A / B
φ50						A / B	A / B	A / B	A / B	A / B	A / B

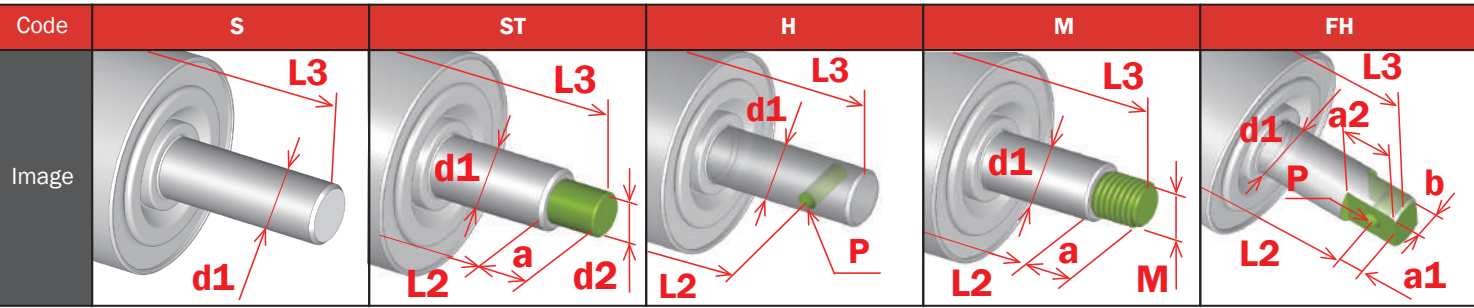
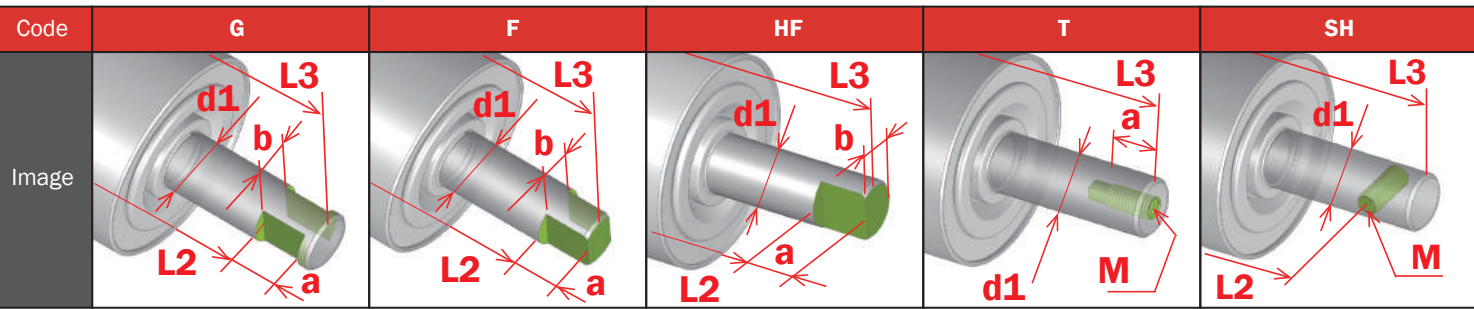
*A :Labyrinth-Seal B :Oil-Seal

- [Option] Cover Code

Shaft Dia. d1	Steel Pipe Code D										
	61	76	89	102	114	(127)	(133)	140	(159)	165	191
φ 20		G	G / N	G / N	G / N	G / N	G / N				
φ 25			G	G	G / N	G / N	G / N	G / N	G / N		
φ 30										G / N	G / N
φ 35										G / N	G / N

*G:GS-Guard N:NS-Guard

8 Spindle Code



Spindle Dimensions

These codes apply to rollers that are symmetrical in their left and right axes.

Spindle Code: G	d1	17	20	25	30	35	40	45	50
	a	8			11				
	b	13	14	18	22	25	32	35	39

Spindle Code: ST	d1	17	20	25	30	35	40	45	50
	a				(L3 — L2) / 2				
	d2	15	17	20	25	30	35	40	45

Spindle Code: F	d1	17	20	25	30	35	40	45	50
	a				(L3 — L2) / 2				
	b	13	14	18	22	25	32	35	39

Spindle Code: HF	d1	17	20	25	30	35	40	45	50
	a				(L3 — L2) / 2				
	b	13	14	18	22	25	32	35	39

Spindle Code: T	d1	17	20	25	30	35	40	45	50
	a	18		25	30	35	40		
	M	M6		M8	M10	M12	M16		

Spindle Code: SH	d1	17	20	25	30	35	40	45	50
	a	M6		M8	M10	M12	M16		

Spindle Code : S	d1	17	20	25	30	35	40	45	50
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Spindle Code: FH	d1	17	20	25	30	35	40	45	50
	a1	8	11	12	16	20			
	a2	(L3—L1)/2—4			(L3 — L1) / 2—5				
	b	13	14	18	22	25	32	35	39
	P	φ 8.3	φ10.5	φ12.5	φ 16.5	φ 20.5			

We can manufacture products in other dimensions. Please contact us.

Manufacturable Roller Sizes (Combination and Lining)

Steel Pipe Code	Pipe Diameter (mm)	Bearing Combination	Lined Roller Overall Diameter (mm) / Rubber Length (mm)						
			3NR 3NBR Flat rubber	5NR 5NBR Flat rubber	DL Soft rubber	IM M-type cushion rubber	IT T-type cushion rubber	RG Sleeve ring	KNR Fall prevention ring
61	φ60.5	6203ZZ (φ17) 6204ZZ (φ20)	φ67 Max.1500	φ71 Max.1500	φ71 Max.1500	φ90 Max.670	φ90 Max.280		
76	φ76.3	6203ZZ (φ17) 6204ZZ (φ20) 6205ZZ (φ25) 6206ZZ (φ30)	φ82 Max.1800	φ86 Max.1800	φ86 Max.1800	φ100 Max.1300	φ115 Max.540		
89	φ89.1	6203ZZ (φ17) 6204ZZ (φ20) 6205ZZ (φ25) 6206ZZ (φ30) 6207ZZ (φ35)	φ95 Max.1800	φ99 Max.1800	φ99 Max.1800	φ115 Max.1500	φ140 Max.690	φ114 50 100/150/200	φ159 44 60
102	φ101.6	6203ZZ (φ17) 6204ZZ (φ20) 6205ZZ (φ25) 6206ZZ (φ30) 6207ZZ (φ35) 6308ZZ (φ40)	φ108 Max.1800	φ112 Max.1800			φ166 Max.810		
114	φ114.3	6203ZZ (φ17) 6204ZZ (φ20) 6205ZZ (φ25) 6206ZZ (φ30) 6207ZZ (φ35) 6308ZZ (φ40) 6309ZZ (φ45)	φ120 Max.1800	φ124 Max.1800	φ124 Max.1800	φ140 Max.2100	φ200 Max.940	φ144 50 100/150/200	φ184 44 60
(127)	φ127.0	6204ZZ (φ20) 6205ZZ (φ25) 6206ZZ (φ30) 6207ZZ (φ35) 6308ZZ (φ40) 6309ZZ (φ45) 6310ZZ (φ50)	φ133 Max.1800	φ137 Max.2200					
(133)	φ135.0	6204ZZ (φ20) 6205ZZ (φ25) 6206ZZ (φ30) 6207ZZ (φ35) 6308ZZ (φ40) 6309ZZ (φ45) 6310ZZ (φ50)	φ141 Max.1800	φ145 Max.2200					
140	φ139.8	6204ZZ (φ20) 6205ZZ (φ25) 6206ZZ (φ30) 6207ZZ (φ35) 6308ZZ (φ40) 6309ZZ (φ45) 6310ZZ (φ50)	φ146 Max.1800	φ150 Max.2200	φ150 Max.2200	φ166 Max.2250		φ170 50 150/225	φ210 44 100
(159)	φ159.0	6205ZZ (φ25) 6206ZZ (φ30) 6207ZZ (φ35) 6308ZZ (φ40) 6309ZZ (φ45) 6310ZZ (φ50)	φ165 Max.2800	φ169 Max.2800					
165	φ165.2	6205ZZ (φ25) 6206ZZ (φ30) 6207ZZ (φ35) 6308ZZ (φ40) 6309ZZ (φ45) 6310ZZ (φ50)	φ171 Max.2800	φ175 Max.2800	φ175 Max.2800			φ195 50 225/300	
191	φ190.7	6206ZZ (φ30) 6207ZZ (φ35) 6308ZZ (φ40) 6309ZZ (φ45) 6310ZZ (φ50)	Please contact us for available sizes.						

(*)Lining Type Code: RG, KNR
The upper row indicates the centering length, and the lower row indicates the side ring length.
For types with a listed maximum length, the minimum length may vary depending on the combination with the shaft.
If a shorter roller is required, please contact us.