







## GOOR V-03-75-S-H

Transmission Type	Rail Type		Roller (Ball) Diameter (mm)	Rail Length (mm)	Corrosion resistance Material	Precision Level
GR	V-Rails	D-Rails	03	75	S	H
GOOR : Roller SUS304 Retainer			00 : Ø1.0 01 : Ø1.5 02 : Ø2.0 03 : Ø3.0	Length selection as specification table	S:SUS440C + Ni	P:Precision Grade H:High Grade
GOOB : Ball SUS304 Retainer			04 : Ø4.0 06 : Ø6.0 09 : Ø9.0			
GOOR : Roller POM Retainer			P - POM Retainer 01 : Ø1.5 02 : Ø2.0 03 : Ø3.0 04 : Ø4.0 06 : Ø6.0			

Model No.	Material			
	Rail	Retainer	Roller	Ball
GOORV	SUJ2	SUS304	SUJ2	X
GOORD				
GOORV-S	SUS440C+Ni	SUS304	SUS440C	X
GOORD-S				
GOORVG-S		Brass + Ni		X
GOORVP	SUJ2	POM	SUJ2	X
GOORDP				
GOORVG		Brass		
GOOBV	SUJ2	Phosphor bronze (C5191)	X	SUJ2
GOOBD				

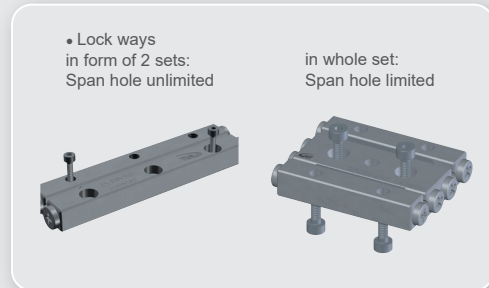
GOORV-S; GOORD-S; GOORVG-S Series are antirust and corrosion resistant specification, and suitable for application to clean rooms.

© Rails have been finished with cryogenic treatment (Refer to P.0451)

# Silde Rail Set-Selection & Introduction

## Selection Procedure- Crossed Roller Slide Rail Set

1. Rolling element retainer selection upon load request :
2. Heavy duty → roller, light duty→ ball.
3. To decide "rolling element diameter"
4. Model type selected per installation way.
5. Specification confirmed.
6. Material selection per environment :  
SUSJ2 or SUS440C.



## GOOYII Crossed Roller Slide Rail Set

Composed of two pieces of stainless steel rails with V-grooves, been hardened and ground forming precisely, and rolling elements. Roller type moves in connective 90 degrees alternately to meet requirement of high parallelism and high flatness. In construction, rolling elements are transmitted in cross-contact by precise roller and V-grooves in rails, and in non circulation. Variation caused by friction resistance is little as well, even almost no difference between starting friction resistance and dynamic friction resistance in light duty. High accuracy moving and loading capacity could be performed.

©Comparison of roller and ball character ( Refer to P.0209~P.0210)

## Crossed Roller Slide Rail Set Application

Widely applied to accuracy moving device in heavy duty or light duty, in variety of measuring instrument, Printed Circuit Board drilling machine...etc, or slide table used in Optical Measuring Instrument, Precise Gauge in Optical Experiment, precision fine tuning Optical Stage, Operation Mechanism, Survey Device, precise positioning, quantitative movement, X-ray Device & Micro-hole EDM.

## Lubrication

Linear motion needs effective lubrication. Abrasion increase of rolling elements and life decrease would be caused in running without lubrication.

Function of lubrication :

- 1.Reduce friction between running parts greatly, so that it could prevent lock and decrease abrasion.
- 2.Forming oilfilm on rolling surface to reduce abrasion of metal medium to extend life of rolling elements.
- 3.Covering on metal surface to prevent rust.

©Relevant request of lubricant Compatibility (Refer to P.0450)