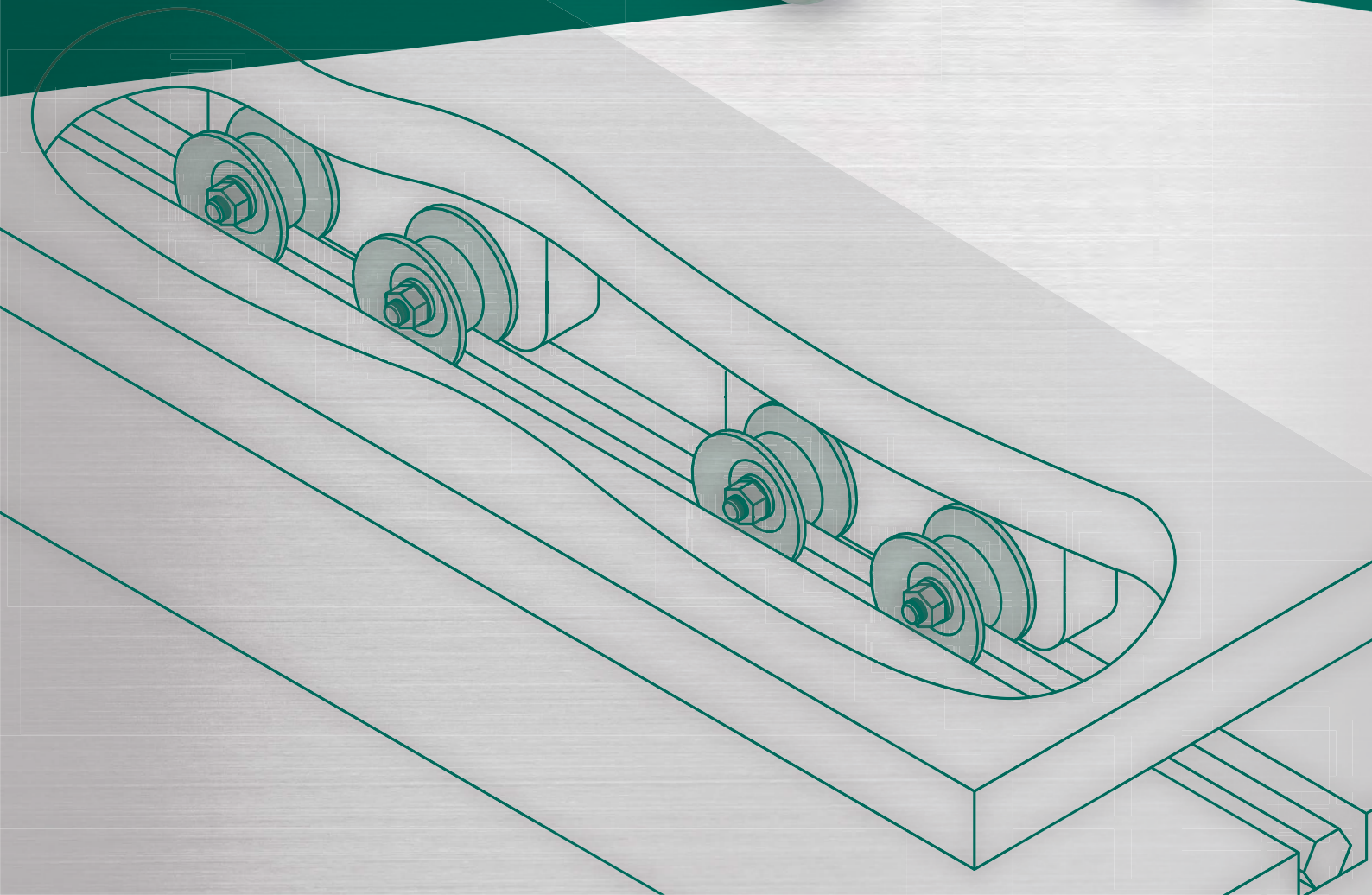
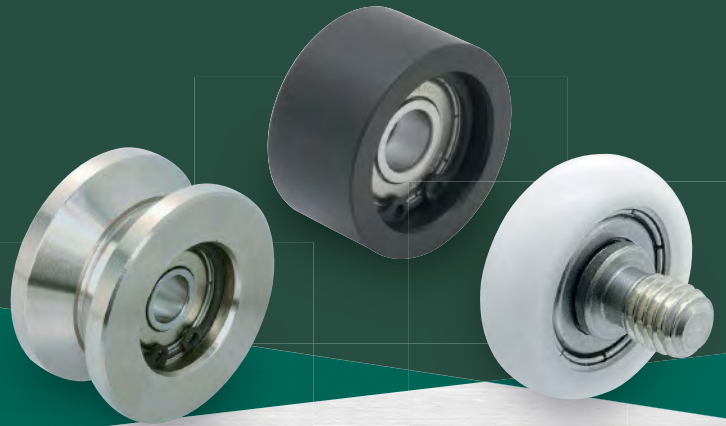
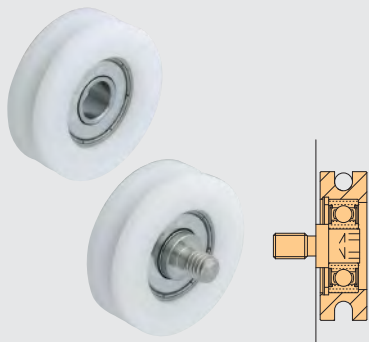


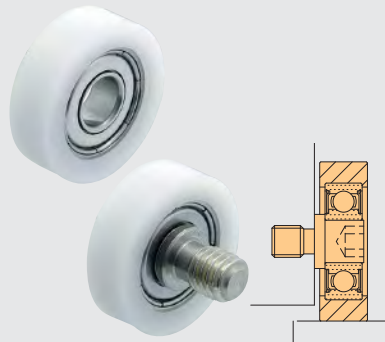
# Bearing Guide Rollers





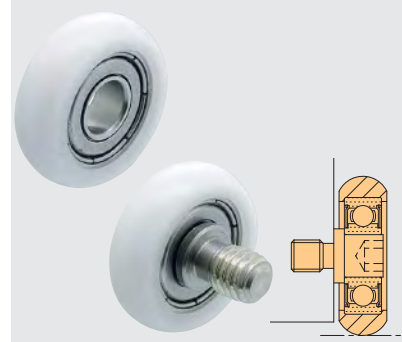
**DEEP U GROOVE PLASTIC GUIDE ROLLERS**

Part No. GRL-P-D-SUS



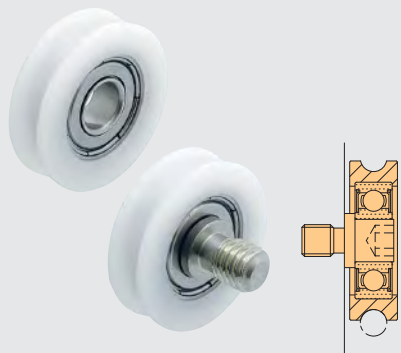
**FLAT PLASTIC GUIDE ROLLERS**

Part No. GRL-P-F-SUS



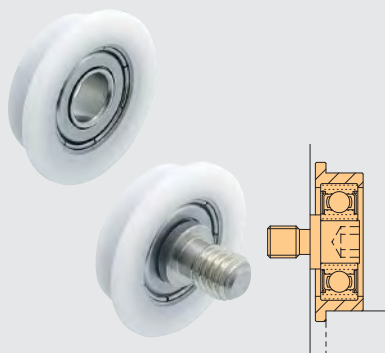
**ROUND PLASTIC GUIDE ROLLERS**

Part No. GRL-P-U-SUS



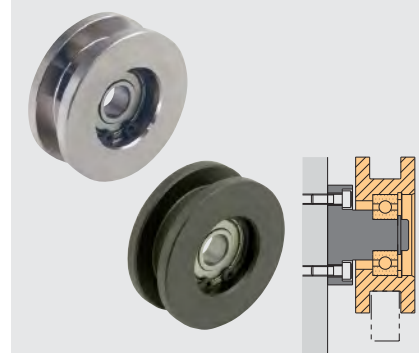
**U GROOVE PLASTIC GUIDE ROLLERS**

Part No. GRL-P-R-SUS



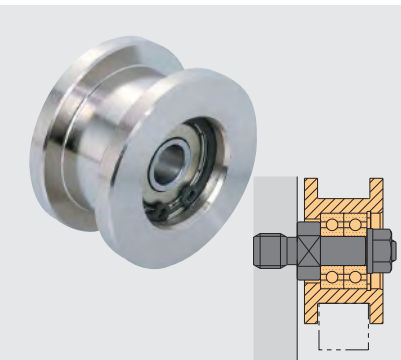
**SINGLE-FLANGED PLASTIC GUIDE ROLLERS**

Part No. GRL-P-L-SUS



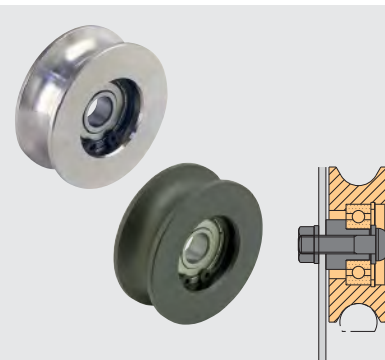
**DOUBLE-FLANGED GUIDE ROLLERS**

Part No. GRL-H



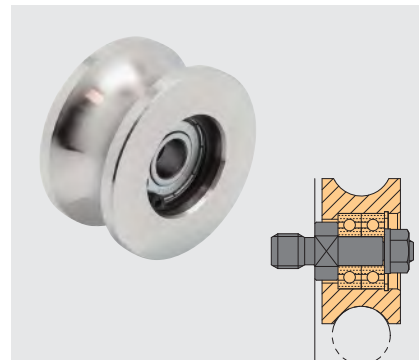
**DOUBLE-FLANGED GUIDE ROLLERS (DOUBLE BEARINGS)**

Part No. GRL-S2-H



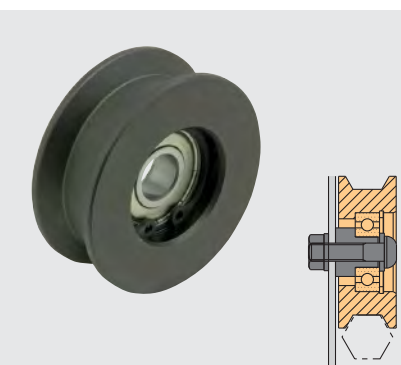
**U GROOVE GUIDE ROLLERS**

Part No. GRL-R



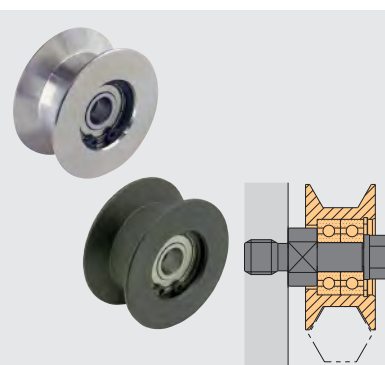
**U GROOVE GUIDE ROLLERS (DOUBLE BEARINGS)**

Part No. GRL-S2-R



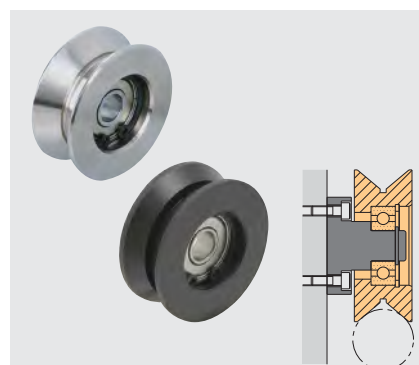
**V GROOVE GUIDE ROLLERS**

Part No. GRL-SH1-V



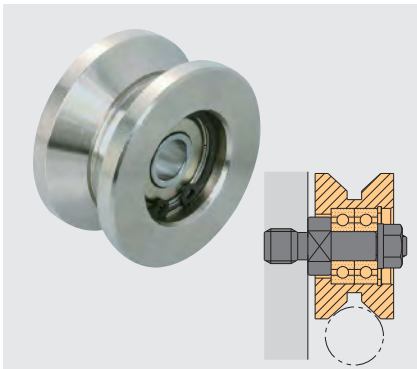
**V GROOVE GUIDE ROLLERS (DOUBLE BEARINGS)**

Part No. GRL-V



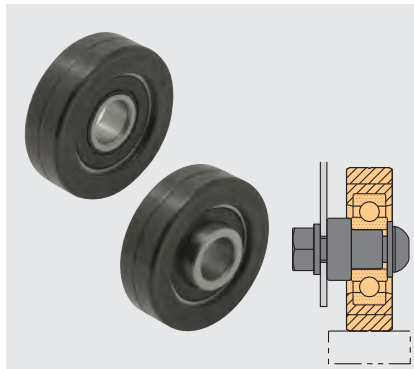
**Y GROOVE GUIDE ROLLERS**

Part No. GRL-Y



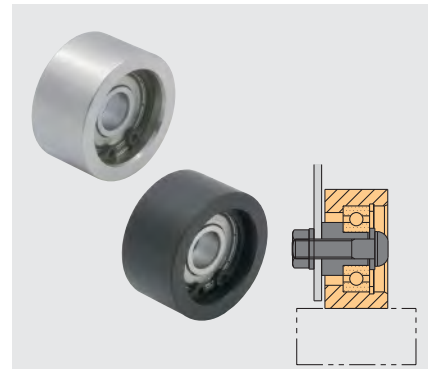
**Y GROOVE GUIDE ROLLERS  
(DOUBLE BEARINGS)**

Part No. GRL-S2-Y



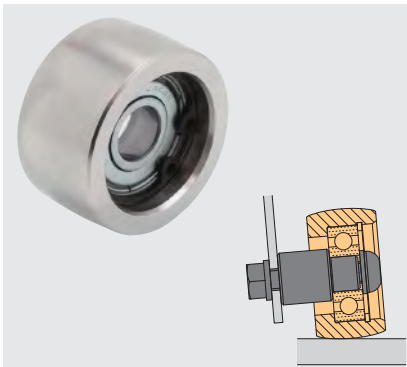
**GUIDE ROLLERS  
(Light-Duty)**

Part No. CTG-BR



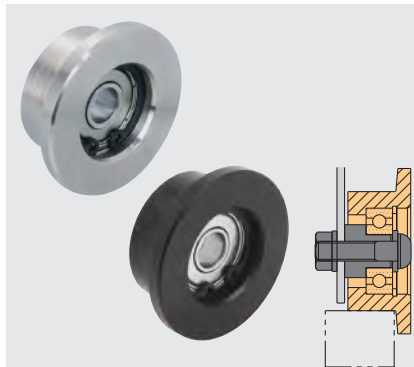
**FLAT GUIDE ROLLERS**

Part No. GRL-F



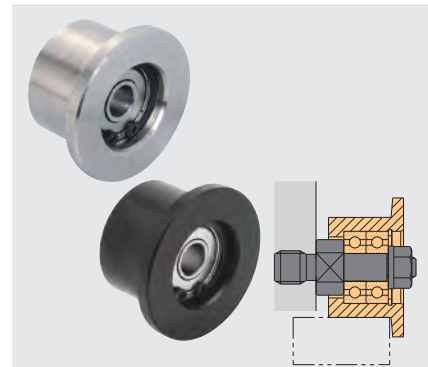
**CROWN GUIDE ROLLERS**

Part No. GRL-C



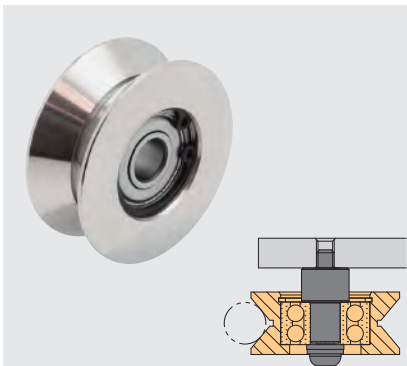
**SINGLE-FLANGED GUIDE  
ROLLERS**

Part No. GRL-L



**SINGLE-FLANGED GUIDE  
ROLLERS (DOUBLE BEARINGS)**

Part No. GRL-2-L



**Y GROOVE GUIDE ROLLERS (DOUBLE-  
ROW ANGULAR CONTACT BALL BEARING)**

Part No. GRL-SWA-Y



**ROLLER SCREWS**

Part No. RLB



**ROLLER PINS**

Part No. RLP-SWA



**ECCENTRIC ROLLER PINS**

Part No. RLP-EWA



**FLANGED ROLLER PINS**

Part No. RLP-F



**ROLLER PINS**

Part No. RLP-S



ECCENTRIC ROLLER PINS

Part No. RLP-E



ROLLER PINS

Part No. RLP



GUIDE ROLLER BRACKETS

Part No. GRL-BL-SUS



RAILS FOR GUIDE  
ROLLERS

Part No. RLR

# GRL-P-D-SUS

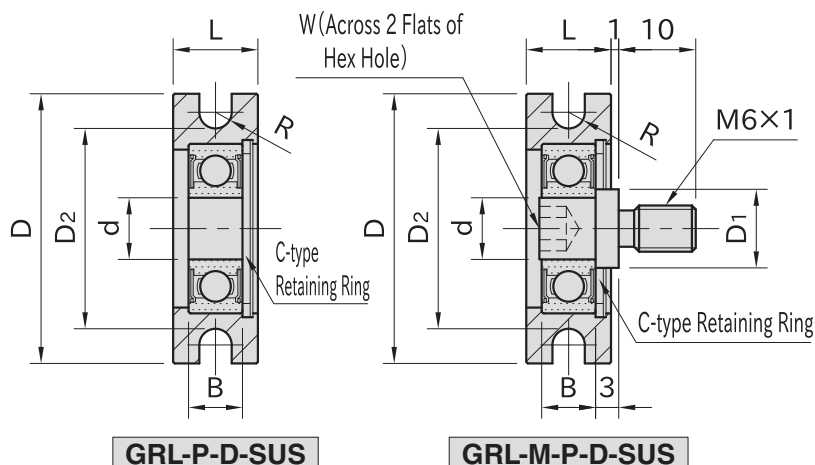
## DEEP U GROOVE PLASTIC GUIDE ROLLERS



**GRL-P-D-SUS**  
(Without Stud)



**GRL-M-P-D-SUS**  
(With Stud)



| Type                 | Body                        | Bearing                    | Retaining Ring                | Stud                   |
|----------------------|-----------------------------|----------------------------|-------------------------------|------------------------|
| <b>GRL-P-D-SUS</b>   | Polyacetal plastic<br>White | SUS440C<br>stainless steel | SUS304-CSP<br>stainless steel | —                      |
| <b>GRL-M-P-D-SUS</b> |                             |                            |                               | SUS303 stainless steel |

### **GRL-P-D-SUS** (Without Stud)

| Part Number           | D  | D <sub>2</sub> | R   | L  | d | B | Bearing Type | Allowable Load (N) | Weight (g) |
|-----------------------|----|----------------|-----|----|---|---|--------------|--------------------|------------|
| <b>GRL2606P-D-SUS</b> | 26 | 19             | 1.6 | 9  | 6 | 5 | 696HZZ       | 98                 | 7.6        |
| <b>GRL3508P-D-SUS</b> | 35 | 26             | 2.1 | 11 | 8 | 7 | 608HZZ       | 196                | 19.2       |

### **GRL-M-P-D-SUS** (With Stud)

| Part Number           | D  | D <sub>2</sub> | R   | L  | d | B | D <sub>1</sub> | W | Bearing Type | Allowable Load (N) | Weight (g) |
|-----------------------|----|----------------|-----|----|---|---|----------------|---|--------------|--------------------|------------|
| <b>GRL26M6P-D-SUS</b> | 26 | 19             | 1.6 | 9  | 6 | 5 | 8              | 3 | 696HZZ       | 98                 | 10.4       |
| <b>GRL35M6P-D-SUS</b> | 35 | 26             | 2.1 | 11 | 8 | 7 | 10.2           | 5 | 608HZZ       | 196                | 23.7       |

#### Feature

- The plastic body provides silent running.
- Deep groove holds the wire securely and allows using with pulleys.

#### Note

- Roller pin for “Without Stud” type should be prepared by the customer.
- Do not use in applications where impact load or axial load is applied.
- “Allowable Load” mentioned above means allowable radial load based on the test of rotating the roller a million times at the speed of 300min<sup>-1</sup>. Consider the above load values as reference since load capacity varies with use conditions or environments.

#### Technical Information

Heatresistant Temperature 105°C

# GRL-P-F-SUS

## FLAT PLASTIC GUIDE ROLLERS



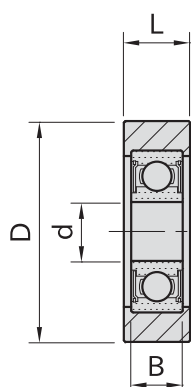
Stainless Steel



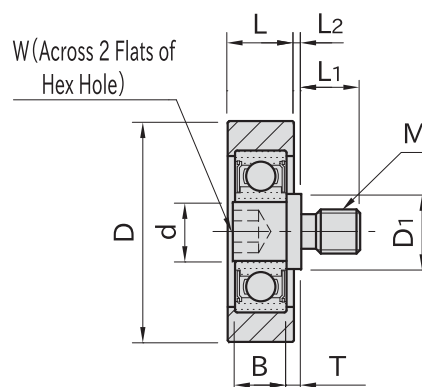
**GRL-P-F-SUS**  
(Without Stud)



**GRL-M-P-F-SUS**  
(With Stud)



**GRL-P-F-SUS**



**GRL-M-P-F-SUS**

| Type                 | Body                        | Bearing                    | Stud                   |
|----------------------|-----------------------------|----------------------------|------------------------|
| <b>GRL-P-F-SUS</b>   | Polyacetal plastic<br>White | SUS440C<br>stainless steel | —                      |
| <b>GRL-M-P-F-SUS</b> |                             |                            | SUS303 stainless steel |

### **GRL-P-F-SUS** (Without Stud)

| Part Number    | D  | L | d | B | Bearing Type | Allowable Load (N) | Weight (g) |
|----------------|----|---|---|---|--------------|--------------------|------------|
| GRL1304P-F-SUS | 13 | 5 | 4 | 4 | SMR104ZZ     | 49                 | 1.7        |
| GRL1404P-F-SUS | 14 |   |   |   |              |                    | 1.9        |
| GRL1504P-F-SUS | 15 |   | 2 |   |              |                    |            |
| GRL1805P-F-SUS | 18 |   | 5 |   | 695HZZ       | 68.6               | 3.2        |
| GRL1905P-F-SUS | 19 |   |   |   |              |                    | 3.4        |
| GRL1906P-F-SUS | 19 | 6 | 6 | 5 | 696HZZ       | 98                 | 4.7        |
| GRL2006P-F-SUS | 20 |   |   |   |              |                    | 5          |
| GRL2406P-F-SUS | 24 |   |   |   |              |                    | 6.1        |
| GRL2506P-F-SUS | 25 |   |   |   |              |                    | 6.4        |
| GRL2608P-F-SUS | 26 | 9 | 8 | 7 | 608HZZ       | 196                | 13.6       |
| GRL3008P-F-SUS | 30 |   |   |   |              |                    | 16         |
| GRL3508P-F-SUS | 35 |   |   |   |              |                    | 19.1       |

**GRL-M-P-F-SUS** (With Stud)

| Part Number    | D      | L | d | B | M      | L <sub>1</sub> | L <sub>2</sub> | D <sub>1</sub> | T      | W      | Bearing Type | Allowable Load (N) | Weight (g) |        |     |      |
|----------------|--------|---|---|---|--------|----------------|----------------|----------------|--------|--------|--------------|--------------------|------------|--------|-----|------|
| GRL13M4P-F-SUS | 13     | 5 | 4 | 4 | M4×0.7 | 5              |                | 6              |        | 2      | SMR104ZZ     | 49                 | 2.7        |        |     |      |
| GRL14M4P-F-SUS | 14     |   |   |   |        |                |                |                |        |        |              |                    | 2.9        |        |     |      |
| GRL15M4P-F-SUS | 15     |   |   |   |        |                |                |                |        |        |              |                    | 3          |        |     |      |
| GRL18M4P-F-SUS | 18     |   | 5 |   |        |                |                | 7              |        | 2.5    | 695HZZ       | 68.6               | 4.4        |        |     |      |
| GRL19M4P-F-SUS | 19     |   |   |   |        |                |                |                |        |        |              |                    | 4.6        |        |     |      |
| GRL19M5P-F-SUS | 19     | 6 | 6 | 5 | M5×0.8 | 8              | 1              | 1.5            | 3      | 696HZZ | 98           | 7                  |            |        |     |      |
| GRL19M6P-F-SUS |        |   |   |   | M6×1   |                |                |                |        |        |              | 7.4                |            |        |     |      |
| GRL20M5P-F-SUS | M5×0.8 |   |   |   | 7.3    |                |                |                |        |        |              |                    |            |        |     |      |
| GRL20M6P-F-SUS | M6×1   |   |   |   | 7.6    |                |                |                |        |        |              |                    |            |        |     |      |
| GRL24M5P-F-SUS | M5×0.8 |   |   |   | 8.4    |                |                |                |        |        |              |                    |            |        |     |      |
| GRL24M6P-F-SUS | M6×1   |   |   |   | 8.8    |                |                |                |        |        |              |                    |            |        |     |      |
| GRL25M5P-F-SUS | M5×0.8 |   |   |   | 8.7    |                |                |                |        |        |              |                    |            |        |     |      |
| GRL25M6P-F-SUS | M6×1   |   |   |   | 9.1    |                |                |                |        |        |              |                    |            |        |     |      |
| GRL26M5P-F-SUS | 26     |   |   |   | 9      |                | 8              | 7              | M5×0.8 | 0.5    | 10           | 1.5                | 4          | 608HZZ | 196 | 19   |
| GRL26M6P-F-SUS |        |   |   |   |        |                |                |                | M6×1   | 1      | 10.2         | 2                  | 5          |        |     | 18.2 |
| GRL30M5P-F-SUS | M5×0.8 |   |   |   |        |                |                |                | 0.5    | 10     | 1.5          | 4                  | 19         |        |     |      |
| GRL30M6P-F-SUS | M6×1   |   |   |   |        |                |                |                | 1      | 10.2   | 2            | 5                  | 20.4       |        |     |      |
| GRL35M5P-F-SUS | M5×0.8 |   |   |   |        |                |                |                | 0.5    | 10     | 1.5          | 4                  | 23         |        |     |      |
| GRL35M6P-F-SUS | M6×1   |   |   |   |        |                |                |                | 1      | 10.2   | 2            | 5                  | 23.6       |        |     |      |

**Feature**

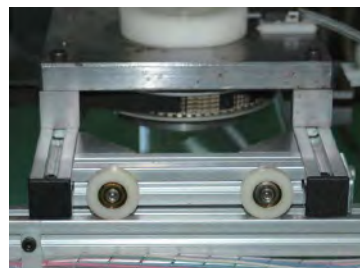
The plastic body provides silent running.

**Technical Information**

Heatresistant Temperature 105°C

**Notes**

- Roller pin for “Without Stud” type should be prepared by the customer.
- Do not use in applications where impact load or axial load is applied.
- “Allowable Load” mentioned above means allowable radial load based on the test of rotating the roller a million times at the speed of 300min<sup>-1</sup>. Consider the above load values as reference since load capacity varies with use conditions or environments.

**How To Use**

# GRL-P-U-SUS

## ROUND PLASTIC GUIDE ROLLERS



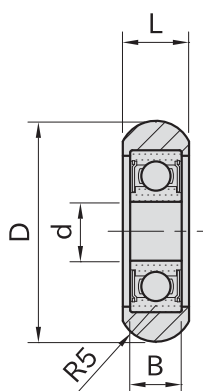
Stainless Steel



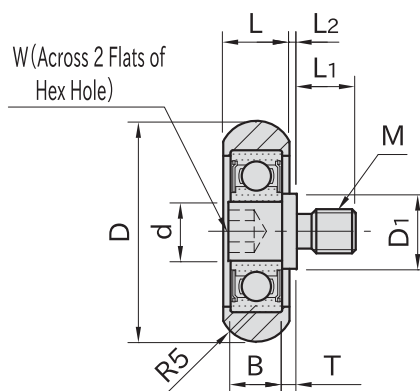
**GRL-P-U-SUS**  
(Without Stud)



**GRL-M-P-U-SUS**  
(With Stud)



**GRL-P-U-SUS**



**GRL-M-P-U-SUS**

| Type                 | Body               | Bearing         | Stud                   |
|----------------------|--------------------|-----------------|------------------------|
| <b>GRL-P-U-SUS</b>   | Polyacetal plastic | SUS440C         | —                      |
| <b>GRL-M-P-U-SUS</b> | White              | stainless steel | SUS303 stainless steel |

### **GRL-P-U-SUS** (Without Stud)

| Part Number    | D  | L | d | B | Bearing Type | Allowable Load (N) | Weight (g) |
|----------------|----|---|---|---|--------------|--------------------|------------|
| GRL1304P-U-SUS | 13 | 5 | 4 | 4 | SMR104ZZ     | 49                 | 1.7        |
| GRL1404P-U-SUS | 14 |   |   |   |              |                    | 1.8        |
| GRL1805P-U-SUS | 18 |   | 5 |   | 695HZZ       | 68.6               | 3.1        |
| GRL1905P-U-SUS | 19 |   |   |   |              |                    | 3.3        |
| GRL1906P-U-SUS | 19 | 6 | 6 | 5 | 696HZZ       | 98                 | 4.5        |
| GRL2006P-U-SUS | 20 |   |   |   |              |                    | 4.8        |
| GRL2406P-U-SUS | 24 |   |   |   |              |                    | 5.9        |
| GRL2506P-U-SUS | 25 |   |   |   |              |                    | 6.2        |
| GRL3008P-U-SUS | 30 | 9 | 8 | 7 | 608HZZ       | 196                | 15.1       |
| GRL3508P-U-SUS | 35 |   |   |   |              |                    | 17.9       |

**GRL-M-P-U-SUS** (With Stud)

| Part Number           | D  | L | d | B | M      | L <sub>1</sub> | L <sub>2</sub> | D <sub>1</sub> | T   | W   | Bearing Type | Allowable Load (N) | Weight (g) |
|-----------------------|----|---|---|---|--------|----------------|----------------|----------------|-----|-----|--------------|--------------------|------------|
| <b>GRL13M4P-U-SUS</b> | 13 | 5 | 4 | 4 | M4×0.7 | 5              |                | 6              |     | 2   | SMR104ZZ     | 49                 | 2.6        |
| <b>GRL14M4P-U-SUS</b> | 14 |   |   |   |        |                |                |                |     |     |              |                    | 2.8        |
| <b>GRL18M4P-U-SUS</b> | 18 |   | 5 |   |        |                |                | 7              |     | 2.5 | 695HZZ       | 68.6               | 4.4        |
| <b>GRL19M4P-U-SUS</b> |    |   |   |   |        |                |                |                |     |     |              |                    | 4.6        |
| <b>GRL19M5P-U-SUS</b> | 19 | 6 | 6 | 5 | M5×0.8 | 8              | 1              |                | 1.5 |     | 696HZZ       | 98                 | 6.8        |
| <b>GRL19M6P-U-SUS</b> |    |   |   |   | M6×1   |                |                |                |     |     |              |                    | 7.2        |
| <b>GRL20M5P-U-SUS</b> |    |   |   |   | M5×0.8 |                |                |                |     |     |              |                    | 7.1        |
| <b>GRL20M6P-U-SUS</b> | 20 |   |   |   | M6×1   |                |                |                |     |     |              |                    | 7.4        |
| <b>GRL24M5P-U-SUS</b> |    |   |   |   | M5×0.8 |                |                |                |     |     |              |                    | 8.2        |
| <b>GRL24M6P-U-SUS</b> | 24 |   |   |   | M6×1   |                |                |                |     |     |              |                    | 8.5        |
| <b>GRL25M5P-U-SUS</b> |    |   |   |   | M5×0.8 |                |                |                |     |     |              |                    | 8.9        |
| <b>GRL25M6P-U-SUS</b> | 25 |   |   |   | M6×1   |                |                |                |     |     |              |                    |            |
| <b>GRL30M5P-U-SUS</b> | 30 | 9 | 8 | 7 | M5×0.8 |                | 0.5            | 10             | 1.5 | 4   | 608HZZ       | 196                | 17.4       |
| <b>GRL30M6P-U-SUS</b> |    |   |   |   | M6×1   |                | 1              | 10.2           | 2   | 5   |              |                    | 19.4       |
| <b>GRL35M5P-U-SUS</b> |    |   |   |   | M5×0.8 |                | 0.5            | 10             | 1.5 | 4   |              |                    | 20.2       |
| <b>GRL35M6P-U-SUS</b> | 35 |   |   |   | M6×1   |                | 1              | 10.2           | 2   | 5   |              |                    | 22.2       |

**Feature**

The plastic body provides silent running.

**Technical Information**

Heatresistant Temperature 105°C

**Notes**

- Roller pin for “Without Stud” type should be prepared by the customer.
- Do not use in applications where impact load or axial load is applied.
- “Allowable Load” mentioned above means allowable radial load based on the test of rotating the roller a million times at the speed of 300min<sup>-1</sup>. Consider the above load values as reference since load capacity varies with use conditions or environments.

# GRL-P-R-SUS

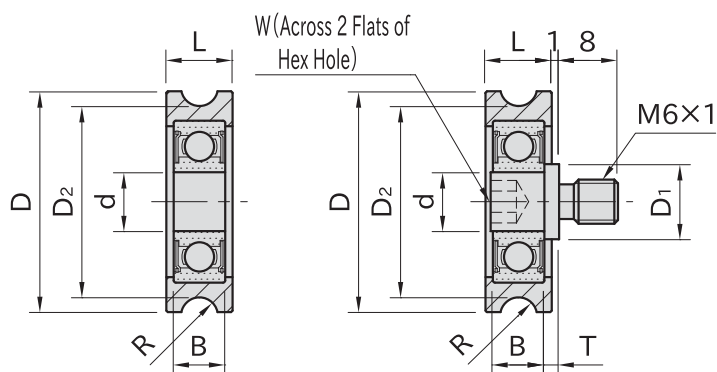
## U GROOVE PLASTIC GUIDE ROLLERS



**GRL-P-R-SUS**  
(Without Stud)



**GRL-M-P-R-SUS**  
(With Stud)



**GRL-P-R-SUS**

**GRL-M-P-R-SUS**

| Type                 | Body               | Bearing         | Stud                   |
|----------------------|--------------------|-----------------|------------------------|
| <b>GRL-P-R-SUS</b>   | Polyacetal plastic | SUS440C         | —                      |
| <b>GRL-M-P-R-SUS</b> | White              | stainless steel | SUS303 stainless steel |

### **GRL-P-R-SUS** (Without Stud)

| Part Number           | D  | D <sub>2</sub> | R   | L | d | B | Bearing Type | Allowable Load (N) | Weight (g) |
|-----------------------|----|----------------|-----|---|---|---|--------------|--------------------|------------|
| <b>GRL2106P-R-SUS</b> | 21 | 17             | 2   | 6 | 6 | 5 | 696HZZ       | 98                 | 4.6        |
| <b>GRL2206P-R-SUS</b> | 22 | 18             |     |   |   |   |              |                    | 4.9        |
| <b>GRL3008P-R-SUS</b> | 30 | 26             | 2.5 | 9 | 8 | 7 | 608HZZ       | 196                | 15         |

### **GRL-M-P-R-SUS** (With Stud)

| Part Number           | D  | D <sub>2</sub> | R   | L | d | B | D <sub>1</sub> | T   | W | Bearing Type | Allowable Load (N) | Weight (g) |
|-----------------------|----|----------------|-----|---|---|---|----------------|-----|---|--------------|--------------------|------------|
| <b>GRL21M6P-R-SUS</b> | 21 | 17             | 2   | 6 | 6 | 5 | 8              | 1.5 | 3 | 696HZZ       | 98                 | 7.6        |
| <b>GRL22M6P-R-SUS</b> | 22 | 18             |     |   |   |   |                |     |   |              |                    |            |
| <b>GRL30M6P-R-SUS</b> | 30 | 26             | 2.5 | 9 | 8 | 7 | 10.2           | 2   | 5 | 608HZZ       | 196                | 19.6       |

### Feature

The plastic body provides silent running.

### Technical Information

Heatresistant Temperature 105°C

### Notes

- Roller pin for “Without Stud” type should be prepared by the customer.
- Do not use in applications where impact load or axial load is applied.
- “Allowable Load” mentioned above means allowable radial load based on the test of rotating the roller a million times at the speed of 300min<sup>-1</sup>. Consider the above load values as reference since load capacity varies with use conditions or environments.

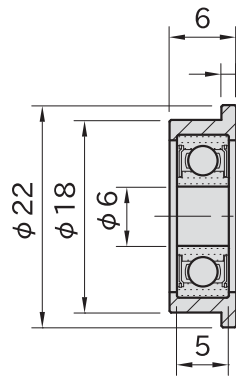
# GRL-P-L-SUS

## SINGLE-FLANGED PLASTIC GUIDE ROLLERS

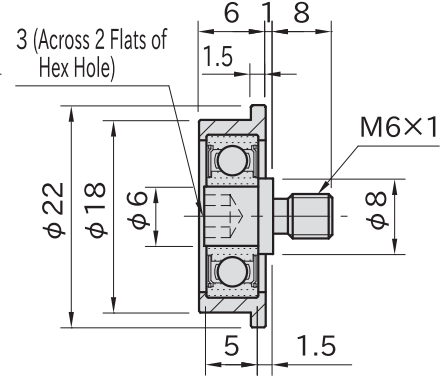


**GRL2206P-L-SUS**

**GRL22M6P-L-SUS**



**GRL2206P-L-SUS**



**GRL22M6P-L-SUS**

| Part Number    | Bearing Type | Allowable Load (N) | Weight (g) |
|----------------|--------------|--------------------|------------|
| GRL2206P-L-SUS | 696HZZ       | 98                 | 4.7        |
| GRL22M6P-L-SUS |              |                    | 7.4        |

### Feature

The plastic body provides silent running.

### Technical Information

Heatresistant Temperature 105°C

| Part Number    | Body               | Bearing         | Stud                   |
|----------------|--------------------|-----------------|------------------------|
| GRL2206P-L-SUS | Polyacetal plastic | SUS440C         | —                      |
| GRL22M6P-L-SUS | White              | stainless steel | SUS303 stainless steel |

### Notes

- Roller pin for **GRL2206P-L-SUS** should be prepared by the customer.
- Do not use in applications where impact load or axial load is applied.
- “Allowable Load” mentioned above means allowable radial load based on the test of rotating the roller a million times at the speed of 300min<sup>-1</sup>. Consider the above load values as reference since load capacity varies with use conditions or environments.

# GRL-H

## DOUBLE-FLANGED GUIDE ROLLERS



**GRL-S-H**  
(Steel)



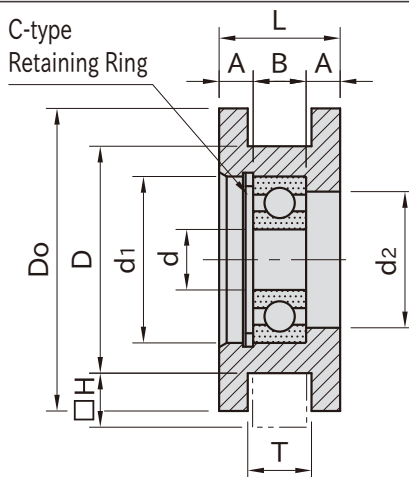
**GRL-SH-H**  
(Hardened Steel)



**GRL-J-H**  
(Plastic)



**GRL-H-SUS**  
(Stainless Steel)



| Type             | Body                                                            | Bearing                   | Retaining Ring           |
|------------------|-----------------------------------------------------------------|---------------------------|--------------------------|
| <b>GRL-S-H</b>   | S45C steel<br>Electroless nickel plated                         | Steel                     | Steel                    |
| <b>GRL-SH-H</b>  | SCM435 Steel<br>Black oxide finished<br>Heat treated to Rc40-45 |                           |                          |
| <b>GRL-J-H</b>   | Polyacetal plastic<br>Black                                     |                           |                          |
| <b>GRL-H-SUS</b> | Stainless steel (SUS303)                                        | Stainless steel (SUS440C) | Stainless steel (SUS304) |

| Size      |    | d  | Do | D  | H  | d <sub>1</sub> | d <sub>2</sub> | L  | T  | A   | B  | Bearing Type | Applicable Roller Pins |         |        |        |
|-----------|----|----|----|----|----|----------------|----------------|----|----|-----|----|--------------|------------------------|---------|--------|--------|
| GRL-S-H   | 30 | 6  | 30 | 22 | 4  | 17             | 13             | 12 | 5  | 3   | 6  | 606ZZ        | -                      | RLP0606 | RLP06E | RLP06S |
| GRL-SH-H  | 40 | 8  | 40 | 30 | 6  | 22             | 18             | 16 | 7  | 4.5 | 7  | 608ZZ        | RLP0807F               | RLP0807 | RLP08E | RLP08S |
| GRL-J-H   | 50 | 10 | 50 | 36 | 9  | 26             | 22             | 19 | 10 | 5.5 | 8  | 6000ZZ       | RLP1008F               | RLP1008 | RLP10E | RLP10S |
| GRL-H-SUS | 60 | 12 | 60 | 42 | 12 | 32             | 26             | 23 | 13 | 6.5 | 10 | 6201ZZ       | RLP1210F               | RLP1210 | RLP12E | RLP12S |
|           | 70 | 15 | 70 | 46 | 16 | 35             | 29             | 28 | 17 | 8.5 | 11 | 6202ZZ       | -                      | RLP1511 | RLP15E | RLP15S |

| Steel           |           | Hardened Steel   |           | Plastic         |           | Stainless Steel    |           |
|-----------------|-----------|------------------|-----------|-----------------|-----------|--------------------|-----------|
| Part Number     | Weight(g) | Part Number      | Weight(g) | Part Number     | Weight(g) | Part Number        | Weight(g) |
| <b>GRL30S-H</b> | 40        | -                | -         | <b>GRL30J-H</b> | 13        | -                  | -         |
| <b>GRL40S-H</b> | 85        | <b>GRL40SH-H</b> | 85        | <b>GRL40J-H</b> | 25        | <b>GRL40-H-SUS</b> | 85        |
| <b>GRL50S-H</b> | 155       | <b>GRL50SH-H</b> | 155       | <b>GRL50J-H</b> | 45        | <b>GRL50-H-SUS</b> | 155       |
| <b>GRL60S-H</b> | 260       | <b>GRL60SH-H</b> | 260       | <b>GRL60J-H</b> | 80        | <b>GRL60-H-SUS</b> | 260       |
| <b>GRL70S-H</b> | 400       | -                | -         | <b>GRL70J-H</b> | 115       | -                  | -         |

### Features

- Use as rollers for sliding doors or carriers.
- Medium-duty
- This product can accept a polished square steel bar that is available commercially.
- Hardened-steel guide rollers are wear-resistant and prevent damage from intrusion of foreign matter such as chips.

### How To Use

For the application example, see FLAT GUIDE ROLLERS.

**GRL-F**

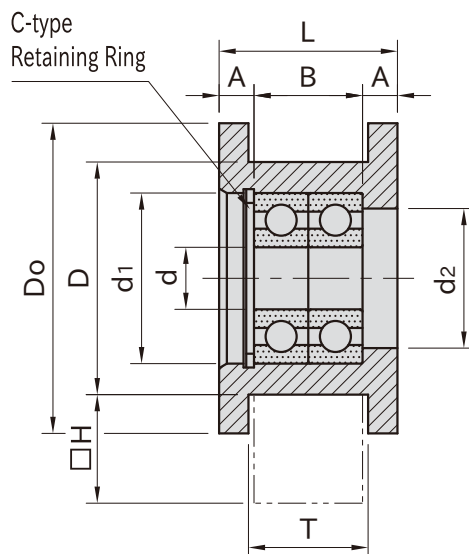
### Technical Information

#### Load Rating of Bearings

| Bearing Type  | Basic Load Rating Cr (N) | Basic Static Load Rating Cor (N) |
|---------------|--------------------------|----------------------------------|
| <b>606ZZ</b>  | 2260                     | 840                              |
| <b>608ZZ</b>  | 3300                     | 1360                             |
| <b>6000ZZ</b> | 4550                     | 1970                             |
| <b>6201ZZ</b> | 6800                     | 3050                             |
| <b>6202ZZ</b> | 7650                     | 3700                             |

# GRL-S2-H

## DOUBLE-FLANGED GUIDE ROLLERS (DOUBLE BEARINGS)



| Body                                    | Bearing/Retaining Ring |
|-----------------------------------------|------------------------|
| S45C steel<br>Electroless nickel plated | Steel                  |

| Part Number      | d  | D0 | D  | H  | d1 | d2 | L  | T  | A   | B  | Bearing Type | Weight (g) | Applicable Roller Screws |
|------------------|----|----|----|----|----|----|----|----|-----|----|--------------|------------|--------------------------|
| <b>GRL30S2-H</b> | 6  | 30 | 22 | 9  | 17 | 13 | 18 | 10 | 3   | 12 | 606ZZ×2      | 50         | RLB0612                  |
| <b>GRL40S2-H</b> | 8  | 40 | 30 | 13 | 22 | 18 | 23 | 14 | 4.5 | 14 | 608ZZ×2      | 125        | RLB0814                  |
| <b>GRL50S2-H</b> | 10 | 50 | 36 | 17 | 26 | 22 | 27 | 18 | 5.5 | 16 | 6000ZZ×2     | 215        | RLB1016                  |
| <b>GRL60S2-H</b> | 12 | 60 | 42 | 22 | 32 | 26 | 33 | 23 | 6.5 | 20 | 6201ZZ×2     | 350        | RLB1220                  |
| <b>GRL70S2-H</b> | 15 | 70 | 46 | 26 | 35 | 29 | 39 | 28 | 8.5 | 22 | 6202ZZ×2     | 510        | RLB1522                  |

### Features

- Use as rollers for sliding doors or carriers.
- Heavy-duty
- This product can accept a polished square steel bar that is available commercially.

### Technical Information

#### Load Rating of Bearings

| Bearing Type    | Basic Load Rating Cr (N) | Basic Static Load Rating Cor (N) |
|-----------------|--------------------------|----------------------------------|
| <b>606ZZ×2</b>  | 3660                     | 1360                             |
| <b>608ZZ×2</b>  | 5340                     | 2200                             |
| <b>6000ZZ×2</b> | 7370                     | 3190                             |
| <b>6201ZZ×2</b> | 11010                    | 4940                             |
| <b>6202ZZ×2</b> | 12390                    | 5990                             |

# GRL-R

# U GROOVE GUIDE ROLLERS

RoHS SUS

IMAO



**GRL-S-R**  
(Steel)



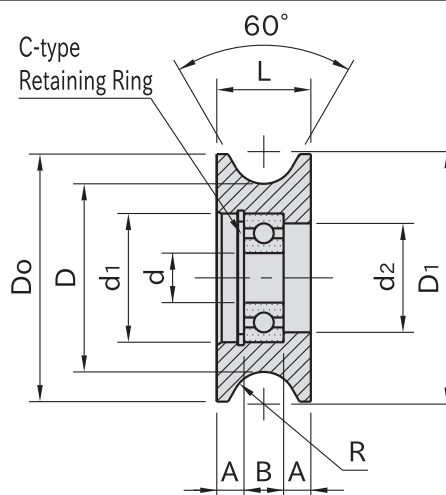
**GRL-SH-R**  
(Hardened Steel)



**GRL-J-R**  
(Plastic)



**GRL-R-SUS**  
(Stainless Steel)



| Type             | Body                                                            | Bearing                   | Retaining Ring           |
|------------------|-----------------------------------------------------------------|---------------------------|--------------------------|
| <b>GRL-S-R</b>   | S45C steel<br>Electroless nickel plated                         | Steel                     | Steel                    |
| <b>GRL-SH-R</b>  | SCM435 Steel<br>Black oxide finished<br>Heat treated to Rc40-45 |                           |                          |
| <b>GRL-J-R</b>   | Polyacetal plastic<br>Black                                     |                           |                          |
| <b>GRL-R-SUS</b> | Stainless steel (SUS303)                                        | Stainless steel (SUS440C) | Stainless steel (SUS304) |

| Size      |    | d  | Do | D  | d1 | d2 | L  | R     | D1    | A   | B   | Bearing Type | Applicable Roller Pins |          |         |        | Applicable Rails<br>For Guide Rollers |
|-----------|----|----|----|----|----|----|----|-------|-------|-----|-----|--------------|------------------------|----------|---------|--------|---------------------------------------|
| GRL-S-R   | 30 | 6  | 30 | 22 | 17 | 13 | 12 | R 4.5 | 31    | 3   | 6   | 606ZZ        | -                      | RLP0606  | RLP06E  | RLP06S | -                                     |
|           | 40 | 8  | 40 | 30 | 22 | 18 | 16 | R 5.5 | 41    | 4.5 | 7   | 608ZZ        | RLP0807F               | RLP0807  | RLP08E  | RLP08S | -                                     |
| GRL-SH-R  | 50 | 10 | 50 | 38 | 26 | 22 | 19 | R 6.5 | 51    | 5.5 | 8   | 6000ZZ       | RLP1008F               | RLP1008  | RLP10E  | RLP10S | RLR12                                 |
| GRL-J-R   |    | 60 | 12 | 60 | 44 | 32 | 26 | 23    | R 8.5 | 61  | 6.5 | 10           | 6201ZZ                 | RLP1210F | RLP1210 | RLP12E | RLP12S                                |
| GRL-R-SUS | 70 | 15 | 70 | 51 | 35 | 29 | 28 | R10.5 | 72    | 8.5 | 11  | 6202ZZ       | -                      | RLP1511  | RLP15E  | RLP15S | -                                     |

| Steel           |            | Hardened Steel   |            | Plastic         |            | Stainless Steel    |            |
|-----------------|------------|------------------|------------|-----------------|------------|--------------------|------------|
| Part Number     | Weight (g) | Part Number      | Weight (g) | Part Number     | Weight (g) | Part Number        | Weight (g) |
| <b>GRL30S-R</b> | 35         | -                | -          | <b>GRL30J-R</b> | 13         | -                  | -          |
| <b>GRL40S-R</b> | 90         | -                | -          | <b>GRL40J-R</b> | 25         | <b>GRL40-R-SUS</b> | 90         |
| <b>GRL50S-R</b> | 155        | <b>GRL50SH-R</b> | 155        | <b>GRL50J-R</b> | 45         | <b>GRL50-R-SUS</b> | 155        |
| <b>GRL60S-R</b> | 260        | <b>GRL60SH-R</b> | 260        | <b>GRL60J-R</b> | 80         | <b>GRL60-R-SUS</b> | 260        |
| <b>GRL70S-R</b> | 460        | -                | -          | <b>GRL70J-R</b> | 125        | -                  | -          |

## Features

- Use as rollers for sliding doors or carriers.
- Medium-duty
- Use **RLR** Rails For Guide Rollers for this product (to be ordered separately).
- Hardened-steel guide rollers are wear-resistant and prevent damage from intrusion of foreign matter such as chips.

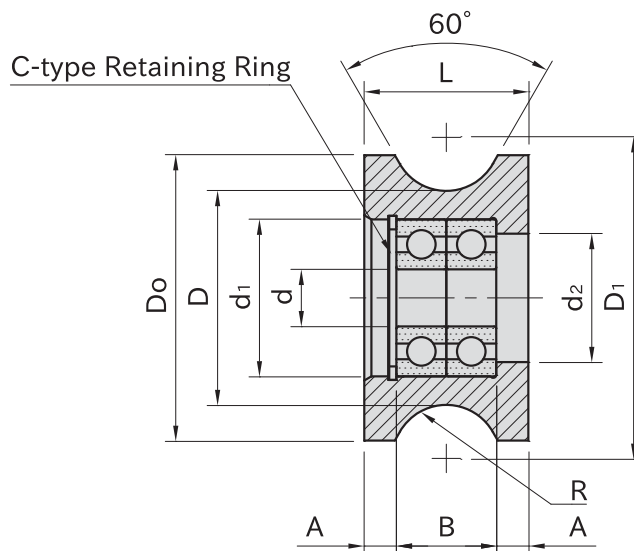
## Technical Information

### Load Rating of Bearings

| Bearing Type  | Basic Load Rating Cr (N) | Basic Static Load Rating Cor (N) |
|---------------|--------------------------|----------------------------------|
| <b>606ZZ</b>  | 2260                     | 840                              |
| <b>608ZZ</b>  | 3300                     | 1360                             |
| <b>6000ZZ</b> | 4550                     | 1970                             |
| <b>6201ZZ</b> | 6800                     | 3050                             |
| <b>6202ZZ</b> | 7650                     | 3700                             |

# GRL-S2-R

## U GROOVE GUIDE ROLLERS (DOUBLE BEARINGS)



| Body                                    | Bearing/Retaining Ring |
|-----------------------------------------|------------------------|
| S45C steel<br>Electroless nickel plated | Steel                  |

| Part Number | d  | Do | D  | d1 | d2 | L  | R     | D1 | A   | B  | Bearing Type | Weight (g) | Applicable Roller Screws |
|-------------|----|----|----|----|----|----|-------|----|-----|----|--------------|------------|--------------------------|
| GRL40S2-R   | 8  | 40 | 30 | 22 | 18 | 23 | R 7.5 | 45 | 4.5 | 14 | 608ZZ×2      | 140        | RLB0814                  |
| GRL50S2-R   | 10 | 50 | 38 | 26 | 22 | 27 | R10.5 | 59 | 5.5 | 16 | 6000ZZ×2     | 255        | RLB1016                  |
| GRL60S2-R   | 12 | 60 | 44 | 32 | 26 | 33 | R11.5 | 67 | 6.5 | 20 | 6201ZZ×2     | 440        | RLB1220                  |
| GRL70S2-R   | 15 | 70 | 51 | 35 | 29 | 39 | R14.5 | 80 | 8.5 | 22 | 6202ZZ×2     | 700        | RLB1522                  |

### Features:

- Use as rollers for sliding doors or carriers.
- Heavy-duty

### Related Product Page

Applicable Roller Screws  
**RLB** ROLLER SCREWS

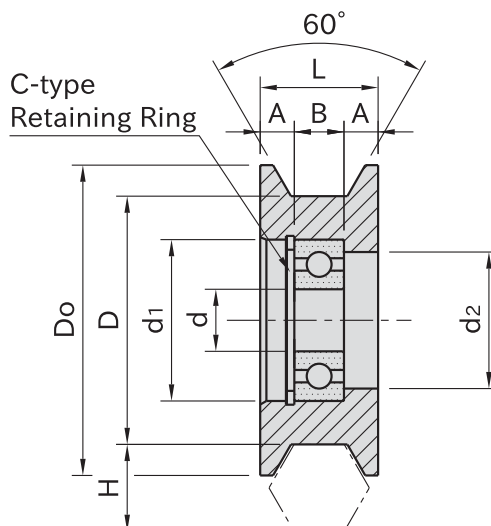
### Technical Information:

#### Load Rating of Bearings

| Bearing Type    | Basic Load Rating Cr (N) | Basic Static Load Rating Cor (N) |
|-----------------|--------------------------|----------------------------------|
| <b>608ZZ×2</b>  | 5340                     | 2200                             |
| <b>6000ZZ×2</b> | 7370                     | 3190                             |
| <b>6201ZZ×2</b> | 11010                    | 4940                             |
| <b>6202ZZ×2</b> | 12390                    | 5990                             |

# GRL-SH1-V

## V GROOVE GUIDE ROLLERS



| Body                                                            | Bearing/Retaining Ring |
|-----------------------------------------------------------------|------------------------|
| SCM435 Steel<br>Black oxide finished<br>Heat treated to Rc40-45 | Steel                  |

| Part Number       | d  | D0 | D  | d1 | d2 | L  | H  | A   | B  | Bearing Type | Weight (g) | Applicable Roller Pins |         |        |        |
|-------------------|----|----|----|----|----|----|----|-----|----|--------------|------------|------------------------|---------|--------|--------|
| <b>GRL50SH1-V</b> | 10 | 50 | 40 | 26 | 22 | 19 | 14 | 5.5 | 8  | 6000ZZ       | 175        | RLP1008F               | RLP1008 | RLP10E | RLP10S |
| <b>GRL60SH1-V</b> | 12 | 60 | 47 | 32 | 26 | 23 | 17 | 6.5 | 10 | 6201ZZ       | 295        | RLP1210F               | RLP1210 | RLP12E | RLP12S |

### Features

- Use as rollers for sliding doors or carriers.
- Medium-duty
- This product can accept a polished hexagonal steel bar that is available commercially.
- Hardened-steel guide rollers are wear-resistant and prevent damage from intrusion of foreign matter such as chips.

### Technical Information

#### Load Rating of Bearings

| Bearing Type  | Basic Load Rating Cr (N) | Basic Static Load Rating Cor (N) |
|---------------|--------------------------|----------------------------------|
| <b>6000ZZ</b> | 4550                     | 1970                             |
| <b>6201ZZ</b> | 6800                     | 3050                             |

# GRL-V

## V GROOVE GUIDE ROLLERS (DOUBLE BEARINGS)



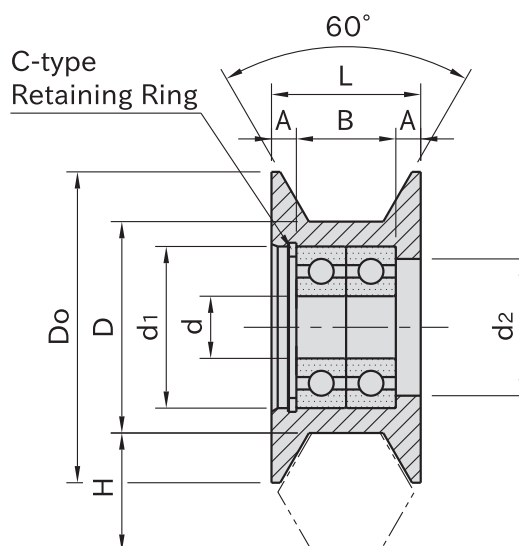
**GRL-S-V**  
(Steel)



**GRL-SH-V**  
(Hardened Steel)



**GRL-V-SUS**  
(Stainless Steel)



| Type             | Body                                                            | Bearing                   | Retaining Ring           |
|------------------|-----------------------------------------------------------------|---------------------------|--------------------------|
| <b>GRL-S-V</b>   | S45C steel<br>Electroless nickel plated                         | Steel                     | Steel                    |
| <b>GRL-SH-V</b>  | SCM435 Steel<br>Black oxide finished<br>Heat treated to Rc40-45 |                           |                          |
| <b>GRL-V-SUS</b> | Stainless steel (SUS303)                                        | Stainless steel (SUS440C) | Stainless steel (SUS304) |

| Size             | d         | Do | D  | d1 | d2 | L  | H  | A   | B  | Bearing Type | Weight (g) |
|------------------|-----------|----|----|----|----|----|----|-----|----|--------------|------------|
| <b>GRL-S-V</b>   | <b>30</b> | 6  | 30 | 22 | 17 | 18 | 14 | 3   | 12 | 606ZZ×2      | 50         |
|                  | <b>40</b> | 8  | 40 | 28 | 22 | 23 | 17 | 4.5 | 14 | 608ZZ×2      | 115        |
| <b>GRL-SH-V</b>  | <b>50</b> | 10 | 50 | 34 | 26 | 24 | 19 | 4   | 16 | 6000ZZ×2     | 200        |
| <b>GRL-V-SUS</b> | <b>60</b> | 12 | 60 | 41 | 32 | 32 | 24 | 6   | 20 | 6201ZZ×2     | 375        |
|                  | <b>70</b> | 15 | 70 | 46 | 35 | 39 | 30 | 8.5 | 22 | 6202ZZ×2     | 550        |

| Steel           | Hardened Steel   | Stainless Steel    | Applicable Roller Screws |
|-----------------|------------------|--------------------|--------------------------|
| Part Number     | Part Number      | Part Number        |                          |
| <b>GRL30S-V</b> | -                | -                  | RLB0612                  |
| <b>GRL40S-V</b> | -                | <b>GRL40-V-SUS</b> | RLB0814                  |
| <b>GRL50S-V</b> | <b>GRL50SH-V</b> | <b>GRL50-V-SUS</b> | RLB1016                  |
| <b>GRL60S-V</b> | <b>GRL60SH-V</b> | <b>GRL60-V-SUS</b> | RLB1220                  |
| <b>GRL70S-V</b> | -                | -                  | RLB1522                  |

### Features

- Use as rollers for sliding doors or carriers.
- Heavy-duty
- This product can accept a polished hexagonal steel bar that is available commercially.
- Hardened-steel guide rollers are wear-resistant and prevent damage from intrusion of foreign matter such as chips.

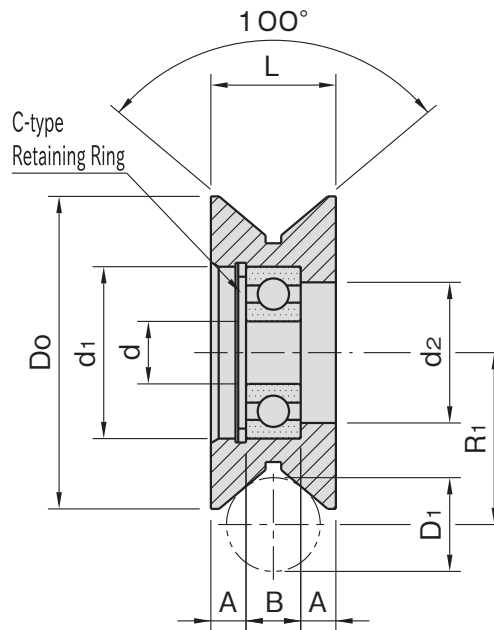
### Technical Information

#### Load Rating of Bearings

| Bearing Type    | Basic Load Rating Cr (N) | Basic Static Load Rating Cor (N) |
|-----------------|--------------------------|----------------------------------|
| <b>606ZZ×2</b>  | 3660                     | 1360                             |
| <b>608ZZ×2</b>  | 5340                     | 2200                             |
| <b>6000ZZ×2</b> | 7370                     | 3190                             |
| <b>6201ZZ×2</b> | 11010                    | 4940                             |
| <b>6202ZZ×2</b> | 12390                    | 5990                             |

# GRL-Y

# Y GROOVE GUIDE ROLLERS



| Type             | Body                                    | Bearing                   | Retaining Ring           |
|------------------|-----------------------------------------|---------------------------|--------------------------|
| <b>GRL-S-Y</b>   | S45C steel<br>Electroless nickel plated | Steel                     | Steel                    |
| <b>GRL-J-Y</b>   | Polyacetal plastic<br>Black             |                           |                          |
| <b>GRL-Y-SUS</b> | Stainless steel (SUS303)                | Stainless steel (SUS440C) | Stainless steel (SUS304) |

| Size             |           | d  | Do | d1 | d2 | L  | min. |    | max. |      | A   | B  | Bearing Type |
|------------------|-----------|----|----|----|----|----|------|----|------|------|-----|----|--------------|
|                  |           |    |    |    |    |    | D1   | R1 | D1   | R1   |     |    |              |
| <b>GRL-S-Y</b>   | <b>30</b> | 6  | 30 | 17 | 13 | 12 | 10   | 17 | 12   | 18.3 | 3   | 6  | 606ZZ        |
|                  | <b>40</b> | 8  | 40 | 22 | 18 | 16 | 12   | 22 | 14   | 23.3 | 4.5 | 7  | 608ZZ        |
| <b>GRL-J-Y</b>   | <b>50</b> | 10 | 50 | 26 | 22 | 19 | 14   | 27 | 20   | 30.9 | 5.5 | 8  | 6000ZZ       |
| <b>GRL-Y-SUS</b> | <b>60</b> | 12 | 60 | 32 | 26 | 23 | 16   | 32 | 25   | 37.9 | 6.5 | 10 | 6201ZZ       |
|                  | <b>70</b> | 15 | 70 | 35 | 29 | 28 | 20   | 38 | 30   | 44.5 | 8.5 | 11 | 6202ZZ       |

| Steel           |           | Plastic         |           | Stainless Steel    |           | Applicable Roller Pins |         |        |        |
|-----------------|-----------|-----------------|-----------|--------------------|-----------|------------------------|---------|--------|--------|
| Part Number     | Weight(g) | Part Number     | Weight(g) | Part Number        | Weight(g) |                        |         |        |        |
| <b>GRL30S-Y</b> | 35        | <b>GRL30J-Y</b> | 13        | -                  | -         | -                      | RLP0606 | RLP06E | RLP06S |
| <b>GRL40S-Y</b> | 90        | <b>GRL40J-Y</b> | 25        | <b>GRL40-Y-SUS</b> | 90        | RLP0807F               | RLP0807 | RLP08E | RLP08S |
| <b>GRL50S-Y</b> | 170       | <b>GRL50J-Y</b> | 45        | <b>GRL50-Y-SUS</b> | 170       | RLP1008F               | RLP1008 | RLP10E | RLP10S |
| <b>GRL60S-Y</b> | 300       | <b>GRL60J-Y</b> | 85        | <b>GRL60-Y-SUS</b> | 300       | RLP1210F               | RLP1210 | RLP12E | RLP12S |
| <b>GRL70S-Y</b> | 510       | <b>GRL70J-Y</b> | 130       | -                  | -         | -                      | RLP1511 | RLP15E | RLP15S |

## Features

- Use as rollers for sliding doors or carriers.
- Medium-duty
- This product can accept a polished round steel bar that is available commercially.

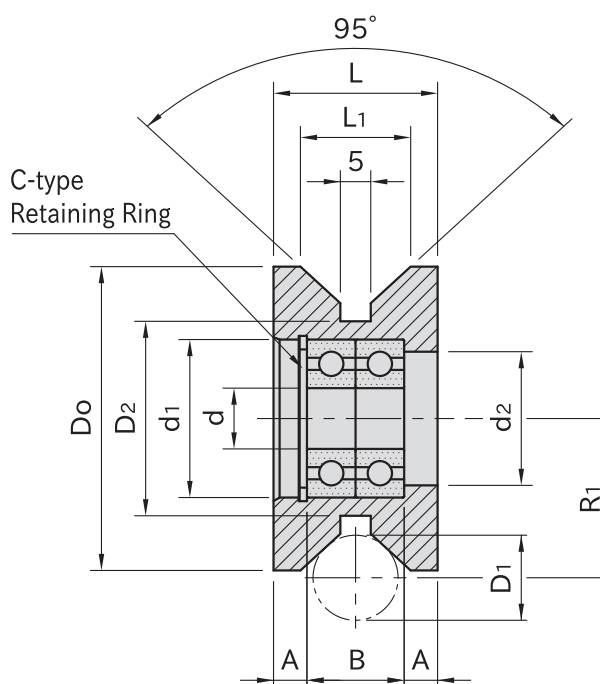
## Technical Information

### Load Rating of Bearings

| Bearing Type  | Basic Load Rating Cr (N) | Basic Static Load Rating Cor (N) |
|---------------|--------------------------|----------------------------------|
| <b>606ZZ</b>  | 2260                     | 840                              |
| <b>608ZZ</b>  | 3300                     | 1360                             |
| <b>6000ZZ</b> | 4550                     | 1970                             |
| <b>6201ZZ</b> | 6800                     | 3050                             |
| <b>6202ZZ</b> | 7650                     | 3700                             |

# GRL-S2-Y

## Y GROOVE GUIDE ROLLERS (DOUBLE BEARINGS)



| Body                                    | Bearing/Retaining Ring |
|-----------------------------------------|------------------------|
| S45C steel<br>Electroless nickel plated | Steel                  |

| Part Number      | d  | Do | D2 | d1 | d2 | L  | L1   | min. |      | max. |      | A   | B  | Bearing Type |
|------------------|----|----|----|----|----|----|------|------|------|------|------|-----|----|--------------|
|                  |    |    |    |    |    |    |      | D1   | R1   | D1   | R1   |     |    |              |
| <b>GRL50S2-Y</b> | 10 | 50 | 32 | 26 | 22 | 27 | 18.1 | 14   | 26.2 | 20   | 30.3 | 5.5 | 16 | 6000ZZ×2     |
| <b>GRL60S2-Y</b> | 12 | 60 | 38 | 32 | 26 | 33 | 22.5 | 16   | 30.5 | 25   | 36.6 | 6.5 | 20 | 6201ZZ×2     |
| <b>GRL70S2-Y</b> | 15 | 70 | 41 | 35 | 29 | 39 | 30.1 | 22   | 36.1 | 38   | 47.0 | 8.5 | 22 | 6202ZZ×2     |

| Part Number      | Weight (g) | Applicable Roller Screws |
|------------------|------------|--------------------------|
| <b>GRL50S2-Y</b> | 260        | RLB1016                  |
| <b>GRL60S2-Y</b> | 450        | RLB1220                  |
| <b>GRL70S2-Y</b> | 670        | RLB1522                  |

\*) D1 and R1 dimensions are for polished round steel bar that is available commercially.

### Features

- Use as rollers for sliding doors or carriers.
- Heavy-duty
- This product can accept a polished round steel bar and a angle steel bar that is available commercially.

### Technical Information

#### Load Rating of Bearings

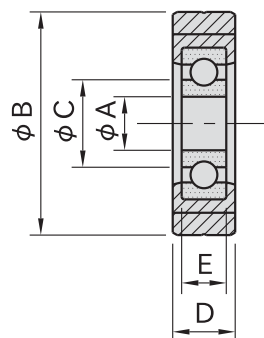
| Bearing Type    | Basic Load Rating Cr (N) | Basic Static Load Rating Cor (N) |
|-----------------|--------------------------|----------------------------------|
| <b>6000ZZ×2</b> | 7370                     | 3190                             |
| <b>6201ZZ×2</b> | 11010                    | 4940                             |
| <b>6202ZZ×2</b> | 12390                    | 5990                             |



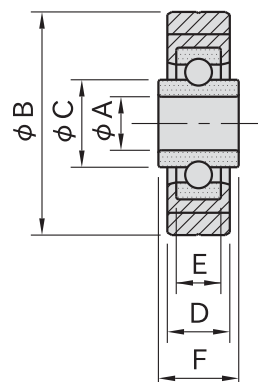
CTG-BR



CTG-BR-D



CTG-BR  
(Non-Collar)



CTG-BR-D  
(Double-Collar)

| Body                                             | Bearing                       |
|--------------------------------------------------|-------------------------------|
| Polyurethane<br>Shore hardness A95<br>Dark brown | Steel<br>Double rubber-sealed |

CTG-BR (Non-Collar)

| Part Number | A  |             | B  | C    | D  | E  | Special Bearing Type | Weight (g) | Applicable Roller Pins |
|-------------|----|-------------|----|------|----|----|----------------------|------------|------------------------|
| CTG-BR20    | 6  | 0<br>-0.008 | 20 | 8.6  | 8  | 5  | 696-2RS              | 5          | RLP0605                |
| CTG-BR25    |    |             | 25 | 10.3 | 9  | 6  | 626-2RS              | 10         | RLP0606                |
| CTG-BR30    | 8  |             | 30 | 12   | 11 | 7  | 608-2RS              | 17         | RLP0807                |
| CTG-BR35    |    |             | 35 |      |    |    |                      | 20         |                        |
| CTG-BR40    | 10 |             | 40 | 14   | 12 | 8  | 6000-2RS             | 30         | RLP1008                |
| CTG-BR45    | 12 |             | 45 | 16.8 | 14 | 10 | 6201-2RS             | 50         | RLP1210                |
| CTG-BR50    |    |             | 50 |      |    |    |                      | 56         |                        |
| CTG-BR55    | 15 |             | 55 | 20   | 15 | 11 | 6202-2RS             | 70         | RLP1511                |
| CTG-BR60    |    |             | 60 |      |    |    |                      | 77         |                        |

CTG-BR-D (Double-Collar)

| Part Number | A  |                  | B  | C    | D  | E  | F  | Special Bearing Type | Weight (g) | Applicable Roller Pins |
|-------------|----|------------------|----|------|----|----|----|----------------------|------------|------------------------|
| CTG-BR20D   | 6  | 0<br>-0.02       | 20 | 8.6  | 8  | 5  | 11 | 696-2RS              | 7          | RLP0611                |
| CTG-BR25D   |    |                  | 25 | 9.3  | 9  | 6  | 12 | 626-2RS              | 12         |                        |
| CTG-BR30D   | 8  | 0<br>-0.04       | 30 | 12   | 11 | 7  | 15 | 608-2RS              | 21         | RLP0813                |
| CTG-BR35D   |    |                  | 35 |      |    |    |    |                      | 24         |                        |
| CTG-BR40D   | 10 | +0.005<br>-0.012 | 40 | 14   | 12 | 8  | 16 | 6000-2RS             | 34         | RLP1016                |
| CTG-BR45D   | 12 |                  | 45 | 18.3 | 14 | 10 | 18 | 6201-2RS             | 60         | RLP1216                |
| CTG-BR50D   |    |                  | 50 |      |    |    |    |                      | 66         |                        |
| CTG-BR55D   | 15 |                  | 55 | 21.6 | 15 | 11 | 19 | 6202-2RS             | 82         | RLP1517                |
| CTG-BR60D   |    |                  | 60 |      |    |    |    |                      | 90         |                        |

## Features

- Use as rollers for sliding doors or carriers.
- Light-duty.
- The urethane part and the special bearing are integral molded for prevention of separation. (The urethane part is single-layered for Guide Rollers with O.D. of 20 to 35mm, and double-layered for those with O.D. of 40 to 60mm.)
- The urethane body provides silent running.

## Notes

- Do not use in applications where an offset load is applied.
- Do not use in applications where temperature and humidity are high and exposure to water is possible.
- Resistant to oil that does not contain a solvent. Solvent-containing oil can cause swelling or strength deterioration.
- Poorly resistant to strong acid, strong alkali, ester, ketone, aromatic solvents, trichloroethylene, aniline, or the like.

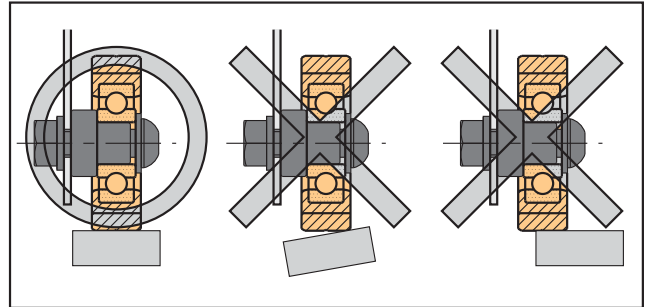


Chart Of Part Selection By Revolution Speed & Load

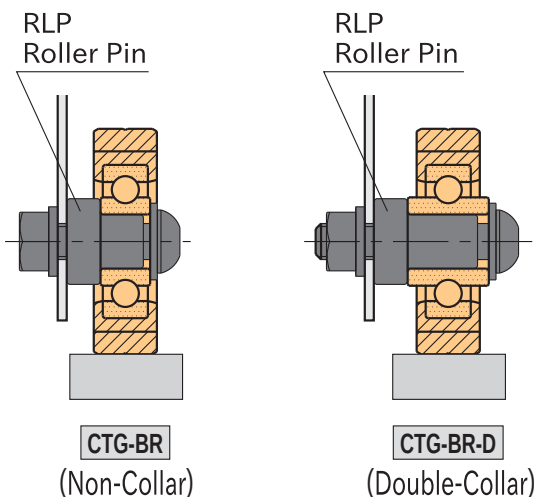
<Unit:N>

| Revolution Speed<br>(min <sup>-1</sup> ) | φ 20 | φ 25 | φ 30 | φ 35 | φ 40 | φ 45 | φ 50 | φ 55 | φ 60 |
|------------------------------------------|------|------|------|------|------|------|------|------|------|
| <b>300</b>                               | 63   | 93   | 167  | 225  | 314  | 402  | 470  | 510  | 539  |
| <b>320</b>                               | 62   | 91   | 161  | 218  | 302  | 386  | 451  | 490  | 519  |
| <b>340</b>                               | 61   | 90   | 155  | 210  | 290  | 370  | 431  | 470  | 500  |
| <b>360</b>                               | 60   | 88   | 149  | 202  | 278  | 355  | 412  | 451  | 480  |
| <b>380</b>                               | 59   | 87   | 143  | 194  | 267  | 339  | 392  | 431  | 461  |
| <b>400</b>                               | 58   | 86   | 137  | 186  | 255  | 323  | 372  | 412  | 441  |
| <b>420</b>                               | 57   | 85   | 131  | 178  | 243  | 308  | 353  | 392  | 421  |
| <b>440</b>                               | 57   | 82   | 125  | 171  | 231  | 292  | 333  | 372  | 402  |
| <b>460</b>                               | 56   | 81   | 120  | 163  | 220  | 276  | 314  | 353  | 382  |
| <b>480</b>                               | 55   | 80   | 114  | 155  | 208  | 261  | 294  | 333  | 363  |
| <b>500</b>                               | 55   | 79   | 108  | 147  | 196  | 245  | 274  | 314  | 343  |

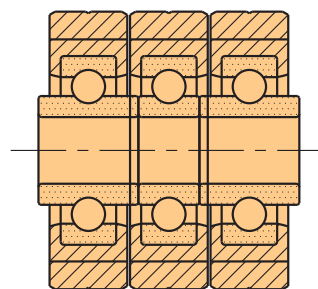
Note : Consider the above load values as reference because load capacity varies with use conditions or environments.

## How to Use

### Installation Examples



### Example Of Using Multiple Guide Rollers In Combination



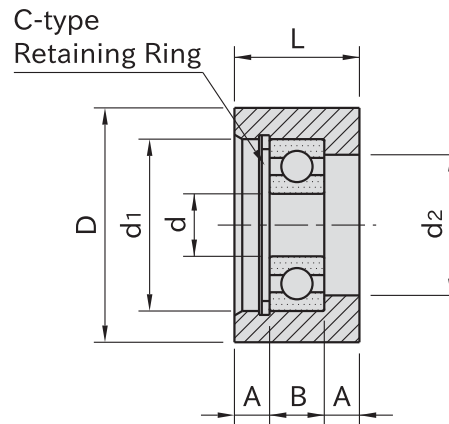
# GRL-F

## FLAT GUIDE ROLLERS



**GRL-J-F**  
(Plastic)

**GRL-S-F**  
(Steel)



| Type           | Body                                    | Bearing/Retaining Ring |
|----------------|-----------------------------------------|------------------------|
| <b>GRL-S-F</b> | S45C steel<br>Electroless nickel plated | Steel                  |
| <b>GRL-J-F</b> | Polyacetal plastic<br>Black             |                        |

| Steel           | Plastic         | d  | D  | d1 | d2 | L  | A   | B  | Bearing Type | Applicable Roller Pins |         |        |        |
|-----------------|-----------------|----|----|----|----|----|-----|----|--------------|------------------------|---------|--------|--------|
| Part Number     | Part Number     |    |    |    |    |    |     |    |              |                        |         |        |        |
| <b>GRL30S-F</b> | <b>GRL30J-F</b> | 6  | 22 | 17 | 13 | 12 | 3   | 6  | 606ZZ        | -                      | RLP0606 | RLP06E | RLP06S |
| <b>GRL40S-F</b> | <b>GRL40J-F</b> | 8  | 30 | 22 | 18 | 16 | 4.5 | 7  | 608ZZ        | RLP0807F               | RLP0807 | RLP08E | RLP08S |
| <b>GRL50S-F</b> | <b>GRL50J-F</b> | 10 | 36 | 26 | 22 | 19 | 5.5 | 8  | 6000ZZ       | RLP1008F               | RLP1008 | RLP10E | RLP10S |
| <b>GRL60S-F</b> | <b>GRL60J-F</b> | 12 | 42 | 32 | 26 | 23 | 6.5 | 10 | 6201ZZ       | RLP1210F               | RLP1210 | RLP12E | RLP12S |
| <b>GRL70S-F</b> | <b>GRL70J-F</b> | 15 | 46 | 35 | 29 | 28 | 8.5 | 11 | 6202ZZ       | -                      | RLP1511 | RLP15E | RLP15S |

| Steel           |           | Plastic         |           |
|-----------------|-----------|-----------------|-----------|
| Part Number     | Weight(g) | Part Number     | Weight(g) |
| <b>GRL30S-F</b> | 23        | <b>GRL30J-F</b> | 10        |
| <b>GRL40S-F</b> | 60        | <b>GRL40J-F</b> | 22        |
| <b>GRL50S-F</b> | 100       | <b>GRL50J-F</b> | 35        |
| <b>GRL60S-F</b> | 170       | <b>GRL60J-F</b> | 75        |
| <b>GRL70S-F</b> | 220       | <b>GRL70J-F</b> | 85        |

### Related Products

Proper ROLLER PINS

**RLP-F** FLANGED ROLLER PINS

**RLP** ROLLER PINS

**RLP-S** ROLLER PINS

**RLP-E** ECCENTRIC ROLLER PINS

### Features

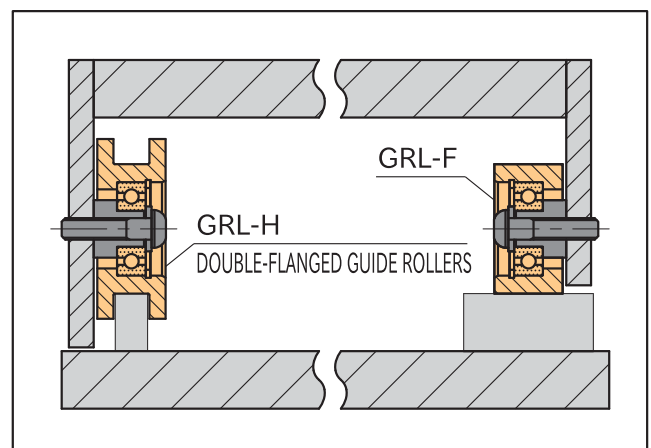
- Use as rollers for sliding doors or carriers.
- Medium-duty

### Technical Information

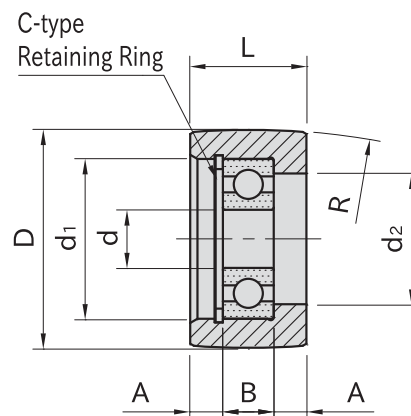
Load Rating of Bearings

| Bearing Type  | Basic Load Rating<br>Cr (N) | Basic Static Load Rating<br>Cor (N) |
|---------------|-----------------------------|-------------------------------------|
| <b>606ZZ</b>  | 2260                        | 840                                 |
| <b>608ZZ</b>  | 3300                        | 1360                                |
| <b>6000ZZ</b> | 4550                        | 1970                                |
| <b>6201ZZ</b> | 6800                        | 3050                                |
| <b>6202ZZ</b> | 7650                        | 3700                                |

### Application Example



GRL-F flat guide rollers can be used with GRL-H.



| Body                                    | Bearing/Retaining Ring |
|-----------------------------------------|------------------------|
| S45C steel<br>Electroless nickel plated | Steel                  |

| Part Number     | d  | D  | d1 | d2 | L  | A   | B  | R    | Bearing Type | Applicable Roller Pins |         |        |        |
|-----------------|----|----|----|----|----|-----|----|------|--------------|------------------------|---------|--------|--------|
| <b>GRL30S-C</b> | 6  | 22 | 17 | 13 | 12 | 3   | 6  | R 50 | 606ZZ        | -                      | RLP0606 | RLP06E | RLP06S |
| <b>GRL40S-C</b> | 8  | 30 | 22 | 18 | 16 | 4.5 | 7  | R100 | 608ZZ        | RLP0807F               | RLP0807 | RLP08E | RLP08S |
| <b>GRL50S-C</b> | 10 | 36 | 26 | 22 | 19 | 5.5 | 8  |      | 6000ZZ       | RLP1008F               | RLP1008 | RLP10E | RLP10S |
| <b>GRL60S-C</b> | 12 | 42 | 32 | 26 | 23 | 6.5 | 10 | R150 | 6201ZZ       | RLP1210F               | RLP1210 | RLP12E | RLP12S |
| <b>GRL70S-C</b> | 15 | 46 | 35 | 29 | 28 | 8.5 | 11 | R200 | 6202ZZ       | -                      | RLP1511 | RLP15E | RLP15S |

| Part Number     | Weight (g) |
|-----------------|------------|
| <b>GRL30S-C</b> | 23         |
| <b>GRL40S-C</b> | 55         |
| <b>GRL50S-C</b> | 95         |
| <b>GRL60S-C</b> | 155        |
| <b>GRL70S-C</b> | 215        |

## Features

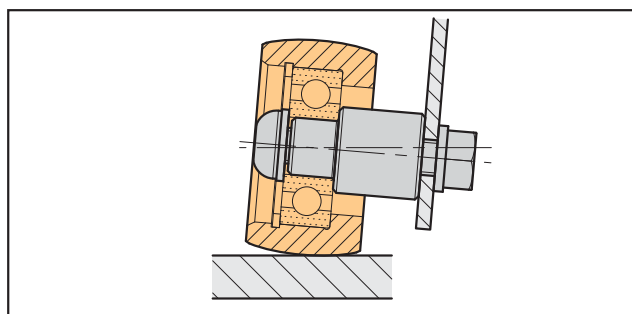
Use as rollers for sliding doors or carriers.  
Medium-duty

## Technical Information

Load Rating of Bearings

| Bearing Type  | Basic Load Rating Cr (N) | Basic Static Load Rating Cor (N) |
|---------------|--------------------------|----------------------------------|
| <b>606ZZ</b>  | 2260                     | 840                              |
| <b>608ZZ</b>  | 3300                     | 1360                             |
| <b>6000ZZ</b> | 4550                     | 1970                             |
| <b>6201ZZ</b> | 6800                     | 3050                             |
| <b>6202ZZ</b> | 7650                     | 3700                             |

## Application Example



## Related Product Page

Applicable Roller Pins

**RLP-F** FLANGED ROLLER PINS

**RLP** ROLLER PINS

**RLP-S** ROLLER PINS

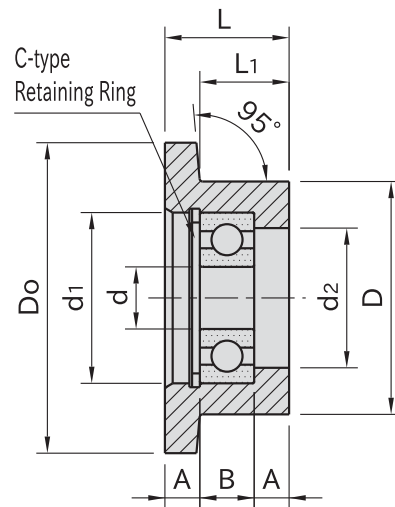
**RLP-E** ECCENTRIC ROLLER PINS



**GRL-S-L**  
(Steel)



**GRL-J-L**  
(Plastic)



| Type           | Body                                    | Bearing/Retaining Ring |
|----------------|-----------------------------------------|------------------------|
| <b>GRL-S-L</b> | S45C steel<br>Electroless nickel plated | Steel                  |
| <b>GRL-J-L</b> | Polyacetal plastic<br>Black             |                        |

| Size                                            |    | d  | Do | D  | d1 | d2 | L  | L1   | A   | B  | Bearing Type | Applicable Roller Pins |         |        |        |
|-------------------------------------------------|----|----|----|----|----|----|----|------|-----|----|--------------|------------------------|---------|--------|--------|
| <div><div>GRL-S-L</div><div>GRL-J-L</div></div> | 30 | 6  | 30 | 22 | 17 | 13 | 12 | 8.5  | 3   | 6  | 606ZZ        | -                      | RLP0606 | RLP06E | RLP06S |
|                                                 | 40 | 8  | 40 | 30 | 22 | 18 | 16 | 11.5 | 4.5 | 7  | 608ZZ        | RLP0807F               | RLP0807 | RLP08E | RLP08S |
|                                                 | 50 | 10 | 50 | 36 | 26 | 22 | 19 | 14.5 | 5.5 | 8  | 6000ZZ       | RLP1008F               | RLP1008 | RLP10E | RLP10S |
|                                                 | 60 | 12 | 60 | 42 | 32 | 26 | 23 | 18   | 6.5 | 10 | 6201ZZ       | RLP1210F               | RLP1210 | RLP12E | RLP12S |
|                                                 | 70 | 15 | 70 | 46 | 35 | 29 | 28 | 22.5 | 8.5 | 11 | 6202ZZ       | -                      | RLP1511 | RLP15E | RLP15S |

| Steel           |            | Plastic         |            |
|-----------------|------------|-----------------|------------|
| Part Number     | Weight (g) | Part Number     | Weight (g) |
| <b>GRL30S-L</b> | 30         | <b>GRL30J-L</b> | 12         |
| <b>GRL40S-L</b> | 75         | <b>GRL40J-L</b> | 25         |
| <b>GRL50S-L</b> | 130        | <b>GRL50J-L</b> | 40         |
| <b>GRL60S-L</b> | 210        | -               | -          |
| <b>GRL70S-L</b> | 300        | -               | -          |

## Features

- Use as rollers for sliding doors or carriers.
- Medium-duty
- This product can accept a polished steel bar that is available commercially.

## Related Product Page

Applicable Roller Pins

**RLP-F** FLANGED ROLLER PINS

**RLP** ROLLER PINS

**RLP-S** ROLLER PINS

**RLP-E** ECCENTRIC ROLLER PINS

## Technical Information

### Load Rating of Bearings

| Bearing Type  | Basic Load Rating Cr (N) | Basic Static Load Rating Cor (N) |
|---------------|--------------------------|----------------------------------|
| <b>606ZZ</b>  | 2260                     | 840                              |
| <b>608ZZ</b>  | 3300                     | 1360                             |
| <b>6000ZZ</b> | 4550                     | 1970                             |
| <b>6201ZZ</b> | 6800                     | 3050                             |
| <b>6202ZZ</b> | 7650                     | 3700                             |

# GRL-2-L

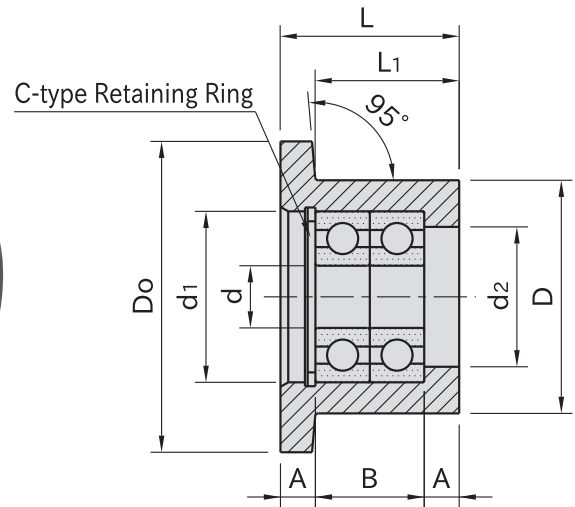
## SINGLE-FLANGED GUIDE ROLLERS (DOUBLE BEARINGS)



**GRL-S2-L**  
(Steel)



**GRL-J2-L**  
(Plastic)



| Type            | Body                                    | Bearing/Retaining Ring |
|-----------------|-----------------------------------------|------------------------|
| <b>GRL-S2-L</b> | S45C steel<br>Electroless nickel plated | Steel                  |
| <b>GRL-J2-L</b> | Polyacetal plastic<br>Black             |                        |

| Type                               |           | d  | D <sub>0</sub> | D  | d <sub>1</sub> | d <sub>2</sub> | L  | L <sub>1</sub> | A   | B  | Bearing Type | Applicable Roller Screws |
|------------------------------------|-----------|----|----------------|----|----------------|----------------|----|----------------|-----|----|--------------|--------------------------|
| <b>GRL-S2-L</b><br><b>GRL-J2-L</b> | <b>30</b> | 6  | 30             | 22 | 17             | 13             | 18 | 14             | 3   | 12 | 606ZZ×2      | RLB0612                  |
|                                    | <b>40</b> | 8  | 40             | 30 | 22             | 18             | 23 | 18.5           | 4.5 | 14 | 608ZZ×2      | RLB0814                  |
|                                    | <b>50</b> | 10 | 50             | 36 | 26             | 22             | 27 | 22.5           | 5.5 | 16 | 6000ZZ×2     | RLB1016                  |
|                                    | <b>60</b> | 12 | 60             | 42 | 32             | 26             | 33 | 28             | 6.5 | 20 | 6201ZZ×2     | RLB1220                  |
|                                    | <b>70</b> | 15 | 70             | 46 | 35             | 29             | 39 | 33.5           | 8.5 | 22 | 6202ZZ×2     | RLB1522                  |

| Steel            |           | Plastic          |           |
|------------------|-----------|------------------|-----------|
| Part Number      | Weight(g) | Part Number      | Weight(g) |
| <b>GRL30S2-L</b> | 45        | <b>GRL30J2-L</b> | 20        |
| <b>GRL40S2-L</b> | 105       | <b>GRL40J2-L</b> | 40        |
| <b>GRL50S2-L</b> | 180       | <b>GRL50J2-L</b> | 65        |
| <b>GRL60S2-L</b> | 290       | -                | -         |
| <b>GRL70S2-L</b> | 410       | -                | -         |

### Features

- Use as rollers for sliding doors or carriers.
- Heavy-duty
- This product can accept a polished steel bar that is available commercially.

### Related Product Page

Applicable Roller Screws  
**RLB** ROLLER SCREWS

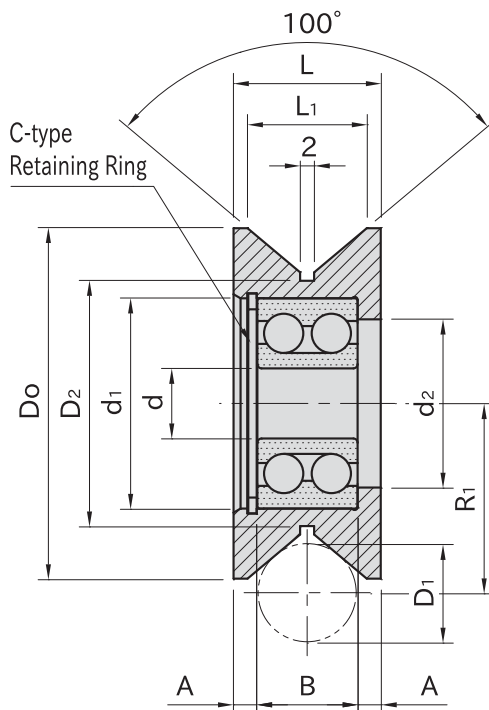
### Technical Information

#### Load Rating of Bearings

| Bearing Type    | Basic Load Rating Cr(N) | Basic Static Load Rating Cor(N) |
|-----------------|-------------------------|---------------------------------|
| <b>606ZZ×2</b>  | 3660                    | 1360                            |
| <b>608ZZ×2</b>  | 5340                    | 2200                            |
| <b>6000ZZ×2</b> | 7370                    | 3190                            |
| <b>6201ZZ×2</b> | 11010                   | 4940                            |
| <b>6202ZZ×2</b> | 12390                   | 5990                            |

# GRL-SWA-Y

## Y GROOVE GUIDE ROLLERS (DOUBLE-ROW ANGULAR CONTACT BALL BEARING)



| Body                                    | Bearing/Retaining Ring |
|-----------------------------------------|------------------------|
| S45C steel<br>Electroless nickel plated | Steel                  |

| Part Number       | d  | D0 | D2 | d1 | d2 | L  | L1   | min. |    | max. |      | A   | B    |
|-------------------|----|----|----|----|----|----|------|------|----|------|------|-----|------|
|                   |    |    |    |    |    |    |      | D1   | R1 | D1   | R1   |     |      |
| <b>GRL50SWA-Y</b> | 10 | 50 | 35 | 30 | 24 | 21 | 17   | 14   | 27 | 20   | 30.9 | 3.3 | 14.4 |
| <b>GRL60SWA-Y</b> | 12 | 60 | 42 | 32 | 26 | 23 | 20.1 | 16   | 32 | 25   | 37.9 | 3.5 | 16   |
| <b>GRL70SWA-Y</b> | 15 | 70 | 49 | 35 | 29 | 28 | 24   | 20   | 38 | 30   | 44.5 | 6   | 16   |

| Part Number       | Bearing Type | Weight (g) | Applicable Roller Pins |          |
|-------------------|--------------|------------|------------------------|----------|
| <b>GRL50SWA-Y</b> | 5200ZZ       | 195        | RLP10SWA               | RLP10EWA |
| <b>GRL60SWA-Y</b> | 5201ZZ       | 315        | RLP12SWA               | RLP12EWA |
| <b>GRL70SWA-Y</b> | 5202ZZ       | 525        | RLP15SWA               | RLP15EWA |

\*) D1 and R1 dimensions are for polished round steel bar that is available commercially.

### Features

- Perfect for use in application that generates radial loads, axial loads in either direction, and moment loads.
- Use as rollers for sliding doors or carriers.
- Heavy-duty

### Technical Information

#### Load Rating of Bearings

| Bearing Type  | Basic Load Rating Cr (N) | Basic Static Load Rating Cor (N) |
|---------------|--------------------------|----------------------------------|
| <b>5200ZZ</b> | 6950                     | 3800                             |
| <b>5201ZZ</b> | 9150                     | 5050                             |
| <b>5202ZZ</b> | 10000                    | 6050                             |

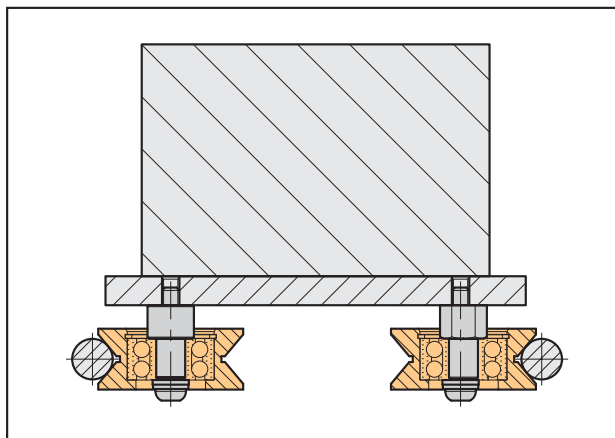
### Related Product Page

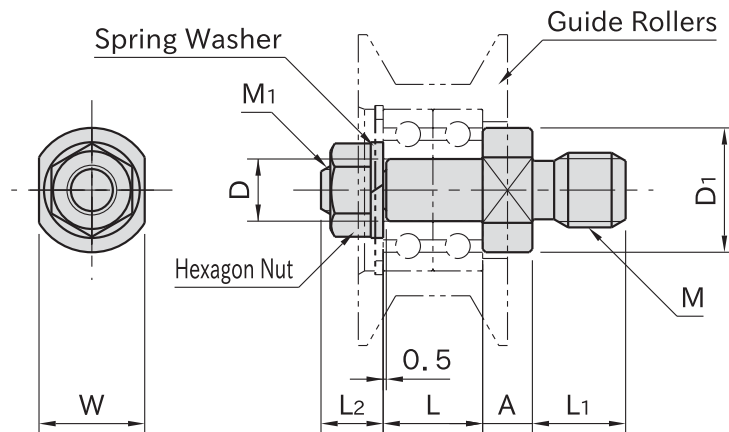
Applicable Roller Pins

**RLP-SWA** ROLLER PINS

**RLP-EWA** ECCENTRIC ROLLER PINS

### Application Example





## Body

S45C steel  
Black oxide finished

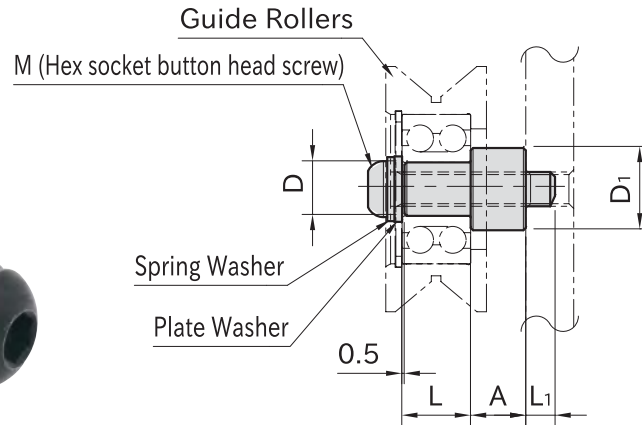
| Part Number    | D<br>(g7) | L  | D <sub>1</sub> | W  | A   | M        | L <sub>1</sub> | M <sub>1</sub> | L <sub>2</sub> | Weight<br>(g) |
|----------------|-----------|----|----------------|----|-----|----------|----------------|----------------|----------------|---------------|
| <b>RLB0612</b> | 6         | 12 | 12             | 10 | 7   | M 6×1    | 12             | M 5×0.8        | 6.5            | 15            |
| <b>RLB0814</b> | 8         | 14 | 16             | 13 | 8.5 | M10×1.5  |                | M 6×1          | 8.5            | 30            |
| <b>RLB1016</b> | 10        | 16 | 20             | 17 | 8   | M12×1.75 | 15             | M 8×1.25       | 10             | 70            |
| <b>RLB1220</b> | 12        | 20 | 23             | 19 | 10  | M16×2    | 22.5           | M10×1.5        | 12.5           | 100           |
| <b>RLB1522</b> | 15        | 22 | 25             | 22 | 15  |          |                | M12×1.75       | 15.5           | 160           |

## How To Use

Use as a shaft for Guide Rollers.

# RLP-SWA

## ROLLER PINS

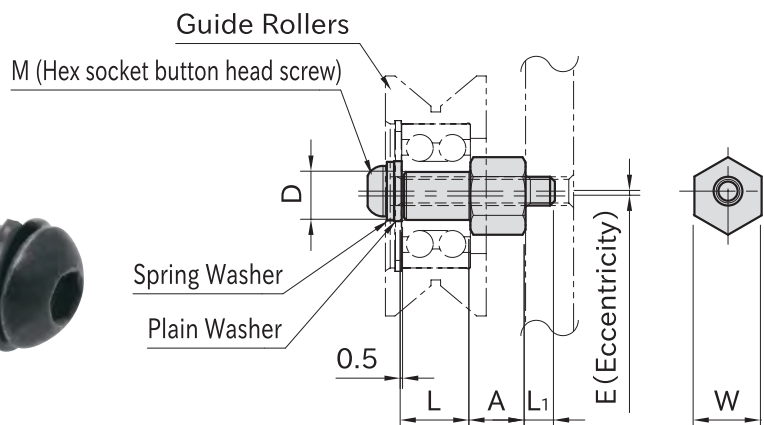


| Body                               |
|------------------------------------|
| S45C steel<br>Black oxide finished |

| Part Number     | D<br>(g7) | L    | D <sub>1</sub> | A    | M            | L <sub>1</sub> | Weight<br>(g) |
|-----------------|-----------|------|----------------|------|--------------|----------------|---------------|
| <b>RLP10SWA</b> | 10        | 14.3 | 16             | 11.5 | M 6×1 -35L   | 6.1            | 31            |
| <b>RLP12SWA</b> | 12        | 15.9 | 19             | 12.5 | M 8×1.25-40L | 8              | 52            |
| <b>RLP15SWA</b> | 15        |      | 22             | 16   | M10×1.5 -50L | 13.6           | 89            |

# RLP-EWA

## EXCENTRIC ROLLER PINS



| Body                               |
|------------------------------------|
| S45C steel<br>Black oxide finished |

| Part Number     | D<br>(g7) | L    | W  | A    | M            | L <sub>1</sub> | E   | Weight<br>(g) |
|-----------------|-----------|------|----|------|--------------|----------------|-----|---------------|
| <b>RLP10EWA</b> | 10        | 14.3 | 14 | 11.5 | M 6×1 -35L   | 6.1            | 1   | 29            |
| <b>RLP12EWA</b> | 12        | 15.9 | 17 | 12.5 | M 8×1.25-40L | 8              |     | 49            |
| <b>RLP15EWA</b> | 15        |      | 19 | 16   | M10×1.5 -50L | 13.6           | 1.5 | 80            |

### How To Use

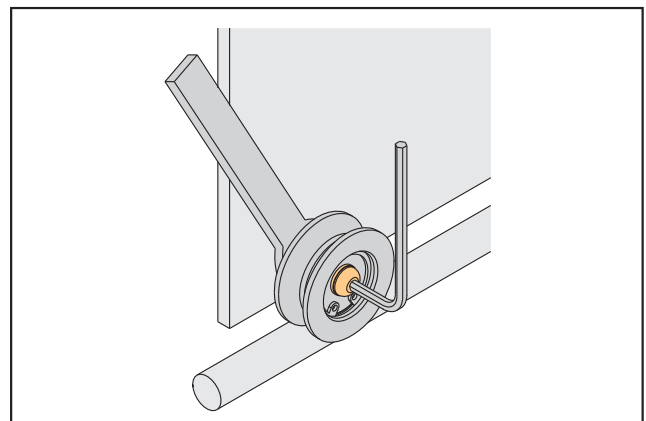
- Use as a shaft for Guide Rollers.
- This product allows adjusting the height of guide rollers. Adjust the position of Eccentric Roller Pins, and then tighten the screw.

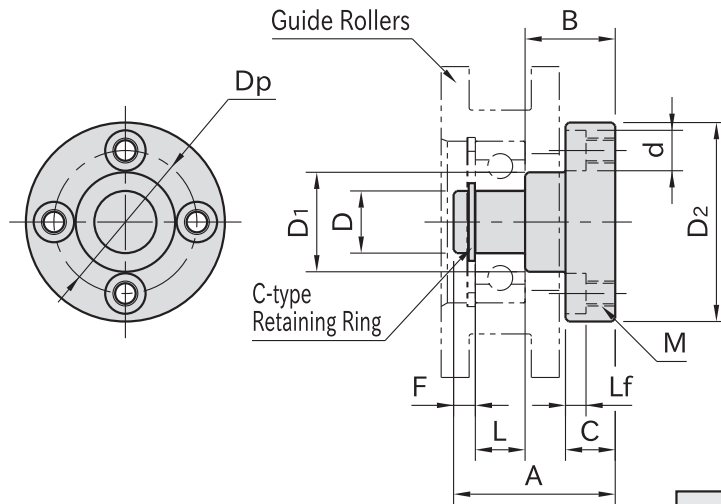
### Features

Can be used with **GRL-SWA-Y** Guide Rollers.

### Notes

For application with a thicker board, use a longer hex. socket button head screw that is commercially available.





| Body                 |
|----------------------|
| S45C steel           |
| Black oxide finished |

| Part Number | D<br>(g7) | L  | D <sub>1</sub> | D <sub>2</sub> | A  | B    | C  | F   | d   | Lf                       | M                        | Dp | Weight<br>(g) |
|-------------|-----------|----|----------------|----------------|----|------|----|-----|-----|--------------------------|--------------------------|----|---------------|
| RLP0807F    | 8         | 7  | 12             | 28             | 23 | 13.5 | 8  | 2.5 | 6.5 | 3.3                      | M4×0.7(Prepared Hole3.5) | 19 | 40            |
| RLP1008F    | 10        | 8  | 16             | 32             | 26 | 14.5 |    | 3.5 |     |                          |                          | 23 | 60            |
| RLP1210F    | 12        | 10 | 19             | 40             | 31 | 17.5 | 10 | 8   | 4.4 | M5×0.8(Prepared Hole4.3) |                          | 28 | 110           |

## How To Use

Use as a shaft for Guide Rollers.

# RLP-S

## ROLLER PINS



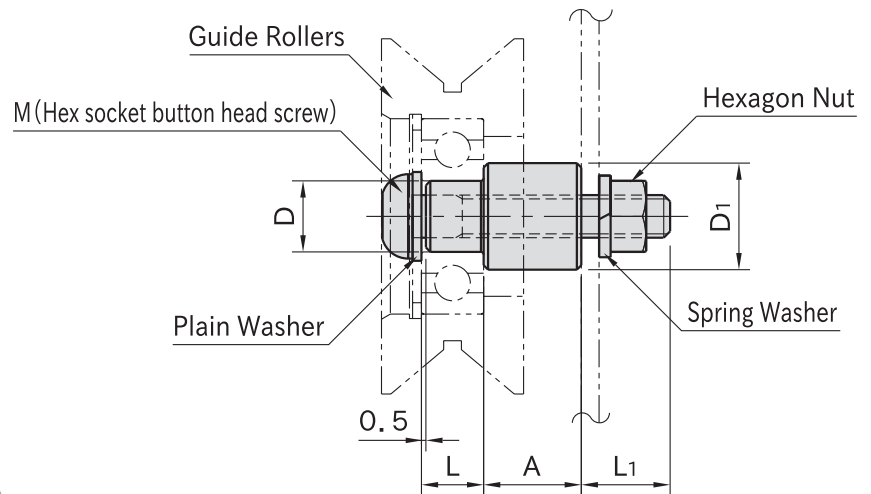
Stainless Steel



**RLP-S**  
(Steel)



**RLP-S-SUS**  
(Stainless Steel)



| Type             | Body                               |
|------------------|------------------------------------|
| <b>RLP-S</b>     | S45C steel<br>Black oxide finished |
| <b>RLP-S-SUS</b> | Stainless steel (SUS303)           |

| Steel         | Stainless Steel   | D<br>(g7) | L  | D <sub>1</sub> | A    | M            | L <sub>1</sub> | Weight<br>(g) |
|---------------|-------------------|-----------|----|----------------|------|--------------|----------------|---------------|
| Part Number   | Part Number       |           |    |                |      |              |                |               |
| <b>RLP06S</b> | -                 | 6         | 6  | 10             | 8.5  | M 4×0.7 -25L | 9.7            | 10            |
| <b>RLP08S</b> | <b>RLP08S-SUS</b> | 8         | 7  | 12             | 12   | M 5×0.8 -30L | 10             | 18            |
| <b>RLP10S</b> | <b>RLP10S-SUS</b> | 10        | 8  | 16             | 13.5 | M 6×1 -35L   | 11.9           | 35            |
| <b>RLP12S</b> | <b>RLP12S-SUS</b> | 12        | 10 | 19             | 15.5 | M 8×1.25-40L | 12.9           | 62            |
| <b>RLP15S</b> | -                 | 15        | 11 | 22             | 18.5 | M10×1.5 -45L | 13.5           | 105           |

### How To Use

Use as a shaft for Guide Rollers.

### Features

- Stainless-steel roller pins have excellent resistance to corrosion.
- Perfect for use on food processing machines and washing machines.



### Note

Depending on thickness of the mounting plate, prepare a proper hex socket button head screw that is commercially available.

# RLP-E

# ECCENTRIC ROLLER PINS



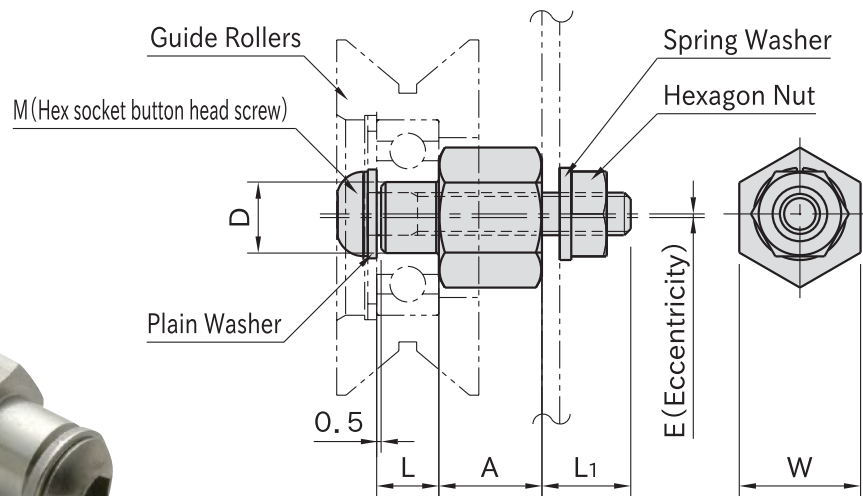
Stainless Steel



**RLP-E**  
(Steel)



**RLP-E-SUS**  
(Stainless Steel)

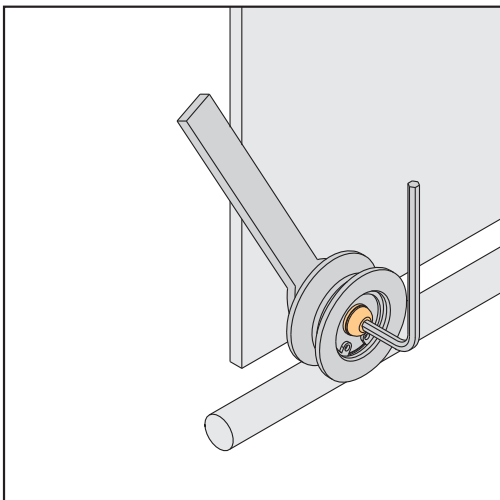


| Type             | Body                               |
|------------------|------------------------------------|
| <b>RLP-E</b>     | S45C steel<br>Black oxide finished |
| <b>RLP-E-SUS</b> | Stainless steel (SUS303)           |

| Steel         | Stainless Steel   | D<br>(g7) | L  | W  | A    | M            | L <sub>1</sub> | E   | Weight<br>(g) |
|---------------|-------------------|-----------|----|----|------|--------------|----------------|-----|---------------|
| Part Number   | Part Number       |           |    |    |      |              |                |     |               |
| <b>RLP06E</b> | -                 | 6         | 6  | 10 | 8.5  | M 4×0.7 -25L | 9.7            | 0.3 | 10            |
| <b>RLP08E</b> | <b>RLP08E-SUS</b> | 8         | 7  | 14 | 12   | M 5×0.8 -30L | 10             | 0.8 | 24            |
| <b>RLP10E</b> | <b>RLP10E-SUS</b> | 10        | 8  |    | 13.5 | M 6×1 -35L   | 11.9           | 1   | 32            |
| <b>RLP12E</b> | <b>RLP12E-SUS</b> | 12        | 10 | 17 | 15.5 | M 8×1.25-40L | 12.9           |     | 59            |
| <b>RLP15E</b> | -                 | 15        | 11 | 19 | 18.5 | M10×1.5 -45L | 13.5           | 1.5 | 99            |

## How To Use

- Use as a shaft for Guide Rollers.
- This product allows adjusting the height of guide rollers. Adjust the position of Eccentric Roller Pins, and then tighten the screw.



## Features:

- Stainless-steel roller pins have excellent resistance to corrosion.
- Perfect for use on food processing machines and washing machines.

## Note

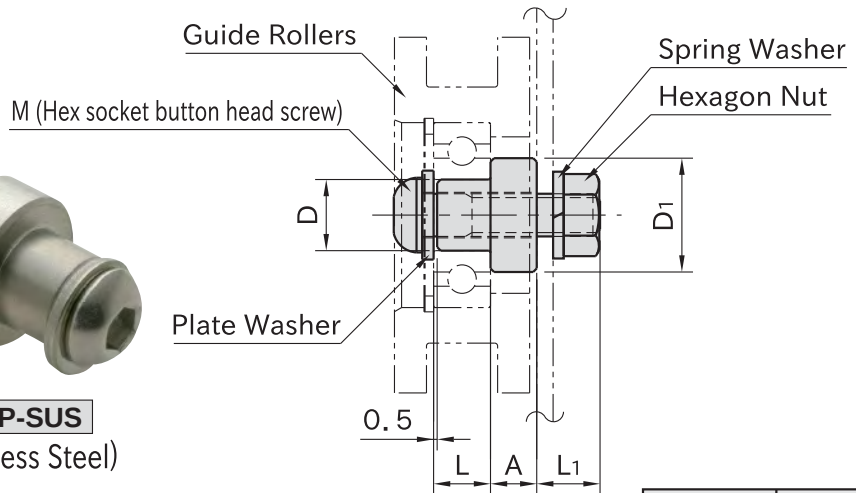
Depending on thickness of the mounting plate, prepare a proper hex socket button head screw that is commercially available.



**RLP**  
(Steel)



**RLP-SUS**  
(Stainless Steel)



| Type           | Body                             |
|----------------|----------------------------------|
| <b>RLP</b>     | S45C steel<br>Black oxide finish |
| <b>RLP-SUS</b> | SUS303                           |

| Steel          | Stainless Steel    | D  |                  | L   | D <sub>1</sub> | A   | M            | L <sub>1</sub> | Weight (g) |
|----------------|--------------------|----|------------------|-----|----------------|-----|--------------|----------------|------------|
| Part Number    | Part Number        |    |                  |     |                |     |              |                |            |
| <b>RLP0605</b> | -                  | 6  | -0.004<br>-0.016 | 5.5 | 10             | 4   | M 4×0.7 -16L | 5.7            | 10         |
| <b>RLP0606</b> | -                  |    | -0.020<br>-0.032 | 6   |                |     |              | 5.2            |            |
| <b>RLP0611</b> | -                  |    | -0.005<br>-0.020 | 11  |                |     |              | 9.2            |            |
| <b>RLP0807</b> | <b>RLP0807-SUS</b> | 8  | -0.040<br>-0.055 | 7   | 12             | 5.5 | M 5×0.8 -20L | 6.5            | 15         |
| <b>RLP0813</b> | -                  |    | -0.005<br>-0.020 | 13  |                |     |              | 10.5           | 18         |
| <b>RLP1008</b> | <b>RLP1008-SUS</b> |    | -0.040<br>-0.055 | 8   |                |     |              | 8.9            | 25         |
| <b>RLP1016</b> | -                  | 10 | -0.005<br>-0.020 | 16  | 16             | 6.5 | M 6×1 -25L   | 10.9           | 30         |
| <b>RLP1210</b> | <b>RLP1210-SUS</b> |    | -0.040<br>-0.055 | 16  |                |     |              | 14.9           | 47         |
| <b>RLP1216</b> | -                  |    | -0.005<br>-0.020 | 10  |                |     |              | 10.9           | 40         |
| <b>RLP1511</b> | -                  | 15 | -0.040<br>-0.058 | 11  | 22             | 10  | M 8×1.25-30L | 14.9           | 47         |
| <b>RLP1517</b> | -                  |    | -0.005<br>-0.020 | 17  |                |     |              | 12             | 80         |
| <b>RLP1712</b> | -                  |    | -0.040<br>-0.058 | 12  |                |     |              | 16             | 90         |
| <b>RLP1720</b> | -                  | 17 | -0.006<br>-0.024 | 20  | 25             | 12  | M10×1.5 -35L | 18.7           | 110        |
| <b>RLP2014</b> | -                  |    | -0.012<br>-0.030 | 14  |                |     |              | 20.7           | 125        |
| <b>RLP2018</b> | -                  |    | -0.007<br>-0.028 | 18  |                |     |              | 24.8           | 200        |
| <b>RLP2521</b> | -                  | 25 | -0.040<br>-0.061 | 21  | 34             | 13  | M12×1.75-45L | 30.8           | 220        |
|                |                    |    | -0.012<br>-0.033 | 14  |                |     |              | 27.8           | 270        |
|                |                    |    | -0.040<br>-0.061 | 18  |                |     |              | 30.8           | 220        |

## How To Use

Use for a shaft of Guide Rollers.



## Note

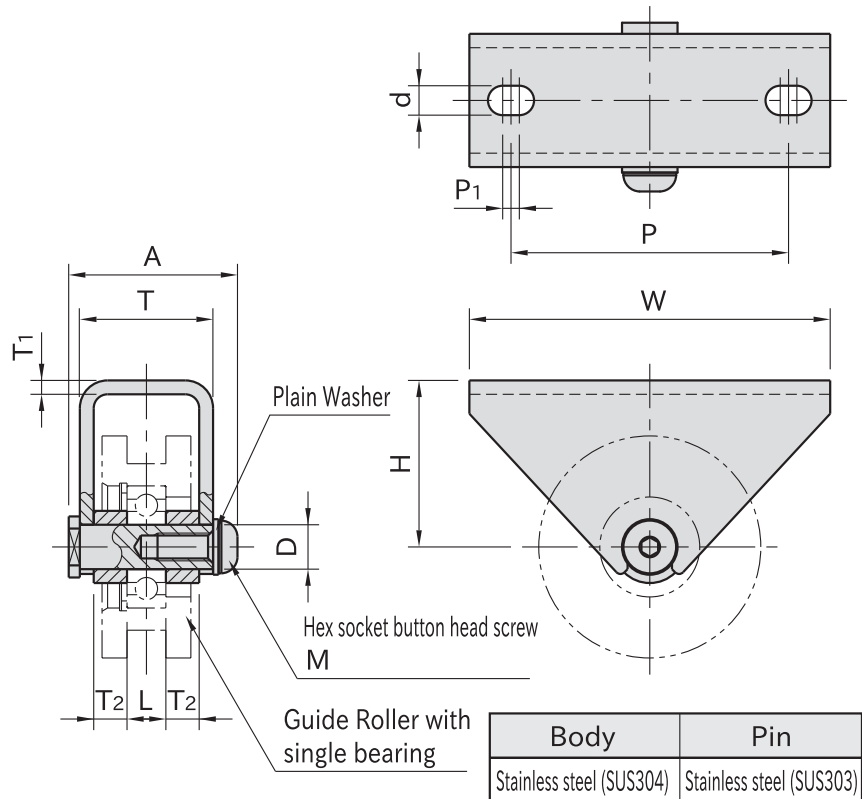
Depending on thickness of the mounting plate, prepare a proper hex socket button head screw that is commercially available.



Stainless Steel



Note : Guide Rollers must be ordered separately.

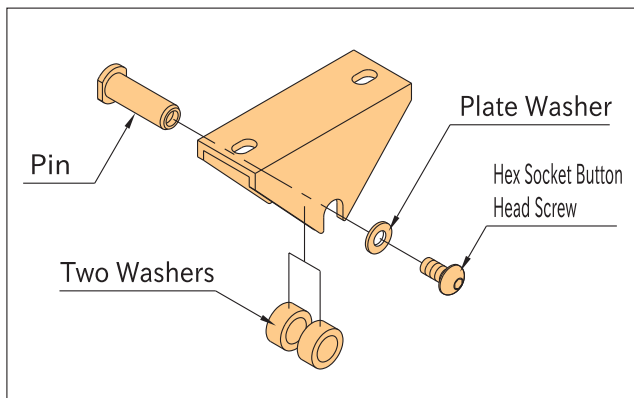


| Part Number        | D  | L  | W  | H  | A    | T  | T <sub>1</sub> | T <sub>2</sub> | M       | d   | P  | P <sub>1</sub> |
|--------------------|----|----|----|----|------|----|----------------|----------------|---------|-----|----|----------------|
| <b>GRL40BL-SUS</b> | 8  | 7  | 65 | 30 | 30.4 | 24 | 2.5            | 6              | M5×0.8  | 5.3 | 50 | 3              |
| <b>GRL50BL-SUS</b> | 10 | 8  | 80 | 35 | 35.6 | 28 | 3              | 7              | M6×1    | 6.3 | 60 | 4              |
| <b>GRL60BL-SUS</b> | 12 | 10 | 95 | 40 | 40.6 | 32 |                | 8              | M8×1.25 | 8.3 | 75 |                |

| Part Number        | Weight (g) | Applicable Guide Rollers |
|--------------------|------------|--------------------------|
| <b>GRL40BL-SUS</b> | 95         | OD $\phi 40$             |
| <b>GRL50BL-SUS</b> | 165        | OD $\phi 50$             |
| <b>GRL60BL-SUS</b> | 235        | OD $\phi 60$             |

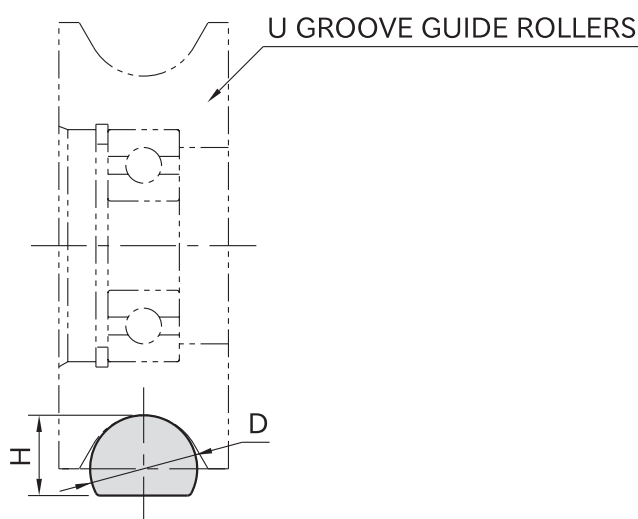
## How To Use

Use as brackets for Guide Rollers.



# RLR

## RAILS FOR GUIDE ROLLERS



| Part Number     | D  | H  | Weight (kg/m) | Standard Length(m) |
|-----------------|----|----|---------------|--------------------|
| <b>RLR12-2M</b> | 12 | 9  | 0.75          | 2                  |
| <b>RLR16-2M</b> | 16 | 11 | 1.15          |                    |

\*) Cutting service is available with an additional charge.

### Note

For rails shorter than 2m, extra cutting cost will be added to the list price.

### How To Use

- Use as rails for U-groove Guide Rollers.
- Remove the surface treatment for welding.

#### Body

S45C steel  
Nitrocarburized



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