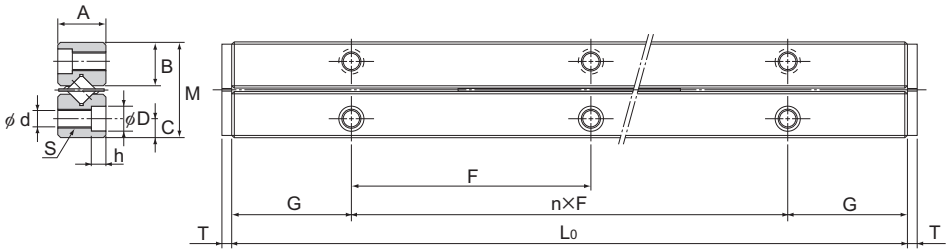
# Cross-Roller Guide Model VR (VR1)



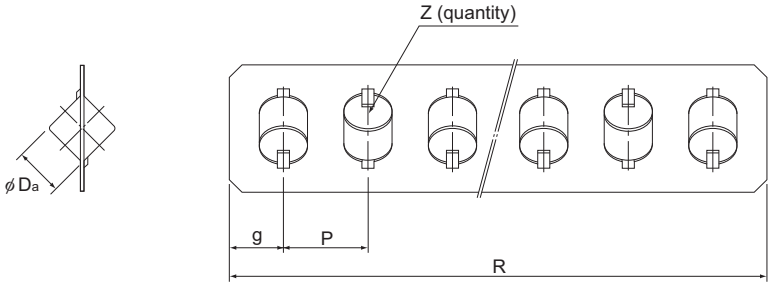

| Model No. | Maximum stroke | Main | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Combined dimensions | | | Mounting | | | | | |
| | | M | A | $L_0$ | n×F | G | B | C | S | d |
| VR 1-20×5Z | 12 | 8.5 | 4 | 20 | 1×10 | 5 | 3.9 | 1.8 | M2 | 1.65 |
| VR 1-30×7Z | 22 | | | 30 | 2×10 | | | | | |
| VR 1-40×10Z | 27 | | | 40 | 3×10 | | | | | |
| VR 1-50×13Z | 32 | | | 50 | 4×10 | | | | | |
| VR 1-60×16Z | 37 | | | 60 | 5×10 | | | | | |
| VR 1-70×19Z | 42 | | | 70 | 6×10 | | | | | |
| VR 1-80×21Z | 52 | | | 80 | 7×10 | | | | | |

**Model number coding**

**VR1 -30 H × 8Z**

- VR1: Combined model number (for Ball Guide: VB)
- -30: Dedicated rail dimension in mm (example of indication for a combination of different overall lengths: 40/50)
- H: Accuracy symbol
- 8Z: Number of rollers or balls

Note) "One set" in the model No. above indicates a combination of four rails and two cages.




Unit: mm

| dimensions | | | | | | | | Permissible preload | Basic load rating (per roller) | | Mass (rail) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| dimensions | | | | | | | No. of rollers | δ | $C_z$ | $C_{oz}$ | |
| | D | h | T | $D_a$ | R | g | P | Z | μm | kN | kN | kg/m |
| 3 | 1.4 | 1.6 | 1.5 | 14 | 2 | 2.5 | 5 | –2 | 0.152 | 0.153 | 0.11 |
| | | | | 19 | | | 7 | | | | |
| | | | | 26.5 | | | 10 | | | | |
| | | | | 34 | | | 13 | | | | |
| | | | | 41.5 | | | 16 | | | | |
| | | | | 49 | | | 19 | | | | |
| | | | | 54 | | | 21 | | | | |

Note) When desiring a Ball Guide in combination with a ball cage, refer to **A7-26** on Ball Cage Model B and indicate the required number of balls.

(Example) VB1-50H x 12Z
Number of balls

The mass in the table indicates the value per rail/m.
Stainless steel type with high corrosion resistance is also available. (symbol M, e.g., VR1M)
To fix the dedicated rail of model VR1, use cross-recessed screws for precision equipment (No. 0 screw).

| Model No. | Type | Nominal name of screw × pitch |
|---|---|---|
| For model VR1 | No. 0 pan-head screw (class 3) | M1.4×0.3 |

Japan Camera Industry Association Standard JCIS 10-70
Cross-recessed screw for precision equipment (No. 0 screw)



Options⇒A7-30