

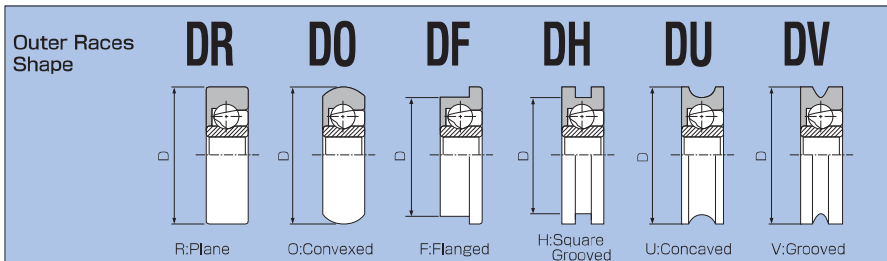
TOK BEARING CO., LTD.

BEARINGS



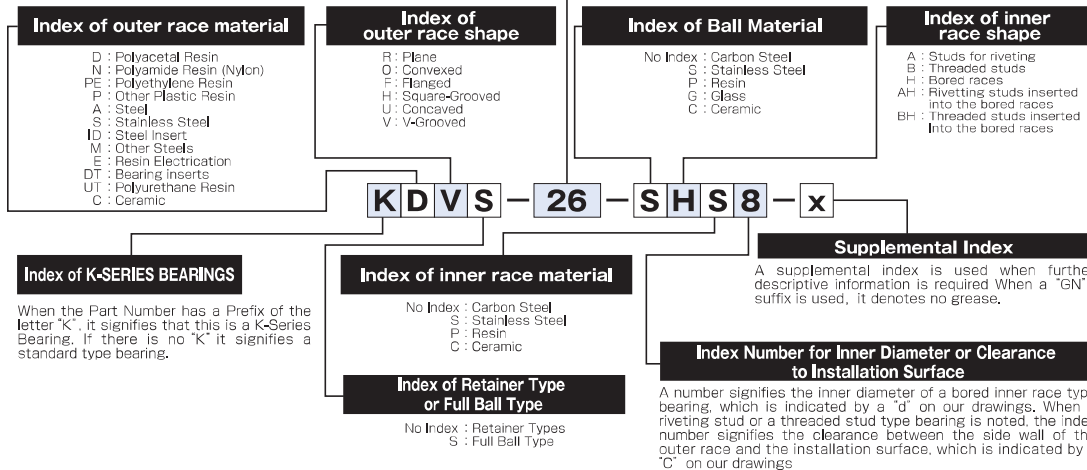
Plastic bearings with a multitude configurations and materials that can suit any customer demand

BEARING PART NUMBER NOMENCLATURE AND DESCRIPTIONS



Index number of outer races diameter

In most cases, this number reflects the overall diameter of the bearings. Exceptions are: DH-type of bearing with square groove—index number reflects the "bottom-to-bottom" diameter; DF—type with flanged shape—index number reflects each diameter of the race threads.





[Bearings]

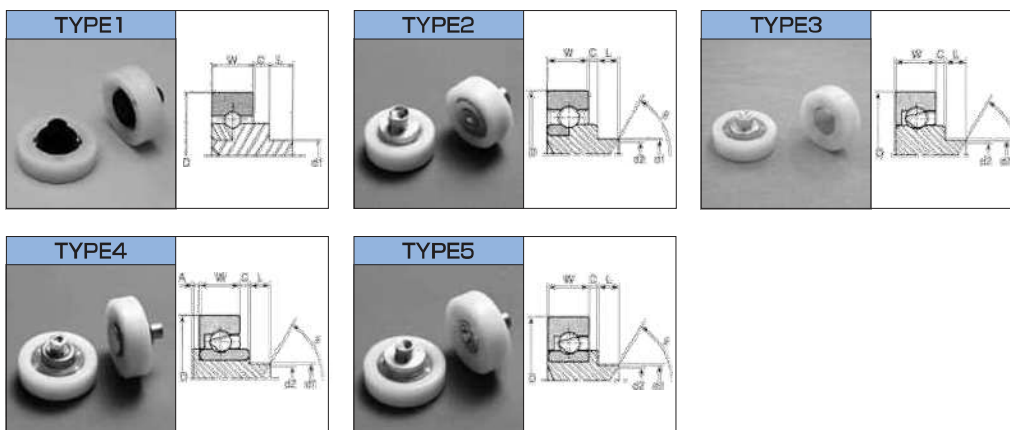
1. Operation temperature : 0°C~40°C (Special designing for use -20°C~60°C is also available)
2. Load capacity indicated in the brochure is based on 1,000,000 revolution test with TOK BEARING durability testing machine.
3. Do not use bearings under axial load.



D-SERIES BEARINGS

DR-A

DR-A



| Code | Part No. | D _{-0.1} [mm] | d1 _{-0.1} [mm] | W _{-0.2} [mm] | C ^{±0.4} [mm] | L ^{±0.2} [mm] | (d2 × θ) ^{*1} | A ^{±0.2} [mm] | Load ^{*2} [N] (kgf) | Type | Q'ty [pcs/box] | Gross Weight [kg/box] |
|--------|----------------------|---------------------------|----------------------------|---------------------------|---------------------------|---------------------------|------------------------|---------------------------|---------------------------------|------|-------------------|--------------------------|
| 000006 | DRS-9-A0.5 | 9 _{-0.05} | 2 _{-0.05} | 3 _{-0.1} | 0.5 | 1.8 | — | — | [9.8] (1) | 1 | 10,000 | — |
| 000007 | DRS-12-A0.5 | 12 _{-0.05} | 3 _{-0.05} | 4 ^{±0.1} | 0.5 ^{±0.3} | 2.3 | — | — | [9.8] (1) | 1 | 10,000 | — |
| 000001 | DRS-16-A1 | 16 _{-0.3} | 4 | 5 ^{±0.2} | 1 | 3.5 | φ3 ×100° | — | 19.6 (2) | 2 | 2,000 | 9.0 |
| 000003 | DRS-16-A1.5 | 16 _{-0.5} | 5 | 6.35 ^{±0.2} | 1.5 | 3.5 | φ4.5 × 90° | — | 19.6 (2) | 2 | 2,500 | 14.4 |
| 000100 | DR-18-A0.5 | 18 | 5 | 6 | 0.5 | 3.5 | φ4 ×120° | — | 19.6 (2) | 3 | 2,000 | 9.6 |
| 000200 | DR-19-A0.5 | 19 | 5 | 6 | 0.5 | 3.5 | φ4 ×120° | — | 29.4 (3) | 3 | 2,000 | 10.7 |
| 000207 | DR-19-A2 | 19 | 5 | 6 | 2 | 3.5 | φ4.4×120° | — | 29.4 (3) | 3 | 2,000 | 11.6 |
| 000408 | DR-22-A-2.1 | 22 | 5 | 7 | 0 | 2.1 | φ4 × 90° | — | 78.4 (8) | 3 | 1,000 | 7.4 |
| 000400 | DR-22-A1 | 22 | 5 | 7 | 1 | 3.5 | φ4.4 × 90° | — | 78.4 (8) | 3 | 1,000 | 9.0 |
| 000410 | DR-22-A2- φ6 | 22 | 6 | 7 | 2 | 3.5 | φ5.5 × 90° | — | 78.4 (8) | 3 | 1,000 | 9.4 |
| 000411 | DR-22-A2 | 22 | 5 | 7 | 2 | 3.5 | φ4 × 90° | — | 78.4 (8) | 3 | 1,000 | 8.9 |
| 000600 | DR-24-A1 | 24 | 5 | 7 | 1 | 3.5 | φ4.4 × 90° | — | 78.4 (8) | 3 | 1,000 | 9.5 |
| 000700 | DR-26-A1 | 26 | 5 | 7 | 1 | 3.5 | φ4.4 × 90° | — | 78.4 (8) | 3 | 1,000 | 10.2 |
| 000800 | DR-28-A1 | 28 | 5 | 7 | 1 | 3.5 | φ4.4 × 90° | — | 78.4 (8) | 3 | 500 | 5.8 |
| 000900 | DR-29-A1 | 29 | 5 | 7 | 1 | 3.5 | φ4.4 × 90° | — | 78.4 (8) | 3 | 500 | 5.7 |
| 000427 | DR-22-AH(1) 3.5-8019 | 22 | 4.5 ^{±0.1} | 7 | 0 | 3.5 ^{+0.2} | nothing | 1 | 196 (20) | 4 | 1,000 | 9.1 |
| 000419 | DR-22-AH2.5-3.65 | 22 | 4.5 ^{±0.1} | 7 | 2.5 | 3.65 | φ2.5×100° | 1 | 196 (20) | 4 | 1,000 | 10.2 |
| 000705 | DR-26-AH | 26 | 4.5 ^{±0.1} | 7 | 0 | 3.5 ^{+0.3} | nothing | 1 ^{±0.3} | 196 (20) | 4 | 1,000 | 10.2 |
| 000707 | DR-26-AH2.5-3.65 | 26 | 4.5 ^{±0.1} | 7 | 2.5 | 3.65 | φ2.5×100° | 1 | 196 (20) | 4 | 800 | 8.8 |
| 040707 | DR-26-AH2.7-2.7 | 26 | 3.9 _{-0.2} | 7 | 2.7 | 2.7 | φ2.3×110° | 1 ^{±0.3} | 196 (20) | 4 | 800 | 8.8 |
| 040706 | DR-26-AH2.7-4 | 26 | 3.9 _{-0.2} | 7 | 2.7 | 4 ^{±0.3} | φ2.7×120° | 1 ^{±0.3} | 196 (20) | 4 | 800 | 9.8 |
| 000414 | DR-22-AH2.5 | 22 | 5 | 7 | 2.5 | 3.5 | φ4 ×110° | — | 196 (20) | 5 | 1,000 | 10.0 |
| 000416 | DR-22-AH3.8-2.5 | 22 | 4.9 | 7 | 3.8 | 2.5 | nothing | — | 196 (20) | 5 | 1,000 | 10.6 |
| 000417 | DR-22-AH4 | 22 | 5 | 7 | 4 | 3.5 | φ4 ×110° | — | 196 (20) | 5 | 1,000 | 10.8 |
| 000706 | DR-26-AH4 | 26 | 5 | 7 | 4 | 3.5 | φ4 ×110° | — | 196 (20) | 5 | 800 | 9.8 |

*1 Reference Dimension

*2 Allowable Load at 300min-1 (300r.p.m.)

Size limits can be modified for practical applications. Please contact our sales/engineering departments for further information and assistance.

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EMAIL : overseas@tok-bearing.co.jp

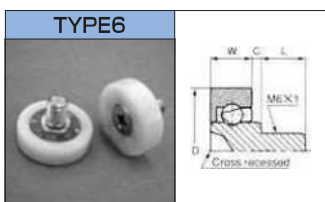
Product specification are subject to change without prior notice.

Before assembly or use of any bearing, please read "Caution for Use"

D-SERIES BEARINGS

DR-B

DR-B



| Code | Part No. | D _{-0.1} [mm] | W _{-0.2} [mm] | C ^{±0.4} [mm] | L ^{±0.5} [mm] | Load ^{*1} [N] (kgf) | Type | Qty [pcs/box] | Gross Weight [kg/box] |
|--------|-----------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------------|------|------------------|--------------------------|
| 020200 | DR-19-B0.5 | 19 | 6 | 0.5 | 8 | 49 (5) | 6 | 2,000 | 12.5 |
| 020207 | DR-19-B1-14 | 19 | 6 | 1 | 14 | 49 (5) | 6 | 1,500 | 11.1 |
| 020208 | DR-19-B1.5 | 19 | 6 | 1.5 | 8 | 49 (5) | 6 | 2,000 | 12.9 |
| 020212 | DR-19-B3.5 | 19 | 6 | 3.5 | 8 | 49 (5) | 6 | 1,500 | 11.0 |
| 020404 | DR-22-B0.5-4.5 | 22 | 7 | 0.5 | 4.5 | 196 (20) | 6 | 1,000 | 8.4 |
| 020400 | DR-22-B0.5 | 22 | 7 | 0.5 | 8 | 196 (20) | 6 | 1,000 | 9.8 |
| 020408 | DR-22-B1-10 | 22 | 7 | 1 | 10 | 196 (20) | 6 | 1,000 | 9.5 |
| 020428 | DR-22-B3-10.5 | 22 | 7 | 3 | 10.5 | 196 (20) | 6 | 1,000 | 11.5 |
| 020427 | DR-22-B3.6-12.4 | 22 | 7 | 3.6 | 12.4 | 196 (20) | 6 | 1,000 | 10.9 |
| 020415 | DR-22-B3.6-14.5 | 22 | 7 | 3.6 | 14.5 | 196 (20) | 6 | 1,000 | 11.9 |
| 020600 | DR-24-B0.5 | 24 | 7 | 0.5 | 8 | 196 (20) | 6 | 1,000 | 10.4 |
| 020608 | DR-24-B3-10.5 | 24 | 7 | 3 | 10.5 | 196 (20) | 6 | 1,000 | 11.7 |
| 020702 | DR-26-B0.5-4.5 | 26 | 7 | 0.5 | 4.5 | 196 (20) | 6 | 1,000 | 9.7 |
| 020700 | DR-26-B0.5 | 26 | 7 | 0.5 | 8 | 196 (20) | 6 | 1,000 | 10.1 |
| 020720 | DR-26-B3-10.5 | 26 | 7 | 3 | 10.5 | 196 (20) | 6 | 800 | 10.7 |
| 020719 | DR-26-B3.6-12.4 | 26 | 7 | 3.6 | 12.4 | 196 (20) | 6 | 800 | 11.3 |
| 020714 | DR-26-B5-11 | 26 | 7 | 5 | 11 | 196 (20) | 6 | 800 | 8.8 |
| 020800 | DR-28-B0.5 | 28 | 7 | 0.5 | 8 | 196 (20) | 6 | 500 | 6.7 |
| 020803 | DR-28-B2-15 | 28 | 7 | 2 | 15 | 196 (20) | 6 | 500 | 6.7 |
| 020805 | DR-28-B3-10.5 | 28 | 7 | 3 | 10.5 | 196 (20) | 6 | 500 | 6.9 |
| 021000 | DR-30-B0.5 | 30 | 7 | 0.5 | 8 | 196 (20) | 6 | 500 | 6.8 |
| 021005 | DR-30-B3-10.5 | 30 | 7 | 3 | 10.5 | 196 (20) | 6 | 500 | 7.6 |
| 021004 | DR-30-B3.6-12.4 | 30 | 7 | 3.6 | 12.4 | 196 (20) | 6 | 500 | 12.5 |

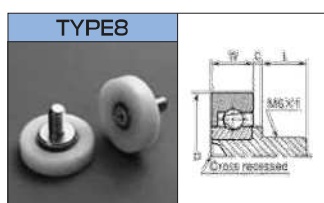
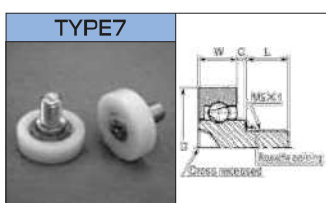
*1 Allowable Load at 300min⁻¹ (300r.p.m.)

Size limits can be modified for practical applications. Please contact our sales/engineering departments for further information and assistance.

D-SERIES BEARINGS

DR-B

DR-B



| Code | Part No. | D _{-0.1} [mm] | W _{-0.2} [mm] | C ^{±0.4} [mm] | L ^{±0.5} [mm] | Load ^{*1} [N] (kgf) | Type | Q'ty [pcs/box] | Gross Weight [kg/box] |
|--------|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------------|------|-------------------|--------------------------|
| 020205 | DR-19-B1-5.5 | 19 | 6 | 1 | 5.5 | 49 (5) | 7 | 2,000 | 11.5 |
| 020204 | DR-19-B1 | 19 | 6 | 1 | 8 | 49 (5) | 7 | 2,000 | 13.5 |
| 020210 | DR-19-B2-4.5 | 19 | 6 | 2 | 4.5 | 49 (5) | 7 | 2,000 | 12.1 |
| 020209 | DR-19-B2 | 19 | 6 | 2 | 8 | 49 (5) | 7 | 2,000 | 14.0 |
| 020211 | DR-19-B2.7 | 19 | 6 | 2.7 | 8 | 49 (5) | 7 | 1,500 | 10.2 |
| 020214 | DR-19-B3 | 19 | 6 | 3 | 8 | 49 (5) | 7 | 1,500 | 10.7 |
| 020406 | DR-22-B1 | 22 | 7 | 1 | 8 | 196 (20) | 7 | 1,000 | 9.0 |
| 020411 | DR-22-B2-5.5 | 22 | 7 | 2 | 5.5 | 196 (20) | 7 | 1,000 | 9.3 |
| 020409 | DR-22-B2 | 22 | 7 | 2 | 8 | 196 (20) | 7 | 1,000 | 10.3 |
| 020413 | DR-22-B3 | 22 | 7 | 3 | 8 | 196 (20) | 7 | 1,000 | 11.3 |
| 020418 | DR-22-B4-4.5 | 22 | 7 | 4 | 4.5 | 196 (20) | 7 | 1,000 | 10.3 |
| 020416 | DR-22-B4 | 22 | 7 | 4 | 8 | 196 (20) | 7 | 1,000 | 11.7 |
| 020420 | DR-22-B5 | 22 | 7 | 5 | 8 | 196 (20) | 7 | 1,000 | 12.3 |
| 020422 | DR-22-B6 | 22 | 7 | 6 | 8 | 196 (20) | 7 | 1,000 | 12.8 |
| 020602 | DR-24-B2 | 24 | 7 | 2 | 8 | 196 (20) | 7 | 1,000 | 11.4 |
| 020604 | DR-24-B3 | 24 | 7 | 3 | 8 | 196 (20) | 7 | 1,000 | 11.7 |
| 020605 | DR-24-B4 | 24 | 7 | 4 | 8 | 196 (20) | 7 | 1,000 | 12.4 |
| 020606 | DR-24-B5 | 24 | 7 | 5 | 8 | 196 (20) | 7 | 1,000 | 12.5 |
| 020607 | DR-24-B6 | 24 | 7 | 6 | 8 | 196 (20) | 7 | 1,000 | 13.3 |
| 020705 | DR-26-B2 | 26 | 7 | 2 | 8 | 196 (20) | 7 | 800 | 9.2 |
| 020707 | DR-26-B3 | 26 | 7 | 3 | 8 | 196 (20) | 7 | 800 | 9.7 |
| 020710 | DR-26-B4 | 26 | 7 | 4 | 8 | 196 (20) | 7 | 800 | 10.1 |
| 020716 | DR-26-B6-6 | 26 | 7 | 6 | 6 | 196 (20) | 7 | 800 | 10.7 |
| 020715 | DR-26-B6 | 26 | 7 | 6 | 8 | 196 (20) | 7 | 800 | 11.1 |
| 020801 | DR-28-B2 | 28 | 7 | 2 | 8 | 196 (20) | 7 | 500 | 6.7 |
| 021002 | DR-30-B3 | 30 | 7 | 3 | 8 | 196 (20) | 7 | 500 | 11.3 |
| 020429 | DR-22-BH2-11 | 22 | 7 | 2 | 11 | 196 (20) | 8 | 1,000 | 12.3 |
| 020430 | DR-22-BH3-11 | 22 | 7 | 3 | 11 | 196 (20) | 8 | 1,000 | 11.4 |
| 020722 | DR-26-BH2-11 | 26 | 7 | 2 | 11 | 196 (20) | 8 | 800 | 10.6 |
| 020804 | DR-28-BH2-11 | 28 | 7 | 2 | 11 | 196 (20) | 8 | 500 | 6.9 |

*1 Allowable Load at 300min -1 (300r.p.m.)

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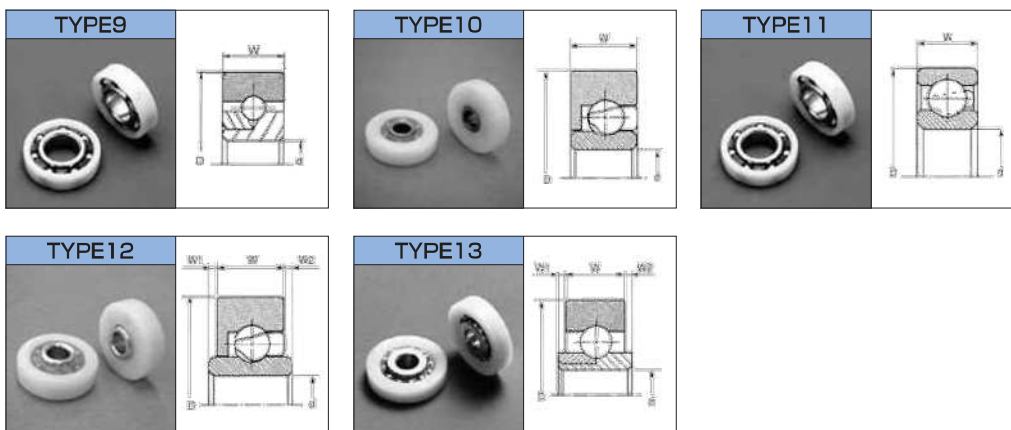
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D-SERIES BEARINGS

DR-H

DR-H



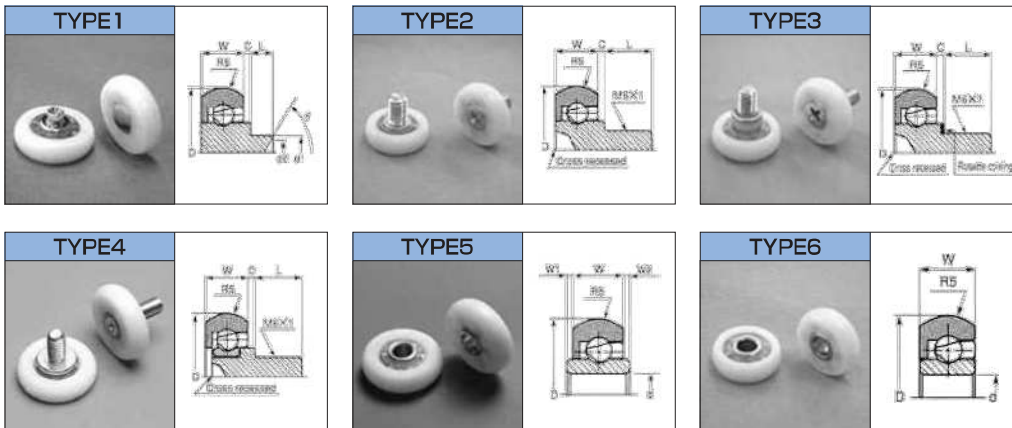
| Code | Part No. | D _{-0.1} [mm] | d ^{+3.1} ₀ [mm] | W _{-0.2} [mm] | W1*1 [mm] | W2*1 [mm] | Load*2 [N] (kgf) | Type | Q'ty [pcs/box] | Gross Weight [kg/box] |
|--------|-------------------|---------------------------|--|---------------------------|--------------|--------------|---------------------|------|-------------------|--------------------------|
| 040012 | DRS-9-H2.5 | 9 ^{-0.05} | 2.5 ^{+0.05} | 3 ^{±0.1} | — | — | 9.8 (1) | 9 | 10,000 | — |
| 040013 | DRS-12-H3 | 12 ^{-0.05} | 3 ^{+0.05} | 4 ^{±0.1} | — | — | 9.8 (1) | 9 | 10,000 | — |
| 040100 | DR-18-H6 | 18 | 6 | 6 | — | — | 49 (5) | 10 | 2,500 | 7.6 |
| 040202 | DR-19-H5 | 19 | 5 | 6 | — | — | 49 (5) | 10 | 2,500 | 8.9 |
| 040205 | DR-19-H6 | 19 | 6 | 6 | — | — | 49 (5) | 10 | 2,500 | 8.1 |
| 040301 | DR-20-H8 | 20 | 8 | 6 ^{±0.1} | — | — | 29.4 (3) | 10 | 1,500 | 6.1 |
| 040401 | DR-22-H6 | 22 | 6 | 7 | — | — | 196 (20) | 10 | 1,500 | 9.5 |
| 040412 | DR-22-H8 | 22 | 8 | 7 | — | — | 49 (5) | 10 | 1,500 | 8.2 |
| 040600 | DR-24-H6 | 24 | 6 | 7 | — | — | 196 (20) | 10 | 1,000 | 7.1 |
| 040602 | DR-24-H10.5 | 24 | 10.5 | 7 | — | — | 49 (5) | 10 | 1,000 | 11.5 |
| 040701 | DR-26-H6 | 26 | 6 | 7 | — | — | 196 (20) | 10 | 1,000 | 7.8 |
| 041600 | DR-26-H10 | 26 | 10 | 8 | — | — | 196 (20) | 10 | 1,000 | 7.9 |
| 040800 | DR-28-H6 | 28 | 6 | 7 | — | — | 196 (20) | 10 | 500 | 4.2 |
| 041000 | DR-30-H6 | 30 | 6 | 7 | — | — | 196 (20) | 10 | 500 | 5.6 |
| 041610 | DR-30-H10-9 | 30 | 10 | 9 | — | — | 245 (25) | 10 | 500 | 7.7 |
| 041005 | DR-30-H10-8 | 30 | 10 | 8 ^{±0.1} | — | — | 245 (25) | 10 | 500 | 6.7 |
| 041612 | DR-32-H12 | 32 | 12 | 10 | — | — | 294 (30) | 10 | 500 | 9.6 |
| 041100 | DR-35-H6 | 35 | 6 | 7 | — | — | 196 (20) | 10 | 500 | 5.7 |
| 041614 | DR-35-H15 | 35 | 15 | 11 ^{+0.2} | — | — | 294 (30) | 10 | 400 | 10.6 |
| 041151 | DR-38-H10 | 38 | 10 | 8 ^{±0.2} | — | — | 196 (20) | 10 | 500 | 6.1 |
| 041200 | DR-40-H6 | 40 ^{-0.2} | 6 | 8 | — | — | 196 (20) | 10 | 400 | 5.4 |
| 041616 | DR-40-H17 | 40 | 17 | 12 ^{±0.2} | — | — | 294 (30) | 10 | 250 | 6.9 |
| 041618 | DR-47-H20 | 47 | 20 | 14 | — | — | 343 (35) | 10 | 150 | 8.7 |
| 040102 | DR-18-H8 | 18 | 8 | 5 | — | — | 49 (5) | 11 | 3,000 | 8.7 |
| 040007 | DR-16-H4.1W0.25 | 16 | 4.1 | 4 | 0.25 | 0.25 | 19.6 (2) | 12 | 4,000 | 9.6 |
| 040200 | DR-19-H4W (1.3) 3 | 19 | 4 | 6 | 1.3 | 3 | 49 (5) | 12 | 1,500 | 8.2 |
| 040204 | DR-19-H5W (0) 2.3 | 19 | 5 | 6 | 0 | 2.3 | 49 (5) | 12 | 2,000 | 8.6 |
| 040400 | DR-22-H4W (0.5) 3 | 22 | 4 | 7 | 0.5 | 3 | 196 (20) | 12 | 1,000 | 8.3 |
| 040415 | DR-22-H6W1 | 22 | 6 | 7 | 1 | 1 | 196 (20) | 12 | 1,000 | 6.6 |
| 040601 | DR-24-H6W1 | 24 | 6 | 7 | 1 | 1 | 196 (20) | 12 | 1,000 | 7.3 |
| 040700 | DR-26-H4W (0.5) 3 | 26 | 4 | 7 | 0.5 | 3 | 196 (20) | 12 | 1,000 | 9.7 |
| 040704 | DR-26-H6W1 | 26 | 6 | 7 | 1 | 1 | 196 (20) | 12 | 1,000 | 8.8 |
| 040802 | DR-28-H6W1 | 28 | 6 | 7 | 1 | 1 | 196 (20) | 12 | 500 | 4.5 |
| 041003 | DR-30-H6W1 | 30 | 6 | 7 | 1 | 1 | 196 (20) | 12 | 500 | 6.4 |
| 041101 | DR-35-H6W1 | 35 | 6 | 7 | 1 | 1 | 196 (20) | 12 | 500 | 6.8 |
| 041201 | DR-40-H6W0.5 | 40 ^{-0.2} | 6 | 8 | 0.5 | 0.5 | 196 (20) | 12 | 400 | 5.5 |
| 041300 | DR-47-H8W (0) 9 | 47 | 8 | 14 | 0 | 9 | 196 (20) | 12 | 100 | 3.5 |
| 040005 | DRS-16-H4.1W0.25 | 16 | 4.1 | 3.5 ^{+0.2} | 0.25 | 0.25 | 49 (5) | 13 | 5,000 | 11.0 |

*1 Reference Dimension *2 Allowable Load at 300min -1 (300r.p.m.)
 Size limits can be modified for practical applications. Please contact our sales/engineering departments for further information and assistance.

D-SERIES BEARINGS

DO

DO



| Code | Part No. | D _{-0.2} [mm] | d ^{+0.1} ₀ [mm] | d1 _{-0.1} [mm] | W _{-0.2} [mm] | C ^{±0.4} [mm] | L ^{±0.2} [mm] | (d2 × θ) ^{*1} | W1 ^{*1} [mm] | W2 ^{*1} [mm] | Load ^{*2} [N] (kgf) | Type | Q'ty [pcs/box] | Gross Weight [kg/box] |
|--------|----------------|---------------------------|--|----------------------------|---------------------------|---------------------------|---------------------------|------------------------|--------------------------|--------------------------|---------------------------------|------|-------------------|--------------------------|
| 070010 | DO-19-A0.5 | 19 | — | 5 | 6 | 0.5 | 3.5 | φ4 × 120° | — | — | 29.4 (3) | 1 | 2,000 | 10.8 |
| 070020 | DO-22-A1 | 22 | — | 5 | 7 | 1 | 3.5 | φ4.4 × 90° | — | — | 78.4 (8) | 1 | 1,000 | 8.9 |
| 070021 | DO-22-A3 | 22 | — | 5 | 7 | 3 | 3.5 | φ4 × 90° | — | — | 78.4 (8) | 1 | 1,000 | 9.3 |
| 070030 | DO-24-A1 | 24 | — | 5 | 7 | 1 | 3.5 | φ4.4 × 90° | — | — | 78.4 (8) | 1 | 1,000 | 9.8 |
| 070040 | DO-26-A1 | 26 | — | 5 | 7 | 1 | 3.5 | φ4.4 × 90° | — | — | 78.4 (8) | 1 | 1,000 | 10.3 |
| 071010 | DO-19-B0.5 | 19 | — | — | 6 | 0.5 | 8 ^{±0.5} | — | — | — | 49 (5) | 2 | 2,000 | 12.5 |
| 071012 | DO-19-B0.5-4.5 | 19 | — | — | 6 | 0.5 | 4.5 ^{±0.5} | — | — | — | 49 (5) | 2 | 2,000 | 10.3 |
| 071020 | DO-22-B0.5 | 22 | — | — | 7 | 0.5 | 8 ^{±0.5} | — | — | — | 196 (20) | 2 | 1,000 | 9.3 |
| 071026 | DO-22-B3-10.5 | 22 | — | — | 7 | 3 | 10.5 ^{±0.5} | — | — | — | 196 (20) | 2 | 1,000 | 10.4 |
| 071030 | DO-24-B0.5 | 24 | — | — | 7 | 0.5 | 8 ^{±0.5} | — | — | — | 196 (20) | 2 | 1,000 | 10.3 |
| 071040 | DO-26-B0.5 | 26 | — | — | 7 | 0.5 | 8 ^{±0.5} | — | — | — | 196 (20) | 2 | 1,000 | 10.7 |
| 071050 | DO-28-B0.5 | 28 | — | — | 7 | 0.5 | 8 ^{±0.5} | — | — | — | 196 (20) | 2 | 500 | 6.3 |
| 071023 | DO-22-B5 | 22 | — | — | 7 | 5 | 8 ^{±0.5} | — | — | — | 196 (20) | 3 | 1,000 | 11.2 |
| 071031 | DO-24-B2 | 24 | — | — | 7 | 2 | 8 ^{±0.5} | — | — | — | 196 (20) | 3 | 1,000 | 10.8 |
| 071032 | DO-24-B3 | 24 | — | — | 7 | 3 | 8 ^{±0.5} | — | — | — | 196 (20) | 3 | 1,000 | 11.8 |
| 071034 | DO-24-B4 | 24 | — | — | 7 | 4 | 8 ^{±0.5} | — | — | — | 196 (20) | 3 | 1,000 | 11.6 |
| 071060 | DO-30-B3 | 30 | — | — | 7 | 3 | 8 ^{±0.5} | — | — | — | 196 (20) | 3 | 500 | 6.4 |
| 071035 | DO-24-BH0.5 | 24 | — | — | 7 | 0.5 | 8 ^{±0.5} | — | — | — | 196 (20) | 4 | 1,000 | 8.8 |
| 071045 | DO-26-BH2-11 | 26 | — | — | 7 | 2 | 11 ^{±0.5} | — | — | — | 196 (20) | 4 | 800 | 10.1 |
| 072031 | DO-24-H6W1 | 24 | 6 | — | 7 | — | — | — | 1 | 1 | 196 (20) | 5 | 1,000 | 7.8 |
| 072043 | DO-26-H6W1 | 26 | 6 | — | 7 | — | — | — | 1 | 1 | 196 (20) | 5 | 1,000 | 8.5 |
| 072072 | DO-35-H6W1 | 35 | 6 | — | 7 | — | — | — | 1 | 1 | 196 (20) | 5 | 500 | 5.1 |
| 072080 | DO-40-H6W0.5 | 40 | 6 | — | 8 _{-0.3} | — | — | — | 0.5 | 0.5 | 196 (20) | 5 | 400 | 4.5 |
| 072000 | DO-18-H5 | 18 | 5 | — | 6 | — | — | — | — | — | 49 (5) | 6 | 2,500 | 8.1 |
| 072010 | DO-19-H5 | 19 | 5 | — | 6 | — | — | — | — | — | 49 (5) | 6 | 2,500 | 9.8 |
| 072020 | DO-22-H6 | 22 | 6 | — | 7 | — | — | — | — | — | 196 (20) | 6 | 1,500 | 8.9 |
| 072030 | DO-24-H6 | 24 | 6 | — | 7 | — | — | — | — | — | 196 (20) | 6 | 1,000 | 7.3 |
| 072040 | DO-26-H6 | 26 | 6 | — | 7 | — | — | — | — | — | 196 (20) | 6 | 1,000 | 8.0 |
| 072050 | DO-28-H6 | 28 | 6 | — | 7 | — | — | — | — | — | 196 (20) | 6 | 800 | 8.7 |
| 072060 | DO-29-H6 | 29 | 6 | — | 7 _{-0.1} | — | — | — | — | — | 196 (20) | 6 | 500 | 4.0 |

*1 Reference Dimension

*2 Allowable Load at 300min -1 (300r.p.m.)

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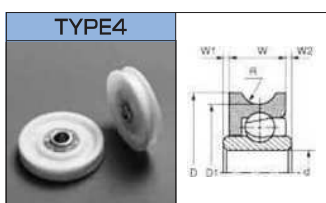
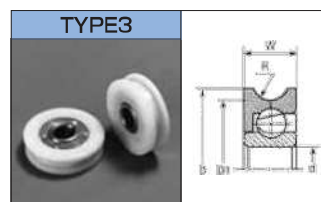
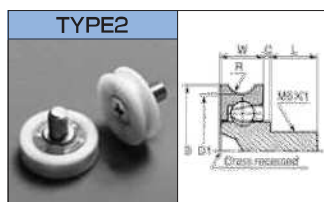
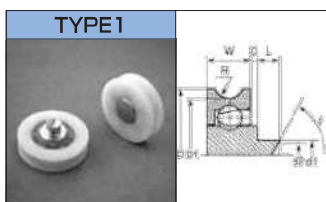
Product specification are subject to change without prior notice.

Before assembly or use of any bearing, please read "Caution for Use"

D-SERIES BEARINGS

DU

DU



| Code | Part No. | D ^{+0.2} [mm] | D1 ^{+0.1} [mm] | d ^{+0.1} [mm] | d1 ^{-0.1} [mm] | W ₂ [mm] | C ^{+0.4} [mm] | L ^{+0.2} [mm] | ^{*1} (d2 × θ) | W1 ^{*1} [mm] | W2 ^{*1} [mm] | R | Load ^{*2} [N] (kgf) | Type | Q'ty [pcs/box] | Gross Weight [kg/box] |
|--------|--------------|---------------------------|----------------------------|---------------------------|----------------------------|------------------------|---------------------------|---------------------------|---------------------------|--------------------------|--------------------------|------|---------------------------------|------|-------------------|--------------------------|
| 080010 | DU-19-A0.5 | 19 | 17 | — | 5 | 6 | 0.5 | 3.5 | φ4 × 120° | — | — | 1.75 | 29.4 (3) | 1 | 2,000 | 10.3 |
| 080020 | DU-22-A1 | 22 | 19.2 | — | 5 | 7 | 1 | 3.5 | φ4.4 × 90° | — | — | 2.5 | 58.8 (6) | 1 | 1,000 | 8.5 |
| 080030 | DU-24-A1 | 24 | 21.2 | — | 5 | 7 | 1 | 3.5 | φ4.4 × 90° | — | — | 2.5 | 58.8 (6) | 1 | 1,000 | 9.3 |
| 080040 | DU-26-A1 | 26 | 23.2 | — | 5 | 7 | 1 | 3.5 | φ4.4 × 90° | — | — | 2.5 | 58.8 (6) | 1 | 1,000 | 10.3 |
| 081010 | DU-19-B0.5 | 19 | 17 | — | — | 6 | 0.5 | 8 ^{±0.5} | — | — | — | 1.75 | 39.2 (4) | 2 | 2,000 | 12.4 |
| 081013 | DU-19-B2 | 19 | 17 | — | — | 6 | 2 | 8 ^{±0.5} | — | — | — | 1.75 | 39.2 (4) | 2 | 2,000 | 12.8 |
| 081020 | DU-22-B0.5 | 22 | 19.2 | — | — | 7 | 0.5 | 8 ^{±0.5} | — | — | — | 2.5 | 156 (16) | 2 | 1,000 | 9.8 |
| 081021 | DU-22-B6 | 22 | 19.2 | — | — | 7 | 6 | 8 ^{±0.5} | — | — | — | 2.5 | 156 (16) | 2 | 1,000 | 11.8 |
| 081030 | DU-24-B0.5 | 24 | 21.2 | — | — | 7 | 0.5 | 8 ^{±0.5} | — | — | — | 2.5 | 156 (16) | 2 | 1,000 | 10.5 |
| 081040 | DU-26-B0.5 | 26 | 23.2 | — | — | 7 | 0.5 | 8 ^{±0.5} | — | — | — | 2.5 | 156 (16) | 2 | 1,000 | 11.3 |
| 082010 | DU-19-H5 | 19 | 17 | 5 | — | 6 | — | — | — | — | — | 1.75 | 39.2 (4) | 3 | 2,500 | 9.8 |
| 082020 | DU-22-H6 | 22 | 19.2 | 6 | — | 7 | — | — | — | — | — | 2.5 | 156 (16) | 3 | 1,500 | 8.8 |
| 082060 | DU-24-H6 | 24 | 21.2 | 6 | — | 7 | — | — | — | — | — | 2.5 | 156 (16) | 3 | 1,000 | 6.7 |
| 082070 | DU-26-H6 | 26 | 23.2 | 6 | — | 7 | — | — | — | — | — | 2.5 | 156 (16) | 3 | 1,000 | 7.4 |
| 082100 | DU-30-H6-M | 30 | 25.7 | 6 | — | 7 ^{±0.2} | — | — | — | — | — | 2.5 | 156 (16) | 3 | 500 | 3.6 |
| 082101 | DU-30-H10 | 30 | 26 | 10 | — | 8 ^{±0.2} | — | — | — | — | — | 2.5 | 196 (20) | 3 | 500 | 6.1 |
| 082031 | DU-22-H6W0.5 | 22 | 19 | 6 | — | 7 | — | — | — | 0.5 | 0.5 | 2.5 | 156 (16) | 4 | 1,500 | 5.8 |
| 082028 | DU-22-H6W1 | 22 | 19.2 | 6 | — | 7 | — | — | — | 1 | 1 | 2.5 | 156 (16) | 4 | 1,000 | 6.2 |
| 082090 | DU-28-H6W1 | 28 | 24 | 6 | — | 7 | — | — | — | 1 | 1 | 2.5 | 156 (16) | 4 | 800 | 8.0 |
| 082103 | DU-30-H6W1 | 30 | 25.7 | 6 | — | 7 | — | — | — | 1 | 1 | 2.5 | 156 (16) | 4 | 500 | 6.1 |
| 082110 | DU-35-H6W1 | 35 | 31 | 6 | — | 7 | — | — | — | 1 | 1 | 2.5 | 156 (16) | 4 | 500 | 5.8 |
| 082120 | DU-40-H6W0.5 | 40 | 36 | 6 | — | 8 ^{±0.2} | — | — | — | 0.5 | 0.5 | 2.5 | 156 (16) | 4 | 400 | 5.4 |

*1 Reference Dimension

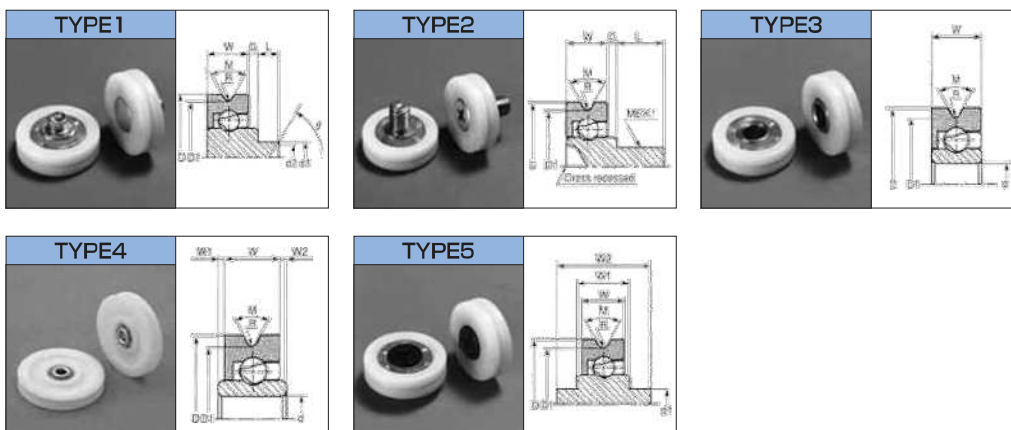
*2 Allowable Load at 300min -1 (300r.p.m.)

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D-SERIES BEARINGS

DV

DV



| Code | Part No. | D ^{+0.2} [mm] | D1 ^{±0.2} [mm] | d ^{+0.1} [mm] | d1 _{-0.1} [mm] | W _{-0.2} [mm] | C ^{+0.4} [mm] | L ^{+0.2} [mm] | (d2 × θ) ^{*1} | W1 ^{*1} [mm] | W2 ^{*1} [mm] | M [*] | R | Type | Q'ty [pcs/box] | Gross Weight [kg/box] |
|--------|-------------------|---------------------------|----------------------------|---------------------------|----------------------------|---------------------------|---------------------------|---------------------------|------------------------|--------------------------|--------------------------|----------------|------|------|-------------------|--------------------------|
| 090000 | DV-19-A0.5 | 19 | 17 | — | 5 | 6 | 0.5 | 3.5 | φ4 × 120° | — | — | 60 | 0.6 | 1 | 2,000 | 11.0 |
| 090100 | DV-22-A1 | 22 | 19 | — | 5 | 7 | 1 | 3.5 | φ4.4 × 90° | — | — | 60 | 0.6 | 1 | 1,000 | 9.2 |
| 090200 | DV-24-A1 | 24 | 21 | — | 5 | 7 | 1 | 3.5 | φ4.4 × 90° | — | — | 60 | 0.6 | 1 | 1,000 | 9.8 |
| 090300 | DV-26-A1 | 26 | 23 | — | 5 | 7 | 1 | 3.5 | φ4.4 × 90° | — | — | 60 | 0.6 | 1 | 1,000 | 10.6 |
| 090400 | DV-28-A1 | 28 | 24 | — | 5 | 7 | 1 | 3.5 | φ4.4 × 90° | — | — | (58) | 0.6 | 1 | 500 | 5.3 |
| 090500 | DV-30-A1 | 30 | 27 | — | 5 | 7 | 1 | 3.5 | φ4.4 × 90° | — | — | 60 | 0.6 | 1 | 500 | 6.5 |
| 090600 | DV-38-A0.5 | 38 | 35 | — | 5 | 8 ^{±0.2} | 0.5 | 3.5 | φ4.4 × 90° | — | — | 60 | 0.6 | 1 | 500 | 7.5 |
| 091000 | DV-19-B0.5 | 19 | 17 | — | — | 6 | 0.5 | 8 ^{±0.5} | — | — | — | 60 | 0.6 | 2 | 2,000 | 12.6 |
| 091100 | DV-22-B0.5 | 22 | 19 | — | — | 7 | 0.5 | 8 ^{±0.5} | — | — | — | 60 | 0.6 | 2 | 1,000 | 10.0 |
| 091200 | DV-24-B0.5 | 24 | 21 | — | — | 7 | 0.5 | 8 ^{±0.5} | — | — | — | 60 | 0.6 | 2 | 1,000 | 10.6 |
| 091201 | DV-24-B3 | 24 | 21 | — | — | 7 | 3 | 8 ^{±0.5} | — | — | — | 60 | 0.6 | 2 | 1,000 | 10.7 |
| 091300 | DV-26-B0.5 | 26 | 23 | — | — | 7 | 0.5 | 8 ^{±0.5} | — | — | — | 60 | 0.6 | 2 | 1,000 | 11.2 |
| 091500 | DV-30-B0.5-0.5R | 30 | 28 | — | — | 7 | 0.5 | 8 ^{±0.5} | — | — | — | 90 | 0.5 | 2 | 500 | 8.0 |
| 091501 | DV-32.5-B1.5-2R | 32.5 | 20.5 | — | — | 9.5 ^{±0.2} | 1.5 | 8 ^{±0.5} | — | — | — | 15 | 2 | 2 | 400 | 6.6 |
| 091600 | DV-38-B0.5 | 38 | 35 | — | — | 8 ^{±0.2} | 0.5 | 8 ^{±0.5} | — | — | — | 60 | 0.6 | 2 | 250 | 5.8 |
| 092001 | DV-19-H5 | 19 | 17 | 5 | — | 6 | — | — | — | — | — | 60 | 0.6 | 3 | 2,500 | 10.0 |
| 092100 | DV-22-H6-M | 22 | 19 | 6 | — | 7 | — | — | — | — | — | 60 | 0.6 | 3 | 1,500 | 9.7 |
| 092200 | DV-24-H6 | 24 | 21 | 6 | — | 7 | — | — | — | — | — | 60 | 0.6 | 3 | 1,000 | 7.4 |
| 092201 | DV-24-H8 | 24 | 20 ^{±1} | 8 | — | 7 | — | — | — | — | — | 30 | 0.6 | 3 | 1,000 | 5.6 |
| 092300 | DV-26-H6 | 26 | 23 | 6 | — | 7 | — | — | — | — | — | 60 | 0.6 | 3 | 1,000 | 8.0 |
| 092500 | DV-30-H6 | 30 | 27 | 6 | — | 7 | — | — | — | — | — | 60 | 0.6 | 3 | 500 | 6.8 |
| 092700 | DV-48-H6W0.4-1.6R | 48.3 | 35 | 6 | — | 8.2 ^{±0.2} | — | — | — | 0.4 | 0.4 | 30 | 1.6 | 4 | 250 | 4.1 |
| 090102 | DV-22-AW0.5-B | 22 _{-0.1} | 19 ^{±0.1} | — | 3 | 7 | — | — | — | 8 | 12 | 60 | 0.65 | 5 | 1,000 | 8.9 |

*1 Reference Dimension

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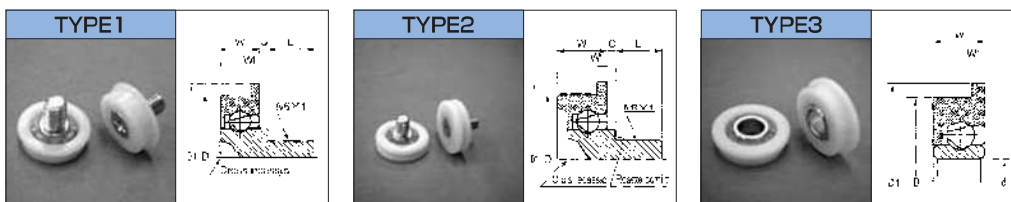
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D-SERIES BEARINGS

DF/DH

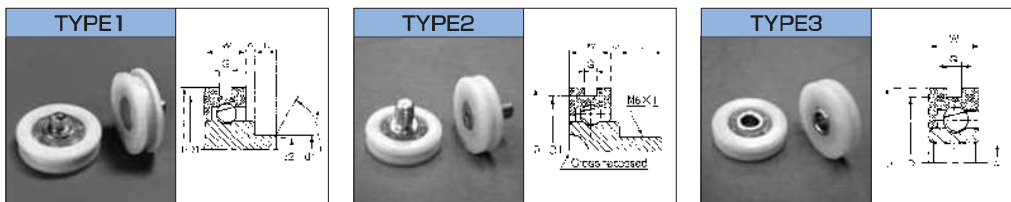
DF



| Code | Part No. | D _{-0.1} [mm] | D1 ^{±0.2} [mm] | d _{+0.1} ¹ [mm] | W _{-0.2} [mm] | W1 ^{±0.2} [mm] | C ^{±0.4} [mm] | L ^{±0.5} [mm] | Load *1 [N] (kgf) | Load *2 [N] (kgf) | Type | Q'ty [pcs/box] | Gross Weight [kg/box] |
|--------|-------------|---------------------------|----------------------------|--|---------------------------|----------------------------|---------------------------|---------------------------|----------------------|----------------------|------|-------------------|--------------------------|
| 061001 | DF-17-B0.5 | 17 | 19 | — | 6 | 1 | 0.5 | 8 | 49 (5) | — | 1 | 1,500 | 10.0 |
| 061020 | DF-22-B0.5 | 22 | 26 | — | 7 | 2 | 0.5 | 8 | 196 (20) | — | 1 | 1,000 | 9.4 |
| 061040 | DF-26-B1 | 26 ^{±0.2} | 32 | — | 11 ^{±0.2} | 3 | 1 | 8 | 196 (20) | — | 2 | 400 | 5.3 |
| 061043 | DF-26-B2 | 26 ^{±0.2} | 32 | — | 11 ^{±0.2} | 3 | 2 | 8 | 196 (20) | — | 2 | 400 | 5.8 |
| 062000 | DF-17-H6 | 17 | 19 ^{±0.1} | 6 | 6 | 1 ^{±0.1} | — | — | 49 (5) | 14.7 (1.5) | 3 | 3,000 | 9.5 |
| 062005 | DF-19-H6 | 19 | 22 | 6 | 7 | 1.5 | — | — | 147 (15) | 29.4 (3) | 3 | 1,500 | 7.7 |
| 062020 | DF-22-H6 | 22 | 26 | 6 | 7 | 2 | — | — | 196 (20) | 39.2 (4) | 3 | 1,500 | 9.5 |
| 062027 | DF-23-H10 | 23 | 24.75 | 10 | 8 ^{±0.2} | 1.5 ^{±0.1} | — | — | 98 (10) | 39.2 (4) | 3 | 1,000 | 7.2 |
| 062061 | DF-30-H10-3 | 30 | 34 | 10 | 8.5 ^{±0.2} | 3 | — | — | 245 (25) | 58.8 (6) | 3 | 500 | 7.0 |
| 062062 | DF-32-H12 | 32 | 36 | 12 | 10 | 3 | — | — | 245 (25) | 58.8 (6) | 3 | 400 | 7.5 |

*1 Allowable Load at 300rpm -1 rotation of outer-race *2 Allowable Load at 300rpm -1 rotation of inner-race
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DH



| Code | Part No. | D ^{±0.2} [mm] | D1 ^{±0.2} [mm] | d _{+0.1} ¹ [mm] | d1 _{-0.1} [mm] | W _{-0.2} [mm] | C ^{±0.4} [mm] | L ^{±0.2} [mm] | *1 (d2×θ) | G ^{±0.2} [mm] | Type | Q'ty [pcs/box] | Gross Weight [kg/box] |
|--------|--------------|---------------------------|----------------------------|--|----------------------------|---------------------------|---------------------------|---------------------------|--------------|---------------------------|------|-------------------|--------------------------|
| 100000 | DH-16-A0.5 | 19 | 16 | — | 5 | 6 | 0.5 | 3.5 | φ 4×120° | 2.1 | 1 | 2,000 | 10.9 |
| 101012 | DH-16-B0.5 | 19 | 16 | — | — | 6 | 0.5 | 8 ^{±0.5} | — | 2.1 | 2 | 2,000 | 12.5 |
| 101013 | DH-16-B1 | 19 | 16 | — | — | 6 | 1 | 8 ^{±0.5} | — | 2.1 | 2 | 2,000 | 11.8 |
| 101020 | DH-19-B0.5-2 | 22 | 19 | — | — | 7 | 0.5 | 8 ^{±0.5} | — | 2 | 2 | 1,000 | 9.9 |
| 101040 | DH-21-B0.5-2 | 24 | 21 | — | — | 7 | 0.5 | 8 ^{±0.5} | — | 2 | 2 | 1,000 | 10.5 |
| 102010 | DH-16-H5 | 19 | 16 | 5 | — | 6 | — | — | — | 2.1 | 3 | 2,000 | 9.9 |
| 102021 | DH-19-H6-2 | 22 | 19 | 6 | — | 7 | — | — | — | 2 | 3 | 1,000 | 9.6 |
| 102025 | DH-19-H6-2.5 | 22 | 19 | 6 | — | 7 | — | — | — | 2.5 | 3 | 1,500 | 8.4 |
| 102040 | DH-21-H6-2 | 24 | 21 | 6 | — | 7 | — | — | — | 2 | 3 | 1,000 | 7.3 |
| 102041 | DH-21-H6-3 | 24 | 21 | 6 | — | 7 | — | — | — | 3 | 3 | 1,000 | 6.5 |
| 102042 | DH-21-H6-3.2 | 24 | 21 | 6 | — | 7 | — | — | — | 3.2 | 3 | 1,000 | 6.2 |

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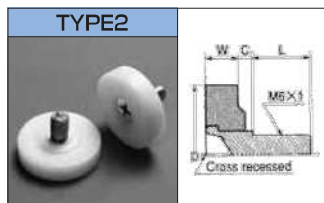
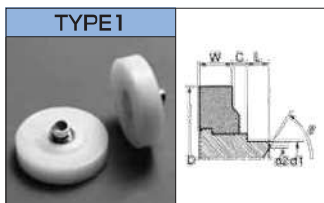
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 EMAIL : overseas@tok-bearing.co.jp

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D-SERIES ROLLERS

DL

DL



| Code | Part No. | D _{-0.1} [mm] | d1 _{-0.1} [mm] | W _{-0.2} [mm] | C ^{±0.4} [mm] | L ^{±0.2} [mm] | (d2×θ) ^{*1} | Type | Q'ty [pcs/box] | Gross Weight [kg/box] |
|--------|-----------------|---------------------------|----------------------------|---------------------------|---------------------------|---------------------------|----------------------|------|-------------------|--------------------------|
| 240012 | DL-16-A0.5 | 16 | 4 | 5 | 0.5 | 3.6 | nothing | 1 | 2,500 | 3.2 |
| 240021 | DL-19-A1.6 | 19 | 5 | 6.6 | 1.6 | 3.5 | φ4×100° | 1 | 2,000 | 10.4 |
| 240040 | DL-22-A1.6 | 22 | 5 | 6.6 | 1.6 ^{±0.5} | 3.5 | φ4×100° | 1 | 1,000 | 6.5 |
| 240080 | DL-26-A1.6 | 26 | 5 | 6.6 | 1.6 | 3.5 | φ4×100° | 1 | 1,000 | 7.5 |
| 240120 | DL-19-B1.6 | 19 | — | 6.6 | 1.6 | 8 ^{±0.5} | — | 2 | 1,500 | 9.0 |
| 240140 | DL-22-B1.6 | 22 | — | 6.6 | 1.6 | 8 ^{±0.5} | — | 2 | 1,000 | 7.4 |
| 240159 | DL-22-B2.6-7170 | 22 | — | 6.7 ^{±0.2} | 2.6 | 8 ^{±0.5} | — | 2 | 1,000 | 8.3 |
| 240145 | DL-22-B5 | 22 | — | 6.7 ^{±0.2} | 5 | 8 ^{±0.5} | — | 2 | 1,000 | 9.9 |
| 240152 | DL-22-B8.7 | 22 ^{±0.2} | — | 7 ^{±0.2} | 8.7 | 11 ^{±0.5} | — | 2 | 1,000 | 11.7 |
| 240180 | DL-26-B1.6 | 26 | — | 6.6 | 1.6 | 8 ^{±0.5} | — | 2 | 1,000 | 9.0 |

***1 Reference Dimension**

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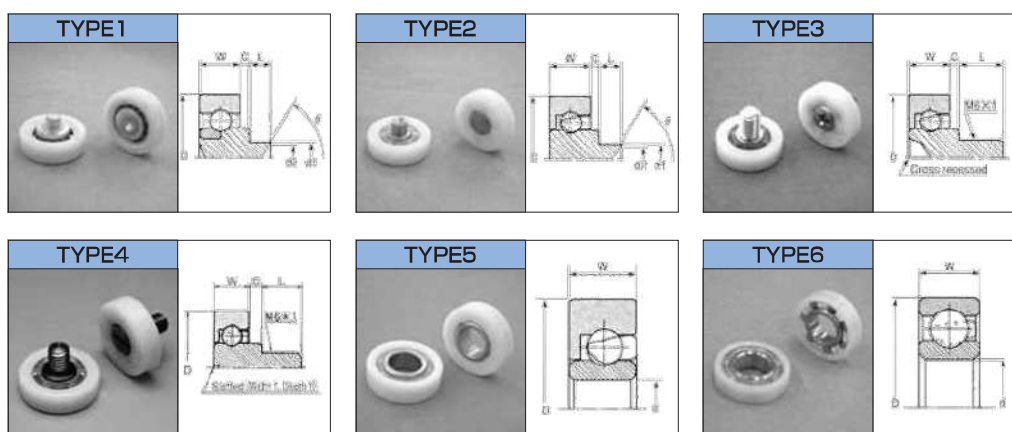
Before assembly or use of any bearing, please read "Caution for Use"

S-SERIES BEARINGS

DR-S

DR-S

The outer races are made of polyacetal resin and the inner races and balls are made of stainless steel.



| Code | Part No. | D _{-0.1} [mm] | d ^{+0.1} [mm] | d1 _{-0.1} [mm] | W _{-0.2} [mm] | C ^{±0.4} [mm] | L _{±0.2} [mm] | (d2 × θ) ^{*1} | Load ^{*2} [N] (kgf) | Type | Q'ty [pcs/box] | Gross Weight [kg/box] |
|--------|-----------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|---------------------------|------------------------|---------------------------------|------|-------------------|--------------------------|
| 000002 | DRS-16-SAS1-GN | 16 _{-0.3} | — | 4 | 5 ^{±0.2} | 1 | 3.5 | φ3 × 100° | — | 1 | 2,000 | 9.0 |
| 000202 | DR-19-SAS0.5-GN | 19 | — | 5 | 6 | 0.5 | 3.5 _{-0.2} | φ4 × 120° | — | 2 | 2,000 | 10.7 |
| 000421 | DR-22-SAS1 | 22 | — | 5 | 7 | 1 ^{±0.3} | 3.4 ^{±0.1} | φ4 × 90° | — | 2 | 1,000 | 9.0 |
| 020202 | DR-19-SBS0.5 | 19 | — | — | 6 | 0.5 | 8 ^{±0.5} | — | — | 3 | 2,000 | 12.5 |
| 020442 | DR-22-SBS0.5-GN | 22 | — | — | 7 | 0.5 | 8 ^{±0.5} | — | — | 4 | 1,000 | 9.8 |
| 020735 | DR-26-SBS0.5 | 26 | — | — | 7 | 0.5 | 8 ^{±0.5} | — | — | 4 | 1,000 | 10.1 |
| 021001 | DR-30-SBS0.5 | 30 | — | — | 7 | 0.5 ^{±0.3} | 8 ^{±0.5} | — | — | 4 | 500 | 6.8 |
| 021100 | DR-35-SBS0.5 | 35 | — | — | 7 | 0.5 ^{±0.3} | 8 ^{±0.5} | — | — | 4 | 300 | 4.0 |
| 040101 | DR-18-SHS6-GN | 18 | 6 | — | 6 | — | — | — | — | 5 | 2,500 | 7.8 |
| 040207 | DR-19-SHS6 | 19 | 6 | — | 6 | — | — | — | — | 5 | 2,500 | 8.1 |
| 040404 | DR-22-SHS6-GN | 22 | 6 | — | 7 | — | — | — | — | 5 | 1,000 | 7.0 |
| 040414 | DR-22-SHS8-GN | 22 | 8 | — | 7 | — | — | — | — | 5 | 1,000 | 5.3 |
| 040801 | DR-28-SHS6-GN | 28 | 6 | — | 7 | — | — | — | — | 5 | 500 | 4.2 |
| 041601 | DR-26-SHS10-GN | 26 | 10 | — | 8 | — | — | — | 98 (10) | 5 | 1,000 | 7.9 |
| 041611 | DR-30-SHS10-GN | 30 | 10 | — | 9 | — | — | — | 147 (15) | 5 | 500 | 7.7 |
| 041613 | DR-32-SHS12-GN | 32 | 12 | — | 10 | — | — | — | 176 (18) | 5 | 500 | 9.6 |
| 041615 | DR-35-SHS15-GN | 35 | 15 | — | 11 | — | — | — | 176 (18) | 5 | 400 | 10.6 |
| 041617 | DR-40-SHS17-GN | 40 | 17 | — | 12 | — | — | — | 205 (21) | 5 | 250 | 6.9 |
| 041619 | DR-47-SHS20-GN | 47 | 20 | — | 14 | — | — | — | 235 (24) | 5 | 150 | 8.7 |
| 040103 | DR-18-SHS8 | 18 | 8 | — | 5 | — | — | — | — | 6 | 3,000 | 8.7 |

*1 Reference Dimension

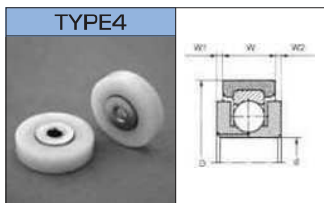
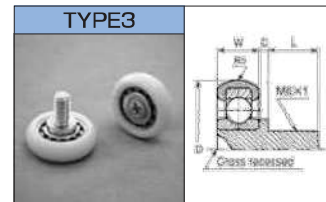
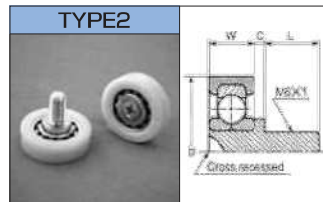
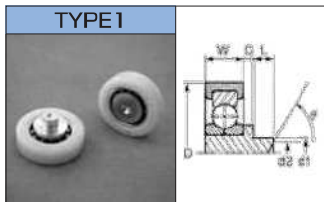
*2 Allowable Load at 300min -1 (300r.p.m.)

Size limits can be modified for practical applications. Please contact our sales/engineering departments for further information and assistance. These products are made to order.

I-SERIES BEARINGS

IDS

IDS



| Code | Part No. | D ^{±0.1} [mm] | d ^{+0.1} ₀ [mm] | d1 ⁰ _{-0.1} [mm] | W ^{±0.2} [mm] | C ^{±0.4} [mm] | L ^{±0.2} [mm] | ^{*1} (d2 × θ) | W1 ^{*1} [mm] | W2 ^{*1} [mm] | Load ^{*2} [N] (kgf) | Type | Q'ty [pcs/box] | Gross Weight [kg/box] |
|--------|-------------------|---------------------------|--|---|---------------------------|---------------------------|---------------------------|---------------------------|--------------------------|--------------------------|---------------------------------|------|-------------------|--------------------------|
| 221400 | IDS-22-A1 | 22 | — | 5 | 7 | 1 | 3.5 | φ2.5×90° | — | — | 392 (40) | 1 | 1,000 | 12.4 |
| 221401 | IDS-22-A2.5 | 22 | — | 5 | 7 | 2.5 | 3.5 | nothing | — | — | 392 (40) | 1 | 1,000 | 14.0 |
| 221403 | IDS-22-A3.4-4.5 | 22 | — | 5.1 | 7 | 3.4 | 4.5 | φ2.5×90° | — | — | 392 (40) | 1 | 1,000 | 13.4 |
| 221405 | IDS-22-A9-5 | 22 | — | 4.2 | 7 | 9 | 5 | nothing | — | — | 392 (40) | 1 | 1,000 | 15.2 |
| 221450 | IDS-26-A1.5 | 26 | — | 6 | 8 | 1.5 | 3.5 | φ5.5×90° | — | — | 588 (60) | 1 | 800 | 15.5 |
| 221504 | IDS-22-B1.5-8 | 22 | — | — | 7 | 1.5 | 8 ^{±0.5} | — | — | — | 392 (40) | 2 | 1,000 | 13.2 |
| 221501 | IDS-22-B1.5-11 | 22 | — | — | 7 | 1.5 | 11 ^{±0.5} | — | — | — | 392 (40) | 2 | 1,000 | 15.3 |
| 221505 | IDS-22-B4-7 | 22 | — | — | 7 | 4 | 7 ^{±0.5} | — | — | — | 392 (40) | 2 | 1,000 | 14.5 |
| 221518 | IDS-22-B11 | 22 | — | — | 7 | 11 | 8 ^{±0.5} | — | — | — | 392 (40) | 2 | 1,000 | 18.6 |
| 221600 | IDS-26-B2-11 | 26 | — | — | 8 | 2 | 11 ^{±0.5} | — | — | — | 588 (60) | 2 | 500 | 10.2 |
| 221603 | IDS-26-B5-9 | 26 | — | — | 8 | 5 ^{±0.5} | 9 ^{±0.5} | — | — | — | 588 (60) | 2 | 500 | 11.1 |
| 221650 | IDS-30-B2-11 | 30 | — | — | 9 | 2 | 11 ^{±0.5} | — | — | — | 588 (60) | 2 | 500 | 12.1 |
| 221700 | IDSO-26-B2-11 | 26 ^{-0.2} | — | — | 8 | 2 | 11 ^{±0.5} | — | — | — | 588 (60) | 3 | 500 | 10.2 |
| 221901 | IDS-26-H6.35W0.8 | 26 | 6.35 | — | 8 | — | — | — | 0.8 | 0.8 | 294 (30) | 4 | 800 | 16.3 |
| 221954 | IDS-35-H6.35W0.26 | 35 ^{-0.1} | 6.35 | — | 9 | — | — | — | 0.26 | 0.26 | 294 (30) | 4 | 500 | 13.3 |

*1 Reference Dimension

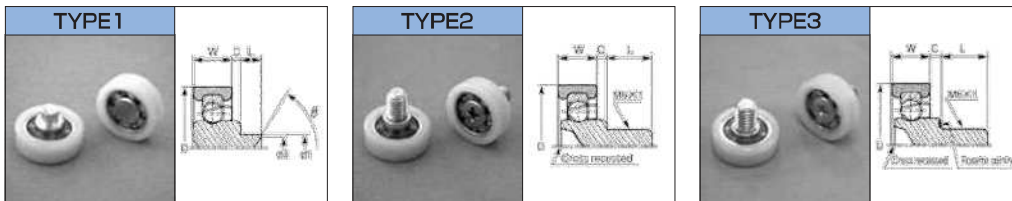
*2 Allowable Load at 300min -1 (300r.p.m.)

Size limits can be modified for practical applications. Please contact our sales/engineering departments for further information and assistance.

I-SERIES BEARINGS

IN/ID

IN



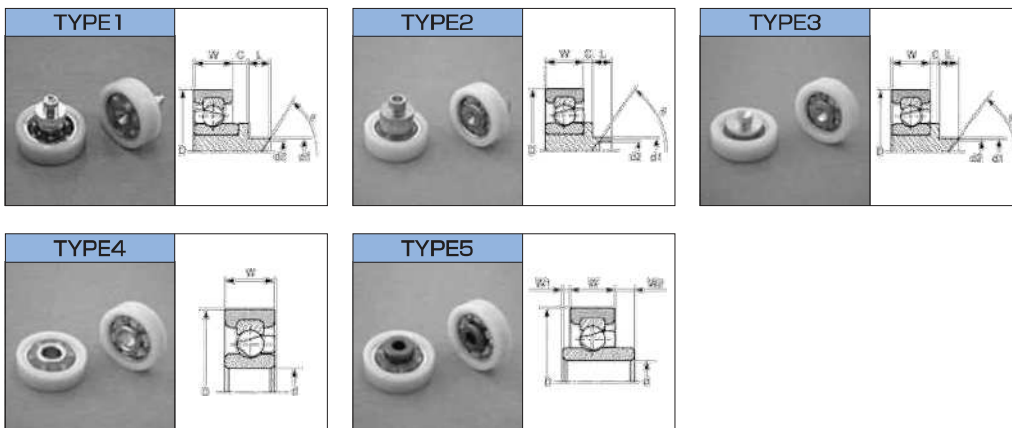
| Code | Part No. | D _{-0.3} [mm] | d1 _{-0.1} [mm] | W ^{±0.2} [mm] | C ^{±0.4} [mm] | L ^{±0.2} [mm] | (d2 × θ) ^{*1} | Load ^{*2} [N] (kgf) | Type | Q'ty [pcs/box] | Gross Weight [kg/box] |
|--------|------------|---------------------------|----------------------------|---------------------------|---------------------------|---------------------------|------------------------|---------------------------------|------|-------------------|--------------------------|
| 220000 | IN-19-A1.5 | 19 | 5 | 7 | 1.5 | 3.5 | φ4.4 × 120° | 49 (5) | 1 | 1,500 | 7.4 |
| 220011 | IN-19-B1 | 19 | — | 7 | 1 | 8 ^{±0.5} | — | 196 (20) | 2 | 1,500 | 12.2 |
| 220013 | IN-19-B2.7 | 19 | — | 7 | 2.7 | 8 ^{±0.5} | — | 196 (20) | 2 | 1,500 | 13.4 |
| 220014 | IN-19-B3 | 19 | — | 7 | 3 | 8 ^{±0.5} | — | 196 (20) | 2 | 1,500 | 13.5 |
| 220010 | IN-19-B0.5 | 19 | — | 7 | 0.5 | 8 ^{±0.5} | — | 196 (20) | 3 | 1,500 | 11.9 |
| 220012 | IN-19-B1.5 | 19 | — | 7 | 1.5 | 8 ^{±0.5} | — | 196 (20) | 3 | 1,500 | 12.5 |

*1 Reference Dimension

*2 Allowable Load at 300min -1 (300r.p.m.)

Size limits can be modified for practical applications. Please contact our sales/engineering departments for further information and assistance.

ID



| Code | Part No. | D _{-0.1} [mm] | d1 _{+0.1} [mm] | d1 _{-0.1} [mm] | W ^{±0.2} [mm] | C ^{±0.4} [mm] | L ^{±0.2} [mm] | (d2 × θ) ^{*1} | W1 ^{*1} [mm] | W2 ^{*1} [mm] | Load ^{*2} [N] (kgf) | Type | Q'ty [pcs/box] | Gross Weight [kg/box] |
|--------|-------------------|---------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|------------------------|--------------------------|--------------------------|---------------------------------|------|-------------------|--------------------------|
| 221101 | ID-18.8-AH5 | 18.8 | — | 4 | 7 | 5 | 3.5 | φ3 × 90° | — | — | 333 (35) | 1 | 1,500 | 13.0 |
| 221100 | ID-18.8-AH5-5 | 18.8 | — | 4 | 7 | 5 | 5 | φ3 × 90° | — | — | 333 (35) | 1 | 1,500 | 13.4 |
| 221102 | ID-19-AH2.5 | 19 _{-0.3} | — | 5 | 7 | 2.5 | 3.5 | φ3 × 120° | — | — | 333 (35) | 2 | 1,500 | 12.9 |
| 221103 | ID-19-AH5.5 | 19 _{-0.3} | — | 5 | 7 | 5.5 | 3.5 | φ3 × 120° | — | — | 333 (35) | 2 | 1,500 | 15.9 |
| 221110 | ID-24-AH1-3.6 | 24 ^{±0.2} | — | 6 | 8 | 1 | 3.6 | φ5.5 × 90° | — | — | 333 (35) | 3 | 1,000 | 12.3 |
| 221301 | ID-19-H6 | 19 _{-0.3} | 6 | — | 7 | — | — | — | — | — | 333 (35) | 4 | 2,000 | 10.5 |
| 221303 | ID-22-H6 | 22 | 6 | — | 7 | — | — | — | — | — | 333 (35) | 4 | 1,500 | 22.5 |
| 221304 | ID-22-H4W (0.5) 3 | 22 | 4 | — | 7 | — | — | — | 0.5 | 3 | 333 (35) | 5 | 1,000 | 10.2 |

*1 Reference Dimension

*2 Allowable Load at 300min -1 (300r.p.m.)

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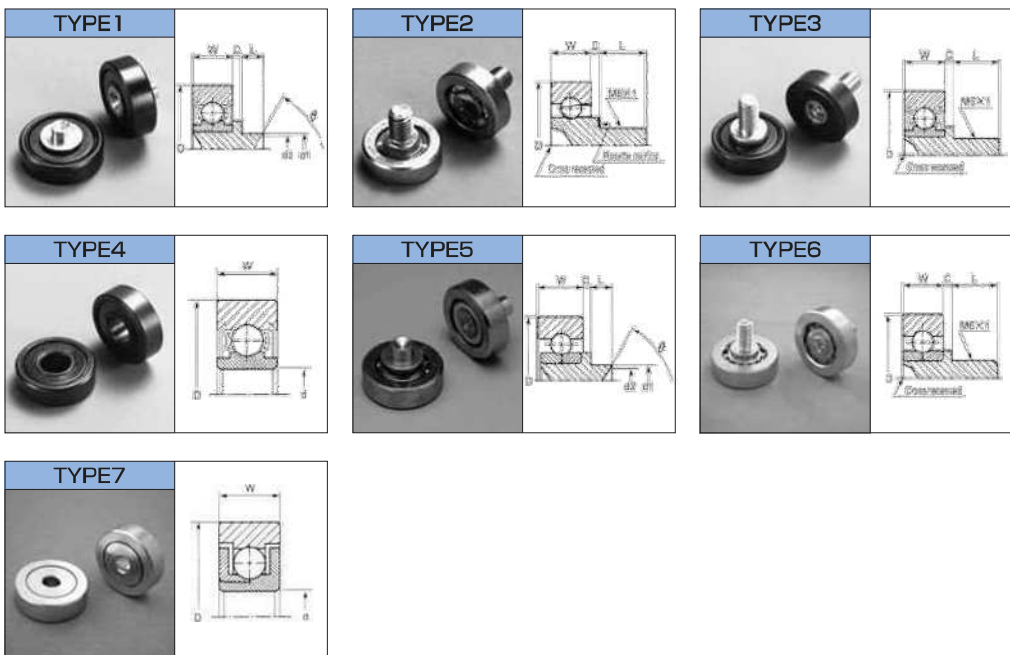
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HEAD OFFICE, TOKYO, JAPAN – TEL : 81-3-3969-1534 FAX : 81-3-3969-9354
EMAIL : overseas@tok-bearing.co.jp

Product specification are subject to change without prior notice.

Before assembly or use of any bearing, please read "Caution for Use"

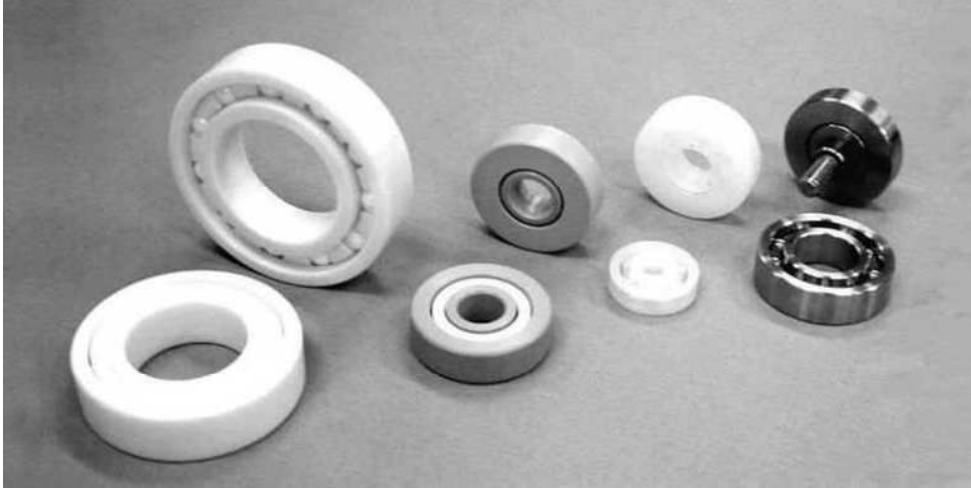
A-SERIES BEARINGS



| Code | Part No. | D ^{±0.1} [mm] | d ^{+0.1} ₀ [mm] | d1 ^{-0.1} [mm] | W ^{±0.2} [mm] | C ^{±0.4} [mm] | L ^{±0.2} [mm] | (d2 × θ) ^{*1} | Load ^{*2} [N] (kgf) | Type | Q'ty [pcs/box] | Gross Weight [kg/box] |
|--------|----------------|---------------------------|--|----------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------------|------|-------------------|--------------------------|
| 230050 | A-22-AH1-3.4 | 22 | — | 5 | 7 | 1 | 3.4 | φ4.5×110° | 784 (80) | 1 | 1,000 | 16.2 |
| 230203 | A-19-B1 | 19 | — | — | 6 | 1 | 8 ^{±0.5} | — | 490 (50) | 2 | 1,000 | 12.1 |
| 230204 | A-19-B2 | 19 | — | — | 6 | 2 | 8 ^{±0.5} | — | 490 (50) | 2 | 1,000 | 12.7 |
| 230207 | A-19-B2.7 | 19 | — | — | 6 | 2.7 | 8 ^{±0.5} | — | 490 (50) | 2 | 1,000 | 12.8 |
| 230251 | A-22-BH2.8-11 | 22 | — | — | 7 | 2.8 | 11 ^{±0.5} | — | 784 (80) | 3 | 1,000 | 18.0 |
| 800000 | A-608ZZ-5 | 22 | 8 | — | 7 | — | — | — | 784 (80) | 4 | 1,000 | 10.8 |
| 231010 | AS-19-A0.5-5 | 19 ^{±0.05} | — | 5 | 6 ^{±0.1} | 0.5 ^{±0.3} | 5 | φ4.5×100~130 ¹ | 490 (50) | 5 | 1,000 | 19.0 |
| 231050 | AS-22-A1.5 | 22 | — | 6 | 8 | 1.5 | 3.5 | φ5.5 × 90° | 686 (70) | 5 | 1,000 | 18.0 |
| 231052 | AS-22-A1.5-5.5 | 22 | — | 6 | 8 | 1.5 | 5.5 | φ5 × 110° | 686 (70) | 5 | 1,000 | 20.1 |
| 231150 | AS-26-A1.5 | 26 | — | 6 | 8 | 1.5 | 3.5 | φ5.5 × 90° | 686 (70) | 5 | 800 | 23.2 |
| 231203 | AS-22-B0.5-9.5 | 22 | — | — | 8 | 0.5 | 9.5 ^{±0.5} | — | 686 (70) | 6 | 1,000 | 19.9 |
| 231204 | AS-22-B2-11 | 22 | — | — | 8 | 2 | 11 ^{±0.5} | — | 686 (70) | 6 | 1,000 | 21.5 |
| 231250 | AS-24-B0.5-9.5 | 24 | — | — | 8 | 0.5 | 9.5 ^{±0.5} | — | 686 (70) | 6 | 500 | 12.3 |
| 231300 | AS-26-B2-11 | 26 | — | — | 8 | 2 | 11 ^{±0.5} | — | 686 (70) | 6 | 500 | 15.5 |
| 231402 | AS-608ZZ-2 | 22 | 8 | — | 7 | — | — | — | 294 (30) | 7 | 500 | 7.6 |
| 231405 | AS-26-H6 | 26 | 6 | — | 8 ^{±0.3} | — | — | — | 294 (30) | 7 | 800 | 27.8 |

*1 Reference Dimension *2 Allowable Load at 300min -1 (300r.p.m.)
 Size limits can be modified for practical applications. Please contact our sales/engineering departments for further information and assistance.

C/PK/PV/PE/S-SERIES BEARINGS



CORROSION AND CHEMICAL RESISTANT BEARINGS

PRIMARY USAGE IN THE MEDICAL AND SEMICONDUCTOR INDUSTRIES

Features

1. Excellent Chemical resistance (depending on environment)
2. Excellent Corrosion resistance (depending on environment)
3. Excellent Heat resistance (depending on environment)
4. Waterproof

Applications

Ideal for use in the medical and semiconductor industries where products are subject to harsh Chemicals and environments. Other applications would be in industries using high temperatures such as transportation and cleaning.

TOK BEARING CO.,LTD.

HEAD OFFICE, TOKYO, JAPAN – TEL : 81-3-3969-1534 FAX : 81-3-3969-9354
EMAIL : overseas@tok-bearing.co.jp

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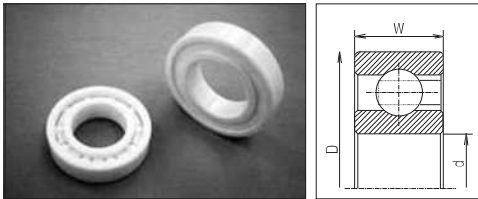
Before assembly or use of any bearing, please read "Caution for Use"

C-SERIES BEARINGS

CERAMIC

CHARACTERISTICS

Major characteristics of a ceramic bearing are: excellent corrosion and chemical resistance; self lubricating (absence of grease); and non-magnetic. Recommended environments include, but are not limited to: etching, cleaning, coating, medical, and testing equipment.



| Code | Part No. | JIS | D _{-0.02} [mm] | d ^{+0.002} [mm] | W _{-0.1} [mm] | Balls material | Outer and Inner races material | Retainer material |
|------|------------|------|----------------------------|-----------------------------|---------------------------|-------------------|-----------------------------------|-------------------|
| | C-26-CHC10 | 6000 | 26 | 10 | 8 | ZrO ₂ | ZrO ₂ | PTFE |
| | C-28-CHC12 | 6001 | 28 | 12 | 8 | ZrO ₂ | ZrO ₂ | PTFE |
| | C-30-CHC10 | 6200 | 30 | 10 | 9 | ZrO ₂ | ZrO ₂ | PTFE |
| | C-32-CHC12 | 6201 | 32 | 12 | 10 | ZrO ₂ | ZrO ₂ | PTFE |
| | C-32-CHC15 | 6002 | 32 | 15 | 9 | ZrO ₂ | ZrO ₂ | PTFE |
| | C-35-CHC15 | 6202 | 35 | 15 | 11 | ZrO ₂ | ZrO ₂ | PTFE |
| | C-35-CHC17 | 6003 | 35 | 17 | 10 | ZrO ₂ | ZrO ₂ | PTFE |
| | C-40-CHC17 | 6203 | 40 | 17 | 12 | ZrO ₂ | ZrO ₂ | PTFE |
| | C-42-CHC20 | 6004 | 42 | 20 | 12 | ZrO ₂ | ZrO ₂ | PTFE |
| | C-47-CHC20 | 6204 | 47 | 20 | 14 | ZrO ₂ | ZrO ₂ | PTFE |
| | C-47-CHC25 | 6005 | 47 | 25 | 12 | ZrO ₂ | ZrO ₂ | PTFE |
| | C-52-CHC25 | 6205 | 52 | 25 | 15 | ZrO ₂ | ZrO ₂ | PTFE |
| | C-55-CHC30 | 6006 | 55 | 30 | 13 | ZrO ₂ | ZrO ₂ | PTFE |
| | C-62-CHC30 | 6206 | 62 | 30 | 16 | ZrO ₂ | ZrO ₂ | PTFE |
| | C-62-CHC35 | 6007 | 62 | 35 | 14 | ZrO ₂ | ZrO ₂ | PTFE |
| | C-68-CHC40 | 6008 | 68 | 40 | 15 | ZrO ₂ | ZrO ₂ | PTFE |
| | C-72-CHC35 | 6207 | 72 | 35 | 17 | ZrO ₂ | ZrO ₂ | PTFE |
| | C-80-CHC40 | 6208 | 80 | 40 | 18 | ZrO ₂ | ZrO ₂ | PTFE |

Inner gap is under C4 (withIn 0.03mm)

Can be designed and produce in different sizes

Material: Ball and outer/inner races-Zirconia (ZrO₂); retainer — polytetrafluoroethylene (PTFE)

Guide to Corrosion Resistance

| Use liquid | Material | Si3N4 | ZrO ₂ | PTFE |
|---------------------|----------|-------|------------------|------|
| Salt-Water | | ◎ | ◎ | ◎ |
| Potassium Hydroxide | | △ | △ | ◎ |
| Sodium Hydroxide | | △ | ○ | ◎ |
| Hydrofluoric acid | | △ | ▲ | ◎ |
| Phosphoric Acid | | ○ | ○ | ◎ |
| Sulphuric Acid | | ○ | ○ | ◎ |
| Hydrochloric Acid | | △ | ○ | ◎ |
| Nitric Acid | | ○ | ○ | ◎ |

◎ : anticorrosive
○ : hardly corrosive
△ : slight corrosive
▲ : possibility of corrosiveness

*Chemical and corrosion resistance will vary depending on chemical concentrations and temperatures.

(Guide to Corrosion resistance, is only a reference. For more information Please contact our sales and engineering departments for assistance)

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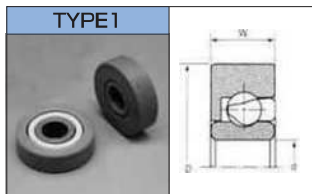
PK/PV-SERIES BEARINGS

PEEK/PVDF

PEEK/PVDF

CHEMICAL AND HEAT RESISTANCE BEARINGS:

PEEK/PVDF bearings have much better chemical and heat resistance than our conventional PE SERIES BEARINGS. These bearings are suitable for use in these environments: automated systems used in chemical processing; transportation systems used in chemical processing; washing and cleaning systems used in the medical and semiconductor industries where chemical solution and high heat are present.



| Code | Part No. | D _{-0.1} [mm] | d ^{+0.12} [mm] | W _{-0.2} [mm] | Balls material *1 | Outer and Inner races*2 material | Retainer material *3 |
|--------|-------------|---------------------------|----------------------------|---------------------------|----------------------|-------------------------------------|-------------------------|
| 801009 | PK-30-GHP10 | 30 | 10 | 9 | ガラス | PEEK | PTFE |
| — | PV-30-GHP10 | 30 | 10 | 9 | ガラス | PVDF | PTFE |
| — | PK-32-GHP12 | 32 | 12 | 10 | ガラス | PEEK | PTFE |
| — | PV-32-GHP12 | 32 | 12 | 10 | ガラス | PVDF | PTFE |
| — | PK-35-GHP15 | 35 | 15 | 11 | ガラス | PEEK | PTFE |
| — | PV-35-GHP15 | 35 | 15 | 11 | ガラス | PVDF | PTFE |

- *1 Ball Material: G=Glass. Ceramic balls can be used, please contact our sales/engineering department for more details.
- *2 Outer/Inner Race Material: PEEK=Polyetheretherketone; PVDF=Polyvinylidene fluoride.
- *3 Retainer Material: PTFE=Polytetrafluoroethylene.
- *4 Size limits can be modified for practical applications. Please contact our sales/engineering departments for further information and assistance.
These bearings are lubricant free and are made to order.

| Materials | Chemical Resistance Resin | | | | | Other Resin | | | |
|-----------------------------|---------------------------|-----------------------|------------------|------------------|----------------------------|-------------|-------------|--------|-------------|
| | P T F E | P C T F E | P V D F | P E E K | U H M W P E | P A | P O M | P P | P V C |
| Temperature Resistance [°C] | 130 | 80 | 80 | 130 | 60 | 70 | 50 | 50 | 35 |
| Mechanical | △ | ○ | ○ | ◎ | ○ | ○ | ◎ | ○ | ○ |
| Electrical | ◎ | ○ | ○ | ◎ | △ | △ | △ | ◎ | △ |
| Chemical proof | Acid | ◎ | ◎ | ○ | ○ | × | × | ○ | ○ |
| | Alkalis | ◎ | ◎ | ○ | ◎ | × | △ | ○ | ○ |
| | Solvents | ◎ | ○ | ○ | ◎ | △ | × | △ | △ |

Information provided is for reference only.
Materials only reflect standard characteristics provided by technical books and material supplier's catalogs.

- (Explanation of Codes)
- ◎ : GOODAcceptable—Visually free of any corrosive affect. Durable for field applications.
 - : FAIRLimited—Slight corrosion influence, but can be used for specific field applications in ambient conditions
 - △ : AVERAGEUnacceptable—Yielding and not applicable
 - × : IMPROPERNo rating—excessively corrodes and not usable

TOK BEARING CO.,LTD.

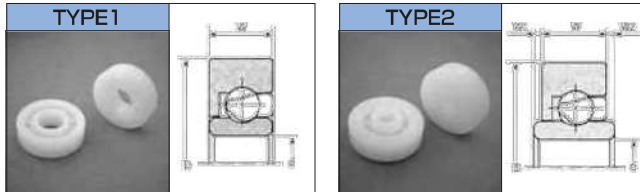
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EMAIL : cverseas@tok-bearing.co.jp

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PE-SERIES BEARINGS

PE

PE ULTRA-HIGH MOLECULAR WEIGHT POLYETHYLENE (ANTI-ACID/ANTI-ALKALI BEARINGS)



| Code | Part No. | D _{-0.1} [mm] | d ^{+0.12} ₀ [mm] | W _{-0.2} [mm] | W1 ^{*1} [mm] | W2 ^{*1} [mm] | Type | Q'ty [pcs/box] | Gross Weight [kg/box] | BALL ^{*2} |
|--------|------------------|---------------------------|---|---------------------------|--------------------------|--------------------------|------|-------------------|--------------------------|--------------------|
| 250126 | PE-35-SHP15 | 35 | 15 ^{+0.15} ₀ | 11 | — | — | 1 | 400 | 5.3 | S |
| 250010 | PE-35-SHP8W1.75 | 35 | 8 | 11 | 1.75 | 1.75 | 2 | 300 | 3.7 | S |
| 250017 | PE-35-SHP17W1.75 | 35 | 17 ^{+0.15} ₀ | 11 | 1.75 | 1.75 | 2 | 400 | 4.8 | S |
| 250100 | PE-26-PHP10 | 26 ^{-0.2} | 10 | 8 | — | — | 1 | 1,000 | 2.9 | P |
| 250121 | PE-30-PHP10 | 30 | 10 | 9 | — | — | 1 | 500 | 2.2 | P |
| 250124 | PE-32-PHP12 | 32 | 12 ^{+0.2} ₀ | 10 | — | — | 1 | 500 | 3 | P |
| 250127 | PE-35-PHP15 | 35 | 15 ^{+0.15} ₀ | 11 | — | — | 1 | 400 | 2.5 | P |
| 250132 | PE-47-PHP20 | 47 | 20 | 14 | — | — | 1 | 150 | 4 | P |
| 250011 | PE-35-PHP8W1.75 | 35 | 8 | 11 | 1.75 | 1.75 | 2 | 300 | 3.4 | P |
| 250122 | PE-30-GHP10 | 30 | 10 | 9 | — | — | 1 | 500 | 6 | G |
| 250131 | PE-40-GHP17 | 40 | 17 | 12 | — | — | 1 | 300 | 3.7 | G |
| 250012 | PE-35-GHP8W1.75 | 35 | 8 | 11 | 1.75 | 1.75 | 2 | 300 | 3.1 | G |
| 250019 | PE-35-GHP17W1.75 | 35 | 17 ^{+0.15} ₀ | 11 | 1.75 | 1.75 | 2 | 400 | 3.5 | G |

- *1 Reference Dimension
- *2 Ball Material: S=Stainless Steel; P=Polyethylene; G=Glass. Outer/Inner Race Material: Ultra-high Molecular Weight Polyethylene.
- *3 Size limits can be modified for practical applications. Please contact our sales/engineering departments for further information and assistance. These bearings are lubricant free and are made to order.

DURABILITY OF PLASTICS IN A CHEMICAL ENVIRONMENT

Table No.1 : durability of plastics in a chemical environment

| | Polyacetal (POM) | Polyamid (PA) | Polyethylene (PE) | Polypropylene (PP) |
|---------------------|------------------|---------------|-------------------|--------------------|
| Liquid Ammonia | ○ | ○ | ○ | ○ |
| Calcium Hydroxide | ○ | ○ | ○ | ○ |
| Potassium Hydroxide | ○ | ○ | ○ | ○ |
| Sodium Hydroxide | 30% 30C | × | ○ | ○ |
| | 30% RT | ○ | ○ | ○ |
| | 10% RT | △ | ○ | ○ |
| Oxalic Acid | ○ | ○ | ○ | ○ |
| Acetic Acid | ○ | △ | ○ | ○ |
| Hydrochloric Acid | 50% RT | △ | ○ | ○ |
| | 38% RT | × | ○ | ○ |
| | 10% RT | ○ | ○ | ○ |
| Nitric Acid | RT Fuming RT | × | × | × |
| | 81% RT | × | △ | △ |
| | 10% RT | △ | ○ | ○ |
| | RT Fuming RT | × | × | × |
| Sulphuric Acid | 98% RT | × | △ | △ |
| | 10% RT | △ | ○ | ○ |
| | 25% RT | × | ○ | △ |
| Chromic Acid | × | × | ○ | △ |

Table No.1 denotes the durability of Polyacetal, Polyamide(nylon), Polyethylene, and Polypropylene, against acids and alkali solutions.

Table No.2 : durability of plastics against solvent, oil, gasses and sea water

| | Polyacetal (POM) | Polyamid (PA) | Polyethylene (PE) | Polypropylene (PP) |
|--------------------|------------------|---------------|-------------------|--------------------|
| Sea-Water | ○ | * | ○ | ○ |
| Sulfur Dioxide Gas | ○ | ○ | ○ | ○ |
| Carbonic Acid Gas | ○ | ○ | ○ | ○ |
| Ammonia | ○ | ○ | ○ | ○ |
| Petroleum | ○ | ○ | △ | ○ |
| Benzine | △ | ○ | △ | △ |
| Formaldehyde | ○ | △ | ○ | ○ |
| Ethyl Alcohol | ○ | ○ | ○ | ○ |
| Cresol | ○ | × | ○ | ○ |

Bearing used in sea water, must be corrosion resistance to sea water.

*polyamide resins water absorption ratios are too high to be considered for use as balls or races in a water or sea water environment.

(Explanation of Codes)

- : GOOD Acceptable—Visually free of any corrosive affect. Durable for field applications.
- : FAIR Limited—Slight corrosion influence, but can be used for specific field applications in ambient conditions.
- △ : AVERAGE Unacceptable—Yielding and not applicable
- × : IMPROPER No rating—easily corrodes and not usable
- RT : Room Temperature

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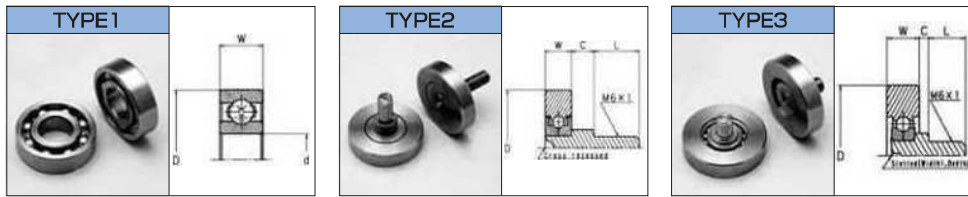
S-SERIES BEARINGS

SUS

SUS

(ALL STAINLESS STEEL BEARINGS)

These bearings are made of stainless steel.



| Code | Part No. | D ^{-0.03} [mm] | d ^{+0.05} [mm] | W ^{-0.05} [mm] | C ^{±0.4} [mm] | L ^{-0.5} [mm] | Outer races material | Inner races material | Shaft material | Retainer material | Balls material | Type |
|--------|-------------------|----------------------------|----------------------------|----------------------------|---------------------------|---------------------------|----------------------|----------------------|----------------|-------------------|----------------|------|
| 233002 | S-16-SHS8-304-GN | 16 | 8 | 4 | — | — | SUS304 | SUS304 | — | SUS304 | SUS304 | 1 |
| 233003 | S-22-SHS8-304-GN | 22 | 8 | 7 | — | — | SUS304 | SUS304 | — | SUS304 | SUS304 | 1 |
| 233007 | S-22-SHS10-304-GN | 22 | 10 | 5 | — | — | SUS304 | SUS304 | — | SUS304 | SUS304 | 1 |
| 233008 | S-24-SHS12-304-GN | 24 | 12 | 6 | — | — | SUS304 | SUS304 | — | SUS304 | SUS304 | 1 |
| 233009 | S-26-SHS9-304-GN | 26 | 9 | 8 | — | — | SUS304 | SUS304 | — | SUS304 | SUS304 | 1 |
| 233000 | S-28-SHS12-304-GN | 28 | 12 | 8 | — | — | SUS304 | SUS304 | — | SUS304 | SUS304 | 1 |
| 233001 | S-28-SHS15-304-GN | 28 | 15 | 7 | — | — | SUS304 | SUS304 | — | SUS304 | SUS304 | 1 |
| 233005 | S-30-SHS10-304-GN | 30 | 10 | 9 | — | — | SUS304 | SUS304 | — | SUS304 | SUS304 | 1 |
| 233004 | S-30-SHS17-304-GN | 30 | 17 | 7 | — | — | SUS304 | SUS304 | — | SUS304 | SUS304 | 1 |
| 233006 | S-32-SHS12-304-GN | 32 | 12 | 10 | — | — | SUS304 | SUS304 | — | SUS304 | SUS304 | 1 |
| 232050 | SS-22-SBS2 | 22 ^{-0.1} | — | 7 ^{±0.2} | 2 | 8 | SUS303 | SUS303 | SUS305 | — | SUS304 | 2 |
| 232055 | SS-30-SBS6-12 | 30 ^{±0.1} | — | 7 ^{-0.2} | 6 | 12 | SUS303 | SUS303 | SUS305 | — | SUS440C | 2 |
| 232060 | SS-30-SBS0.5 | 30 ^{-0.1} | — | 7 ^{-0.2} | 0.5 | 8 | SUS303 | SUS303 | SUS303 | — | SUS304 | 3 |

Size limits can be modified for practical applications. Please contact our sales/engineering departments for further information and assistance. These products are made to order.

CORROSION RESISTANCE OF STAINLESS STEEL

Table No.1—Corrosion resistance of stainless steel

| | SUS 304 | SUS 316 |
|---------------------------------------|---------|---------|
| Sea-Water | A* | A* |
| 20°C Sulfurous Acid (Saturation) 20°C | C | B |
| Liquid Ammonia | A | A |
| Boiling | A | A |
| 20°C | A | A |
| Ethyl Alcohol | A | A |
| Boiling | A | A |
| 20°C | A | A |
| Ammonia | D | — |
| Gas-High Temperature | D | — |
| Whole Density 20°C | A | A |
| Sodium Hydroxide | A | A |
| Oxalic Acid 10% 20°C | A | A |
| Acetic Acid 50% 20°C | A | A |
| Hydrochloric Acid Whole Density 20°C | E | E |
| Nitric Acid | B | B |
| 65% Boiling | B | B |
| 20% 20°C | A | A |
| 50% 20°C | D | C |
| Sulphuric Acid | E | C |
| 5% Boiling | E | C |
| 5% 20°C | C | B |

Stainless Steel has a high resistance to corrosion. However, it is not corrosion free and will corrode in certain environments and over time. Precautions should be taken when using the table and research should be used to determine whether or not Stainless Steel is suitable for your application.

(Explanation of Codes)

| | | |
|------|-------------------------------|--|
| code | Weight Reduction by Corrosion | |
| A | ≤ 0.1 | usable |
| B | 0.1~1.0 | usable |
| C | 1.0~3.0 | Slightly corroded |
| D | 3.0~10.0 | Gets corroded |
| E | ≥ 10.0 | Badly corroded |
| * | | Corrosion spots appear when dehydrated |

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BEARINGS

OTHERS

SPECIAL BEARINGS

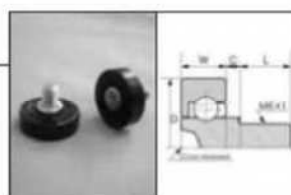
We can supply bearings for various applications.

ER NON-ELECTRIFICATION BEARING

Features: Electrification of static electricity is preventive by using conductive resins for the outer races and electric conduction grease.

| Code | Part No. | D | W | C ^{MIN} | L ^{MIN} |
|--------|------------|---------------------|--------------------|------------------|------------------|
| 720104 | ER-19-B0.5 | 19 ^{±0.01} | 6 ^{±0.01} | 0.5 | 8 |
| 720101 | ER-22-B2 | 22 ^{±0.01} | 7 ^{±0.01} | 2 | 8 |
| 720102 | ER-22-B6 | 22 ^{±0.01} | 7 ^{±0.01} | 6 | 8 |
| 720103 | ER-26-B0.5 | 26 ^{±0.01} | 7 ^{±0.01} | 0.5 | 8 |

① Size limits can be modified for practical applications. Please contact our sales/engineering departments for further information and assistance. These products are made to order.



Electric resistance value (reference) unit: kΩ

| sample | 1 | 2 | 3 | 4 | average |
|---------------------|-------|-------|-------|-------|---------|
| electric resistance | 174.8 | 221.8 | 221.5 | 131.3 | 187.4 |

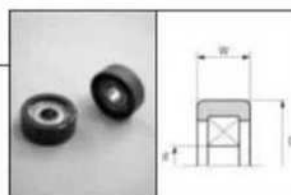
② An electrical resistance value of the bearing between outer race and inner race is measured after applying radial load (40N (3kg)), to the bearings for 30minutes.

UT SERIES BEARING

Features: 1. A JIS bearing which is insert-molded using polyurethane resins.
2. Because of the insert-molded polyurethane operational noise levels are very low.
3. Due to the polyurethane molding it is very difficult to damage the bearing.

| Code | Part No. | D _{OUT} | d | W ^{MIN} | Load (N) ① |
|--------|-------------|------------------|-----|------------------|------------|
| 110032 | UT-20-096ZZ | 20 | (6) | 8 | 29.4 |

① Allowable load at 300mm² (300-μm)
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BEARINGS

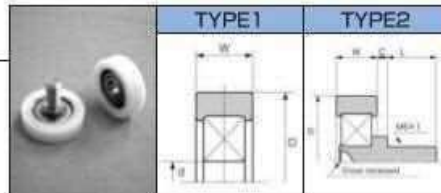
OTHERS

SPECIAL BEARINGS

We can supply bearings for various applications.

DT SERIES BEARING

- Features:
1. A steel bearing with an insert-molded polyacetal resin
 2. Run-out and clearance of the bearings are small.
 3. Because of the insert-molded polyacetal operational noise levels are very low.



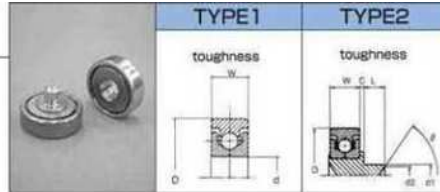
| Code | Part No. | D ^{mm} | d | W ^{mm} | C ^{mm} | L ^{mm} | TYPE |
|--------|--------------------|---------------------|-----|-----------------|-----------------|-----------------|------|
| I10070 | DT-22-88RZZ | 22 ^{±0.01} | (8) | 7.5 | — | — | 1 |
| I10056 | DT-26-H6-626ZZ | 26 | (6) | 8 | — | — | 1 |
| I10058 | DT-26-BH0.5-626ZZ | 26 | — | 8 | 0.5 | 8 | 2 |
| I10057 | DT-26-BH2.0-626ZZ | 26 | — | 8 | 2 | 9.5 | 2 |
| I10060 | DT-26-BH4-626ZZ | 26 | — | 8 | 4 | 8 | 2 |
| I10059 | DT-26-BH6-14-626ZZ | 26 | — | 8 | 6 | 14 | 2 |

±0.01mm limits can be modified for practical applications. Please contact our sales/engineering departments for further information and assistance. These products are made to order.

BEARINGS

DURABLE AND NON-DESTRUCTIVE BEARING (TOUGH)

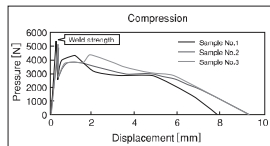
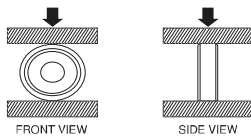
FEATURES: The "TAS" bearings are very durable and tough to destroy. New technology was used to increase its durable and shock resistance.



| Code | Part No. | D ^{+0.0} _{-0.0} (mm) | d ^{+0.0} _{-0.0} (mm) | d1 ^{+0.0} _{-0.0} (mm) | W ^{+0.0} _{-0.0} (mm) | C ^{+0.0} _{-0.0} | L ^{+0.0} _{-0.0} | (d2×θ) | Load [*] (N) (kgf) | TYPE |
|--------|--------------|--|--|---|--|-----------------------------------|-----------------------------------|---------|-----------------------------|------|
| 231502 | TAS-22-H8 | 22 | 8 | - | 7 | - | - | - | 392 (40) | 1 |
| 231501 | TAS-22-AH1-5 | 22 | - | 5 | 7 | 1 | 5 | φ3×100° | 392 (40) | 2 |

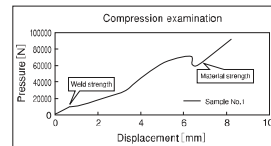
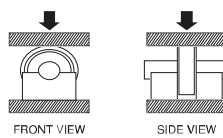
*Allowable load at 300r/min
Size limits can be modified for practical applications. Please contact our sales/engineering departments for further information and assistance.

1. Compression examination



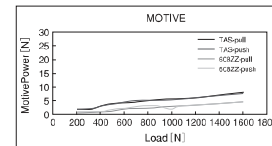
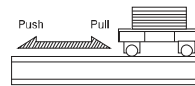
With a fixed outer wheel, the TAS bearing has a compression strength of about 1.5X the JIS bearing 608ZZ

2. Compression examination



When an inside fix is used, the TAS bearing has a compression strength of approximately 23X the JIS bearing 60877

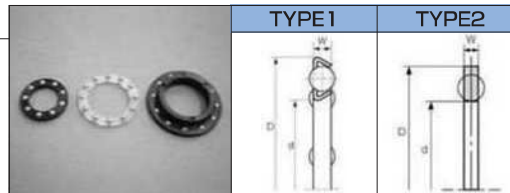
3. Motive power examination



In Motive power, the TAS bearing is equal to the JIS bearing 608ZZ

THRUST RETAINER

FEATURES : 1. This is simple Thrust bearing with a press-fit ball in the retainer.
2. Axial load can be applied in one direction.



| Code | Part No. | D | d | W | Retainer material | Balls material | Balls | TYPE |
|--------|------------------------------|----------------------|--------------------|---------------------|-------------------|----------------|----------|------|
| 800002 | T-22 Thrust Retainer | 21.4 ^{+0.2} | 13 ^{+0.1} | 2 ^{+0.1} | SUS304 | SU-2 | 1/8'×12 | 1 |
| 280300 | T-22.7 Nylon Thrust Retainer | 22.7 ^{+0.1} | 16 ^{+0.1} | 1.4 ^{+0.1} | PA66 | SU-2 | 3/32'×12 | 2 |

*Size limits can be modified for practical applications. Please contact our sales/engineering departments for further information and assistance.
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SLIDING DOOR WHEELS

UNIVERSAL TYPE-SLIDING DOOR WHEELS

APPLICATIONS: All types of sliding doors

FEATURES:

1. Clamps are not required in the assembly of the doors
2. Simple construction, high durability, and low cost
3. Free from corrosion, 100% plastic material

DURABILITY: The door wheels were tested under the following conditions:

- Forward and Reverse Force of 49N(kgf)
- Stroke of 500mm for 100,000 cycles

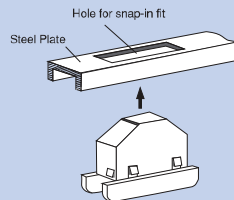
The result : the door wheels and door should still smoothly.

| Code | Part NO. | Frame material | Kind of roller |
|--------|-----------------------|-------------------|-------------------------|
| 260001 | TOK DOOR WHEEL No.3 A | Polyethylene (PE) | Roller (PA : Polyamide) |
| 260005 | TOK DOOR WHEEL No.3 B | Polyethylene (PE) | Bearing (DU-30-H6-M) |

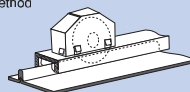


TOK DOOR WHEEL No.3 A (Roller type)

Sizes of Hole for snap-in fit
L×W×t=40.5×11×1.0 (or 0.8) mm

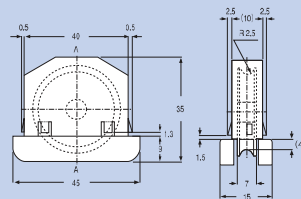


Fitting method



TOK DOOR WHEEL No.3 B (Bearing type)

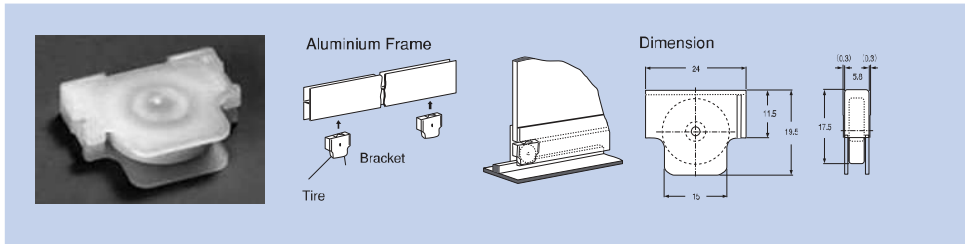
Dimension



SLIDING DOOR WHEELS

GLASS SLIDING DOOR WHEEL/ ROLLER SET SCREEN V

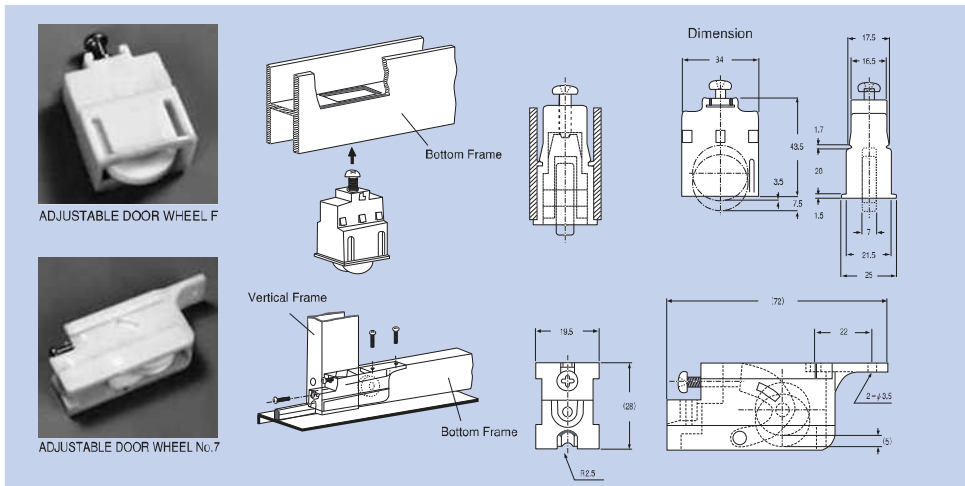
APPLICATIONS: For glass doors, such as display cases
 TYPES: Glass Sliding Door Wheel: Bearing (DRS-16-H4.1W0.25)
 Roller set screen V: Roller (POM: Polyacetal)



| Code | Part NO. | Frame material | Kind of roller |
|--------|---------------------|-------------------|----------------------------|
| 260000 | GLASS DOOR WHEEL | Polyethylene (PE) | Bearing (DRS-16-H4.1W0.25) |
| 260068 | ROLLER SET SCREEN V | Polyamide (PA) | Roller (POM : Polyacetal) |

UNIVERSAL TYPE SLIDING DOOR WHEELS WITH ADJUSTABLE HOUSING

APPLICATIONS: All types of sliding doors
 FEATURES: 1. Easy installation without clamps
 2. Free from corrosion, 100% plastic material
 3. Smooth sliding with D-SERIES BEARINGS
 MODELS: 2 types are available:
 • ADJUSTABLE DOOR WHEEL F
 • ADJUSTABLE DOOR WHEEL No.7



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K-SERIES BEARINGS



THE K-SERIES BEARING

1. The K-Series bearing can be provided with an assortment of materials and colors, depending on the applications. Along with acetal resins, other resins can be used based on lubricity, wear resistance, and weight reduction.
2. The K-Series bearing uses a lubricious plastic for its outer race, which enables integral molding of timing gears, pulleys, and etc; it is then press fitted along the periphery of the bearing.
3. The K-Series bearing is a specialty bearing and is designed per customer requirements and specifications.

BASIC SIZES

| Bore diameter [mm] | Basic outside diameter [mm] ^{*1} | Basic width [mm] |
|--------------------|---|------------------|
| 4 | 16 ≤ | 4 ≤ |
| 5 | 16 ≤ | 4 ≤ |
| 6 | 16 ≤ | 7 ≤ |
| 7 | 18 ≤ | 7 ≤ |
| 8 | 18.5 ≤ | 7 ≤ |
| 9 | 24 ≤ | 7 ≤ |
| 10 | 24 ≤ | 7 ≤ |

*1 Root diameter for gear.

APPLICATIONS

- Wire pulleys ● Tension pulleys ● Sprocket gears
- Timing gears ● Involute gears

DESIGN CONDITIONS TO BE PREARRANGED

- Maximum working load
- Maximum number of revolutions while running
- Applications (objectives, working mechanisms etc.)
- Environment

DESIGN EXAMPLE

