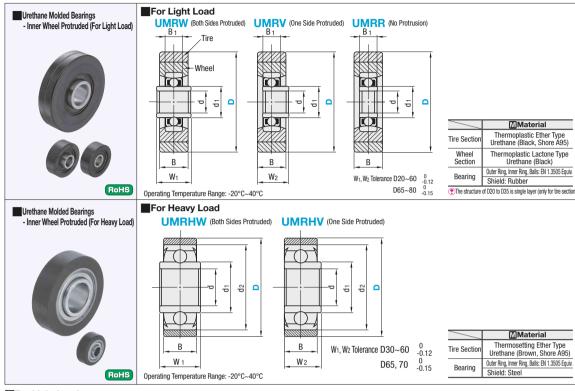
Urethane Molded Bearings

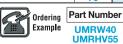
Inner Wheel Protruded



For Light Load

| Part Number | | d | d Tolerance | | d ₁ | В | B ₁ | W ₁ | | Allowable Load N | | | Unit Price | | | |
|---------------------------|----|----|-------------|--------|----------------|------|----------------|----------------|------|-------------------|------|------|------------|-------------|-------------|------|
| Туре | D | u | UMRW, UMRV | UMRR | uı | ь | ы | VV 1 | VV 2 | (Reference Value) | UMRW | UMRV | UMRR | UMRW | UMRV | UMRR |
| | 20 | 6 | 0 | | 8.6 | 8 | 5 | 11 | 9.5 | 55 | 7 | 6 | 5 | | | |
| | 25 | O | -0.02 | | 9.3 | 9 | 6 | 12 | 10.5 | 79 | 12 | 11 | 10 | | | |
| LINARDIA | 30 | 8 | 0 | | 12 | 11 | 7 | 15 | 13 | 108 | 21 | 19 | 17 | | | |
| UMRW (Dath Cides | 35 | 0 | -0.04 | | '2 | - 11 | ' | 13 | 13 | 147 | 24 | 22 | 20 | | | |
| (Both Sides Protruded) | 40 | 10 | - 0.04 | 0 | 14 | 12 | 8 | 16 | 14 | 196 | 34 | 32 | 30 | | | |
| , | 45 | 12 | | -0.008 | 18.3 | 14 | 10 | 18 | 16 | 245 | 60 | 55 | 50 | | | |
| UMRV | 50 | 12 | | -0.000 | (16.8) | 14 | 10 | 10 | 10 | 274 | 66 | 61 | 56 | | | |
| (One Side Protruded) | 55 | 15 | | | 21.6 | 15 | 11 | 19 | 17 | 314 | 82 | 76 | 70 | | | |
| LIMPD | 60 | 15 | +0.005 | | (20.0) | 15 | - 11 | 19 | 17 | 343 | 90 | 83 | 77 | | | |
| UMRR (No Protrusion) | 65 | 17 | -0.012 | | 24.6 | 16 | 12 | 20 | 18 | 392 | 120 | 112 | 104 | | | |
| (NO PIOUUSIOII) | 70 | 17 | | | (23.0) | 10 | 12 | 20 | 10 | 441 | 130 | 121 | 113 | | | |
| | 75 | 20 | | 0 | 29.3 | 18 | 14 | 22 | 20 | 510 | 188 | 175 | 164 | | | |
| | 80 | 20 | | -0.01 | (27.6) | 10 | 14 | 22 | 20 | 589 | 199 | 187 | 176 | | | |

| For Heavy Load ☼() of d1 dimension is applicable to UMRR. kgf=Nx0.101 | | | | | | | | | | | kgf=Nx0.1019 | | |
|--|----|----|-------------|----------------|----------------|----|----------------|----------------|-------------------|-------|--------------|------------|-------|
| Part Number | | d | d Tolerance | d ₁ | d ₂ | В | W ₁ | W ₂ | Allowable Load N | | | Unit Price | |
| Туре | D | u | u loierance | erance ui | u2 | В | VV 1 | VV2 | (Reference Value) | UMRHW | UMRHV | UMRHW | UMRHV |
| | 30 | 8 | | 12.0 | 22 | 11 | 15 | 13 | 303 | 24 | 23 | | |
| | 35 | 0 | 0 | 12.0 | | '' | 13 | 13 | 347 | 28 | 27 | | |
| UMRHW | 40 | 12 | -0.04 | 18.3 | 32 | 14 | 18 | 16 | 474 | 62 | 59 | | |
| (Both Sides Protruded) | 45 | 15 | -0.04 | 21.4 | 35 | 15 | 19 | 17 | 579 | 78 | 75 | | |
| (| 50 | 20 | | 25.1 | 37 | 16 | 20 | 18 | 660 | 84 | 82 | | |
| UMRHV | 55 | 20 | | 29.3 | 47 | 18 | 22 | 20 | 794 | 157 | 151 | | |
| (One Side Protruded) | 60 | 20 | +0.005 | 29.5 | 47 | 10 | 22 | 20 | 829 | 167 | 162 | | |
| | 65 | 25 | -0.012 | 33.8 | 52 | 19 | 23 | 21 | 918 | 199 | 191 | | |
| | 70 | 23 | | 33.0 | 32 | 19 | 23 | 21 | 1050 | 210 | 202 | | |



Features

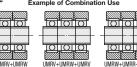
kgf=Nx0.101972

kaf=Nx0.101972

- · As the bearing inner rings protrude, there is no need to combine stepped
- As the bearing inner rings protrude, there is no need to combine stepped shafts or collars for mounting.
 The urethane section is of a tire and wheel layered construction (Except for D20 D35 are single layer). Economical small diameter shafts can be used even for large diameter rollers.
 The bearings used have special configuration to prevent the urethane from detaching.
 The bearings used have special configuration to prevent the urethane from detaching.
- · Though it excels in oil resistance, applying solvents may cause swelling and reduction in strength.

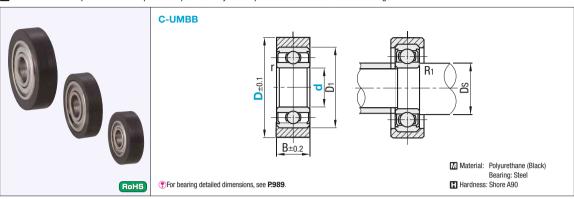


Example of Combination Use



Urethane Press-Fit Bearings

Features: Can be purchased at low price and quick delivery as compared to conventional Molded Bearings.

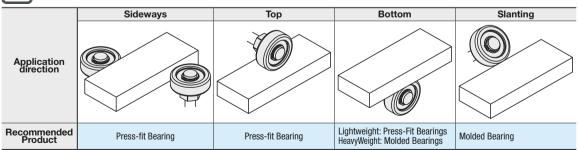


| Part Number | | | | | _ | Relative D | Dimension | | | |
|-------------|--------|---|----|----|----------------|------------|-------------|-------------------------|--------------|------------|
| | Туре | d | D | В | D ₁ | (min) | Ds (min) | R ₁ (max) | Bearing Used | Unit Price |
| | | 4 | 13 | 4 | 9 | 0.15 | 5 | 0.1 | 684ZZ | |
| | C-UMBB | 5 | 16 | 4* | 13 | 0.2 | 6.6 | 0.2 | 695ZZ | |
| | | 6 | 20 | 5 | 15 | 0.2 | 7.6 | 0.2 | 696ZZ | |

Note that B dimension is different in C-UMBB5-16, and UMBB5-16 that appears on P.1151. In UMBB5-16, B=5. Moreover in C-UMBB5-16, Urethane Molded Bearings Shafts included on P.1155 are also

| Item | | N | lagnitude of the force to p | peel Urethane from bearing | | | | |
|--------------|------------|-------------------|-----------------------------|----------------------------|---------------------|--|--|--|
| Itte | #III | Rotation | direction | Cross direction | | | | |
| Measurem | ent Method | | 1m | | | | | |
| Product Type | | Press-fit Bearing | Molded Bearing | Press-fit Bearing | Molded Bearing | | | |
| | 4-13 | 4kgf · m or more | 8kgf · m or more | 6kgf | | | | |
| Size | 5-16 | 4kgf · m or more | 8kgf · m or more | 7kgf | No peeling at 20kgf | | | |
| | 6-20 | 4kgf · m or more | 8kgf · m or more | 10kgf | | | | |





Note that even if it is applied from top, side and bottom, if there is unbalanced load due to mounting accuracy or backlash of work, or when used in high rotation, Urethane of the Press-Fit Bearing may come off.





