


Urethane Molded Bearings

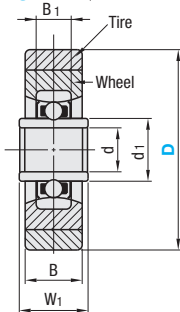
Inner Wheel Protruded

Urethane Molded Bearings
- Inner Wheel Protruded (For Light Load)

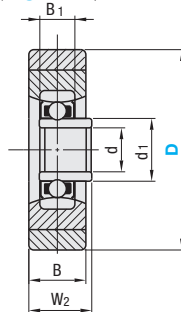


For Light Load

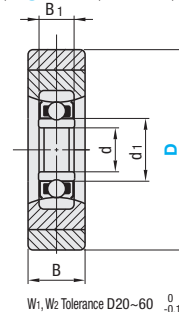
UMRW (Both Sides Protruded)



UMRV (One Side Protruded)



UMRR (No Protrusion)




W₁, W₂ Tolerance D20~60 $\begin{matrix} 0 \\ -0.12 \\ 0 \\ -0.15 \end{matrix}$
D65~80 $\begin{matrix} 0 \\ -0.12 \\ 0 \\ -0.15 \end{matrix}$

Operating Temperature Range: -20°C~40°C

Material	
Tire Section	Thermoplastic Ether Type Urethane (Black, Shore A95)
Wheel Section	Thermoplastic Lactone Type Urethane (Black)
Bearing	Outer Ring, Inner Ring, Balls: SUJ2 Shield: Rubber

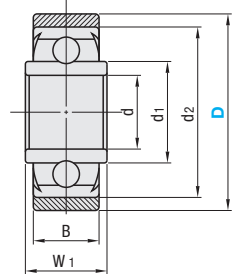
* The structure of D20 to D35 is single layer (only for tire section).

Urethane Molded Bearings
- Inner Wheel Protruded (For Heavy Load)

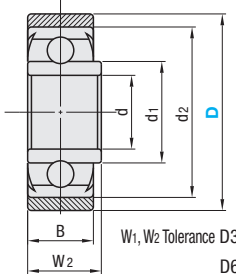


For Heavy Load

UMRHW (Both Sides Protruded)



UMRHV (One Side Protruded)



W₁, W₂ Tolerance D30~60 $\begin{matrix} 0 \\ -0.12 \\ 0 \\ -0.15 \end{matrix}$
D65, 70 $\begin{matrix} 0 \\ -0.12 \\ 0 \\ -0.15 \end{matrix}$

Operating Temperature Range: -20°C~40°C

Material	
Tire Section	Thermosetting Ether Type Urethane (Brown, Shore A95)
Bearing	Outer Ring, Inner Ring, Balls: SUJ2 Shield: Steel

For Light Load

Part Number Type	D	d	d Tolerance			d ₁	B	B ₁	W ₁	W ₂	Allowable Load N (Reference Value)	Mass (g)			Unit Price		
			UMRW, UMRV	UMRR	UMRR							UMRW	UMRV	UMRR	UMRW	UMRV	UMRR
UMRW (Both Sides Protruded)	20	6	0	-0.02	0	8.6	8	5	11	9.5	55	7	6	5			
	25					9.3	9	6	12	10.5	79	12	11	10			
	30	8	0	-0.04		12	11	7	15	13	108	21	19	17			
	35					14	12	8	16	14	147	24	22	20			
	40					18.3 (16.8)	14	10	18	16	245	60	55	50			
UMRV (One Side Protruded)	50	12	+0.005	-0.012	21.6 (20.0)	15	11	19	17	314	82	76	70				
	55				24.6 (23.0)	16	12	20	18	343	90	83	77				
	60				29.3 (27.6)	18	14	22	20	392	120	112	104				
UMRR (No Protrusion)	65	17	0	-0.01	441	130	121	113	510	188	175	164					
	70				510	188	175	164									
	75				589	199	187	176									
80																	

kgf=Nx0.101972

For Heavy Load

Part Number Type	D	d	d Tolerance	d ₁	d ₂	B	W ₁	W ₂	Allowable Load N (Reference Value)	Mass (g)		Unit Price		
										UMRHW	UMRHV	UMRHW	UMRHV	
UMRHW (Both Sides Protruded)	30	8	0	-0.04	12.0	22	11	15	13	303	24	23		
	35				347	28	27							
	40				474	62	59							
	45				579	78	75							
	50				660	84	82							
UMRHV (One Side Protruded)	55	20	+0.005	-0.012	794	157	151							
	60				829	167	162							
	65				918	199	191							
	70				1050	210	202							

kgf=Nx0.101972

Ordering Example

Part Number
UMRW40
UMRHV55

- Features**
- 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.
 - Though it excels in oil resistance, applying solvents may cause swelling and reduction in strength.

