


Bearing Bonded / Urethane Rollers / Knurling Urethane Rollers

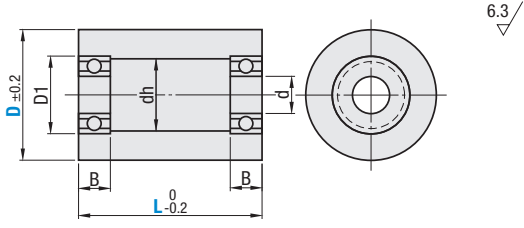
Set Screw Type

Feature: Economical Urethane Rollers with bearings directly adhesive bonded.



Bearing Bonded

Type	Material		Hardness
	Bearing	Urethane Roller	
UMJ	Steel	Polyurethane (Natural Color)	Shore A90




6.3

For detailed bearing dimensions, please see P.1018-1020, 1026-1029.

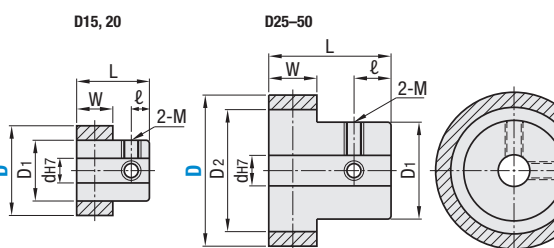
Part Number Type	D	L	d	D ₁	d _b	B	Used Bearing
	25	6	15	10	5	696ZZx2	
	30	8	19	15	6	698ZZx2	
	35	30-100	10	22	18	6	6900ZZx2
	40		12	28	24	8	6001ZZx2
	50		15	32	28	9	6002ZZx2

Part Number Example: **UMJ30 - L 30**



Urethane Rollers - Set Screw Type

Type	Material		Hardness
	Core	Lining	
UMHSH	304 Stainless Steel	Urethane (Natural Color)	Shore A90
UMHS			Shore A70
UMHSL	Aluminum Alloy 5000 series	Urethane (Natural Color)	Shore A50
UMHAH			Shore A90
UMHA			Shore A70
UMHAL			Shore A50




D15, 20

D25-50

Urethane is baked on the outer circumference of the core material.

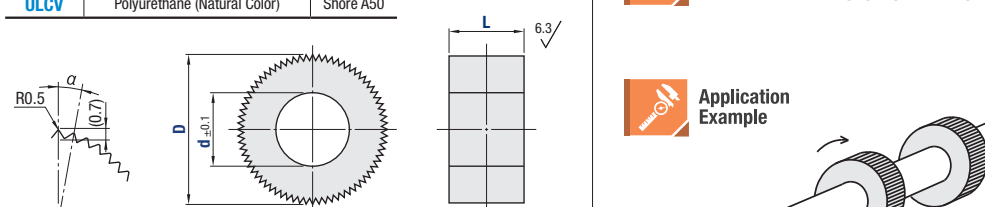
Part Number Type	No.	D	d	D ₁	D ₂	W	L	ℓ	M
	15-5	5							
	20	20	4	16	—	6	12	3	3
	20-5		5						
UMHSH Shore A90	25	25	6	16	20	8	20	6	3
UMHS Shore A70	25-8		8						
UMHSL Shore A50	30	30	6	16	24	8	20	6	4
	30-8		8						
Aluminum	35	35	8	20	28	10	25	7.5	4
	35-10		10						
UMHAH Shore A90	40	40	8	25	36	10	25	7.5	4
UMHA Shore A70	40-10		10						
UMHAL Shore A50	50	50	10	30	42	10	25	7.5	4
	50-12		12						

Part Number Example: **UMHS15**



Knurled Urethane Rollers

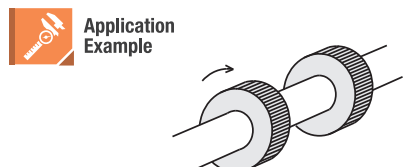
Type	Material	Hardness
ULCV	Polyurethane (Natural Color)	Shore A50



6.3


Part Number Type	D	L	d	α°	Number of Teeth
	20	10 15	8 10	9	40
	25	10 15 20	8 10 15	7.2	50
	30	10 15 20	8 10 15	6	60

Part Number Example: **ULCV20 - L 10 - d 8**



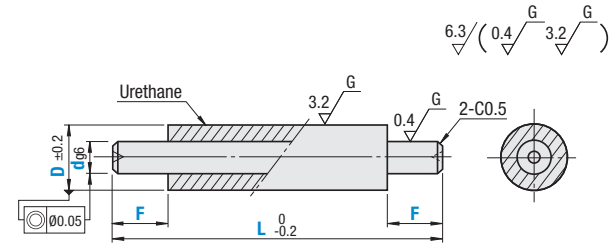
Urethane Rollers with Shafts

Straight / Both Ends Threaded Type



Urethane Rollers with Shafts - Straight Type

Type	Material		Hardness
	Shaft	Lining	
USH	52100 Bearing Steel Induction Hardened (Depth 0.8-2mm) 58 HRC min	Urethane (Natural Color)	Shore A90
USM			Shore A70
USL			Shore A50




6.3 / (0.4 G 3.2 G)

Urethane is baked on the outer circumference of the core material.

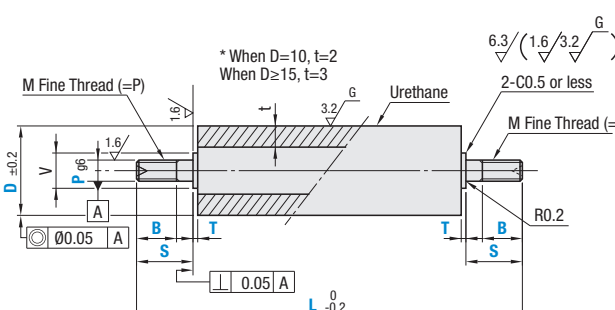
Part Number Type	D	d ₆	L 1mm Increment	F 1mm Increment
	15	6 8 10	50-150	
USM	20	8 10 12 15	50-200	
	25	10 12 15 20		
USL	30	15 20	50-300	
	35	15 20		

Part Number Example: **USH20 - d 8 - L 150 - F 10**



Urethane Rollers with Shafts - Both Ends Threaded Type

Type	Material		Hardness
	Shaft	Lining	
USMH	1045 Carbon Steel or Equivalent	Urethane (Natural Color)	Shore A90
USMM			Shore A70
USML			Shore A50



6.3 / (1.6 / 3.2 G)

Urethane is baked on the outer circumference of the core material.

Part Number Type	D	L 1mm Increment	P Selection	1mm Increment		
				S	B	T
USMH USMM USML	10	50-100	3	3 ≤ S ≤ Px5	When P ≤ 6 B ≤ S - 2 When P = 8, 10 B ≤ S - 3 When P ≥ 12 B ≤ S - 5	1-30
	15	50-150	3 4 5 6			
	20	50-200	4 5 6 8 10			
	25		4 5 6 8 10 12			
	30	50-300	5 6 8 10 12 15 17			
	35		8 10 12 15 17 20			

Part Number Example: **USMH20 - L 180 - P10 - S30 - B25 - T1**

For V and M to dimension P see the list below.

P	V	M (Fine)
3	5	M3 x P0.35
4	6	M4 x P0.5
5	7	M5 x P0.5
6	8	M6 x P0.75
8	10	M8 x P1.0
10	13	M10 x P1.0
12	15	M12 x P1.0
15	17	M15 x P1.0
17	20	M17 x P1.0
20	24	M20 x P1.0

Part Number Alterations: **USH15 - d 8 - 80 - F5 - DKC**
USMH20 - 120 - P8 - S8 - B5 - T4 - UDC

Alteration	Code	Spec.
Outer Diameter Tolerance	DKC	Changes the D dimension tolerance. D Tolerance +0.05 0 Ordering Code: DKC
Antistatic Urethane (Urethane Color: Gray)	UDC	Changes to antistatic urethane (only USH and USMH Type). Ordering Code: UDC Specific Volume Resistivity 2.1 x 10 ⁸ Ωcm Surface Resistivity 4.0 x 10 ⁹ Ω (Temperature 30°C/Humidity 60%)