

Urethane Rollers with Collars / Knurled Urethane Rollers

Set Screw Type

Urethane Rollers with Collars

Type	Material		Hardness
	Core	Lining	
UMC	Aluminum Alloy	Urethane (Natural Color)	Shore A90
UMCM			Shore A70
UMCL			Shore A50

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

L dims. tolerance is ± 0.3 when $D > 50$. * Secure to the shaft with Loctite adhesive.

Part Number Type	D	d Selection			L Selection						t		
		3	4	5	5	10	15	20	25	30			
UMC (Shore A90) UMCM (Shore A70) UMCL (Shore A50)	10	3			5	10	15	20	25	30	2		
	12	3			5	10	15	20	25	30			
	13	3			5	10	15	20	25	30			
	15		4			5	10	15	20	25	30	3	
	16		4			5	10	15	20	25	30		
	20		4			5	10	15	20	25	30		
	25		5	6	8	10	15	20	25	30	40	50	4
	30		5	6	8	10	15	20	25	30	40	50	
	35		5	6	8	10	15	20	25	30	40	50	
	40		6	8	10	10	15	20	25	30	40	50	5
	45		6	8	10	10	15	20	25	30	40	50	
	50		6	8	10	10	15	20	25	30	40	50	
	55		8	10	12	10	15	20	25	30	40	50	5
	60		8	10	12	10	15	20	25	30	40	50	
	70		8	10	12	10	15	20	25	30	40	50	
	80		12	15	20	20	25	30	40	50			

Ordering Example: Part Number - d - L
UMC30 - 10 - 20

Alterations: Part Number - d - L - (HRC)
UMC30 - 10 - 20 - HRC
UMCL80 - 15 - 50 - MC

Alteration Code	Parallel Knuris HRC	Tapping MC
Spec.	Straight-line knurling is applied to roller surfaces.	Adds two M3 tapped holes at 90°. Ordering Code MC. Applicable to D dim. 20 or more. Not available for t2.

D	Unit Price																								
	UMC					UMCM					UMCL														
	L5	L10	L15	L20	L25	L30	L40	L50	L5	L10	L15	L20	L25	L30	L40	L50	L5	L10	L15	L20	L25	L30	L40	L50	
10																									
12																									
13																									
15																									
16																									
20																									
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45																									
50																									
55																									
60																									
70																									
80																									

Knurled Urethane Rollers - Set Screw Type

Type	Material		Hardness
	Core	Lining	
UMKH	A5052	Urethane (Natural Color)	Shore A90
UMKM			Shore A70
UMKL			Shore A50

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

Part Number Type	D	dh7	alpha	Number of Teeth	D1	D2	W	L	l	M	Unit Price		
											UMKH	UMKM	UMKL
UMKH (Shore A90) UMKM (Shore A70) UMKL (Shore A50)	15	4	5	10	36	8	8						
	20	4	5	7.5	48	10		10	20	5	M3		
	25		6	6	60	12		15	25				
	30		8	5	72					20			
	40		8	3.75	96				20	35	7.5	M4	
50		8	3	120	18	22							

Ordering Example: Part Number - d
UMKM25 - 6

Bearing Integrated Urethane Rollers / Urethane Rollers / Knurled Urethane Rollers

Set Screw Type

Features: Economical Urethane Rollers with bearings directly adhesive bonded.

Bearing Integrated Urethane Rollers

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

Part Number Type	D	L Selection (10 mm Increment)	d	D1	dh	B	Bearing Used	Unit Price												
								L20	L30	L40	L50	L60	L70	L80	L90	L100				
UMJ	20	20~100	6	15	10	5	696ZZx2													
	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	-												

Ordering Example: Part Number - L
UMJ30 - 30

Urethane Rollers - Set Screw Type

Type	Material		Hardness
	Core	Lining	
UMHSH	SUS304	Urethane	Shore A90
UMHS			Shore A70
UMHSL			Shore A50
UMHAH	Aluminum Alloy	Urethane	Shore A90
UMHA			Shore A70
UMHAL			Shore A50

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

Part Number Type	No.	D	d	D1	D2	W	L	l	M	Unit Price						
										UMHSH	UMHS	UMHSL	UMHAH	UMHA	UMHAL	
Stainless Steel UMHSH (Shore A90) UMHS (Shore A70) UMHSL (Shore A50)	15	15	4	10	-	6	12	3	3							
	15-5		5													
	20		4	16	-	6	12	3	3							
	20-5	5														
	25	25	6	16	20	8	20	6	4							
	25-8		8													
30	6		16	24	8	20	6	3								
Aluminum UMHAH (Shore A90) UMHA (Shore A70) UMHAL (Shore A50)	30-8	30	8	16	24	8	20	6	4							
	35		8	20	28	10	25	7.5	4							
	35-10		10													
	40	40	8	25	36	10	25	7.5	4							
	40-10		10													
	50		10	30	42	10	25	7.5	4							
50-12	12															

Knurled Urethane Rollers

Material: Polyurethane (Natural Color)
Hardness: Shore A50

Part Number Type	D	L Selection	d Selection	alpha	Number of Teeth	Unit Price			
						L6	L10	L15	L20
ULCV (Shore A50)	15	6	10	12	30				
	20	10	15	9	40				
	25	10	15	7.2	50				
	30	10	15	6	60				

Ordering Example: Part Number - L - d
UMH15 ULCV20 - 10 - 8