

Urethane Rollers with Collars / Knurled Urethane Rollers

Set Screw Type

Urethane Rollers with Collars

Type	Material		Hardness
	Core	Lining	
UMC	EN AW-5052 Equiv.	Urethane	Shore A90
UMCM		(Natural Color)	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		d										L										t							
Type	D	Selection										Selection																	
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		4											5	10	15	20	25	30										
	15			5											5	10	15	20	25	30	40	50							
	16			5	6									5	10	15	20	25	30	40	50								
	20			5	6	8							10	15	20	25	30	40	50	3									
	25				6	8	10							10	15	20	25	30	40		50								
	30					8	10	12	15					10	15	20	25	30	40		50								
	35						8	10	12	15					10	15	20	25	30		40	50							
	40							8	10	12	15					10	15	20	25		30	40	50						
	45								10	12	15					10	15	20	25	30	40	50	4						
	50									10	12	15					10	15	20	25	30	40		50					
	55										10	12	15						15	20	25	30		40	50				
	60											10	12	15							20	25		30	40	50			
	70													12	15	20								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 Knurls 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	-								-								-							
25	-								-								-							
30	-								-								-							
35	-								-								-							
40	-								-								-							
45	-								-								-							
50	-								-								-							
55	-	-							-	-							-	-						
60	-		-						-		-						-		-					
70	-		-						-		-						-		-					
80	-		-						-		-						-		-					

Knurled Urethane Rollers - Set Screw Type

Type	Material		Hardness
	Core	Lining	
UMKH	EN AW-5052 Equiv.	Urethane (Natural Color)	Shore A90
UMKM			Shore A70
UMKL			Shore A50

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

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Part Number	Type	D	dh7						α°	Number of Teeth	D1	D2	W	L	ℓ	M	Unit Price		
			15	20	25	30	40	50									UMKH	UMKM	UMKL
UMKH (Shore A90) UMKM (Shore A70) UMKL (Shore A50)		15	4	5					10	36	8	8							
		20	4	5	6				7.5	48	10	15	10	20	5	M3			
		25			6	8			6	60	12		15	25					
		30				8	10		5	72		20							
		40				8	10	12	3.75	96	16		20	35	7.5	M4			
		50				8	10	12	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

UMJ

RoHS 10

For bearing detailed dimensions, see P.989.

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

Part Number		L Selection (10 mm Increment)	d	D1	dh	B	Bearing Used	Unit Price									
Type	D							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	EN 1.4301 Equiv.	Urethane	Shore A90
UMHS			Shore A70
UMHSL			Shore A50
UMHAH	Aluminum Alloy 5000 series		Shore A90
UMHA			Shore A70
UMHAL			Shore A50

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

D15, 20 D25~50

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	20	4	16	-	6	12	3	3						
		20-5		5												
		25	25	6	16	20	8	20	6	3						
		25-8		8						4						
Aluminum UMHAH (Shore A90) UMHA (Shore A70) UMHAL (Shore A50)		30	30	6	16	24	8	20	6	3						
		30-8		8						4						
		35	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	50	10	30	42	10	25	7.5	4						
		50-12		12												

Knurled Urethane Rollers

ULCV

RoHS 10

Material: Polyurethane (Natural Color)
Hardness: Shore A50

Part Number	Type	D	L Selection	d Selection	α°	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
UMHS15 ULCV20 - 10 - 8