

# Idler Pulleys –Timing Belt–

MISUMI's Idler Pulleys have integral ball bearings for smooth and quiet operation. Choose from aluminum and steel idlers. The Pulleys can be shipped with flanges swaged to hubs, or separately.

Material	Surface Treatment	Type
2017 Aluminum	Clear Anodizing	U-AATF
1045 Steel	Electroless Nickel Plating	U-MATF

Material Characteristics P.628, 629

One Bearing  
Two Bearings  
Two Bearings (Only 16H200)

Collar

General Tolerance  
Unless otherwise specified use the table below.

From	To	Tolerance
0.000	5.000	+0.01
5.001	16.000	+0.02
16.001	60.000	+0.05

⊕ Thread or hole location tolerance: ±0.005' non-cumulative.

⊕ Bearing is press-fitted.

Type	Part No.		Teeth Pitch	P.D. (Pitch Diameter)	O.D. (Outer Diameter)	F		A		W		S	
	Number of Teeth	Compatible Belt Type				Inch	mm	Inch	mm	Inch	mm	Inch	mm
	U-AATF	40				MXL025	0.08	1.019	0.999	1.18	30	0.30	7.5
U-AATF	40	MXL037	0.08	1.019	0.999	1.18	30	0.43	11	0.59	15	0.20	5
U-AATF	18	XL025	0.20	1.146	1.126	1.42	36	0.30	7.5	0.49	12.5	0.11	2.7
U-AATF	18	XL037	0.20	1.146	1.126	1.42	36	0.43	11	0.63	16	0.17	4.4
U-AATF	22	XL037	0.20	1.401	1.381	1.77	45	0.43	11	0.63	16	0.17	4.4
U-AATF	22	XL050	0.20	1.401	1.381	1.77	45	0.55	14	0.75	19	0.23	5.9
U-AATF	25	XL037	0.20	1.592	1.572	1.89	48	0.43	11	0.63	16	0.16	4
U-AATF	25	XL050	0.20	1.592	1.572	1.89	48	0.55	14	0.75	19	0.22	5.5
U-MATF	16	L050	0.38	1.910	1.880	2.17	55	0.55	14	0.75	19	0.22	5.5
U-MATF	16	L075	0.38	1.910	1.880	2.17	55	0.83	21	1.02	26	0.36	9
U-MATF	18	L050	0.38	2.149	2.119	2.40	61	0.55	14	0.75	19	0.20	5.1
U-MATF	18	L075	0.38	2.149	2.119	2.40	61	0.83	21	1.02	26	0.34	8.6
U-MATF	18	L100	0.38	2.149	2.119	2.40	61	1.06	27	1.26	32	0.29	7.3
U-MATF	16	H100	0.50	2.546	2.492	2.76	70	1.06	27	1.26	32	0.29	7.3
U-MATF	16	H150	0.50	2.546	2.492	2.76	70	1.57	40	1.77	45	0.45	11.4
U-MATF	16	H200	0.50	2.546	2.492	2.76	70	2.13	54	2.32	59	0.29	7.3

Order Example

The part number consists only of the fields with blue characters. Please refer to the technical information table.

Part No. U-AATF 25 XL 037

Type: U-AATF, Number of Teeth: 25, Compatible Belt Type: XL 037

## Technical Information

Number of Teeth	Compatible Belt Type	Bearing					Retaining Ring No.
		No.	Qty.	d	D	B	
40	MXL025	R4ZZ	1	0.250	0.625	0.196	JIS B 2804 #16
40	MXL037	R4ZZ	1	0.250	0.625	0.196	JIS B 2804 #16
18	XL025	R4AZZ	1	0.250	0.750	0.281	JIS B 2804 #20
18	XL037	R4AZZ	1	0.250	0.750	0.281	JIS B 2804 #20
22	XL037	R6ZZ	1	0.375	0.875	0.281	JIS B 2804 #24
22	XL050	R6ZZ	1	0.375	0.875	0.281	JIS B 2804 #24
25	XL037	R8ZZ	1	0.500	1.125	0.313	JIS B 2804 #30
25	XL050	R8ZZ	1	0.500	1.125	0.313	JIS B 2804 #30
16	L050	R8ZZ	1	0.500	1.125	0.313	JIS B 2804 #30
16	L075	R8ZZ	1	0.500	1.125	0.313	JIS B 2804 #30
18	L050	R10ZZ	1	0.625	1.375	0.344	JIS B 2804 #35
18	L075	R10ZZ	1	0.625	1.375	0.344	JIS B 2804 #35
18	L100	R10ZZ	2	0.625	1.375	0.344	JIS B 2804 #35
16	H100	R10ZZ	2	0.625	1.375	0.344	JIS B 2804 #35
16	H150	R12ZZ	2	0.750	1.625	0.438	JIS B 2804 #42
16	H200	R12ZZ	2	0.750	1.625	0.438	JIS B 2804 #42

\* JIS is Japanese Industrial Standards.

Days to Ship

Standard: 6 Days (Non-Returnable P.30)

Express: 4 Days (Specify Express A) \$2.00/piece (P.30)

A flat charge of \$5.40 for 3 or more identical pieces.

Quantity Discount Rate

Quantity	1-4	5-9	10-19	20~
Rate	—	5%	10%	15%

For larger quantity orders "Days to Ship" may differ from published catalog term. P.29

No. of Teeth	Matching Belts	\$ Unit Price (Qty. 1~4)	
		U-AATF	U-MATF
40	MXL025	32.20	34.80
40	MXL037	32.20	34.80
18	XL025	32.20	34.80
18	XL037	32.20	34.80
22	XL037	35.80	38.40
22	XL050	35.80	38.40
25	XL037	38.40	41.00
25	XL050	41.40	44.00
16	L050	37.20	39.80
16	L075	37.20	39.80
18	L050	39.80	44.60
18	L075	42.60	47.40
18	L100	56.00	60.80
16	H100	56.60	61.40
16	H150	65.80	70.60
16	H200	76.30	81.10

Optional Modification

Part No. (Ordering Code): U-AATF 25 XL 037 - NFC

Disassembled Flanges: NFC

Detail: Ships the flanges disassembled.

\$ Price Adder: Free of Charge

When using Optional Modification, add the "Price Adder" to the standard "Unit Price".

Example: Driving Pulley, Idler Pulley, Driven Pulley

Make sure to use idler pulleys on the low tension side.

Install this flanged idler as close as possible to the larger pulley.

Related Components

Cantilever Shafts P.231

Cantilever Shafts P.247

Express Options P.30

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