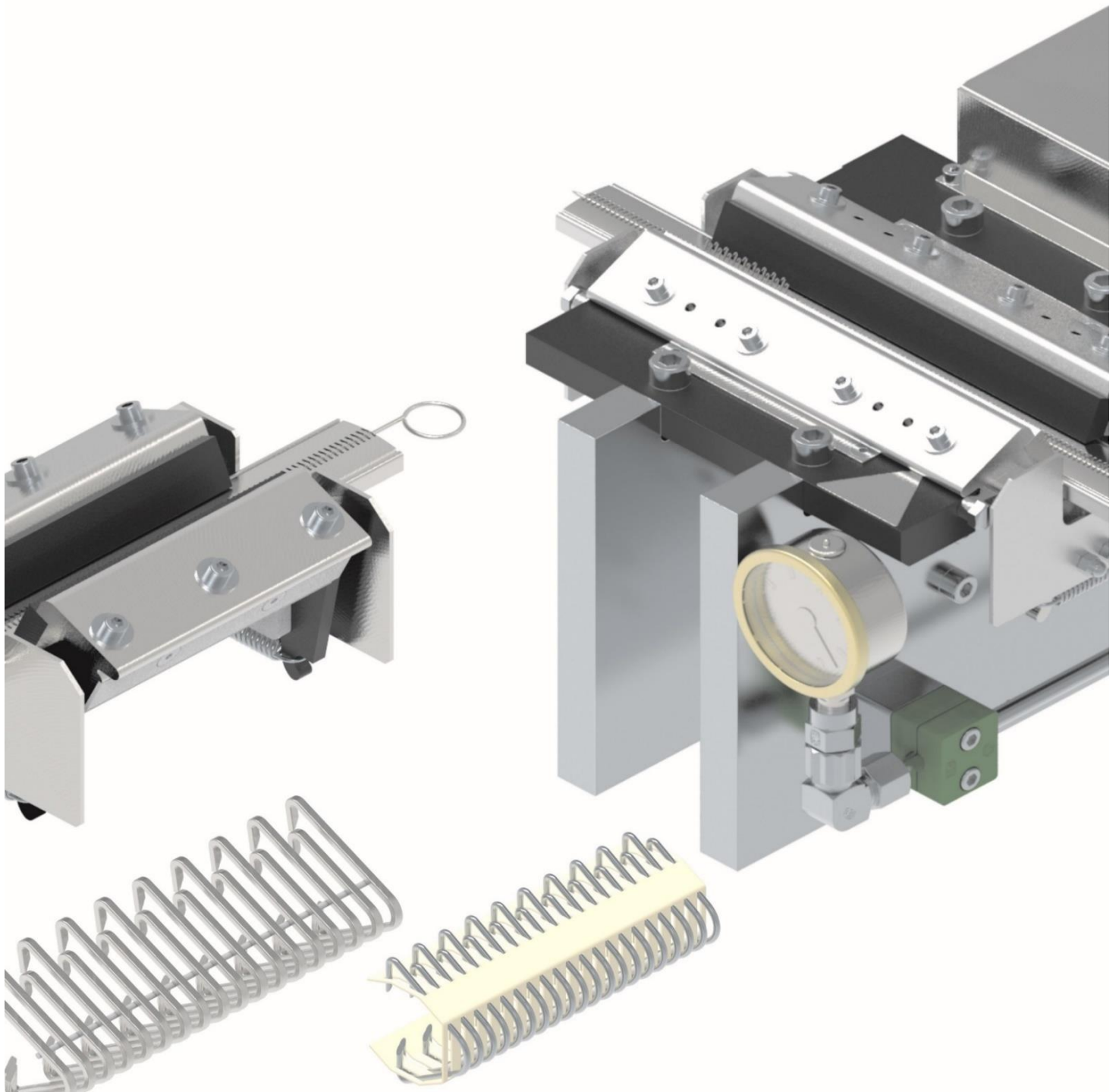


# mato



**Selection Chart**

for Wire Hook Systems

**What do you need?**

- Belt thickness
- Minimum pulley diameter
- Fastener pitch

**How do you proceed?**

- Selection Charts on pages 36 and 37

**Recommendations:**

- select longest leg length, for high tension belt and larger pulley diameters.
- select lowest profile wire for a smooth surface and low noise levels.
- select larger profile wire for high wear

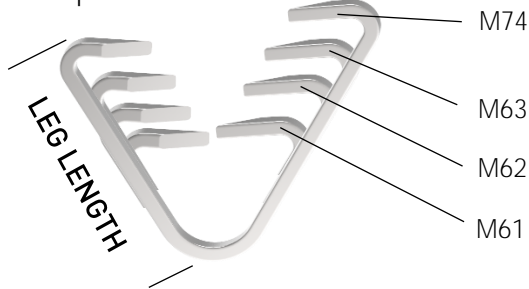
**Material Selection**

according to your requirements, please see selection chart below

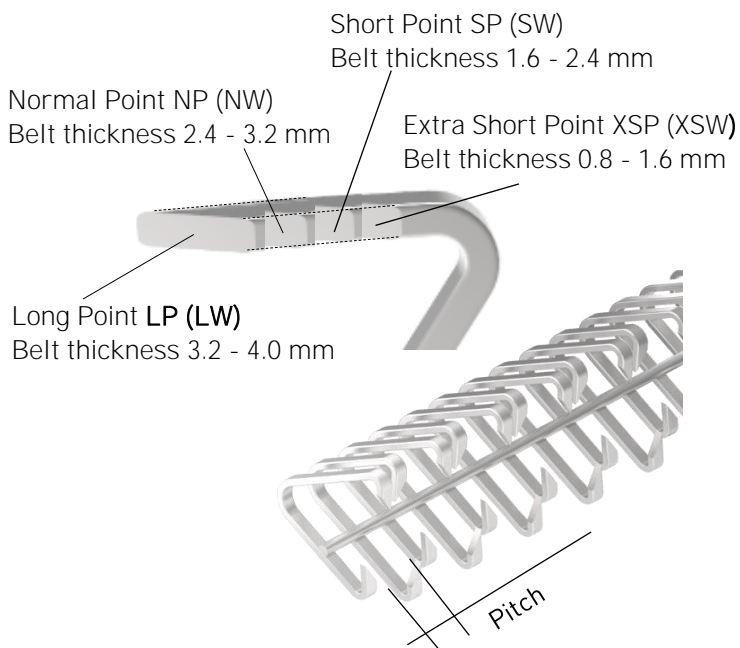
**Selection of Connecting Pins**

see pages 51 - 52

Example:



The leg length dependent on the pulley diameter. The bigger the minimum pulley diameter, the longer the leg length. See key to selection on page 36.



Material	Symbol	Magnetic	Abrasion Resistant	Chemical Resistant	Rust Resistant	Systems
Galvanized Steel	G	yes	●●●●○	●○○○○	●●●○○	R20, R30
Special Steel	C	yes	●●●●○	●○○○○	○○○○○	R80
Stainless Steel, 1.4016	S	yes	●●●●○	●●●○○	●●●○○	M50, M60, R20, R30, R70, R80
Stainless Steel, 1.4404	SS	slightly	●●●●○	●●●●○	●●●●●	M50, M60, M70, R20, R30, R70, R80
Monel 400	MO	slightly	●●○○○	●●●●●	●●●●●	auf Anfrage
Inconel 600	IN	no	●●○○○	●●●●●	●●●●●	auf Anfrage
Hastelloy C4	HA	no	●●●●○	●●●●●	●●●●●	auf Anfrage

poor ○○○○○      excellent ●●●●●

\* for higher temperatures as well

Contact our MATO specialists for assistance in selecting the correct fastener for your application.

# Selection Chart

for Fastener Sizes of Systems M50, M60, and R60

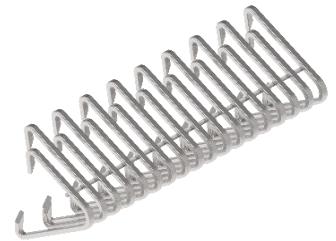
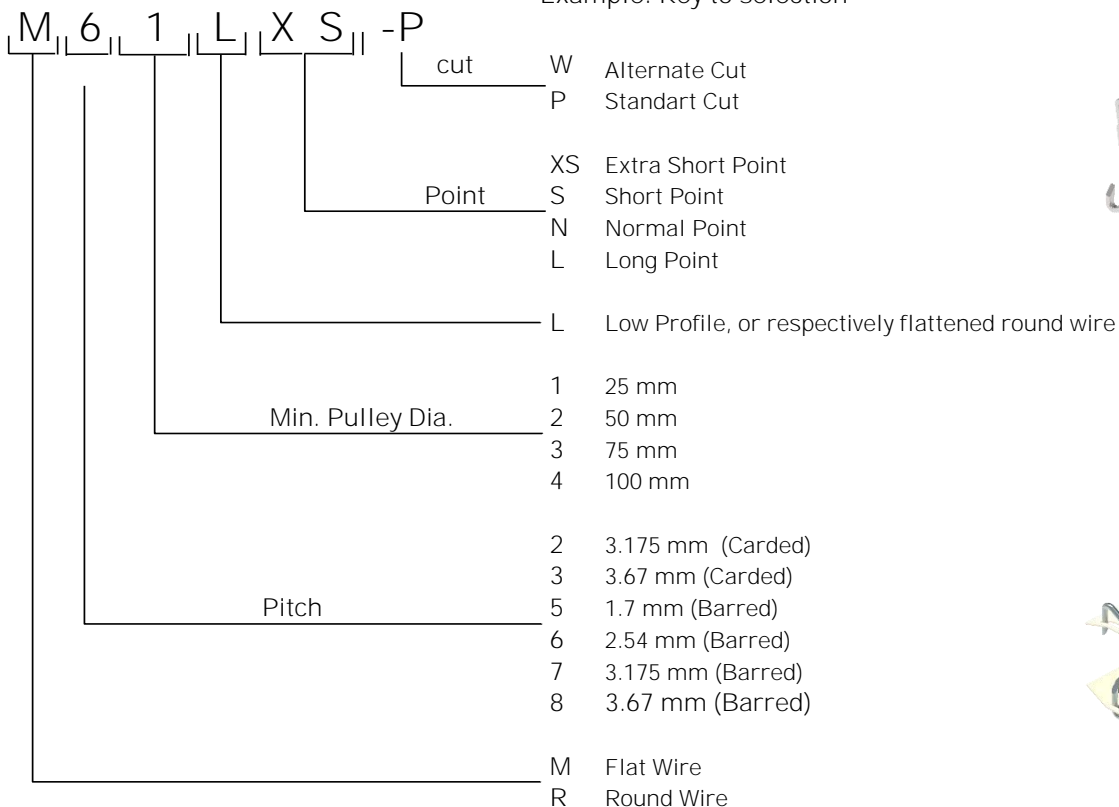
Pitch 1,7mm

Min. Pulley Diameter	Wire Measurements		Connecting Pin Diameter mm (Type)	Belt Thickness							
	mm	inch		≤ 1/32"	1/16"	5/64"	3/32"	7/64"	1/8"	9/64"	5/32"
30mm	0,65 x 0,5	0,026 x 0,020	1,5 (MK15)	≤ 0,8mm	1,6mm	2,0mm	2,4mm	2,8mm	3,2mm	3,6mm	4,0mm
1 1/8"	0,65 x 0,5	0,026 x 0,020	1,5 (MK15)			M51.2SW-SS			M51.2NW-SS		

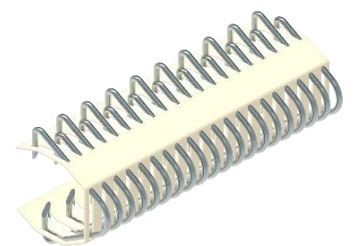
Pitch: 2.54mm

Min. Pulley Diameter	Wire Measurements		Connecting Pin Diameter mm (Type)	Belt Thickness							
	mm	inch		≤ 1/32"	1/16"	5/64"	3/32"	7/64"	1/8"	9/64"	5/32"
25mm 1"	0.9 x 0.5	0.035 x 0.020	1.5 (MK15)		M61LXSP						
	0.9 x 0.7	0.035 x 0.028	1.5 (MK15)		M61XSP						
	0.9 x 0.5	0.035 x 0.020	1.5 (MK15)			M61LSP					
	0.9 x 0.7	0.035 x 0.028	1.5 (MK15)			M61SP					
50mm 2"	0.9 x 0.5	0.035 x 0.020	1.5 (MK15)		M62LXSP						
	0.9 x 0.7	0.035 x 0.028	1.5 (MK15)		M62XSP						
	0.9 x 0.5	0.035 x 0.020	1.5 (MK15)			M62LSP					
	0.9 x 0.7	0.035 x 0.028	1.5 (MK15)			M62SP					
75mm 3"	0.9 x 0.5	0.035 x 0.020	1.8 (MK18)					M62LNP			
	0.9 x 0.7	0.035 x 0.028	1.8 (MK18)					M62NP			
	0.9 x 0.7	0.035 x 0.028	1.8 (MK18)							M62LP	
	0.9 x 0.7	0.035 x 0.028	1.5 (MK15)			M63SP					
75mm 3"	0.9 x 0.7	0.035 x 0.028	1.8 (MK18)					M63NP			
	0.9 x 0.7	0.035 x 0.028	1.8 (MK18)							M63LP	

Example: Key to selection



Barred



Carded

# Selection Chart

for Fastener Sizes of Systems R20, R30, R70, R80 and M70

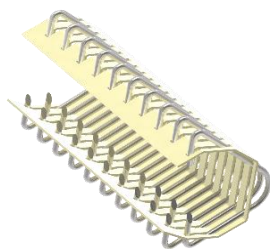
## Pitch 3,175mm

Min. Pulley Diameter	Wire Measurements		Connecting Pin Diameter mm (Type)	Belt Thickness							
	mm	inch		5/64"	1/8"	5/32"	3/16"	1/4"	9/32"	5/16"	11/32"
				2mm	3mm	4mm	5mm	6mm	7mm	8mm	9mm
50mm 2"	Ø 1,0	Ø 0,040	1,8 (MK18)	R22SP							
	Ø 1,0	Ø 0,040	1,8 (MK18)	R72SW							
	Ø 1,0	Ø 0,040	2,0 (MK20)	R22NP							
	Ø 1,0	Ø 0,040	2,0 (MK20)	R72NW							
75mm 3"	Ø 1,0	Ø 0,040	1,8 (MK18)	R23SP							
	Ø 1,0	Ø 0,040	1,8 (MK18)	R73LSW							
	Ø 1,0	Ø 0,040	2,0 (MK20)	R23NP							
	Ø 1,0	Ø 0,040	2,0 (MK20)	R73NW							
100mm 4"	1,2 x 1,0	0,048 x 0,040	1,5 (MK15)	M74XSW							
	1,2 x 1,0	0,048 x 0,040	1,8 (MK18)	M74SW							
	1,2 x 1,0	0,048 x 0,040	2,0 (MK20)	M74NW							

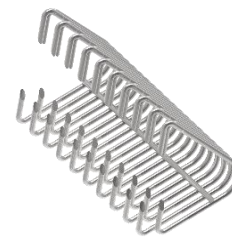
## Pitch 3,67mm

Min. Pulley Diameter	Wire Measurements		Connecting Pin Diameter mm (Type)	Belt Thickness							
	mm	inch		5/64"	1/8"	5/32"	3/16"	1/4"	9/32"	5/16"	11/32"
				2mm	3mm	4mm	5mm	6mm	7mm	8mm	9mm
50mm 2"	Ø 1,4	Ø 0,055	2,0 (MK20)	R32							
	Ø 1,4	Ø 0,055	2,0 (MK20)	R82*							
75mm 3"	Ø 1,4	Ø 0,055	2,5 (MK25)	R33							
	Ø 1,4	Ø 0,055	2,5 (MK25)	R83*							
100mm 4"	Ø 1,4	Ø 0,055	3,0 (MK30)	R34							
	Ø 1,4	Ø 0,055	3,0 (MK30)	R84							
125mm 4"	Ø 1,4	Ø 0,055	3,5 (MK35)	R35							
	Ø 1,4	Ø 0,055	3,5 (MK35)	R85							
150mm 6"	Ø 1,4	Ø 0,055	4,0 (MK40)	R36							
	Ø 1,4	Ø 0,055	4,0 (MK40)	R86							

\* Available with wire diameter of 1.0 mm upon request.



Carded



Barred

The MATO Rectangular Wire Fastener M50 / M60 / M70 **Series** has been specially developed for applications in the filter, airport, food, distribution, and laundry industries.

Features:

- embed into the belt
- minimum abrasive wear
- low noise level
- kind to Belt Cleaning Systems

Depending on the application, there are four different standard versions available:

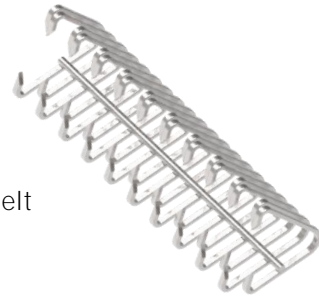
### Rectangular Wire Fastener M50 Series

Pitch 1.7 mm

Barred Fasteners

Fastener with an extra flat wire (0.65 x 0.5 mm).

This is a preferred version when an extremely flat surface is required (e. g. a very good embedding in the belt and very low noise emission for sliding belt surface is required).



### Rectangular Wire Fastener Series M60

Pitch 2.54 mm

Barred Fasteners

Fastener with a rectangular wire 0.9 x 0.7 mm.

Due to the bigger wire profile compared to the M50, the M60 fasteners provide higher tensile strength and higher wear resistance. The rectangular wire profile results in a very flat fill and, therefore, in a low noise level.



### Special Ultra Low Profile Fastener Series M60L

Pitch 2.54 mm

Barred Fasteners

just as Series M60, but with an extremely flat wire (0.9 x 0.5 mm).

This Fastener is used if the wire of the M60 version fills too heavily.

### Rectangular Wire Fastener Series M70

Pitch 3.175 mm

Barred Fasteners

Fastener with a rectangular wire 1.2 x 1 mm.

Due to the bigger profile wire, the M70 fasteners provide highest tensile strength and highest wear resistance. The rectangular wire profile results in a very flat fill and, therefore, in a low noise level.

Note:  
We have a continuous improvement programme for the Patch, Rectangular Wire Fasteners and associated Installation Tools.

MATO Round Wire Fasteners are used for Light Duty Belts, depending on the demand in most of the market segments. The fastener series differ from

- Pitch (measurement from leg to leg)
- Fasteners are supplied carded or barred
- Wire diameter ranges from 0.8mm to 1.4mm
- Geometrical form (belt thicknesses from 1.6mm to 9.0mm and minimum pulley diameters from 25mm to 150mm)

The advantages of barred fasteners over carded fasteners are due to the reduced risk of using single hooks on installation and also a flatter belt profile after installation.

## Round Wire Fastener Series R70

Pitch 3.175 mm

Barred Fasteners

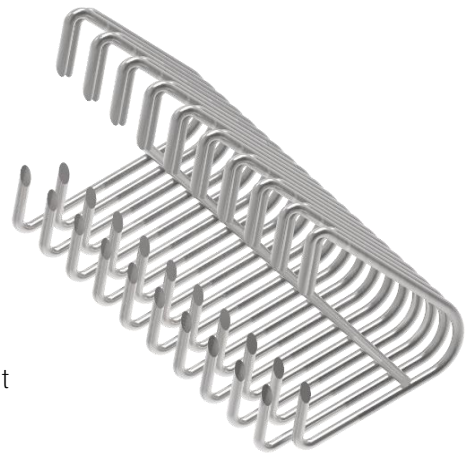
This series has a diameter of 1.0 mm and can be used in a belt thickness range from 2.0 mm to 4.0 mm.

## Round Wire Fastener Series R80

Pitch 3.67 mm

Barred Fasteners

These fasteners have a wire diameter of 1.40 mm and can be used in a belt thickness ranging from 3.0 mm to 9.0 mm.



## Round Wire Fastener Series R20

Pitch 3.175 mm,

Carded

These fasteners are 1.0mm in diameter and can be used for a belt thickness ranging from 2.0mm to 4.0mm.

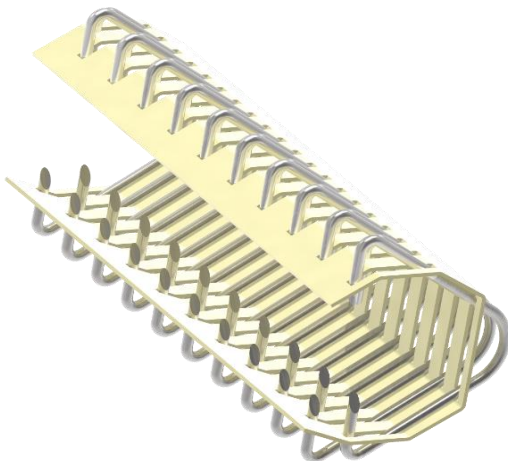
Carded fasteners are recommended when used with troughed belts or crowned pulleys where flexing of the splice occurs.

## Round Wire Fastener Series R30

Pitch 3.67 mm

Carded

These fasteners are 1.40 mm in diameter and can be used for a belt thickness ranging from 3.0 mm to 9.0 mm.



# Rectangular Wire Fasteners M50

Standard Design, Pitch 1.7 mm, Welded on Barred Wire

Description	Belt Thickness	Min. Drum Dia.	Order No.	kg
-------------	----------------	----------------	-----------	----

**Stainless Steel 316L (SS), Strip Length 300 mm**  
 Box Content : 12 Strips

M51.2SW	1.6-2.4 mm	30 mm	42 704 25 51	0.2
M51.2NW	2.4-3.2 mm	30 mm	42 704 25 52	0.2



- Material: Stainless Steel 316L (1.4404)
- Belt Thickness: 1.6 - 3.2 mm
- Pitch: 1.7 mm
- Wire Dimension: 0.65 x 0.5 mm
- Barred Fasteners
- Box does not include Connecting Pins

**Chromium Steel 430 (S), Strip Length 300 mm**  
 Box Content : 12 Strips

M51.2SW	1.6-2.4 mm	30 mm	42 703 25 51	0.2
M51.2NW	2.4-3.2 mm	30 mm	42 703 25 52	0.2



- Material: Chromium Steel 430 (1.4016)
- Belt Thickness: 1.6 - 3.2 mm
- Pitch: 1.7 mm
- Wire Dimension: 0.65 x 0.5 mm
- Barred Fasteners
- Box does not include Connecting Pins

Please see pages 51 -52 for Connecting Pins

# Rectangular Wire Fasteners M60

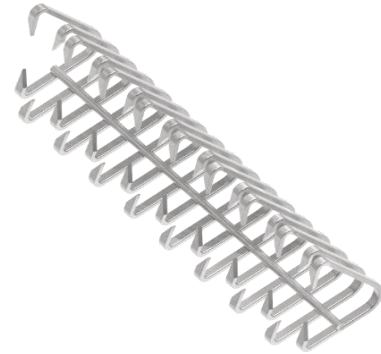
Standard Design, Pitch 2.54 mm, Welded on Barred Wire

Description	Belt Thickness	Min. Drum Dia.	Order No.	kg
-------------	----------------	----------------	-----------	----

**Stainless Steel 316L (SS), Strip Length 300 mm**

Box Content : 12 Strips

M61XSP	0.8-1.6 mm	25 mm	42 704 26 10	0.2
M61SP	1.6-2.4 mm	25 mm	42 704 26 11	0.2
M62XSP	0.8-1.6 mm	50 mm	42 704 26 20	0.3
M62SP	1.6-2.4 mm	50 mm	42 704 26 21	0.3
M62NP	2.4-3.2 mm	50 mm	42 704 26 22	0.3
M62LP	3.2-4.0 mm	50 mm	42 704 26 23	0.3
M63SP	1.6-2.4 mm	75 mm	42 704 26 31	0.4
M63NP	2.4-3.2 mm	75 mm	42 704 26 32	0.4
M63LP	3.2-4.0 mm	75 mm	42 704 26 33	0.4



- Material: Stainless Steel 316L (1.4404)

- Belt Thickness: 0.8 - 4.0 mm

- Pitch: 2.54 mm

- Wire Dimension: 0.9 x 0.7 mm

**Stainless Steel 316L (SS), Strip Length 600 mm**

Box Content : 12 Strips

M61XSP	0.8-1.6 mm	25 mm	42 704 66 10	0.5
M61SP	1.6-2.4 mm	25 mm	42 704 66 11	0.5
M62XSP	0.8-1.6 mm	50 mm	42 704 66 20	0.6
M62SP	1.6-2.4 mm	50 mm	42 704 66 21	0.6
M62NP	2.4-3.2 mm	50 mm	42 704 66 22	0.6
M62LP	3.2-4.0 mm	50 mm	42 704 66 23	0.6
M63SP	1.6-2.4 mm	75 mm	42 704 66 31	0.8
M63NP	2.4-3.2 mm	75 mm	42 704 66 32	0.8
M63LP	3.2-4.0 mm	75 mm	42 704 66 33	0.8

- Barred Fasteners

- Box does not include Connecting Pins

**Chromium Steel 430 (S), Strip Length 300 mm**

Box Content : 12 Strips

M61XSP	0.8-1.6 mm	25 mm	42 703 26 10	0.2
M61SP	1.6-2.4 mm	25 mm	42 703 26 11	0.2
M62XSP	0.8-1.6 mm	50 mm	42 703 26 20	0.3
M62SP	1.6-2.4 mm	50 mm	42 703 26 21	0.3
M62NP	2.4-3.2 mm	50 mm	42 703 26 22	0.3
M62LP	3.2-4.0 mm	50 mm	42 703 26 23	0.4
M63SP	1.6-2.4 mm	75 mm	42 703 26 31	0.4
M63NP	2.4-3.2 mm	75 mm	42 703 26 32	0.4
M63LP	3.2-4.0 mm	75 mm	42 703 26 33	0.4



- Material: Chromium Steel 430 (1.4016)

- Belt Thickness: 0.8 - 4.0 mm

- Pitch: 2.54 mm

- Wire Dimension: 0.9 x 0.7 mm

**Chromium Steel 430 (S), Strip Length 600 mm**

Box Content : 12 Strips

M61XSP	0.8-1.6 mm	25 mm	42 703 66 10	0.5
M61SP	1.6-2.4 mm	25 mm	42 703 66 11	0.5
M62XSP	0.8-1.6 mm	50 mm	42 703 66 20	0.6
M62SP	1.6-2.4 mm	50 mm	42 703 66 21	0.6
M62NP	2.4-3.2 mm	50 mm	42 703 66 22	0.6
M62LP	3.2-4.0 mm	50 mm	42 703 66 23	0.6
M63SP	1.6-2.4 mm	75 mm	42 703 66 31	0.8
M63NP	2.4-3.2 mm	75 mm	42 703 66 32	0.8
M63LP	3.2-4.0 mm	75 mm	42 703 66 33	0.8

- Barred Fasteners

- Box does not include Connecting Pins

Please see pages 51 -52 for Connecting Pins



## Low Profile Fasteners M60L

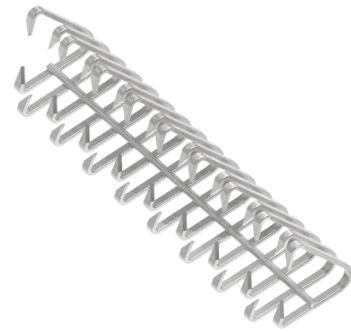
Extra Flat Design, Pitch 2.54 mm, Welded on Barred Wire

Description	Belt Thickness	Min. Drum Dia.	Order No.	kg
-------------	----------------	----------------	-----------	----

**Stainless Steel 316L (SS), Strip Length 300 mm**

Box Content : 12 Strips

M61LXSP	0.8-1.6 mm	25 mm	42 714 26 10	0.2
M61LSP	1.6-2.4 mm	25 mm	42 714 26 11	0.2
M62LXSP	0.8-1.6 mm	50 mm	42 714 26 20	0.2
M62LSP	1.6-2.4 mm	50 mm	42 714 26 21	0.2
M62LNP	2.4-3.2 mm	50 mm	42 714 26 22	0.2



**Chromium Steel 430 (S), Strip Length 300 mm**

Box Content : 12 Strips

M61LXSP	0.8-1.6 mm	25 mm	42 713 26 10	0.2
M61LSP	1.6-2.4 mm	25 mm	42 713 26 11	0.2
M62LXSP	0.8-1.6 mm	50 mm	42 713 26 20	0.2
M62LSP	1.6-2.4 mm	50 mm	42 713 26 21	0.2
M62LNP	2.4-3.2 mm	50 mm	42 713 26 22	0.2

- Material: Stainless Steel 316L (1.4404)  
Chromium Steel 430 (1.4016)
- Belt Thickness: 0.8 - 3.2 mm
- Pitch: 2.54 mm
- Wire Dimension: 0.9 x 0.5 mm
- Barred Fasteners
- Box does not include Connecting Pins

## Rectangular Wire Fasteners M70

Pitch 3.175 mm, Welded on Barred Wire

Description	Belt Thickness	Min. Drum Dia.	Order No.	kg
-------------	----------------	----------------	-----------	----

**Stainless Steel 316L (SS), Strip Length 300 mm**

Box Content : 12 Strips

M74XSW	2.0-3.0 mm	100 mm	42 754 27 90	0.6
M74SW	3.0-4.0 mm	100 mm	42 754 27 91	0.6
M74NW	4.0-5.0 mm	100 mm	42 754 27 92	0.6



**Stainless Steel 316L (SS), Strip Length 600 mm**

Box Content : 10 Strips

M74XSW	2.0-3.0 mm	100 mm	42 754 57 90	0.9
M74SW	3.0-4.0 mm	100 mm	42 754 57 91	0.9
M74NW	4.0-5.0 mm	100 mm	42 754 57 92	0.9

- Material: Stainless Steel 316L (1.4404)
- Belt Thickness: 1.0 - 5.0 mm
- Pitch: 3.175 mm
- Wire Dimension: 1.2 x 1.0 mm
- Barred Fasteners
- Box does not include Connecting Pins

Please see pages 51 -52 for Connecting Pins

# Round Wire Fasteners R70

Standard Design, Pitch 3.175 mm, Welded on Barred Wire

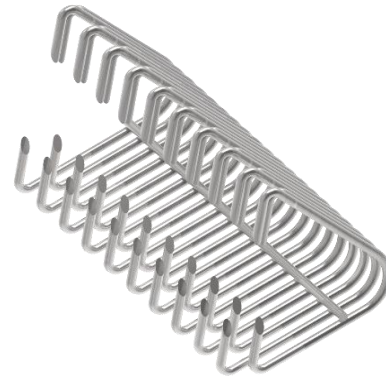
Description	Belt Thickness	Min. Drum Dia.	Order No.	kg
-------------	----------------	----------------	-----------	----

**Stainless Steel 316L (SS), Strip Length 300 mm**  
 Box Content : 12 Strips

R72SW	2.0-3.0 mm	50 mm	42 704 17 21	0.3
R72NW	3.0-4.0 mm	50 mm	42 704 17 22	0.4
R73LSW	2,0-3,0 mm	75 mm	42 774 27 31	0.4
R73LNW	3,0-4,0 mm	75 mm	42 774 27 32	0.5
R73LLW	4,0-5,0 mm	75 mm	42 774 27 33	0.5

**Stainless Steel 316L (SS), Strip Length 600 mm**  
 Box Content : 10 Strips

R72SW	2.0-3.0 mm	50 mm	42 704 57 21	0.6
R72NW	3.0-4.0 mm	50 mm	42 704 57 22	0.6
R73LSW	2,0-3,0 mm	75 mm	42 774 57 31	0.8
R73LNW	3,0-4,0 mm	75 mm	42 774 57 32	0.8
R73LLW	4,0-5,0 mm	75 mm	42 774 57 33	0.8



- Material: Stainless Steel 316L (1.4404)
- Belt Thickness: 2.0 - 4.0 mm
- Pitch: 3.175 mm
- R72 = Wire Diameter 1.0 mm
- R73 = flattened round wire 0.9x1,05 mm

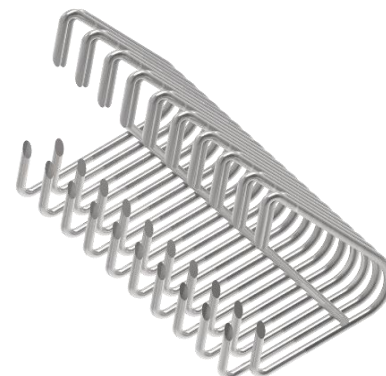
- Barred Fasteners
- Box does not include Connecting Pins

**Chromium Steel 430 (S), Strip Length 300 mm**  
 Box Content : 12 Strips

R72SW	2.0-3.0 mm	50 mm	42 703 17 21	0.3
R72NW	3.0-4.0 mm	50 mm	42 703 17 22	0.4
R73LSW	2,0-3,0 mm	75 mm	42 773 27 31	0.4
R73LNW	3,0-4,0 mm	75 mm	42 773 27 32	0.5
R73LLW	4,0-5,0 mm	75 mm	42 773 27 33	0.5

**Chromium Steel 430 (S), Strip Length 600 mm**  
 Box Content : 10 Strips

R72SW	2.0-3.0 mm	50 mm	42 703 57 21	0.6
R72NW	3.0-4.0 mm	50 mm	42 703 57 22	0.6
R73LSW	2,0-3,0 mm	75 mm	42 773 57 31	0.8
R73LNW	3,0-4,0 mm	75 mm	42 773 57 32	0.8
R73LLW	4,0-5,0 mm	75 mm	42 773 57 33	0.8



- **Material:** Chromium Steel 430 (1.4016)
- Belt Thickness: 2.0 - 4.0 mm
- Pitch: 3.175 mm
- R72 = Wire Diameter 1.0 mm
- R73 = flattened round wire 0.9x1,05 mm

- Barred Fasteners
- Box does not include Connecting Pins

Please see pages 51 -52 for Connecting Pins

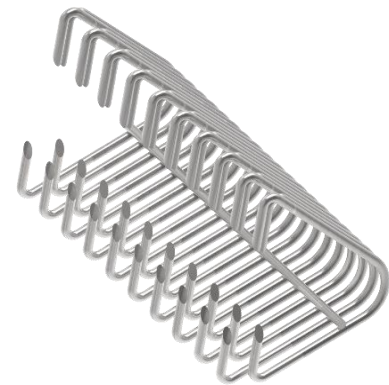
# Round Wire Fasteners R80

Standard Design, Pitch 3.67 mm, Welded on Barred Wire

Description	Belt Thickness	Min. Drum Dia.	Order No.	kg
-------------	----------------	----------------	-----------	----

**Stainless Steel 316L (SS), Strip Length 300 mm**  
Box Content : 12 Strips

R82	3.0-4.0 mm	50 mm	42 704 18 22	0.5
R83	4.0-5.0 mm	75 mm	42 704 18 32	0.6
R84	5.0-6.0 mm	100 mm	42 704 18 42	0.7
R85	6.0-8.0 mm	125 mm	42 704 18 52	0.8
R86	8.0-9.0 mm	150 mm	42 704 18 62	0.9



**Stainless Steel 316L (SS) Strip Length 600 mm**  
Box Content : 10 Strips

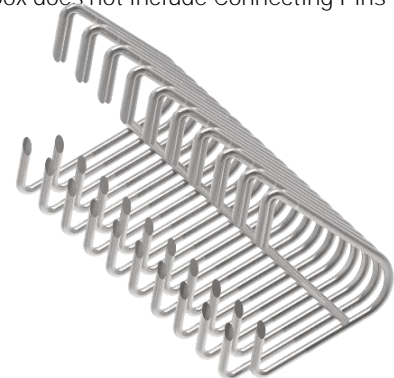
R82	3.0-4.0 mm	50 mm	42 704 58 29	1.0
R83	4.0-5.0 mm	75 mm	42 704 58 32	1.2
R84	5.0-6.0 mm	100 mm	42 704 58 42	1.4
R85	6.0-8.0 mm	125 mm	42 704 58 52	1.6
R86	8.0-9.0 mm	150 mm	42 704 58 62	1.8

- Material: Stainless Steel 316L (1.4404)
- Belt Thickness: 3.0 - 9.0 mm
- Pitch: 3.67 mm
- Wire Diameter: 1.4 mm

**Chromium Steel 430 (S), Strip Length 300 mm**  
Box Content : 12 Strips

R82	3.0-4.0 mm	50 mm	42 703 18 22	0.5
R83	4.0-5.0 mm	75 mm	42 703 18 32	0.6
R84	5.0-6.0 mm	100 mm	42 703 18 42	0.7
R85	6.0-8.0 mm	125 mm	42 703 18 52	0.8
R86	8.0-9.0 mm	150 mm	42 703 18 62	0.9

- Barred Fasteners
- Box does not include Connecting Pins



**Chromium Steel 430 (S), Strip Length 600 mm**  
Box Content : 10 Strips

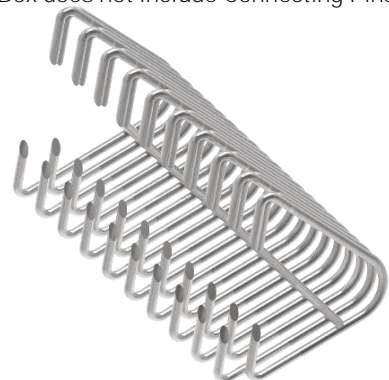
R82	3.0-4.0 mm	50 mm	42 703 58 22	1.0
R83	4.0-5.0 mm	75 mm	42 703 58 32	1.2
R84	5.0-6.0 mm	100 mm	42 703 58 42	1.4
R85	6.0-8.0 mm	125 mm	42 703 58 52	1.6
R86	8.0-9.0 mm	150 mm	42 703 58 62	1.8

- Material: Stainless Chromium Steel 1.4016 (S)
- Belt Thickness: 3.0 - 9.0 mm
- Pitch: 3.67 mm
- Wire Diameter: 1.4 mm

**Special Steel (C), Strip Length 300 mm**  
Box Content : 12 Strips

R82	3.0-4.0 mm	50 mm	42 707 18 22	0.6
R83	4.0-5.0 mm	75 mm	42 707 18 32	0.7
R84	5.0-6.0 mm	100 mm	42 707 18 42	0.8
R85	6.0-8.0 mm	125 mm	42 707 18 52	0.9
R86	8.0-9.0 mm	150 mm	42 707 18 62	1.0

- Barred Fasteners
- Box does not include Connecting Pins



**Special Steel (C), Strip Length 600 mm**  
Box Content : 10 Strips

R82	3.0-4.0 mm	50 mm	42 707 58 22	1.0
R83	4.0-5.0 mm	75 mm	42 707 58 32	1.2
R84	5.0-6.0 mm	100 mm	42 707 58 42	1.4
R85	6.0-8.0 mm	125 mm	42 707 58 52	1.6
R86	8.0-9.0 mm	150 mm	42 707 58 62	1.8

- Material: Special Steel
- Belt Thickness: 3.0 - 9.0 mm
- Pitch: 3.67 mm
- Wire Diameter: 1.4 mm

- Barred Fasteners
- Box does not include Connecting Pins

Please see pages 51 -52 for Connecting Pins

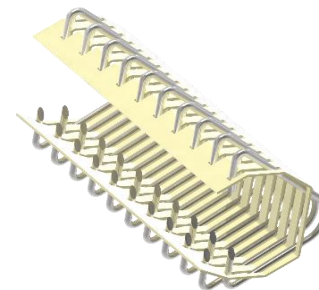
# Round Wire Fasteners R20

Standard Design, Pitch 3.175 mm, Carded

Description	Belt Thickness	Min. Drum Dia.	Order No.	kg
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**Stainless Steel 316L (SS), Strip Length 300 mm**  
 Box Content : 12 Strips

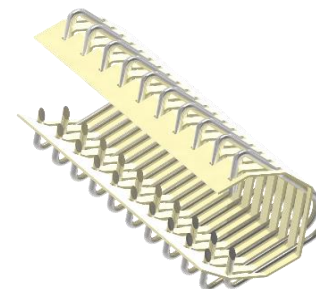
R22SP	2.0-3.0 mm	50 mm	42 104 22 21	0.3
R22NP	3.0-4.0 mm	50 mm	42 104 22 22	0.3
R23SP	2.0-3.0 mm	75 mm	42 104 22 31	0.4
R23NP	3.0-4.0 mm	75 mm	42 104 22 32	0.4



- Material: Stainless Steel 316L (1.4404)
- Belt Thickness: 2.0 - 4.0 mm
- Pitch: 3.175 mm
- Wire Diameter: 1.0 mm
- Carded
- Box does not include Connecting Pins

**Chromium Steel 430 (S), Strip Length 300 mm**  
 Box Content : 12 Strips

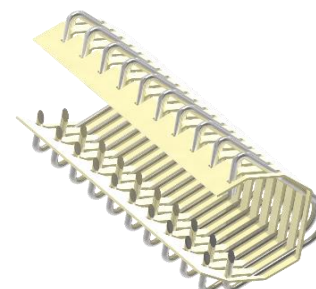
R22SP	2.0-3.0 mm	50 mm	42 103 22 21	0.3
R22NP	3.0-4.0 mm	50 mm	42 103 22 22	0.3
R23SP	2.0-3.0 mm	75 mm	42 103 22 31	0.4
R23NP	3.0-4.0 mm	75 mm	42 103 22 32	0.4



- Material: Chromium Steel 430 (1.4016)
- Belt Thickness: 2.0 - 4.0 mm
- Pitch: 3.175 mm
- Wire Diameter: 1.0 mm
- Carded
- Box does not include Connecting Pins

**Steel, Galvanized (G), Strip Length 300 mm**  
 Box Content : 12 Strips

R22 SP	2.0-3.0 mm	50 mm	42 101 22 21	0.3
R22 NP	3.0-4.0 mm	50 mm	42 101 22 22	0.3
R23 SP	2.0-3.0 mm	75 mm	42 101 22 31	0.4
R23 NP	3.0-4.0 mm	75 mm	42 101 22 32	0.4



- Material: Steel, Galvanized
- Belt Thickness: 2.0 - 4.0 mm
- Pitch: 3.175 mm
- Wire Diameter: 1.0 mm
- Carded

Please see pages 51 -52 for Connecting Pins

# Round Wire Fasteners R30

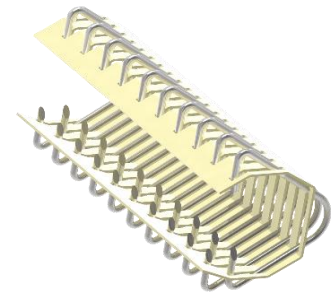
Standard Design, Pitch 3.67 mm, Carded

Description	Belt Thickness	Min. Drum Dia.	Order No.	kg
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**Stainless Steel 316L (SS), Strip Length 300 mm**

Box Content : 12 Strips

R32	3.0-4.0 mm	50 mm	42 104 13 22	0.6
R33	4.0-5.0 mm	75 mm	42 104 13 32	0.6
R34	5.0-6.0 mm	100 mm	42 104 13 42	0.7
R35	6.0-8.0 mm	125 mm	42 104 13 52	0.8
R36	8.0-9.0 mm	150 mm	42 104 13 62	0.9

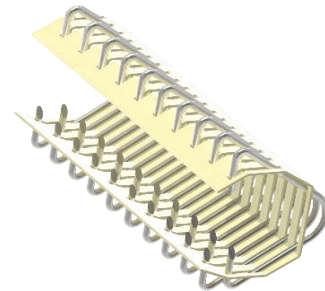


- Material: Stainless Steel 316L (1.4404)
- Belt Thickness: 3.0 - 9.0 mm
- Pitch: 3.67 mm
- Wire Diameter: 1.4 mm
  
- Carded
- Box does not include Connecting Pins

**Chromium Steel 430 (S), Strip Length 300 mm**

Box Content : 12 Strips

R32	3.0-4.0 mm	50 mm	42 103 13 22	0.6
R33	4.0-5.0 mm	75 mm	42 103 13 32	0.6
R34	5.0-6.0 mm	100 mm	42 103 13 42	0.7
R35	6.0-8.0 mm	125 mm	42 103 13 52	0.8
R36	8.0-9.0 mm	150 mm	42 103 13 62	0.9

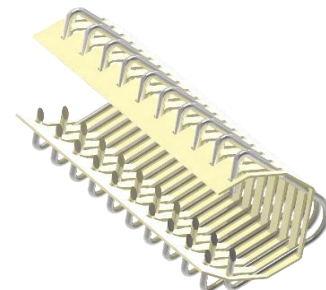


- Material: Chromium Steel 430 (1.4016)
- Belt Thickness: 3.0 - 9.0 mm
- Pitch: 3.67 mm
- Wire Diameter: 1.4 mm
  
- Carded
- Box does not include Connecting Pins

**Steel, Galvanized (G), Strip Length 300 mm**

Box Content : 12 Strips

R32	3.0-4.0 mm	50 mm	42 101 13 22	0.6
R33	4.0-5.0 mm	75 mm	42 101 13 32	0.6
R34	5.0-6.0 mm	100 mm	42 101 13 42	0.7
R35	6.0-8.0 mm	125 mm	42 101 13 52	0.8
R36	8.0-9.0 mm	150 mm	42 101 13 62	0.9



- Material: Steel, Galvanized
- Belt Thickness: 3.0 - 9.0 mm
- Pitch: 3.67 mm
- Wire Diameter: 1.4 mm
  
- Carded
- Box does not include Connecting Pins

Please see pages 51 -52 for Connecting Pins

Description	Pitch (mm)	Order No.	kg
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**Plier Lacer MZ**  
with fixed Fastener Retainer

MZ 50 (Max. press width 60 mm)	1.7	42 050 51 51	1.6
MZ 60 (Max. press width 60 mm)	2.54	42 050 61 63	1.6



The Plier Lacer MZ50 and MZ60, with respective pitches of 1.7 mm and 2.54 mm, are easily used in any location. Belts wider than 60mm can be laced by moving the plier along the belt in steps.

**Lacing Tool MATOLEVER**  
with fixed Fastener Retainer

MATOLEVER 50 (Max. belt width 60 mm)	1.7	42 480 86 50	2.5
MATOLEVER 60 (Max. belt width 60 mm)	2.54	42 480 86 60	2.5

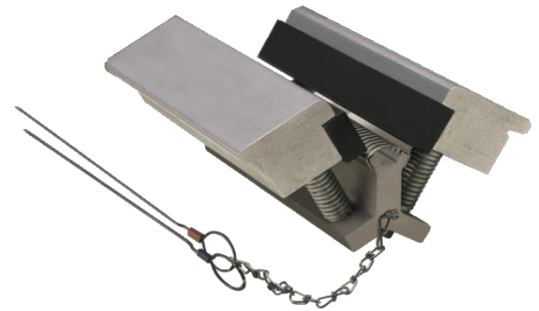


The MATOLEVER 50 and 60, with respective pitches of MATO Fasteners 1.7 mm and 2.54 mm, are designed for easy installation at the laundry machine.

Description	Comb Width	Pitch (mm)	Order No.	kg
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**Eco Vice Lacer MA**  
With fixed Fastener Retainer

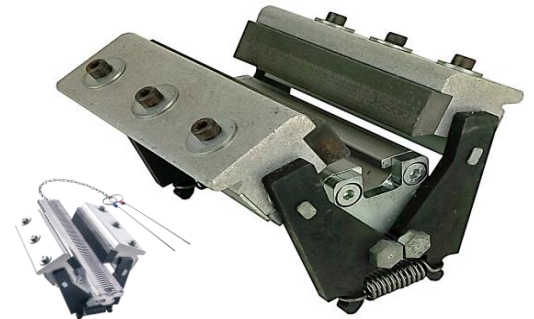
MA50-150	150 mm	1.7	42 150 50 51	1.9
MA60-150	150 mm	2.54	42 150 61 63	1.9
MA60-200	200 mm	2.54	42 200 61 63	2.3
MA20/70-150	150 mm	3.175	42 150 20 70	1.9
MA20/70-200	200 mm	3.175	42 200 20 70	2.3
MA30/80-150	150 mm	3.67	42 150 30 80	1.9
MA30/80-200	200 mm	3.67	42 200 30 80	2.4



The Vice Lacer MA is a budget-priced tool that can be used for widths of 150 or 200 mm. Since the retainer is fixed, each pitch requires a separate lacer.

**Profi Vice Lacer MATOVICE**  
Without Fastener Retainer UNICOMB

MATOVICE 120 (Max. press width 120 mm)			42 120 00 00	2.3
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The patented Vice Lacer MATOVICE is designed for a perfect installation. This special jaw construction achieves an optimum installation pressure, resulting in maximum holding power. The Fastener Retainer (not included) can be replaced if different pitches are required. All Fastener Retainers (Universal Comb UNICOMB) can be used.

**Fastener Combs UNICOMB VH for Profi-Vice Lacers**  
Comb Width 300 mm

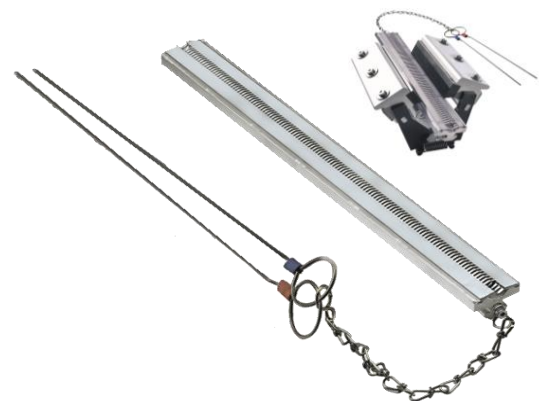
UNICOMB 50-300VH	1.7		42 480 11 80	0.5
UNICOMB 60-300VH	2.54		42 480 11 50	0.5
UNICOMB 20/70-300VH	3.175		42 480 11 30	0.5
UNICOMB 30/80-300VH	3.67		42 480 11 10	0.5
UNICOMB 35/85-300VH	3.67		42 480 11 20	0.5
UNICOMB D70/71-300VH	4		42 480 10 60	0.5
UNICOMB D72/73-300VH	4		42 480 10 70	0.5

Note :

UNICOMB 30/80 for Belt Fastener R32, R33, R34, R82, R83, R84

UNICOMB 35/85 for Belt Fastener R35, R36, R85, M74

UNICOMB D70/71 and D72/73 for Belt Fastener D70, D71, D72, D73 (see page 67)



The exchangeable Comb UNICOMB is designed so that all comb sizes can be used alternately with tools MATOVICE or HYDVICE. They can be exchanged without tools. Wider belts are easily installed in multiple steps. The standard comb width is 300 mm.

Description	Comb Width	Pitch (mm)	Order No.	kg
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**Lacing Tool MATOROLL**  
Without Fastener Retainer (Universal Comb UNICOMB)

MATOROLL 600 for comb width 600mm			42 280 20 00	14.2
MATOROLL 1000 for comb width 1000mm			42 280 50 00	20.2
MATOROLL 1500 for comb width 1500mm			42 280 00 00	27.7



The MATOROLL Lacer installs the fasteners by applying the installation pressure in stages until the fastener is fully embedded. Choice of combs are available, purchased separately.

**Fastener Comb UNICOMB RH for Lacing Tool MATOROLL**  
Comb Width 600 mm

UNICOMB 50-600RH	1.7		42 480 21 80	0.9
UNICOMB 60-600RH	2.54		42 480 21 50	0.9
UNICOMB 20/70-600RH	3.175		42 480 21 30	0.9
UNICOMB 30/80-600RH	3.67		42 480 21 10	0.9
UNICOMB 35/85-600RH	3.67		42 480 21 20	0.9
UNICOMB D70/71-600RH	4		42 480 30 60	0.9
UNICOMB D72/73-600RH	4		42 480 30 70	0.9



**Comb Width 1000 mm**

UNICOMB 50-1000RH	1.7		42 480 41 80	1.5
UNICOMB 60-1000RH	2.54		42 480 41 50	1.5
UNICOMB 20/70-1000RH	3.175		42 480 41 30	1.5
UNICOMB 30/80-1000RH	3.67		42 480 41 10	1.5
UNICOMB 35/85-1000RH	3.67		42 480 41 20	1.5
UNICOMB D70/71-1000RH	4		42 480 51 60	1.5
UNICOMB D72/73-1000RH	4		42 480 51 70	1.5

The exchangeable UNICOMB is designed so all comb sizes can be used alternately with the tools MATOVICE or HYDVICE. They can be exchanged without tools. Wider belts are easily installed in multiple steps. The standard comb width is 300 mm.

**Comb Width 1500 mm**

UNICOMB 50-1500RH	1.7		42 480 61 80	2.2
UNICOMB 60-1500RH	2.54		42 480 61 50	2.2
UNICOMB 20/70-1500RH	3.175		42 480 61 30	2.2
UNICOMB 30/80-1500RH	3.67		42 480 61 10	2.2
UNICOMB 35/85-1500RH	3.67		42 480 61 20	2.2
UNICOMB D70/71-1500RH	4		42 480 60 60	0.5
UNICOMB D72/73-1500RH	4		42 480 60 70	0.5

Note :

UNICOMB 30/80 for Belt Fastener R32, R33, R34, R82, R83, R84

UNICOMB 35/85 for Belt Fastener R35, R36, R85, R86, M74

UNICOMB D70/71 and D72/73 for Belt Fastener D70, D71, D72, D73 (see page 67)



Description	Comb Width	Order No.	kg
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**Hydraulic Installation Machines**

Hydr. Installation Machine 200M-1  
400V / 50Hz / 3Phases  
1,17 l/min, 500 bar

42 200 00 24

50.0

Hydr. Installation Machine 200M-2  
230V / 60Hz / 3Phases  
1,17 l/min, 500 bar

42 200 00 25

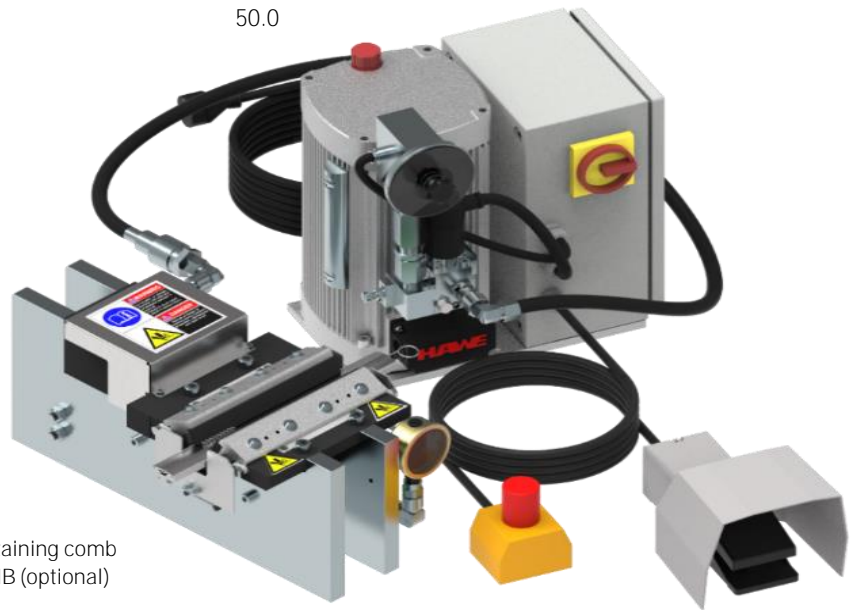
50.0

Hydr. Installation Machine 200M-3  
230V / 50Hz / 1Phase  
0,8 l/min, 500 bar

42 200 00 26

50.0

Hydraulic Power Unit PA 200-...



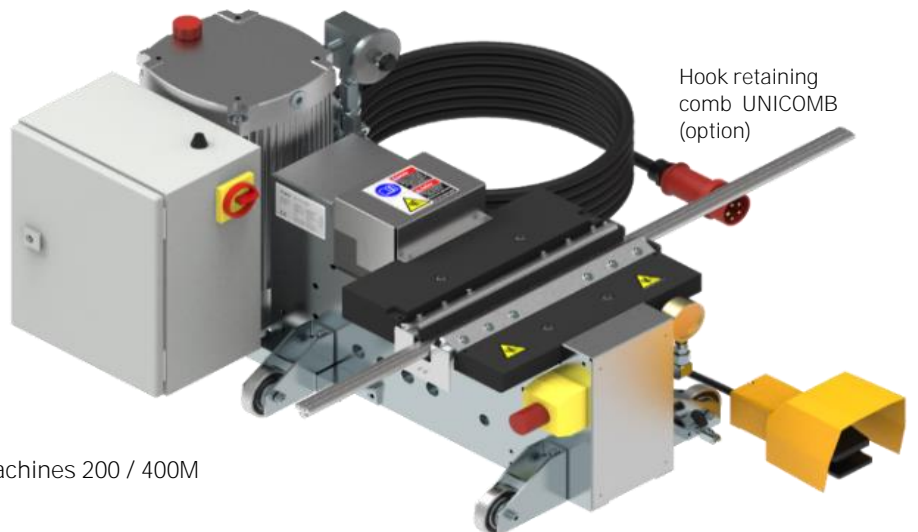
Hook retaining comb UNICOMB (optional)

Hydr. Installation Machine 400M-1  
3,2 l/min, 400V / 50Hz / 3Phases  
500 bar

42 200 00 27

250.0

The hydraulic installation machines 200 / 400M are used for high-quality and economical patch splices. All belt widths can be processed with these machines, if necessary by repeated application. Installation Machines with program control (touch screen) are also available on request.



Hook retaining comb UNICOMB (option)

Hook retaining combs UNICOMB for Installation Machines 200 / 400M  
see page 48 / 49

The MATO Connecting Pins are aligned in design and material composition to the MATO Fasteners. Choosing the right Connecting Pin is important for reaching the optimum performance of the splice in your application.

## Connecting Pin Sizes

Fastener						
M51.2SW	R22SP	R22NP				
M51.2NW	R23SP	R23NP				
M61LXSP	M62NP					
M61XSP	M62LP					
M61LSP	M62LNP					
M61SP		R32	R33	R34	R35	R36
M62LXSP	R72SW	R72NW				
M62XSP						
M62LSP	R73LSW	R73LNP				
M62SP		R73LLW				
	M63NP					
	M63LP					
		M74NW				
M74XSW	M74SW	M74LW				
		R82	R83	R84	R85	R86
Connecting Pin						
MK15...	MK18...	MK20...	MK25...	MK30...	MK35...	MK40...
Ø 1,5 mm	Ø 1,8 mm	Ø 2,0 mm	Ø 2,5 mm	Ø 3,0 mm	Ø 3,5 mm	Ø 4,0 mm
Comb Pin						
Ø 1,7 mm	Ø 2,0 mm	Ø 2,6 mm			2,6 x 3,6 mm	

## Choosing the Connecting Pin Type

Verbindestabtyp	Kurzform	Pin Wear Properties	Fastener Wear Properties	Chemical Resistency	Temperature Consistency	Magnetic	Flexibility
Nyl.ummantelter Federstahldraht	NST	●●●●●	●●●●●	●●○○○	●●○○○	stark	●●●●○
Nyl.ummantelter Edelstahldraht	NSS	●●●●●	●●●●●	●●●●○	●●○○○	schwach	●●●●○
Nylonrundmaterial	NY	●●●●●	●●●●●	●●●●●	●●○○○	nicht	●●●●●
Nyl.rundmaterial, geprägt	NYN	●●●●●	●●●●●	●●●●●	●●○○○	nicht	●●●●●
Edelstahldraht	WSS	●●●○○	●●●○○	●●●●○	●●●●●	schwach	●○○○○
Edelstahldraht, geprägt	WSSN	●●●●●	●●●○○	●●●●○	●●●●●	schwach	●○○○○
Nyl.ummanteltes Stahldrahtseil	NC	●●●●●	●●●●●	●●●○○	●●○○○	stark	●●●●○
Nyl.ummanteltes Edelstahlseil	NCS	●●●●●	●●●●●	●●●●○	●●○○○	schwach	●●●●○
PEEK-Rundmaterial	PE*	●●●●●	●●●●●	●●●●●	●●●●○	nicht	●●●●●
PEEK-Rd., geprägt	PEN*	●●●●●	●●●●●	●●●●●	●●●●○	nicht	●●●●●

poor ○○○○○

excellent ●●●●●

\* upon request resp. see page 33

Description	Pin Dia. (mm)	Order No.	kg
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**Connecting Pins MK - Nylon Steel NST**

MK15 NST	1.5	42 501 01 50	0.3
MK18 NST	1.8	42 501 01 80	0.3
MK20 NST	2.0	42 501 02 00	0.3
MK25 NST	2.5	42 501 02 50	0.6
MK30 NST	3.0	42 501 03 00	0.9
MK35 NST	3.5	42 501 03 50	1.0
MK40 NST	4.0	42 501 04 00	1.2

Connecting Pins MK - 30 Meter Coil



**Connecting Pins MK - Nylon Stainless NSS**

MK15 NSS	1.5	42 502 01 50	0.3
MK18 NSS	1.8	42 502 01 80	0.3
MK20 NSS	2.0	42 502 02 00	0.3
MK25 NSS	2.5	42 502 02 50	0.6
MK30 NSS	3.0	42 502 03 00	0.9
MK35 NSS	3.5	42 502 03 50	1.0
MK40 NSS	4.0	42 502 04 00	1.2

**Connecting Pins MK - Solid Nylon NY**

MK15 NY	1.5	42 503 01 50	0.1
MK18 NY	1.8	42 503 01 80	0.1
MK20 NY	2.0	42 503 02 00	0.1
MK25 NY	2.5	42 503 02 50	0.2
MK30 NY	3.0	42 503 03 00	0.2
MK35 NY	3.5	42 503 03 50	0.3
MK40 NY	4.0	42 503 04 00	0.4

**Connecting Pins MK - Nylon Cable NC**

MK15 NC	1.5	42 504 01 50	0.2
MK18 NC	1.8	42 504 01 80	0.2
MK20 NC	2.0	42 504 02 00	0.3
MK25 NC	2.5	42 504 02 50	0.4
MK30 NC	3.0	42 504 03 00	0.7

**Connecting Pins MK - Nylon Cable Stainless NCS**

MK15 NCS	1.5	42 505 01 50	0.2
MK20 NCS	2.0	42 505 02 00	0.3
MK25 NCS	2.5	42 505 02 50	0.4
MK30 NCS	3.0	42 505 03 00	0.7
MK35 NCS	3.5	42 505 03 50	0.7
MK40 NCS	4.0	42 505 04 00	0.8

**Connecting Pins MK - Wire Stainless WSS**

MK15 WSS	1.5	42 507 01 50	0.4
MK18 WSS	1.8	42 507 01 80	0.6
MK20 WSS	2.0	42 507 02 00	0.7
MK25 WSS	2.5	42 507 02 50	1.2

Other sizes in different materials are available on request.  
See page 33.