

Catalogue - Issue 16



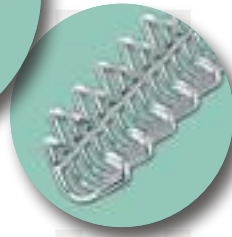
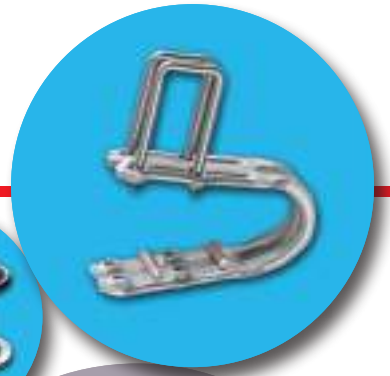
Belt Lacing Systems for
Light Tensile Conveyor Belts up to 750 kN/m



Technology in Motion



Belt Maintenance



MATO Belt Maintenance Products:

Best Splices and Effective Cleaning

The MATO Belt Maintenance Equipment Division manufactures and distributes products for different applications. Belt Lacing Systems for the heavy duty industry such as coal, ore, gravel, sand, and Light Duty Belt Maintenance Systems for airports, agriculture, food industry, filter and laundry. For both ranges we manufacture and offer a wide, efficient and fastener friendly Cleaner programme.

MATO Research and Development ensures the availability of the most economical and the safest Belt Fasteners and Belt Cleaners. We guarantee that we will solve your conveying tasks with our products at best service.



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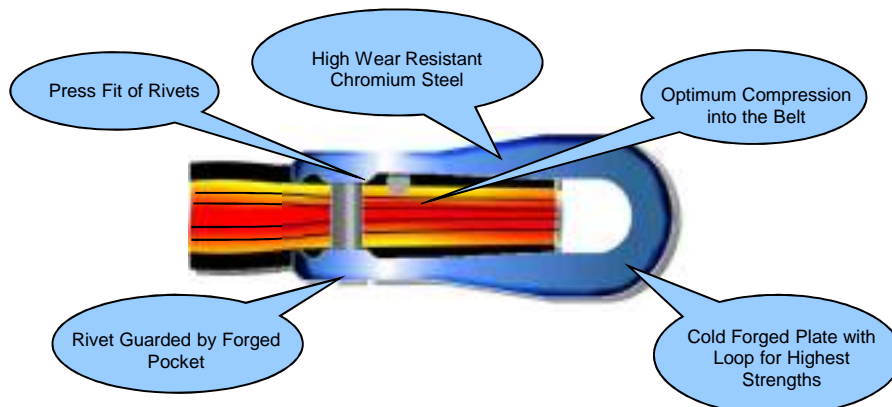


The High Performance Fasteners **U24** and **H24** have been developed for very high wear applications such as spliced belts used in **Round Balers**. They are proven to be the highest performing splice on the market due to high strength and long splice life and will perform equally well in other applications.

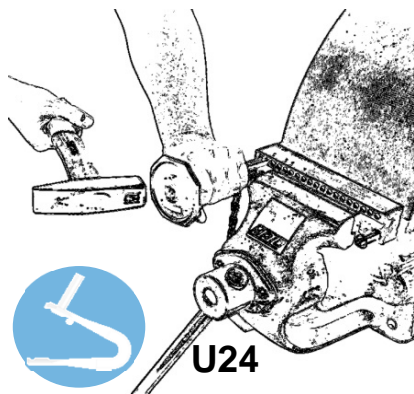
Note:

The **U24 fastener** is suitable for belts in the range of 4 - 7 mm thickness.

The **H24 fastener** is only suitable for belts in the range of 5 - 6 mm thickness.



The U24 is installed in the belt using a vice lacer and the H24 is installed using a hammer lacer. The MATO fastener features resulting in high durability are highlighted below. The method of installation of the U24 and H24 fasteners are two separate systems described below.

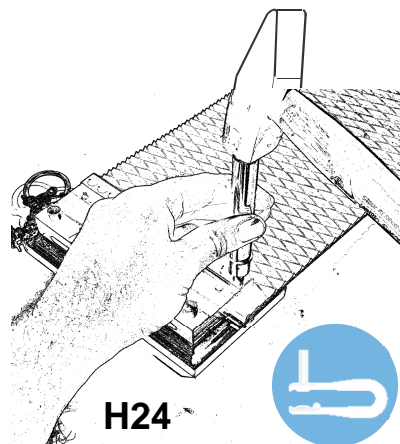


High Performance Fastener U24
(A Bench Vice and MATO U24 Vice Lacer are required)

The U24 fastener is designed specially to be installed with a vice tool as seen above.

The rivets can be installed using a hammer and hand punch or alternatively with a pneumatic hammer and punch.

For volume lacing a pneumatic-hydraulic Vice Lacer (Power-Vice 25) is available. For even higher volume lacing an automatic state of the art electro hydraulic (HEM) lacing machine is available.



High Performance Fastener H24
(A MATO H24 Hammer Lacer is required)

With this system there is no requirement for a vice at the work place. The MATO hammer lacer just requires a flat level base for installation. The fasteners are slightly pre-bent for ease of installation.

The lacer can be used for multi step lacing for wider belts or alternatively the hammer lacer is offered in different widths.

Selection Chart for Fasteners and Pins

Belt Width	Installation with Vice Lacer			Installation with Hammer Lacer	Length of Connecting Pin	Number of Fasteners per Strip	
	Belt Thickness			Belt Thickness			
	4 - 5 mm *	5 - 6 mm *	6 - 7 mm *	5 - 6 mm			
	Strip Length of Fastener (mm)						
155 - 165 mm		132			142 mm	12	
177 - 187 mm**		154**		154**	165 mm**	14**	
188 - 198 mm	165	165	165	165	175 mm	15	
210 - 220 mm		187	187	187	197 mm	17	
221 - 231 mm	198	198	198	198	208 mm	18	
276 - 286 mm		253	253	253	265 mm	23	
298 - 308 mm		275		275	286 mm	25	
353 - 363 mm				330	341 mm	30	
Fastener Type	U24 AS	U24 BS	U24 CS	H24 BS			
Belt Strength	up to 450 kN/m						
Min. Pulley dia.	75 mm						
	Strips can easily be shortened to suit variation in belt width						

Example:
High Performance Fastener H24 BS
Strip length 175 mm
15 Fasteners



Other strip lengths available on request (minimum order 5 boxes)

Note :

The distance from the belt edge to the fastener at each end must be a minimum 10mm and the sum of the edge distances must not exceed 35mm.

Strips can easily be shortened to suit variation in belt width
(Width each fastener = 11 mm)

* Please contact us for advice if your belt thickness is outside the above range.

** Only available from John Deere
Parts Distribution Center

Strip Length	Packing Unit	Belt Thickness	Order No.	kg
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Belt Fastener U24AS, without Connecting Pin
 Belt Strength up to 450kN/m Minimum Pulley Diameter 75 mm

165 mm	12	4.0 - 5.0 mm	41 114 24 05	0.9
198 mm	10	4.0 - 5.0 mm	41 114 24 13	0.9

Belt Fastener U24BS, without Connecting Pin
 Belt Strength up to 450kN/m Minimum Pulley Diameter 75 mm

132 mm	12	5.0 - 6.0 mm	41 114 24 14	0.7
165 mm	12	5.0 - 6.0 mm	41 114 24 01	0.9
187 mm	10	5.0 - 6.0 mm	41 129 59 37	0.9
198 mm	10	5.0 - 6.0 mm	41 114 24 15	0.9
253 mm	8	5.0 - 6.0 mm	41 129 59 15	0.9
275 mm	8	5.0 - 6.0 mm	41 114 24 16	1.0

Belt Fastener U24CS, without Connecting Pin
 Belt Strength up to 450kN/m Minimum Pulley Diameter 75 mm

165 mm	12	6.0 - 7.0 mm	41 114 24 06	0.9
187 mm	10	6.0 - 7.0 mm	41 129 61 20	0.9
198 mm	10	6.0 - 7.0 mm	41 114 59 16	0.9
253 mm	8	6.0 - 7.0 mm	41 129 69 22	0.9



Rivets: **Stainless Steel 304**
 Plate Material: **Chromium Steel 430**

- High compression in the belt
- Rivets are a press fit rivets in the plate.
- Cold forged plate and loops for highest strengths
- High wear resistance and long life properties

Packing Units:

e. g. PU 10 includes 10 strips of fasteners. Strip length can easily be shortened.

Belt Fastener U24AS, with Connecting Pin T1F (Dia. 3.0 mm)
 Belt Strength up to 450kN/m Minimum Pulley Diameter 75 mm

165 mm	12+	4.0 - 5.0 mm	41 114 24 02	1.0
198 mm	10+	4.0 - 5.0 mm	41 114 24 12	1.0

Belt Fastener U24BS, with Connecting Pin T2F (Dia. 3.4 mm)
 Belt Strength up to 450kN/m Minimum Pulley Diameter 75 mm

132 mm	12+	5.0 - 6.0 mm	41 114 24 09	0.8
165 mm	12+	5.0 - 6.0 mm	41 114 24 00	1.0
187 mm	10+	5.0 - 6.0 mm	41 129 60 55	0.9
198 mm	10+	5.0 - 6.0 mm	41 114 24 07	1.0
253 mm	8+	5.0 - 6.0 mm	41 114 24 18	1.0
275 mm	8+	5.0 - 6.0 mm	41 114 24 19	1.1







Material of Connecting Pin:
Notched Spring Steel

Fasteners: as described above

Packing Units:

e.g. PU 10+ includes 10 strips of fasteners + 5 connecting pins.
 Strip length can easily be shortened.

See pages 6 - 7 for Accessories and pages 14 - 15 for additional Connecting Pins.

Description	Width	Order No.	kg	
U24 Vice Lacer Profi				
Profi 5 incl. Punch	55 mm	41 129 58 82	2.9	 <p>Vice Lacer Profi 5</p>
Profi 7 incl. Punch	77 mm	41 129 58 70	3.3	<p>Each of the vice tools are supplied with hand punch. The lacers are designed for use in a bench vice, the 5 hole will install 5 hooks at a time and the 7 hole will install 7 hooks at a time. In order to install a splice up to 17 fasteners (187 mm), the full belt width is installed in four steps using the 5 hole version, three steps using the 7 hole version, and one step using the 19 hole version.</p>
Profi 19 incl. Punch	209 mm	41 129 58 17	5.6	
Rivet Flattening Bar for Profi 19 (optional)	209 mm	41 129 80 08	0.2	 <p>Vice Lacer Profi 19</p> <p>Rivet Flattening Bar</p> <p>A Rivet Flattening Bar can be mounted to the Profi19 and Profi 25 optionally. This way, the rivet heads can be flattened after the installation with the Vice Lacer.</p>
U24 Installation Units				
Profi 25 incl. Punch	275 mm	41 129 58 49	6.8	 <p>Installation Unit Profi 25</p> <p>Rivet Flattening Bar (optional) please see Profi 19</p> <p>Profi 25 can hold up to 25 Fastener segments (275 mm strip length) .</p>
Rivet Flattening Bar for Profi 25 (optional)	275 mm	41 129 80 07	0.3	
Hydraulic Installation Units U24 / pneumatic Drive				
POWER-VICE 25 (Hydraulic Installation)	275 mm	41 129 58 18	50.0	 <p>Installation Unit POWERVICE 25 replaces the conventional Vice by means of a pneumatically driven Hydraulic Power Pack (minimum 4 bar air pressure necessary).</p> <p>Belt Fasteners U24 are pressed onto the belt directly during the pneumatic closing movement. Then the rivets can be punched using a Pneumatic Hammer. The splice is completed by pivoting the Rivet Flattening Bar and by repeated punching with the Pneumatic Hammer. This installation tool can hold up to 25 Fastener segments (275 mm strip length).</p>

The Electro Hydraulic Lacer (HEM) is recommended for high volume lacing.

Description	Order No.	kg
U24 Belt Lacing Kit		
Profi Belt Lacing Kit U24	41 129 58 26	10.0 <div data-bbox="1002 230 1477 801" data-label="Image"> </div> <p data-bbox="979 819 1299 846">Profi Belt Lacing Kit consists of:</p> <ul data-bbox="979 869 1437 1014" style="list-style-type: none"> - Vice Lacer Profi 19 - Belt Skiver 18 - Pneumatic Hammer with Punch - 1 box Belt Fastener U24BS (12 Strips 65mm each, and 6 Connecting Pins) - Plastic Case
More Accessories U24		
Punch U24 (Spare)	41 129 58 25	0.4 <div data-bbox="1059 1077 1501 1294" data-label="Image"> </div>
Belt Skiver 18 Skiving Width 18 mm, with double sided blade	41 129 58 27	1.0 <div data-bbox="1023 1361 1485 1653" data-label="Image"> </div>
Spare Blade GH18 for Belt Skiver 18 (PU5) with double sided blade	41 129 58 28	0.03 <div data-bbox="1007 1599 1182 1697" data-label="Image"> </div>
Hammer 05 (500g, for U24 Splices)	44 121 02 03	0.6 <div data-bbox="991 1823 1517 2085" data-label="Image"> </div> <p data-bbox="970 1720 1517 1823">One pass with the adjustable Belt Skiver 18 reduces the belt cover leaving 5-6 mm of belt thickness. The adjustable Hold-down Device allows processing even worn belts up to a maximum of 10 mm belt thickness.</p>

Strip Length	PU	Belt Thickness	Order No.	kg
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Belt Fastener H24BS, without Connecting Pin
 Belt Strength up to 450kN/m Minimum Pulley Diameter 75 mm

165 mm	12	5.0 - 6.0 mm	41 115 24 01	0.9
187 mm	10	5.0 - 6.0 mm	41 115 24 06	0.9
198 mm	10	5.0 - 6.0 mm	41 115 24 07	0.9
253 mm	8	5.0 - 6.0 mm	41 115 24 08	0.9
275 mm	8	5.0 - 6.0 mm	41 115 24 09	1.0
330 mm	6	5.0 - 6.0 mm	41 115 24 02	0.9



Rivets: **Stainless Steel 304**
 Plate Material: **Chromium Steel 430**

- High compression in the belt
- Rivets are a press fit rivets in the plate.
- Cold forged plate and loops for highest strengths
- High wear resistance and long life properties

Packing Units:
 e. g. PU 10 includes 10 strips of fasteners. Strip length can easily be shortened.

Belt Fastener H24BS, with Connecting Pin (Dia. 3.4 mm)
 Belt Strength up to 450kN/m Minimum Pulley Diameter 75 mm




165 mm	12+	5.0 - 6.0 mm	41 115 24 00	1.0
187 mm	10+	5.0 - 6.0 mm	41 115 24 12	0.9
198 mm	10+	5.0 - 6.0 mm	41 115 24 10	1.0
253 mm	8+	5.0 - 6.0 mm	41 115 24 11	1.0
275 mm	8+	5.0 - 6.0 mm	41 115 25 15	1.1
330 mm	6+	5.0 - 6.0 mm	41 115 24 03	1.0








Material of Connecting Pin:
Notched Spring Steel


Fasteners: as described above

Packing Units:
 e.g. PU 10+ includes 10 strips of fasteners + 5 Connecting Pins.
 Strip length can easily be shortened.

Description	Working Width	Order No.	kg
H24 Profi Hammer Tools + Accessories			
Profi 180	180 mm	41 129 69 61	4.2
Profi 350	350 mm	41 129 69 62	6.8
Profi 500	500 mm	41 129 69 65	9.6
Profi 1000	1000 mm	41 129 70 10	17.5
			<p>H24 Profi Hammer Tool "Profi 350"</p> <p>incl. Guide Block Profi 180-H24 and Punch H24 Profi (Standard for all sizes)</p>  <p>The H24 Profi Hammer Tool can be used in the field on a work bench or a flat base on the ground.</p> <p>Designed for volume users such as dealers. A splice width of up to 350mm.</p> <p>The rivets can be inserted with a hammer (300g) or a pneumatic hammer. Wider belts can be installed in multi steps.</p>
Guide Block Profi 180-H24		41 129 70 00	1.1
Guide Block Profi 330-H24 for 330 mm strip length (no image)		41 129 70 11	2.2
			 <p>Guide Block Profi 180-H24 (Standard)</p> <p>The Guide Block Profi 180-H24 is common to all Profi tools. Max. 15 fasteners (165mm strip length) can be inserted into the holes. An optional Guide Block Profi 330-H24 is available for max. 30 fasteners (330mm strip length).</p>
Punch H24 Profi (Spare)		41 129 69 74	0.4
			

Description	Width	Order No.	kg
H24 Eco Hammer Tools + Accessories			
Eco 180	180 mm	41 129 69 63	3.6
Eco 350	350 mm	41 129 69 64	6.2
 <p>H24 Eco Hammer Tool "Eco 350"</p> <p>incl. Guide Block Eco 180-H24 and Punch H24 "Eco"</p> <p>A splice width of up to 180mm. Installation can either be performed with a hammer or pneumatic hammer. Belts can be spliced at the baler. A user friendly tool for the farmer to use.</p> <p>Wider belts can be installed in multi steps.</p>			
Guide Block Eco 180-H24 (Spare)		41 129 69 99	0.3
 <p>The Guide Block Eco 180-H24 is common to all Eco tools. Max. 15 Fasteners (Strip Length 165mm) can be inserted into the holes.</p>			
Punch H24 "Eco" (Spare)		41 129 69 75	0.2
			

Description	Working Width	Order No.	kg
H24 Belt Lacing Sets			
Profi 180 Basis Set	180 mm	41 129 69 68	8.3
Profi 350 Basis Set	350 mm	41 129 69 69	11.3
 <p>Profi 180 or 350 Basis Set consists of :</p> <ul style="list-style-type: none"> - Profi Installation Unit 180 or 350 - Belt Skiver 18 - Hammer 300g - 1 box Belt Fastener H24BS (12 strips 165 mm each and 6 Connecting Pins) - Plastic Case 			
Eco 180 Basis Set	180 mm	41 129 69 66	6.7
Eco 350 Basis Set	350 mm	41 129 69 67	9.3
 <p>Eco 180 or 350 Basis Set consists of:</p> <ul style="list-style-type: none"> - Eco Installation Unit 180 or 350 - 1 box Belt Fastener H24BS (12 strips 165 mm each and 6 Connecting Pins) - Hammer 300g - Plastic Case 			

Description	Order No.	kg	
Pneumatic Hammer			
Pneumatic Hammer Profi including Punch "L U24/H24" for use with U24/H24 Systems (see pages 6 and 9)	41 129 58 06	2.1	  <p>The Punch is equipped with a spacer ring. This way, the Punch can be used for system U24 (Vice Lacer "Profi", page 6) as well as for system H24 (Installation Unit "Profi", page 9).</p>
Punch L U24/H24 for Pneumatic Hammer Profi including replaceable spacer ring	41 129 58 07	0.1	
Belt Cutter, portable			
Belt Cutter TGS 300 (for belt widths up to 300 mm)	46 430 00 12	5.6	 <p>Portable Belt Cutter TGS 300</p> <p>The belt is squared and clamped for an accurate cut. The belt is then re-clamped for the skiving operation.</p>
Belt Cutter TGS 600 (for belt widths up to 600 mm) (no image)	42 511 06 00	9.2	
Spare Blade for portable Belt Cutter TGS (PU 5)	46 400 10 26	0.1	 <p>Spare Blade for Belt Cutter TGS</p>
Squaring Template BB7 (for belt widths up to 180 mm)	41 129 69 50	0.3	 <p>The template has an adjustable squaring arm and safety slot for guiding belt knife when cutting the belt..</p>
Belt Knife (includes 5 spare blades)	42 123 00 00	0.1	
Spare Blade (PU 1) for Belt Knife	44 123 00 10	0.02	

Description	Order No.	kg	
Belt Edge Chamfer Tool 25	41 129 60 97	0.4	 <p>The Chamfer Tool accurately notches the corners of the belt using guide lines.</p>
Spare Blade for Chamfer Tool 25 (PU 10)	42 050 10 11	0.1	
Belt Skiver 18 Skiving Width 18 mm Double sided Bblade	41 129 58 27	1.0	 <p>Belt Skiver 18</p>
Spare Blade GH18 Double sided Blade for Belt Skiver 18 (PU 5)	41 129 58 28	0.03	
Belt Skiver 18R Skiving Width 18 mm Single sided reinforced Blade	41 130 58 27	1.0	
Spare Blade GH18R for Belt Skiver 18 R (PU 1) Single sided reinforced Blade	41 130 58 28	0.03	
Belt Skiver 25R Skiving Width 25 mm Single sided reinforced Blade	41 129 68 01	0.8	One pass with the adjustable Belt Skiver 18 reduces the belt cover leaving 5-6 mm of belt thickness. The adjustable Hold-down Device allows processing even worn belts up to a maximum of 10 mm belt thickness.
Spare Blade GH25 for Belt Skiver 25 (PU 1)	41 129 68 02	0.03	The Belt Skivers 18R and 25R have a reinforced skiving blade ensuring an accurately uniform skived belt.
Hammer 05 (500g, for installation of U24 Fasteners)	44 121 02 03	0.6	
Hammer 03 (300g, for installation of H24 Fasteners)	44 121 02 02	0.4	
Belt Marker	46 000 07 60	0.03	 <p>Belt Marker durably marks conveyor belts. Marking depth approx. 0.8 mm, width approx. 2.0 mm</p>

The MATO Connecting Pins are aligned in design and material composition to the MATO Fasteners.

Choosing the right Connecting Pin is an important contribution to reach the optimum performance of the splice in your application.

Installation System	Fastener Type			Belt Width	Fastener Strip Length	Connecting Pin Length
	U24AS	U24BS	U24CS			
Installation with Vice Lacer	U24AS	U24BS	U24CS	155 - 165 mm	132 mm	142 mm
Installation with Hammer Lacer		H24BS		177 - 187 mm	154 mm**	165 mm**
				188 - 198 mm	165 mm	175 mm
				210 - 220 mm	187 mm	197 mm
				221 - 231 mm	198 mm	208 mm
				276 - 286 mm	253 mm	265 mm
				298 - 308 mm	275 mm	286 mm
				353 - 363 mm	330 mm	341 mm

Connecting Pins	K1	K2
		O1K
	T1F	T2F

** Only available from John Deere Parts Distribution Center

Other lengths upon request

Connecting Pin Choice								
Connecting Pins	High Tension Application	Troughing	Flexibility	No Troughing	Rust Resistant	Chemical Resistant	Wear Properties	Magnetic Properties
K1 / K2	good	good	very good	good	good	poor	acceptable	highly magnetic
O1K / O2K*	very good	very good	very good	very good	very good	acceptable	good	magnetic
T1F / T2F*	excellent	poor	poor	excellent	poor	poor	excellent	highly magnetic

* Please ask for our rust and chemical resistant material compositions

K1 / K2



High Tensile Galvanized Steel Cable

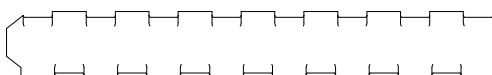
O1K / O2K






Wrap : Special Steel

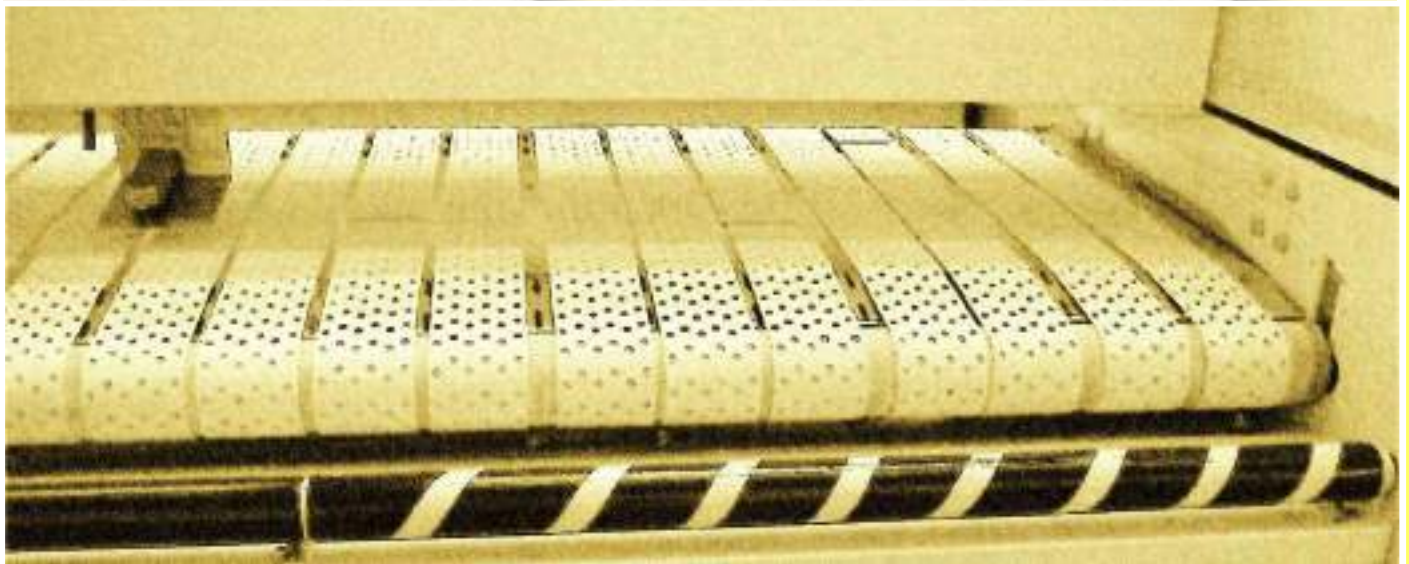
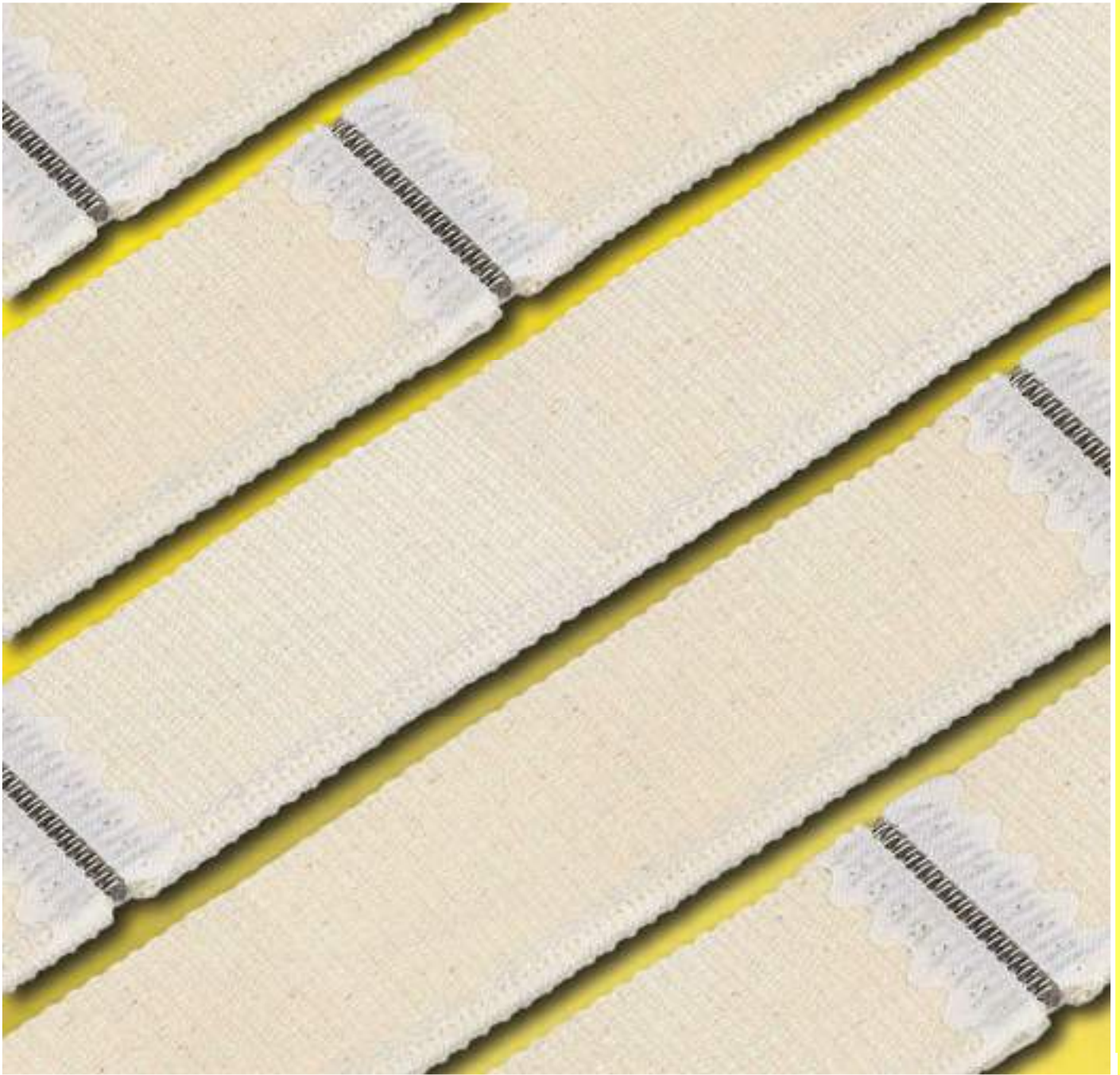
Core : Stainless Chromium-Nickel Cable

T1F / T2F



Notched Spring Steel

Description	Min. Dia.	PU / Length	Order No.	kg	
Connecting Pin T..F					
Notched Spring Steel					
T1F	3.0 mm	6x 175 mm	41 129 59 60	0.1	 <p>Features: Notched Spring Steel</p> <p>Low wear, long life time especially with conveyor belts for round balers.</p> <p><u>PU</u> e. g. 6 x 165 mm Box content: 6 Connecting Pins 165 mm long</p>
T1F	3.0 mm	5x 208 mm	41 129 59 64	0.1	
T2F	3.4 mm	6x 142 mm	41 129 58 90	0.1	
T2F	3.4 mm	6x 175 mm	41 129 58 08	0.1	
T2F	3.4 mm	5x 197 mm	41 129 59 09	0.1	
T2F	3.4 mm	5x 208 mm	41 129 58 16	0.1	
T2F	3.4 mm	4x 265 mm	41 129 59 11	0.1	
T2F	3.4 mm	4x 286 mm	41 129 59 18	0.1	
T2F	3.4 mm	3x 341 mm	41 129 59 19	0.1	
Connecting Pin O..K					
High Tensile Stainless Chromium-Nickel Stranded Cable					
O1K	3.0 mm	10 Meter	41 129 59 88	0.5	 <p>Material Core: Stainless Chromium-Nickel Cable Wrap: Special Steel</p> <p>Coils are supplied in 10 meter / 30 meter coils</p>
O1K	3.0 mm	30 Meter	41 129 59 89	1.6	
O2K	3.4 mm	10 Meter	41 129 59 23	0.7	
O2K	3.4 mm	30 Meter	41 129 59 24	2.0	
Connecting Pin K..					
High Tensile Galvanized Cable					
K1	3.0 mm	10 Meter	41 129 59 86	0.5	 <p>Material : Galvanized Steel Cable</p> <p>Coils are supplied in 10 meter / 30 meter coils</p>
K1	3.0 mm	30 Meter	41 129 59 87	1.4	
K2	3.4 mm	10 Meter	41 129 59 25	0.5	
K2	3.4 mm	30 Meter	41 129 59 26	1.6	



MATO Flat Wire Fastener **Series M50-P and M60-P (MATOPATCH)** has been specifically developed for the **Laundry Industry**. This patented system is a leap forward in lifetime, design, appearance and ease of installation.

Using this fastener you or your customers will have the advantage of the safest, most enduring and optically most appealing Belt Lacing System.

The stainless steel flat wire fasteners are retained on a bar with a preinstalled textile patch are ideal for cotton and felt belts. This achieves the best protection of the laundry against damage and offers low noise levels, abrasive wear and belt connection wear.

The lifetime of the MATOPATCH Lacing System is up to four times longer than other fasteners used in the laundry industry.



MATOPATCH fasteners are designed such that the fastener can be installed in one step using the installation units shown on pages 22-24.

The requirement for additional gluing time and use of hazardous materials is eliminated. The textile patch can be customized and printed with customers' colours and logos.

What do you need?

- **Belt thickness**
- **Minimum pulley diameter**
- **Fastener pitch**

How do you proceed ?

- **Selection Charts on pages 18 and 19**

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**

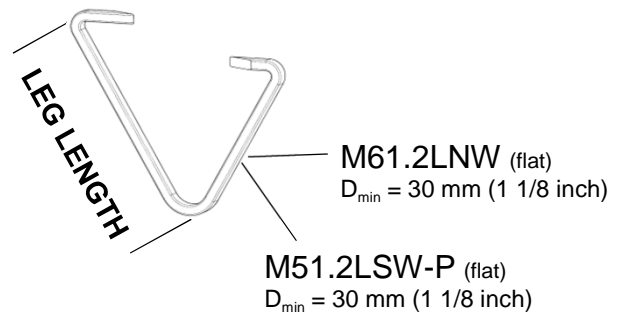
according to your requirements, please see selection chart below

- **Selection of Connecting Pins**

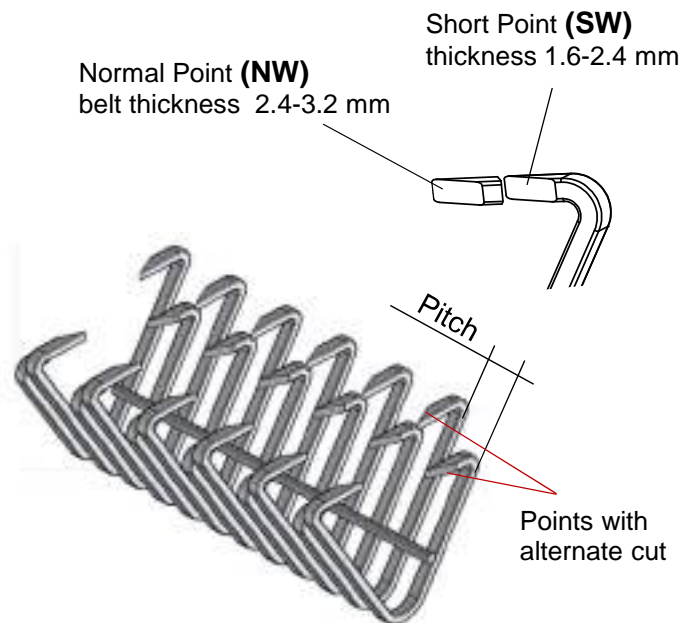
see pages 37 - 39

- **with textile patch or without textile patch**

Definition with Examples:



The leg length depends on the pulley diameter. The bigger the minimum pulley diameter, the longer the leg length. However, for the Laundry Fasteners listed here, the leg lengths are the same (named with number 1.2) See key to selection on page 19.



Fastener Material Selection Chart

Material	Symbol	Magnetic Property	Abrasion Resistant	Chemical Resistant	Rust Resistant	Cover Protection	Systems
Stainless Steel, AISI 430 (1.4016)	S	magnetic	very good	good	good	no	M60
Stainless Steel, AISI 316L (1.4404)	SS	slightly magnetic	very good	very good	excellent	no	M50, M60
Stainless Steel, AISI 316L (1.4404) with textile patch	SS-P	slightly magnetic	excellent	very good	excellent	yes	M50-P, M60-P

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

Pitch: 1.7mm			Fastener Selection Chart M50 with & without Patch									
Min. Pulley Diameter	Wire Dimensions (Width x Height)		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"	11/64"
30mm 1 1/8"	0.65 x 0.5	0.026 x 0.020	1,3 (MK13)	≤ 0.8mm	1.6mm	2.0mm	2.4mm	2.8mm	3.2mm	3.6mm	4.0mm	4.4mm
				M51.2SW-SS-P			M51.2SW-SS			M51.2NW-SS		

Pitch: 2.54mm			Fastener Selection Chart M60 with & without Patch									
Min. Pulley Diameter	Wire Dimensions (Width x Height)		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"	11/64"
30mm 1 1/8"	0.9 x 0.5	0.035 x 0.020	1,5 (MK15)	≤ 0.8mm	1.6mm	2.0mm	2.4mm	2.8mm	3.2mm	3.6mm	4.0mm	4.4mm
				M61.2LSW-SS-P			M61.2LSW-SS			M61.2LNW-SS		
							M61.2LSW-S			M61.2LNW-S		

See pages 40 - 53 for different belt thickness and pitches or on request.

with Patch
without Patch

Key to selection
Example:

M 6 1.2 L S W -SS -P

-P :	With Textile Patch , Fastener made Stainless Steel 316L (1.4404)
-SS :	Fastener made Stainless Steel 316L (1.4404)
-S :	Fastener made Chromium Steel 430 (1.4016)
SW :	Short Point, Alternate Cut
NW :	Normal Point, Alternate Cut
LP :	Long Point
L :	Low Profile Dimensions (Extra Flat Wire)
1 :	Minimum Pulley Dia. 25 mm
1.2 :	Minimum Pulley Dia. 30 mm, elongated Leg
2 :	Minimum Pulley Dia. 50 mm
3 :	Minimum Pulley Dia. 75 mm
4 :	Minimum Pulley Dia. 100 mm
5 :	Pitch 1.7 mm
6 :	Pitch 2.54 mm
7 :	Pitch 3.175 mm
8 :	Pitch 3.67 mm
M :	Flat Wire
R :	Round Wire



Textile Patch Fasteners are welded on a wire bar

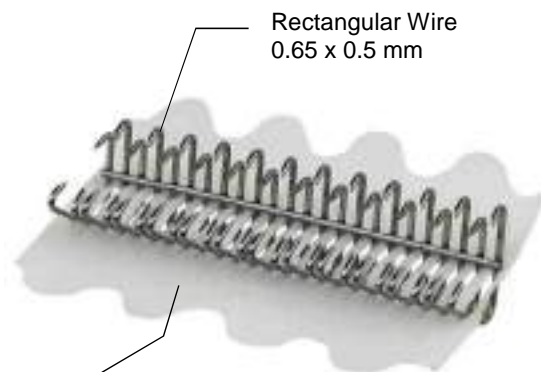


Fasteners are welded on a wire bar

Belt Width	Fasteners per Strip	No. Of Laces	Order No.	kg
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Belt Fastener M51.2SW-SS-P (with Textile Patch)
 Stainless Steel 316L (1.4404), Lacing incl. Connecting Pin MK 13-NYN

20 mm	8 / 9	50	42 723 02 00	0.2
25 mm	12 / 13	50	42 723 02 50	0.2
30 mm	15 / 16	50	42 723 03 00	0.3
35 mm	17 / 18	50	42 723 03 50	0.3
38 mm	19 / 20	50	42 723 04 00	0.3
48 mm	24 / 25	50	42 723 04 80	0.4
50 mm	26 / 27	50	42 723 05 00	0.4
57 mm	30 / 31	50	42 723 05 70	0.5
60 mm	32 / 33	50	42 723 06 00	0.5
63 mm	33 / 34	50	42 723 06 30	0.5
65 mm	34 / 35	50	42 723 06 50	0.5
70 mm	37 / 38	50	42 723 07 00	0.5
75 mm	39 / 40	50	42 723 07 50	0.5
80 mm	41 / 42	25	42 723 08 00	0.4
83 mm	42 / 43	25	42 723 08 30	0.4
88 mm	46 / 47	25	42 723 08 80	0.4
95 mm	49 / 50	25	42 723 09 50	0.4
100 mm	54 / 55	25	42 723 10 00	0.5
105 mm	56 / 57	25	42 723 10 50	0.5
110 mm	59 / 60	25	42 723 11 00	0.5
113 mm	61 / 62	25	42 723 11 30	0.5
120 mm	64 / 65	25	42 723 12 00	0.5



Textile Patch coated on one side with hot glue

- Material : **Stainless Steel 316L (1.4404) with textile patch**

- Pitch: **1.7 mm**
 - Belt Thickness: **1.6 - 2.4 mm**

- Wire measurements: 0.65 x 0.5 mm
 - Barred Fasteners



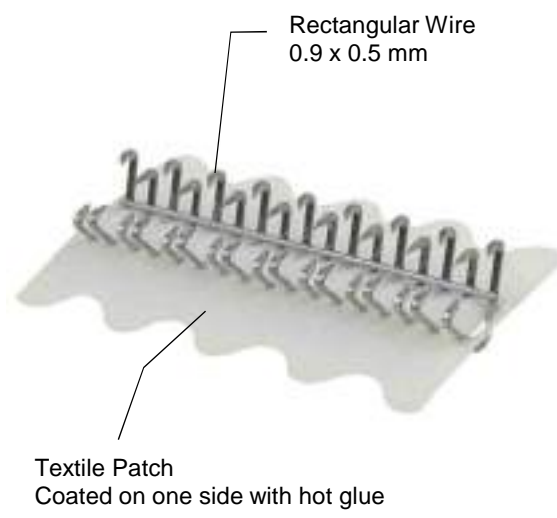
- Box content incl. Connecting Pins MK13-NYN

Please see page 37-39 for more connecting pins / Fasteners for other belt width upon request

Belt Width	Fasteners per Strip	No. Of Laces	Order No.	kg
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Belt Fastener M61.2LSW-SS-P (with Textile Patch)
 Stainless Steel 316L (1.4404), Lacing incl. Connecting Pin MK 15-NYN

25 mm	7 / 8	50	42 654 02 50	0.2
30 mm	9 / 10	50	42 654 03 00	0.3
32 mm	10 / 11	50	42 654 03 20	0.3
35 mm	11 / 12	50	42 654 03 50	0.3
38 mm	12 / 13	50	42 654 03 80	0.3
40 mm	13 / 14	50	42 654 04 00	0.3
48 mm	16 / 17	50	42 654 04 80	0.4
50 mm	17 / 18	50	42 654 05 00	0.4
57 mm	20 / 21	50	42 654 05 70	0.5
60 mm	21 / 22	50	42 654 06 00	0.5
63 mm	22 / 23	50	42 654 06 30	0.5
75 mm	27 / 28	50	42 654 07 50	0.5
83 mm	29 / 30	25	42 654 08 30	0.4
88 mm	31 / 32	25	42 654 08 80	0.4
95 mm	33 / 34	25	42 654 09 50	0.4
100 mm	35 / 36	25	42 654 10 00	0.5
105 mm	37 / 38	25	42 654 10 50	0.5
110 mm	39 / 40	25	42 654 11 00	0.5
113 mm	41 / 42	25	42 654 11 30	0.5
120 mm	43 / 44	25	42 654 12 00	0.5






- Material: **Stainless Steel 316L (1.4404) with Textile Patch**
- Pitch: **2.54 mm**
- Belt Thickness: **1.6 - 2.4 mm**
- Wire measurements: 0.9 x 0.5 mm
- Barred Fasteners



- Box content
incl. Connecting Pin MK15-NYN

Please see pages 37 - 39 for more Connecting Pins / Fasteners for other belt width upon request

Description	Pitch (mm)	Order No.	kg
Lacing Tools MATOPATCHLEVER with fixed Fastener Retainer			
MATOPATCHLEVER 50WP (Max. Belt Width 60 mm)	1.7	42 480 96 50	6.0
MATOPATCHLEVER 60WP (Max. Belt Width 60 mm)	2.54	42 480 96 60	6.0
 <p>Lacing Tool MATOPATCHLEVER</p> <p>The MATOPATCHLEVER 50WP resp. 60WP was developed for installing MATOPATCH Fasteners with pitches 1.7 mm or 2.54 mm. Since this tool does not require a vice, it enables simple installation directly at machines in commercial laundries. Installing the fasteners and the textile patch is achieved in one step.</p> <p>Electrical Data: 0.6 kW / 230V / 50Hz / 1 Phase Temperature is adjustable up to 250°C</p>			
Vice Lacer MATOPATCHVICE incl. Universal Comb and Comb Pin Dia. 1.5mm resp. 1.7 mm			
MATOPATCHVICE 260WP (Heating and Pressing Area 120 mm each)	1.7	42 200 02 04	6.5
MATOPATCHVICE 260WP (Heating and Pressing Area 120 mm each)	2.54	42 200 02 02	6.5
Conversion Kit 260WP for converting the Hydr. Installation Units MATOHYD 200 and 200W (pages 56 and 33) to a MATOHYD 260WP (for Patch Splices, page 24)		42 200 21 90	5.2
 <p>Vice Lacer MATOPATCHVICE 260WP</p> <p>The Vice Lacer MATOPATCHVICE 260WP is ideal for installing small and medium series of MATO Patch Fasteners. This tool can be used with a vice as well as with the electro-hydraulic installation unit MATOHYD 260WP (page 24). Using the converting kit 260WP, the hydraulic installation Units MATOHYD 200W and MATOHYD 200 (page 33 and 56) can also be used as Basic Unit to install Patch Fasteners.</p> <p>The maximum installation width of the Vice Lacer MATOPATCHVICE 260WP is 120 mm. All fasteners with or without patch (1.7 or 2.54 mm pitch) can be installed. The installation steps are as follows: - press in the fasteners into the belt (without heating) - hot glue the patch - repress the complete splice.</p> <p>Electrical Data: 0.6 kW / 230V / 50Hz / 1 Phase Temperature is adjustable up to 250°C</p>			
Extra Universal Combs for MATOPATCHVICE Comb Width 260 mm			
UNICOMB 50-260VH-WP incl. Comb Pin Dia. 1.5 mm	1.7	42 480 21 51	0.5
UNICOMB 60-260VH-WP incl. Comb Pin Dia. 1.7 mm	2.54	42 480 11 51	0.5
 <p>Unicombs can be easily and quickly replaced simply by loosening a screw at the installation unit.</p>			

For processing bigger quantities, please ask for our Lacing Tools

Hydraulic Lacing Tools are recommended for high volumes. The picture below shows different components making up the tool assembly.

A functioning Lacing Tool consists of :

- **Basic Unit**
- **Vice Lacer**
- **Universal Comb**
- **Electro Hydraulic Power Pack or**
- **Foot Pump**

Foot Pump

(Hydraulic Foot Pump)



Vice Lacer

MATOPATCHVICE 260WP (image)
incl. Heating Control
(Patch Splices, Laundry), pages 22 and 24

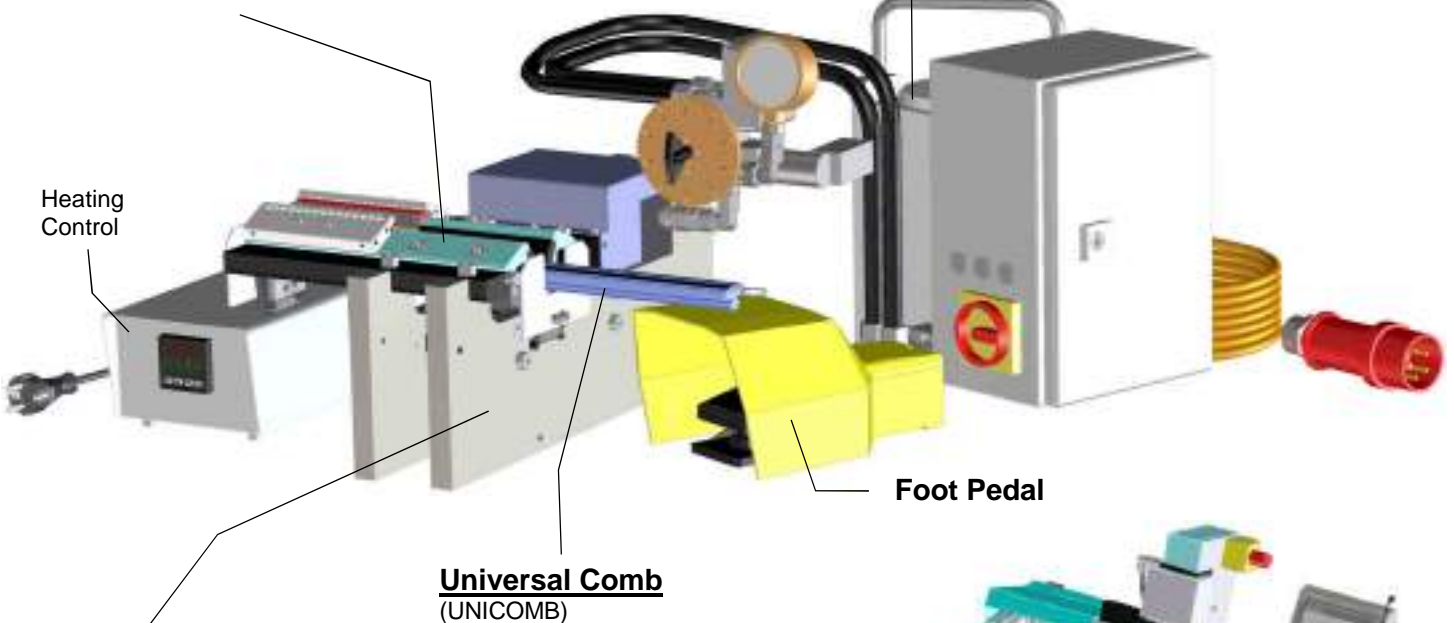
or
MATOHYDVICE 200W (Splices without Patch,
Laundry), page 34

or
MATOHYDVICE 200 (Splices without Patch, other
Industrial Sector), page 57

Electro Hydraulic Power Pack with Control

MATOHYD-PAW 200-1 , (image),
(Patch Splices, Laundry), page 24

or
MATOHYD-PA 200-1 / 200-2 / 200-3, page 33 and 56
(Splices without Patch, Laundry and other Industrial Sectors)



Heating
Control

Foot Pedal

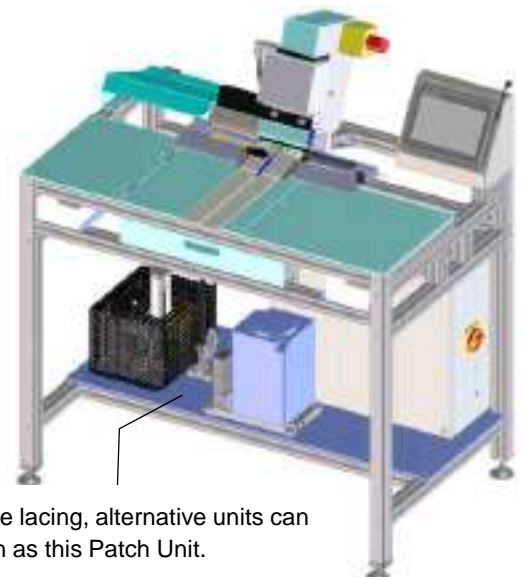
Universal Comb
(UNICOMB)

Basic Unit

Basic Unit MATOHYD 260WP (image)
(Patch Splices, Laundry), page 24

or
Basic Unit MATOHYD 200W
(Splices without Patch, Laundry), page 33

or
Basic Unit MATOHYD 200 resp. 400
Splices without Patch (general Industry), page 56



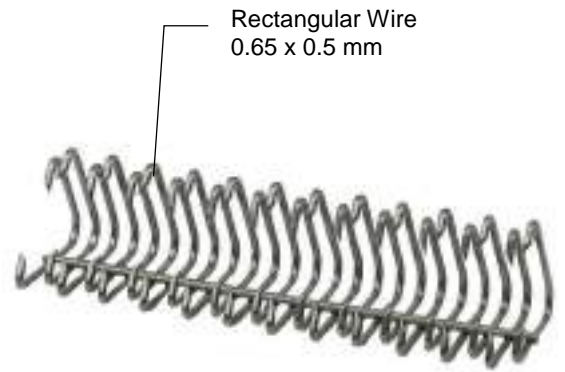
For high volume lacing, alternative units can be offered such as this Patch Unit.

Description	Order No.	kg
Hydraulic Lacing Tool MATOHYD 260WP (Basic Unit)		
<p>MATOHYD 260WP (Heating and pressing area 130 mm each)</p>	<p>42 200 00 02</p>	<p>24.0</p> <div data-bbox="963 264 1442 439"> <p>Note: The Lacing Tool consists of : - Basic Unit MATOHYD (page 24) - Vice Lacer MATOPATCHVICE with Universal Comb UNICOMB (page 22) - Electro-Hydraulic Power Pack-PAW or Foot Pump MATOHYD-FP (page 24)</p> </div> <div data-bbox="963 461 1155 510"> <p>Overview Variations see page 23</p> </div> <div data-bbox="1018 474 1490 945"> </div> <div data-bbox="973 981 1484 1052"> <p>The hydraulic Lacing Tool MATOHYD 260 WP (Basic Unit) is applied for high quality and economical Patch splices for belt widths up to 120 mm.</p> </div>
Hydraulic Power Packs for Basic Unit MATOHYD 260 WP		
<p>Power Pack MATOHYD PAW 200 -1 1.17 l/min, 400V / 50Hz / 3Phase 320 bar</p>	<p>42 200 22 03</p>	<p>18.5</p> <div data-bbox="986 1160 1503 1518"> </div> <div data-bbox="970 1527 1513 1675"> <p>The Electro Hydraulic Power Pack PAW 200-1 powers the Lacing Tool MATOHYD-260WP. The installation pressure of 50 - 320 bar is manually adjustable. The controls can preset a holding time of 1 - 6 seconds. This Power Pack installs even "soft" belts such as felt, accurately. It is activated by a foot pedal.</p> </div>
Foot Pump		
<p>Foot Pump MATOHYD FP up to 500 bar</p>	<p>42 200 05 00</p>	<p>7.4</p> <div data-bbox="1040 1765 1481 2056"> </div> <p>Hydraulic Foot Pump</p>

Belt Width	Fasteners per Strip	No. Of Laces	Order No.	kg
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Belt Fastener M51.2SW-SS
Stainless Steel 316L (1.4404), Lacing incl. Connecting Pin MK 13-NYN

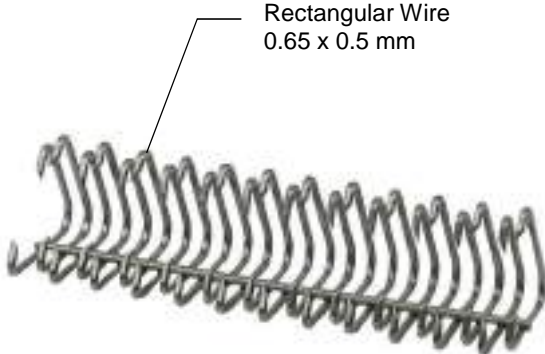


20 mm	8 / 9	100	42 690 02 00	0.2
25 mm	12 / 13	100	42 690 02 50	0.2
30 mm	15 / 16	100	42 690 03 00	0.3
35 mm	17 / 18	100	42 690 03 50	0.3
38 mm	19 / 20	100	42 690 04 00	0.3
48 mm	24 / 25	100	42 690 04 80	0.4
50 mm	26 / 27	100	42 690 05 00	0.4
57 mm	30 / 31	100	42 690 05 70	0.5
60 mm	32 / 33	100	42 690 06 00	0.5
63 mm	33 / 34	100	42 690 06 30	0.5
65 mm	34 / 35	100	42 690 06 50	0.6
70 mm	37 / 38	100	42 690 07 00	0.6
75 mm	39 / 40	100	42 690 07 50	0.6
80 mm	41 / 42	50	42 690 08 00	0.4
83 mm	42 / 43	50	42 690 08 30	0.4
88 mm	46 / 47	50	42 690 08 80	0.4
95 mm	49 / 50	50	42 690 09 50	0.4
100 mm	54 / 55	50	42 690 10 00	0.4
105 mm	56 / 57	50	42 690 10 50	0.4
110 mm	59 / 60	50	42 690 11 00	0.4
113 mm	61 / 62	50	42 690 11 30	0.5
120 mm	64 / 65	50	42 690 12 00	0.5
140 mm	76 / 77	50	42 690 14 00	0.6
150 mm	82 / 83	50	42 690 15 00	0.6
300 mm	172 / 173	20	42 690 30 00	0.5



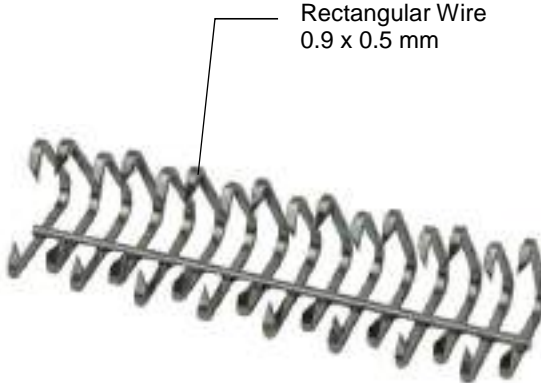
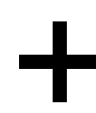

- Material : **Stainless Steel 316L (1.4404)**
- Pitch: **1.7 mm**
- Belt Thickness: **1.6 - 2.4 mm**
- Wire measurements: 0.65 x 0.5 mm
- Barred Fasteners



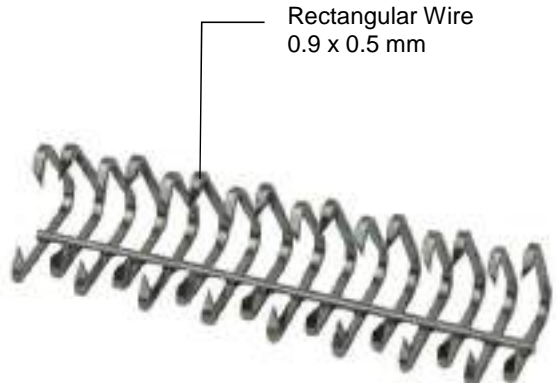
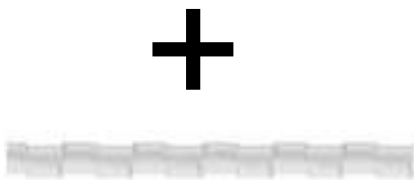
- Box content including Connecting Pin MK13-NYN

Belt Width	Fasteners per Strip	No. Of Laces	Order No.	kg		
Belt Fastener M51.2NW-SS						
Stainless Steel 316L (1.4404), Lacing incl. Connecting Pin MK 13-NYN						
20 mm	8 / 9	100	42 699 02 00	0.2		
25 mm	12 / 13	100	42 699 02 50	0.2		
30 mm	15 / 16	100	42 699 03 00	0.3		
35 mm	17 / 18	100	42 699 03 50	0.3		
38 mm	19 / 20	100	42 699 04 00	0.3		
48 mm	24 / 25	100	42 699 04 80	0.4		
50 mm	26 / 27	100	42 699 05 00	0.4		
57 mm	30 / 31	100	42 699 05 70	0.5		
60 mm	32 / 33	100	42 699 06 00	0.5		
63 mm	33 / 34	100	42 699 06 30	0.5		
65 mm	34 / 35	100	42 699 06 50	0.6		
70 mm	37 / 38	100	42 699 07 00	0.6		
75 mm	39 / 40	100	42 699 07 50	0.6		
80 mm	41 / 42	50	42 699 08 00	0.4		<p>- Material : Stainless Steel 316L (1.4404)</p> <p>- Pitch: 1.7 mm</p> <p>- Belt Thickness: 2.4 - 3.2 mm</p> <p>- Wire measurements: 0.65 x 0.5 mm</p> <p>- Barred Fasteners</p>   <p>- Box content including Connecting Pin MK13-NYN</p>
83 mm	42 / 43	50	42 699 08 30	0.4		
88 mm	46 / 47	50	42 699 08 80	0.4		
95 mm	49 / 50	50	42 699 09 50	0.4		
100 mm	54 / 55	50	42 699 10 00	0.4		
105 mm	56 / 57	50	42 699 10 50	0.4		
110 mm	59 / 60	50	42 699 11 00	0.4		
113 mm	61 / 62	50	42 699 11 30	0.5		
120 mm	64 / 65	50	42 699 12 00	0.5		
140 mm	76 / 77	50	42 699 14 00	0.6		
150 mm	82 / 83	50	42 699 15 00	0.6		
300 mm	172 / 173	20	42 699 30 00	0.5		

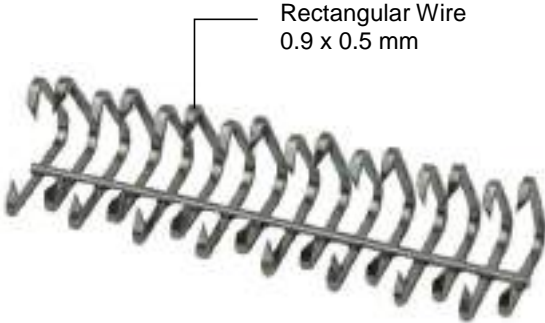

Please see pages 37 - 39 for more Connecting Pins / Fasteners for other belt width upon request

Belt Width	Fasteners per Strip	No. Of Laces	Order No.	kg		
Belt Fastener M61.2LSW-SS						
Stainless Steel 316L (1.4404), Lacing incl. Connecting Pin MK 15-NYN						
25 mm	7 / 8	100	42 268 02 50	0.2	 <p>Rectangular Wire 0.9 x 0.5 mm</p>	
30 mm	9 / 10	100	42 268 03 00	0.3		
32 mm	10 / 11	100	42 268 03 20	0.3		
35 mm	11 / 12	100	42 268 03 50	0.3		
38 mm	12 / 13	100	42 268 03 80	0.3		
40 mm	13 / 14	100	42 268 04 00	0.3		
48 mm	16 / 17	100	42 268 04 80	0.4		
50 mm	17 / 18	100	42 268 05 00	0.4		
57 mm	20 / 21	100	42 268 05 70	0.5		
60 mm	21 / 22	100	42 268 06 00	0.5		
63 mm	22 / 23	100	42 268 06 30	0.5		
75 mm	27 / 28	100	42 268 07 50	0.6		
83 mm	29 / 30	50	42 268 08 30	0.4		- Material : Stainless Steel 316L (1.4404)
88 mm	31 / 32	50	42 268 08 80	0.4	- Pitch: 2.54 mm	
95 mm	33 / 34	50	42 268 09 50	0.4	- Belt Thickness: 1.6 - 2.4 mm	
100 mm	35 / 36	50	42 268 10 00	0.4	- Wire measurements: 0.9 x 0.5 mm	
105 mm	37 / 38	50	42 268 10 50	0.4	- Barred Fasteners	
110 mm	39 / 40	50	42 268 11 00	0.4		
113 mm	41 / 42	50	42 268 11 30	0.5		
120 mm	43 / 44	50	42 268 12 00	0.5		
127 mm	46 / 47	50	42 268 12 70	0.6		
140 mm	51 / 52	50	42 268 14 00	0.6		
150 mm	55 / 56	50	42 268 15 00	0.6		
168 mm	62 / 63	25	42 268 16 80	0.7		
180 mm	66 / 67	25	42 268 18 00	0.7		
190 mm	70 / 71	25	42 268 19 00	0.7		
200 mm	74 / 75	25	42 268 20 00	0.7		
254 mm	96 / 97	25	42 268 25 40	0.7		
280 mm	107 / 108	20	42 268 28 00	0.5	- Box content including Connecting Pin MK15-NYN	
285 mm	108 / 109	20	42 268 28 50	0.5		
293 mm	111 / 112	20	42 268 29 30	0.5		
300 mm	115 / 116	20	42 268 30 00	0.5		

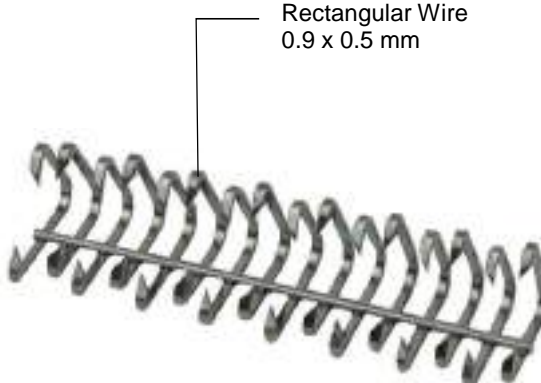

Please see pages 37 - 39 for more Connecting Pins / Fasteners for other belt width upon request

Belt Width	Fasteners per Strip	No. Of Laces	Order No.	kg		
Belt Fastener M61.2LSW-S						
Chromium Steel 430 (1.4016), Lacing incl. Connecting Pin MK 15-NYN						
25 mm	7 / 8	100	42 273 02 50	0.2		
30 mm	9 / 10	100	42 273 03 00	0.3		
32 mm	10 / 11	100	42 273 03 20	0.3		
35 mm	11 / 12	100	42 273 03 50	0.3		
38 mm	12 / 13	100	42 273 03 80	0.3		
40 mm	13 / 14	100	42 273 04 00	0.3		
48 mm	16 / 17	100	42 273 04 80	0.4		
50 mm	17 / 18	100	42 273 05 00	0.4		
57 mm	20 / 21	100	42 273 05 70	0.5		
60 mm	21 / 22	100	42 273 06 00	0.5		
63 mm	22 / 23	100	42 273 06 30	0.5		
75 mm	27 / 28	100	42 273 07 50	0.6		
83 mm	29 / 30	50	42 273 08 30	0.4		<p>- Material : Chromium Steel 430 (1.4016)</p> <p>- Pitch: 2.54 mm</p> <p>- Belt Thickness: 1.6 - 2.4 mm</p> <p>- Wire measurements: 0.9 x 0.5 mm</p> <p>- Barred Fasteners</p>
88 mm	31 / 32	50	42 273 08 80	0.4		
95 mm	33 / 34	50	42 273 09 50	0.4		
100 mm	35 / 36	50	42 273 10 00	0.4		
105 mm	37 / 38	50	42 273 10 50	0.4		
110 mm	39 / 40	50	42 273 11 00	0.4		
113 mm	41 / 42	50	42 273 11 30	0.5		
120 mm	43 / 44	50	42 273 12 00	0.5		
127 mm	46 / 47	50	42 273 12 70	0.6		
140 mm	51 / 52	50	42 273 14 00	0.6		
150 mm	55 / 56	50	42 273 15 00	0.6		
168 mm	62 / 63	25	42 273 16 80	0.7	<p>+</p> 	
180 mm	66 / 67	25	42 273 18 00	0.7		
190 mm	70 / 71	25	42 273 19 00	0.7		
200 mm	74 / 75	25	42 273 20 00	0.7		
254 mm	96 / 97	25	42 273 25 40	0.7		
280 mm	107 / 108	20	42 273 28 00	0.5	<p>- Box content including Connecting Pin MK15-NYN</p>	
285 mm	108 / 109	20	42 273 28 50	0.5		
293 mm	111 / 112	20	42 273 29 30	0.5		
300 mm	115 / 116	20	42 273 30 00	0.5		

Please see pages 37 - 39 for more Connecting Pins / Fasteners for other belt width upon request



Belt Width	Fasteners per Strip	No. Of Laces	Order No.	kg	
Belt Fastener M61.2LNW-SS					
Stainless Steel 316L (1.4404), Lacing incl. Connecting Pin MK 15-NYN					
25 mm	7 / 8	100	42 269 02 50	0.2	 <p>- Material : Stainless Steel 316L (1.4404)</p> <p>- Pitch: 2.54 mm</p> <p>- Belt Thickness: 2.4 - 3.2 mm</p> <p>- Wire measurements: 0.9 x 0.5 mm</p> <p>- Barred Fasteners</p>
30 mm	9 / 10	100	42 269 03 00	0.3	
32 mm	10 / 11	100	42 269 03 20	0.3	
35 mm	11 / 12	100	42 269 03 50	0.3	
38 mm	12 / 13	100	42 269 03 80	0.3	
40 mm	13 / 14	100	42 269 04 00	0.3	
48 mm	16 / 17	100	42 269 04 80	0.4	
50 mm	17 / 18	100	42 269 05 00	0.4	
57 mm	20 / 21	100	42 269 05 70	0.5	
60 mm	21 / 22	100	42 269 06 00	0.5	
63 mm	22 / 23	100	42 269 06 30	0.5	
75 mm	27 / 28	100	42 269 07 50	0.6	
83 mm	29 / 30	50	42 269 08 30	0.4	
88 mm	31 / 32	50	42 269 08 80	0.4	
95 mm	33 / 34	50	42 269 09 50	0.4	
100 mm	35 / 36	50	42 269 10 00	0.4	
105 mm	37 / 38	50	42 269 10 50	0.4	
110 mm	39 / 40	50	42 269 11 00	0.4	
113 mm	41 / 42	50	42 269 11 30	0.5	
120 mm	43 / 44	50	42 269 12 00	0.5	
127 mm	46 / 47	50	42 269 12 70	0.6	
140 mm	51 / 52	50	42 269 14 00	0.6	
150 mm	55 / 56	50	42 269 15 00	0.6	
					+
					 <p>- Box content including Connecting Pin MK15-NYN</p>
168 mm	62 / 63	25	42 269 16 80	0.7	
180 mm	66 / 67	25	42 269 18 00	0.7	
190 mm	70 / 71	25	42 269 19 00	0.7	
200 mm	74 / 75	25	42 269 20 00	0.7	
254 mm	96 / 97	25	42 269 25 40	0.7	
280 mm	107 / 108	20	42 269 28 00	0.5	
285 mm	108 / 109	20	42 269 28 50	0.5	
293 mm	111 / 112	20	42 269 29 30	0.5	
300 mm	115 / 116	20	42 269 30 00	0.5	

Please see pages 37 - 39 for more Connecting Pins / Fasteners for other belt width upon request

Belt Width	Fasteners per Strip	No. Of Laces	Order No.	kg		
Belt Fastener M61.2LNW-S						
Chromium Steel 430 (1.4016), Lacing incl. Connecting Pin MK 15-NYN						
25 mm	7 / 8	100	42 292 02 50	0.2		
30 mm	9 / 10	100	42 292 03 00	0.3		
32 mm	10 / 11	100	42 292 03 20	0.3		
35 mm	11 / 12	100	42 292 03 50	0.3		
38 mm	12 / 13	100	42 292 03 80	0.3		
40 mm	13 / 14	100	42 292 04 00	0.3		
48 mm	16 / 17	100	42 292 04 80	0.4		
50 mm	17 / 18	100	42 292 05 00	0.4		
57 mm	20 / 21	100	42 292 05 70	0.5		
60 mm	21 / 22	100	42 292 06 00	0.5		
63 mm	22 / 23	100	42 292 06 30	0.5		
75 mm	27 / 28	100	42 292 07 50	0.6		
83 mm	29 / 30	50	42 292 08 30	0.4		- Material : Chromium Steel 430 (1.4016)
88 mm	31 / 32	50	42 292 08 80	0.4		- Pitch: 2.54 mm
95 mm	33 / 34	50	42 292 09 50	0.4		- Belt Thickness: 2.4 - 3.2 mm
100 mm	35 / 36	50	42 292 10 00	0.4	- Wire measurements: 0.9 x 0.5 mm	
105 mm	37 / 38	50	42 292 10 50	0.4	- Barred Fasteners	
110 mm	39 / 40	50	42 292 11 00	0.4		
113 mm	41 / 42	50	42 292 11 30	0.5		
120 mm	43 / 44	50	42 292 12 00	0.5		
127 mm	46 / 47	50	42 292 12 70	0.6		
140 mm	51 / 52	50	42 292 14 00	0.6		
150 mm	55 / 56	50	42 292 15 00	0.6		
168 mm	62 / 63	25	42 292 16 80	0.7		
180 mm	66 / 67	25	42 292 18 00	0.7		
190 mm	70 / 71	25	42 292 19 00	0.7		
200 mm	74 / 75	25	42 292 20 00	0.7		
254 mm	96 / 97	25	42 292 25 40	0.7	- Box content including Connecting Pin MK15-NYN	
280 mm	107 / 108	20	42 292 28 00	0.5		
285 mm	108 / 109	20	42 292 28 50	0.5		
293 mm	111 / 112	20	42 292 29 30	0.5		
300 mm	115 / 116	20	42 292 30 00	0.5		

Please see pages 37 - 39 for more Connecting Pins / Fasteners for other belt width upon request

Description	Comb Width	Pitch (mm)	Order No.	kg
Eco Vice Lacer MA with fixed Fastener Retainer				
MA 50-150	150 mm	1.7	42 150 50 51	1.9
MA 60-150	150 mm	2.54	42 150 61 63	1.9
MA 60-200	200 mm	2.54	42 200 61 63	2.3
 <p>The Vice Lacer MA is a budget-priced tool that can be used in the laundry industry for widths of 150 or 200 mm. Since the retainer is fixed, each pitch requires a separate lacer.</p>				
Profi Vice Lacer MATOVICE 120 without Fastener Retainer (Universal Comb UNICOMB)				
MATOVICE 120 (Max. press width 120 mm)			42 120 00 00	2.3
 <p>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.</p>				
Universal Combs UNICOMB for Profi Vice Lacers Comb Width 300 mm				
UNICOMB 50-300VH (incl. Comb Pin Dia. 1.5 and 1.7 mm)	1.7		42 480 11 80	0.5
UNICOMB 60-300VH (incl. Comb Pin Dia. 1.5 and 1.7 mm)	2.54		42 480 11 50	0.5
 <p>The exchangeable Universal Comb "UNICOMB" is designed so that both comb sizes can be used alternately with only one MATOVICE or HYDVICE. They can be exchanged without tools. Wider belts are easily installed in multiple steps. The standard comb width is 300 mm; however, other widths are available on request, see page 54.</p>				

Description	Pitch (mm)	Order No.	kg
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
 <p>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.</p>			
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
 <p>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.</p>			

Description	Working Width	Order No.	kg
Hydraulic Installation Unit MATOHYD 200W (Basic Unit)			
MATOHYD 200W	200 mm	42 200 00 01	24.0
Conversion Kit 260WP for converting the Hydr. Installation Unit MATOHYD 200 and 200W (page 56 and 33) to a MATOHYD 260 WP (Patch Splices, page 24)		42 200 21 90	5.2
Hydraulic Power Packs for the Basic Unit MATOHYD 200W			
Power Pack MATOHYD PAW 200 -1 1.17 l/min, 400V / 50Hz / 3Phases 320 bar		42 200 22 03	18.5
Foot Pump			
Foot Pump MATOHYD FP up to 500 bar		42 200 05 00	7.4

Note:
 The Lacing Tool consists of
 - Basic Unit MATOHYD (page 33)
 - Vice Lacer MATOHYDVICE (page 34)
 with Universal Comb UNICOMB (page 34)
 - Electro-Hydraulic Power Pack-PA (page 33)
 or Foot Pump MATOHYD-FP (page 33)

Overview Variations
 see page 23



The MATOHYD hydraulic tool is used for high quality installations. All belt width can be installed in multi steps.



Using the converting kit 260WP, the hydraulic installation Unit MATOHYD 200W can also be used as Basic Unit to install Patch Fasteners (see page 24).



The Electro Hydraulic Power Pack powers the lacing tool MATOHYD-260WP. The installation pressure of 50 - 320 bar is manually adjustable and is activated using a foot pedal. The holding time can be preset from 1 - 6 seconds. The power pack allows accurate installation of soft belts such as felt. It is activated by a foot pedal.



Hydraulic Foot Pump

Description	Pitch (mm)	Order No.	kg
Crimping Jaws MATOHYDVICE 200W for Hydraulic Basic Unit MATOHYD , without Universal Comb (UNICOMB)			
MATOHYDVICE 200W (Max. working width 200 mm)		42 200 02 01	2.7
 <p>MATOHYDVICE 200W without Fastener Retainer (Universal Comb UNICOMB)</p> <p>The Vice Lacer MATOHYDVICE 200W is specifically designed for hydraulic lacing. The jaw construction ensures optimum installation pressure resulting in high fastener retention. The Universal Comb (not included) shown below is available in different pitches.</p>			
UNICOMB for Installation Unit MATOHYDVICE Working Width 300 mm			
UNICOMB 50-300VH (incl. Comb Pin Dia. 1.5 and 1.7 mm)	1.7	42 480 11 80	0.5
UNICOMB 60-300VH (incl. Comb Pin Dia. 1.7 and 2.0 mm)	2.54	42 480 11 50	0.5
 <p>The exchangeable Universal Comb "UNICOMB" is designed so that both comb sizes can be used alternately with only one MATOVICE or HYDVICE . They can be exchanged without tools. Wider belts are easily installed in multiple steps. The standard comb width is 300 mm; however, other widths are available on request, see page 54.</p>			

Description	Working Width	Order No.	kg
Accessories			
Belt Cutter LD	150 mm	42 510 01 50	2.4
<p>The Belt Cutter will cut belts up to 150mm wide in one pass. The round blade design has eight positions so when blade is worn turn to next position (see below).</p>			
Spare Blade for Belt Cutter LD (PU 1)		42 510 11 50	0.01
<p>Spare Blade with eight positions.</p>			
Textile Belt Cutter 90° Angle Stop	50 mm	42 050 10 10	0.4
Spare Blade for Textile Belt Cutter (PU 10)		42 050 10 11	0.01
<p>The Textile Belt Cutter is ideal for cutting Light Duty Belts such as Laundry Belts. The 90° stop produces an accurate cut.</p>			
Supergrip Skiver	7 mm	42 640 00 00	0.1
<p>Hand Skiver for patterned and rough top belts.</p>			

Description	Working Width	Order No.	kg
Accessories			
Belt Clamp W1	100 mm	42 480 90 00	1.2
			
<p>The Belt Clamp W1 enables easy tensioning and de-tensioning of laundry belts.</p>			
Fastener Inserting Tool	50 mm	42 200 20 90	0.1
Fastener Inserting Tool	90 mm	42 200 20 91	0.2
Fastener Inserting Tool	120 mm	42 200 20 92	0.3
Further sizes upon request			
			
<p>These tools are recommended for installing PATCH fasteners in fixed Combs and small spaces and avoids finger contact with heating clamps. It can be used with fastener pitches 1.7 mm and 2.54 mm.</p>			
Tape Binder (300g) for Textile Belts		42 232 02 00	0.4
			
<p>The Tape Binder is used for preventing fraying of belt ends.</p>			

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.

Cut-to-length notched Nylon Pins (NYN) are recommended for laundry applications such as folding machines.

Choosing the Connecting Pin

Belt Fastener Size	
M51.2SW-SS-P	M61.2LSW-SS-P
M51.2SW-SS	M61.2LSW-SS M61.2LSW-S
M51.2NW-SS	M61.2LNW-SS M61.2LNW-S
Connecting Pin Size	
MK13...	MK15...
Dia. 1.3 mm	Dia. 1.5 mm

Choosing the Connecting Pin Type

Connecting Pin	Symbol	Pin Wear Properties	Fastener Wear Properties	Rust Resistant	Chemical Resistant	Temperature Consistency	Magnetic Properties	Rigidity	Flexibility	Different Belt Tensions
Solid Nylon Solid Nylon, notched	...NYN	excellent	excellent	excellent	excellent	acceptable	non magnetic	acceptable	excellent	excellent
Stainless Steel Wire 316 (1.4401) solid wire, notched	...WSSN	acceptable	good	very good	very good	excellent	slightly magnetic	excellent	poor	excellent
PEEK-Cable* Solid PEEK, notched	...PEN	excellent	excellent	excellent	excellent	up to 240°C	non magnetic	acceptable	excellent	excellent

* PEEK (high temperature resistant Polyetheretherketone)

Belt Width	Length (mm)	No. Pins Packing Unit	Order No.	kg	
Connecting Pin MK13 NYN, cut to length					
Solid Nylon notched					
20 mm	17	100	42 724 02 00	0.01	
25 mm	22	100	42 724 02 50	0.01	
30 mm	27	100	42 724 03 00	0.01	- Connecting Pins notched - Diameter 1.3 mm
35 mm	32	100	42 724 03 50	0.01	
38 mm	35	100	42 724 04 00	0.01	
48 mm	45	100	42 724 04 80	0.01	
50 mm	47	100	42 724 05 00	0.01	
57 mm	54	100	42 724 05 70	0.01	
60 mm	57	100	42 724 06 00	0.01	
63 mm	60	100	42 724 06 30	0.01	
65 mm	62	100	42 724 06 50	0.02	
70 mm	67	100	42 724 07 00	0.02	
75 mm	72	100	42 724 07 50	0.02	
80 mm	77	50	42 724 08 00	0.02	
83 mm	80	50	42 724 08 30	0.02	
88 mm	85	50	42 724 08 80	0.02	
95 mm	92	50	42 724 09 50	0.02	
100 mm	97	50	42 724 10 00	0.02	
105 mm	102	50	42 724 10 50	0.02	
110 mm	107	50	42 724 11 00	0.02	
113 mm	110	50	42 724 11 30	0.02	
120 mm	117	50	42 724 12 00	0.02	
140 mm	137	50	42 724 14 00	0.02	
150 mm	147	50	42 724 15 00	0.02	
300 mm	297	20	42 724 30 00	0.02	
Connecting Pin MK13 NYN, 30 Meter Coil					
Solid Nylon, notched					
MK13-NYN	30 Meter	1	42 513 01 30	0.1	
Connecting Pin MK13 WSSN, 30-Meter Coil					
Wire Stainless 316 (1.4401), notched					
MK13-WSSN	30 Meter	1	42 508 01 30	0.34	
Connecting Pin MK13 PEN, 30-Meter Coil					
Notched PEEK-Cord					
MK13-PEN	30 Meter	1	42 516 01 30	0.1	



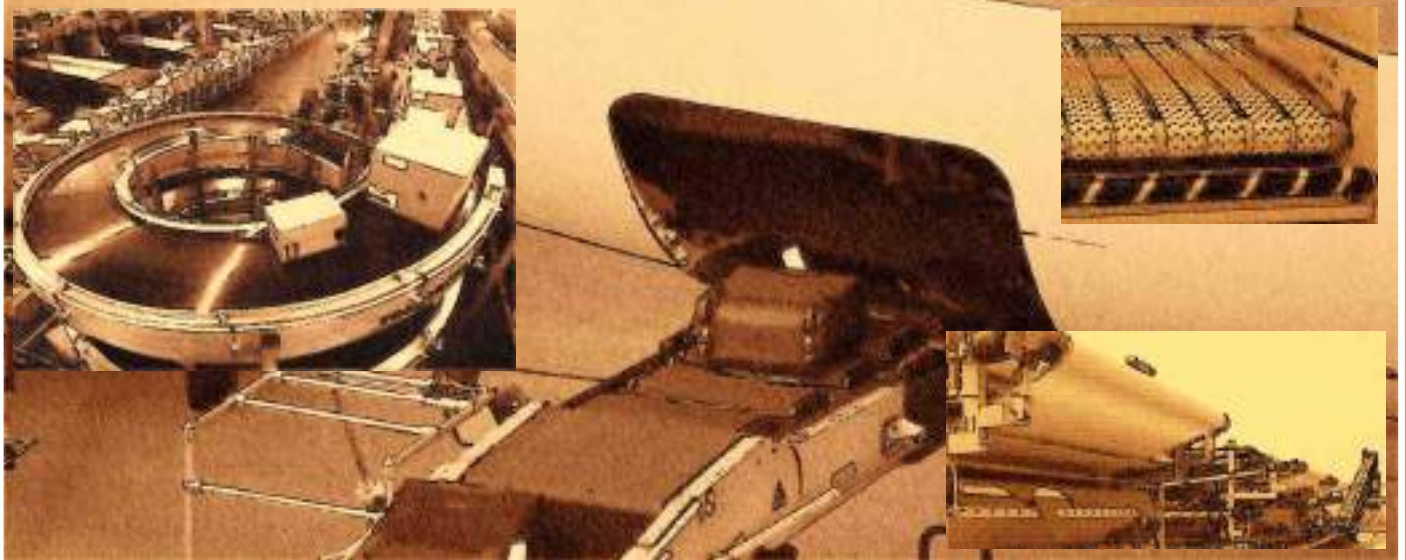
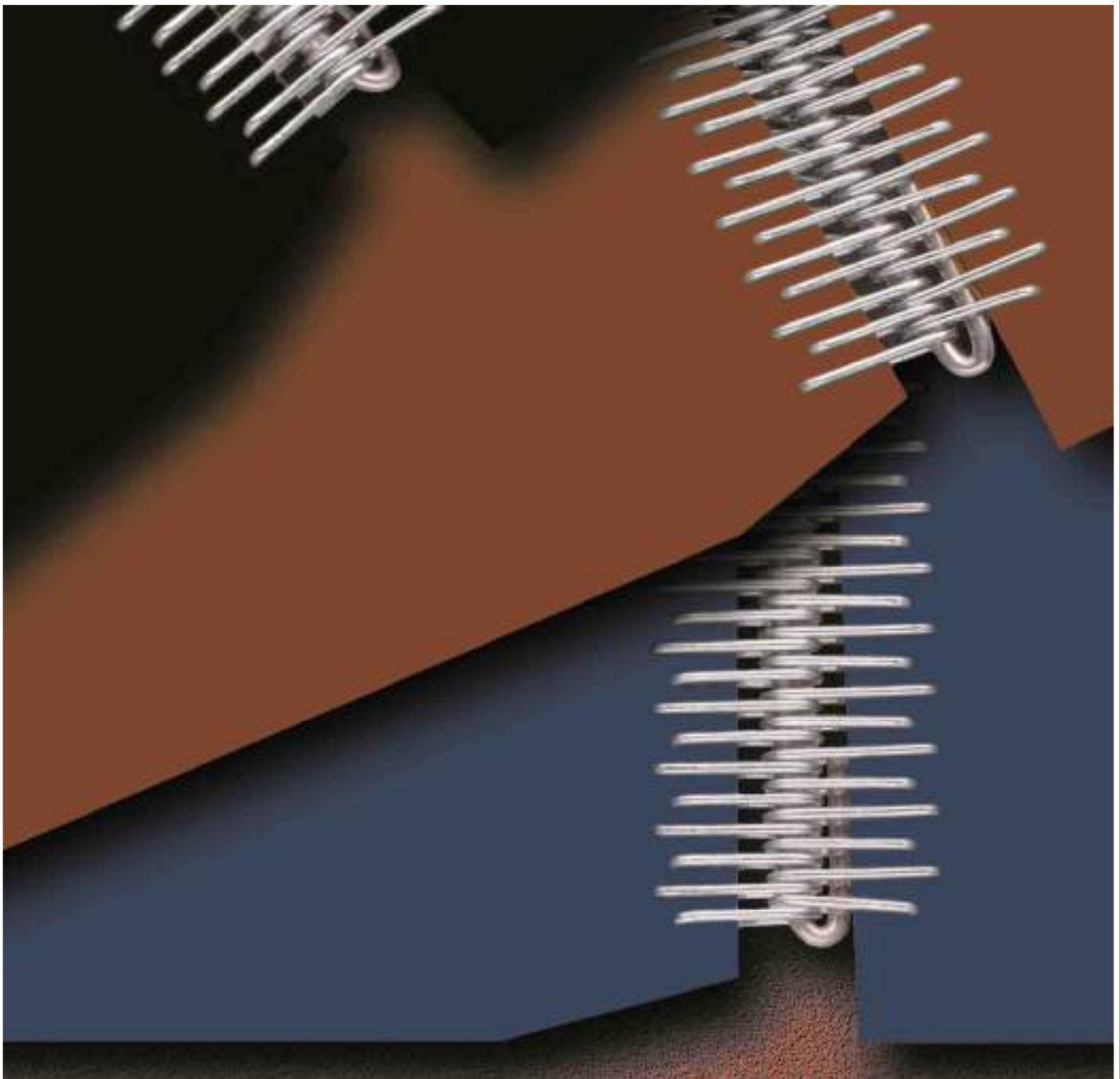
Connecting Pins MK15

for Fasteners M60



Belt Width	Length (mm)	No. Pins Packing Unit	Order No.	kg	
Connecting Pin MK15 NYN, cut to length					
Solid Nylon notched					
25 mm	22	100	42 208 02 50	0.01	
30 mm	27	100	42 208 03 00	0.01	
32 mm	29	100	42 208 03 20	0.01	
35 mm	32	100	42 208 03 50	0.01	- Connecting Pins notched
38 mm	35	100	42 208 03 80	0.01	- Diameter 1.5 mm
40 mm	37	100	42 208 04 00	0.01	
48 mm	45	100	42 208 04 80	0.01	
50 mm	47	100	42 208 05 00	0.01	
57 mm	54	100	42 208 05 70	0.01	
60 mm	57	100	42 208 06 00	0.01	
63 mm	60	100	42 208 06 30	0.01	
75 mm	72	100	42 208 07 50	0.02	
83 mm	80	50	42 208 08 30	0.01	
88 mm	85	50	42 208 08 80	0.01	
95 mm	92	50	42 208 09 50	0.01	
100 mm	97	50	42 208 10 00	0.01	
105 mm	102	50	42 208 10 50	0.01	
110 mm	107	50	42 208 11 00	0.01	
113 mm	110	50	42 208 11 30	0.01	
120 mm	117	50	42 208 12 00	0.01	
127 mm	124	50	42 208 12 70	0.01	
140 mm	137	50	42 208 14 00	0.02	
150 mm	147	50	42 208 15 00	0.02	
168 mm	165	25	42 208 16 80	0.01	
180 mm	177	25	42 208 18 00	0.01	
190 mm	187	25	42 208 19 00	0.01	
200 mm	197	25	42 208 20 00	0.01	
254 mm	251	25	42 208 25 40	0.01	
280 mm	277	20	42 208 28 00	0.01	
285 mm	282	20	42 208 28 50	0.01	
293 mm	290	20	42 208 29 30	0.01	
300 mm	297	20	42 208 30 00	0.01	
Connecting Pin MK15 NYN, 30 Meter Coil					
Solid Nylon, notched					
MK15-NYN	30 Meter	1	42 513 01 50	0.1	
Connecting Pin MK15 WSSN, 30 Meter Coil					
Wire Stainless 316 (1.4401), notched					
MK15-WSSN	30 Meter	1	42 508 01 50	0.38	
Connecting Pin MK15 PKN, 30 Meter Coil					
Notched PEEK-Cord					
MK15-PEN	30 Meter	1	42 516 01 50	0.1	





What do you need?

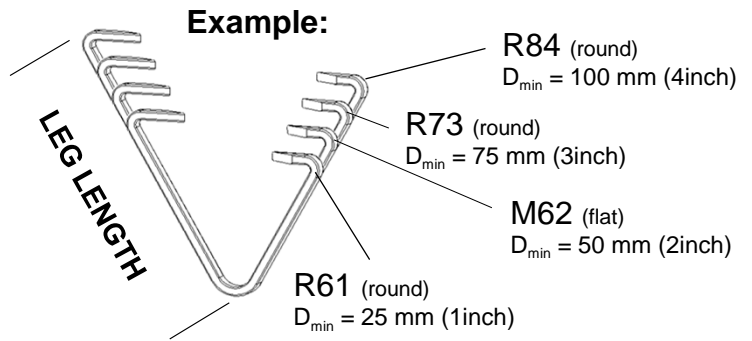
- **Belt thickness**
- **Minimum pulley diameter**
- **Fastener pitch**

How do you proceed?

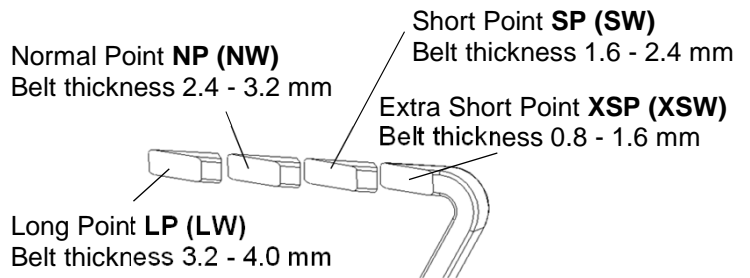
- **Selection Charts on pages 42 and 43**

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 58 - 59

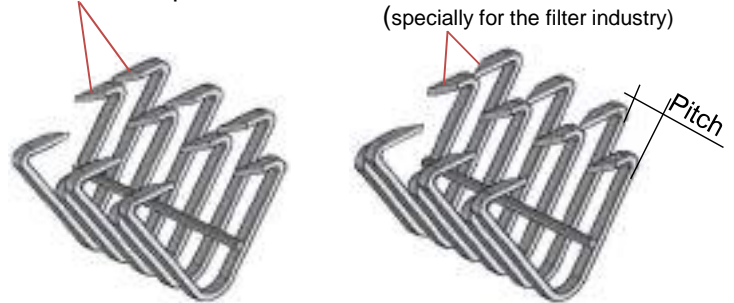


The leg length dependent on the pulley diameter. The bigger the minimum pulley diameter, the longer the leg length. See key to selection on page 42.



Points with Equal Cut

Points with Alternate Cut
(specially for the filter industry)



Fastener Material Selection Chart

Material	Symbol	Magnetic Property	Abrasion Resistant	Chemical Resistant	Rust Resistant	Sparking	Systems
Galvanized Steel	G	highly magnetic	very good	unacceptable	good	yes	R20, R30
Special Steel	C	highly magnetic	very good	unacceptable	poor	yes	R80
Stainless Steel, 1.4016	S	magnetic	very good	good	good	yes	M50, M60, R20, R30, R70, R80
Stainless Steel, 1.4404	SS	slightly magnetic	very good	very good	excellent	yes	M50, M60, M70, R20, R30, R60, R70, R80
Monel 400	MO	slightly magnetic	acceptable	excellent	excellent	yes	Upon Request
Inconel 600	IN	not magnetic	acceptable	excellent	excellent*	yes	Upon Request
Hastelloy C4	HA	not magnetic	very good	excellent	excellent	yes	Upon Request

* for higher temperatures as well

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

Pitch: 1.7mm			Fastener and Pin Selection Chart for Series M50								
Min. Pulley Diameter	Wire Measurements (W x H)		Connecting Pin Diameter mm (Type)	Belt Thickness							
				≤ 1/32"	1/16"	5/64"	3/32"	7/64"	1/8"	9/64"	5/32"
	mm	inch		≤ 0.8mm	1.6mm	2.0mm	2.4mm	2.8mm	3.2mm	3.6mm	4.0mm
30mm	0.65 x 0.5	0.026 x 0.020	1.3	M51.2SW							
1 1/8"	0.65 x 0.5	0.026 x 0.020	(MK13)				M51.2NW				

Pitch: 2.54mm			Fastener and Pin Selection Chart for Series M60 and R60							
Min. Pulley Diameter	Wire Measurements (Dia. resp. W x H)		Connecting Pin Diameter mm (Type)	Belt Thickness						
				≤ 1/32"	1/16"	5/64"	3/32"	7/64"	1/8"	9/64"
	mm	inch		≤ 0.8mm	1.6mm	2.0mm	2.4mm	2.8mm	3.2mm	3.6mm
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		M61XSP						
	0.9 x 0.5	0.035 x 0.020		M61LSP						
	0.9 x 0.7	0.035 x 0.028		M61SP						
	Dia. 0.80	Dia. 0.031		R61SP						
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		M62XSP						
	0.9 x 0.5	0.035 x 0.020		M62LSP						
	0.9 x 0.7	0.035 x 0.028		M62SP						
	Dia. 0.80	Dia. 0.031	R62SP							
	0.9 x 0.5	0.035 x 0.020	1.8 (MK18)	M62LNP						
	0.9 x 0.7	0.035 x 0.028		M62NP						
	0.9 x 0.7	0.035 x 0.028						M62LP		
Dia. 0.80	Dia. 0.031					R62NP				
75mm 3"	0.9 x 0.7	0.035 x 0.028	1.5 (MK15)	M63SP						
	Dia. 0.80	Dia. 0.031		R63SP						
	0.9 x 0.7	0.035 x 0.028	1.8 (MK18)	M63NP						
	Dia. 0.80	Dia. 0.031		R63NP						
	0.9 x 0.7	0.035 x 0.028						M63LP		
	Dia. 0.80	Dia. 0.031						R63LP		

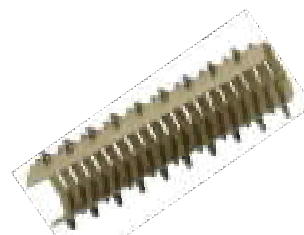
M 6 1 L X S P

Example: Key to selection

XSP	Extra Short Point
SP	Short Point
NP	Normal Point
LP	Long Point
XSW	Extra Short Point (with Alternate Cut)
SW	Short Point (with Alternate Cut)
NW	Normal Point (with Alternate Cut)
LW	Long Point (with Alternate Cut)
L :	Extra flat Wire Measurements (Flat Wire)
1 :	Minimum Drum Dia. 25 mm
2 :	Minimum Drum Dia. 50 mm
3 :	Minimum Drum Dia. 75 mm
4 :	Minimum Drum Dia. 100 mm
2 :	Pitch 3.175 mm (Carded)
3 :	Pitch 3.67 mm (Carded)
5 :	Pitch 1.7 mm (Barred)
6 :	Pitch 2.54 mm (Barred)
7 :	Pitch 3.175 mm (Barred)
8 :	Pitch 3.67 mm (Barred)
M :	Flat Wire
R :	Round Wire



Barred



Carded

Selection Chart

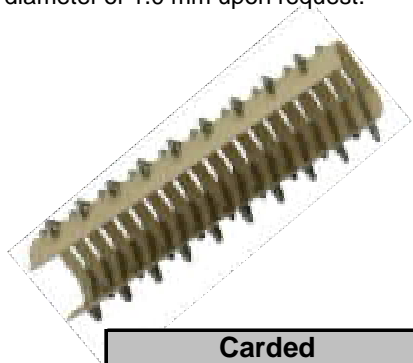
for Fastener Sizes of Systems R20, R30, R70, R80 and M70



Pitch: 3.175mm			Fastener and Pin Selection Chart for Series R20, R70, and M70										
Min. Pulley Diameter	Wire Measurements (Dia. resp. B x H)		Connecting Pin Diameter mm (Type)	Belt Thickness									
				5/64"	1/8"	5/32"	3/16"	1/4"	9/32"	5/16"	11/32"	25/64"	
	mm	inch		2mm	3mm	4mm	5mm	6mm	7mm	8mm	9mm	10mm	
50mm 2"	Dia. 1.0	Dia. 0.040	1.8 (MK18)	R22SP		R72SW							
	Dia. 1.0	Dia. 0.040	2.0 (MK20)	R22NP		R72NW							
75mm 3"	Dia. 1.0	Dia. 0.040	1.8 (MK18)	R23SP		R73SW							
	Dia. 1.0	Dia. 0.040	2.0 (MK20)	R23NP		R73NW							
	Dia. 1.0	Dia. 0.040	2.0 (MK20)					R73LW					
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			Fastener and Pin Selection Chart for Series R30 and R80										
Min. Pulley Diameter	Wire Diameter		Connecting Pin Diameter mm (Typ)	Belt Thickness									
				5/64"	1/8"	5/32"	3/16"	1/4"	9/32"	5/16"	11/32"	25/64"	
	mm	inch		2mm	3mm	4mm	5mm	6mm	7mm	8mm	9mm	10mm	
50mm 2"	Dia. 1.4	Dia. 0.055	2.0 (MK20)	R32		R82*							
75mm 3"	Dia. 1.4	Dia. 0.055	2.5 (MK25)	R33		R83*							
100mm 4"	Dia. 1.4	Dia. 0.055	3.0 (MK30)	R34		R84							
125mm 5"	Dia. 1.4	Dia. 0.055	3.5 (MK35)	R35		R85							
150mm 6"	Dia. 1.4	Dia. 0.055	4.0 (MK40)	R36		R86							

* Available with wire diameter of 1.0 mm upon request.



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.

Rectangular Wire Fasteners M50

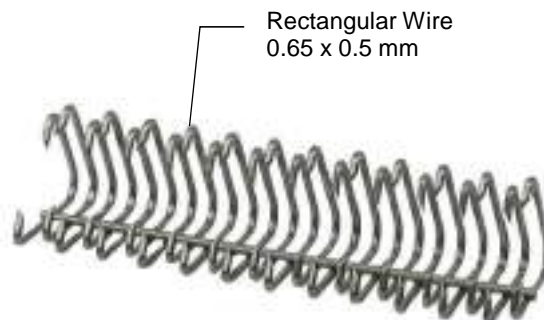
Standard Design, Pitch 1.7 mm, Welded on Barred Wire

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

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

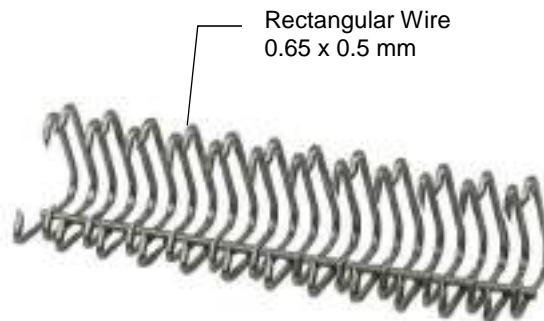


- **Material:** **Stainless Steel 316L (1.4404)**
- Belt Thickness: 1.6 - 3.2 mm
- Pitch: 1.7 mm
- Wire Dimension: 0.65 x 0.5 mm
- Barred Fasteners
- Box does not include Connecting Pins

Chromium Steel 430 (S), Strip Length 300 mm

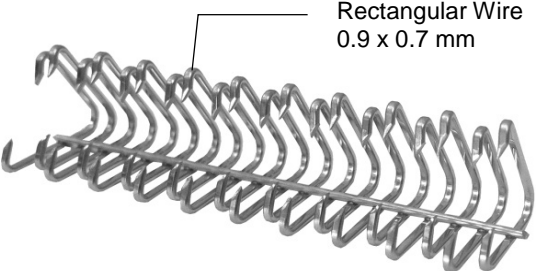
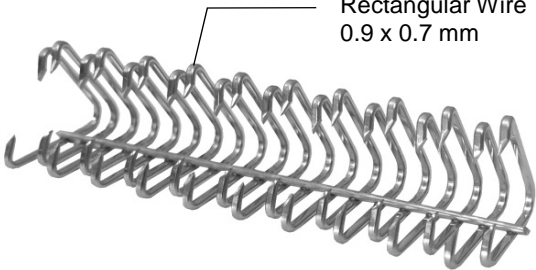
Box Content : 12 Strips

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 58 -59 for Connecting Pins

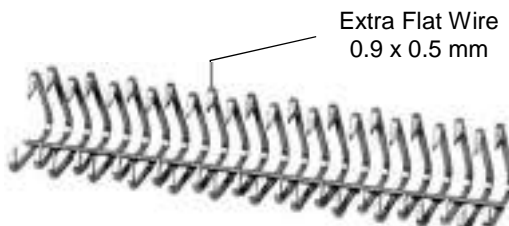
Description	Belt Thickness	Min. Drum Dia.	Order No.	kg	
Stainless Steel 316L (SS), Strip Length 300 mm					
Box Content : 12 Strips					
M61XSP	0.8-1.6 mm	25 mm	42 704 26 10	0.2	
M61SP	1.6-2.4 mm	25 mm	42 704 26 11	0.2	
M62XSP	0.8-1.6 mm	50 mm	42 704 26 20	0.3	
M62SP	1.6-2.4 mm	50 mm	42 704 26 21	0.3	
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	
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	<p>- Material: Stainless Steel 316L (1.4404)</p> <p>- Belt Thickness: 0.8 - 4.0 mm</p> <p>- Pitch: 2.54 mm</p> <p>- Wire Dimension: 0.9 x 0.7 mm</p> <p>- Barred Fasteners</p> <p>- Box does not include Connecting Pins</p>
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	
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	
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	<p>- Material : Chromium Steel 430 (1.4016)</p> <p>- Belt Thickness: 0.8 - 4.0 mm</p> <p>- Pitch: 2.54 mm</p> <p>- Wire Dimension: 0.9 x 0.7 mm</p> <p>- Barred Fasteners</p> <p>- Box does not include Connecting Pins</p>
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	

Please see pages 58 -59 for Connecting Pins

Low Profile Fasteners M60L

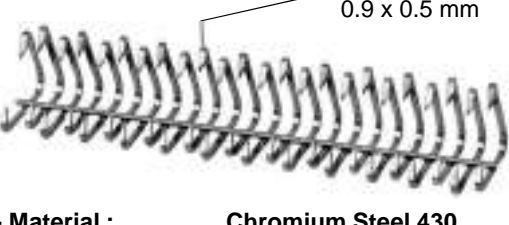
Extra Flat Design, Pitch 2.54 mm, Welded on Barred Wire

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



Extra Flat Wire
0.9 x 0.5 mm

- Material : **Stainless Steel 316L (1.4404)**
- 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



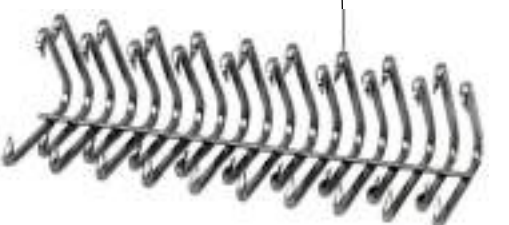
Extra Flat Wire
0.9 x 0.5 mm

- Material : **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



Flat Wire
1.2 x 1.0 mm

- 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 58 -59 for Connecting Pins

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 Fasteners Series R60

Pitch 2.54 mm

Barred Fasteners

The **R60 Series** is approximately 10 – 15% lower cost than the equivalent rectangular hook fastener. Material selection is the same as the rectangular hook.

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

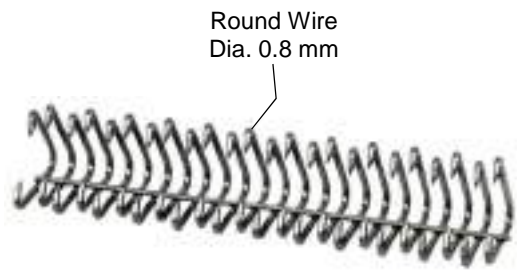
These fasteners are 1.40 mm in diameter and can be used for a belt thickness ranging from 3.0 mm to 9.0 mm.

Contact our Mato specialist for assistance in selecting the correct fastener for your application. Special designs (intermediate sizes and other wire dimensions) are available on request.

Round Wire Fasteners R60

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				
R61SP	1.6-2.4 mm	25 mm	42 704 25 11	0.3
R62SP	1.6-2.4 mm	50 mm	42 704 25 21	0.3
R62NP	2.4-3.2 mm	50 mm	42 704 25 22	0.3
R62LP	3.2-4.0 mm	50 mm	42 704 25 23	0.3
R63SP	1.6-2.4 mm	75 mm	42 704 25 31	0.4
R63NP	2.4-3.2 mm	75 mm	42 704 25 32	0.4
R63LP	3.2-4.0 mm	75 mm	42 704 25 33	0.4
Stainless Steel 316L (SS), Strip Length 600 mm Box Content : 12 Strips				
R61SP	1.6-2.4 mm	25 mm	42 704 65 11	0.5
R62SP	1.6-2.4 mm	50 mm	42 704 65 21	0.6
R62NP	2.4-3.2 mm	50 mm	42 704 65 22	0.6
R62LP	3.2-4.0 mm	50 mm	42 704 65 23	0.6
R63SP	1.6-2.4 mm	75 mm	42 704 65 31	0.7
R63NP	2.4-3.2 mm	75 mm	42 704 65 32	0.7
R63LP	3.2-4.0 mm	75 mm	42 704 65 33	0.7



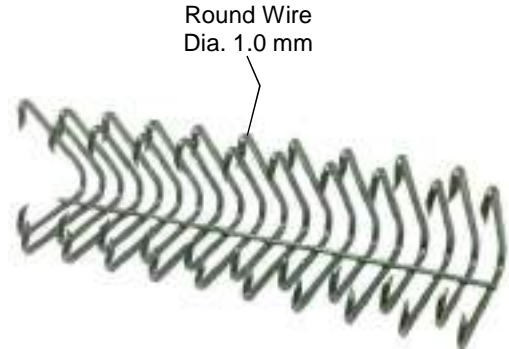
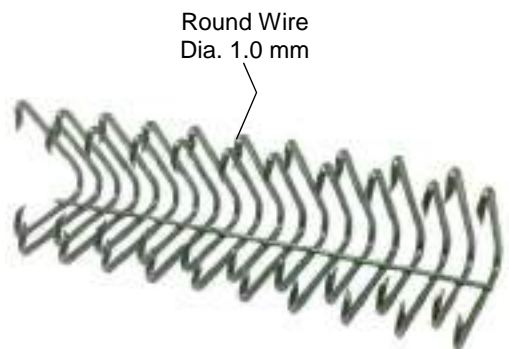
- Material: **Stainless Steel 316L (1.4404)**
- Belt Thickness: 1.6 - 4.0 mm
- Pitch: 2.54 mm
- Wire Dimension: 0.8 mm
- Barred Fasteners
- Box does not include Connecting Pins

Please see pages 58 -59 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	
R73SW	2.0-3.0 mm	75 mm	42 704 17 31	0.4	
R73NW	3.0-4.0 mm	75 mm	42 704 17 32	0.5	
R73LW	4.0-5.0 mm	75 mm	42 704 17 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	
R73SW	2.0-3.0 mm	75 mm	42 704 57 31	0.8	- Material : Stainless Steel 316L (1.4404)
R73NW	3.0-4.0 mm	75 mm	42 704 57 32	0.8	- Belt Thickness: 2.0 - 4.0 mm
R73LW	4.0-5.0 mm	75 mm	42 704 57 33	0.8	- Pitch: 3.175 mm
					- Wire Diameter: 1.0 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	
R73SW	2.0-3.0 mm	75 mm	42 703 17 31	0.4	
R73NW	3.0-4.0 mm	75 mm	42 703 17 32	0.5	
R73LW	4.0-5.0 mm	75 mm	42 703 17 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	
R73SW	2.0-3.0 mm	75 mm	42 703 57 31	0.8	- Material : Chromium Steel 430 (1.4016)
R73NW	3.0-4.0 mm	75 mm	42 703 57 32	0.8	- Belt Thickness: 2.0 - 4.0 mm
R73LW	4.0-5.0 mm	75 mm	42 703 57 33	0.8	- Pitch: 3.175 mm
					- Wire Diameter: 1.0 mm
					- Barred Fasteners
					- Box does not include Connecting Pins



Please see pages 58 -59 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					<p>Round Wire Dia. 1.4 mm</p>
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					<p>Round Wire Dia. 1.4 mm</p>
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	
<p>- Material : Stainless Steel 316L (1.4404)</p> <p>- Belt Thickness: 3.0 - 9.0 mm</p> <p>- Pitch: 3.67 mm</p> <p>- Wire Diameter: 1.4 mm</p> <p>- Barred Fasteners</p> <p>- Box does not include Connecting Pins</p>					
Chromium Steel 430 (S), Strip Length 300 mm					<p>Round Wire Dia. 1.4 mm</p>
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	
Chromium Steel 430 (S), Strip Length 600 mm					<p>Round Wire Dia. 1.4 mm</p>
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	
<p>- Material : Stainless Chromium Steel 1.4016 (S)</p> <p>- Belt Thickness: 3.0 - 9.0 mm</p> <p>- Pitch: 3.67 mm</p> <p>- Wire Diameter: 1.4 mm</p> <p>- Barred Fasteners</p> <p>- Box does not include Connecting Pins</p>					
Special Steel (C), Strip Length 300 mm					<p>Round Wire Dia. 1.4 mm</p>
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	
Special Steel (C), Strip Length 600 mm					<p>Round Wire Dia. 1.4 mm</p>
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	
<p>- Material : Special Steel</p> <p>- Belt Thickness: 3.0 - 9.0 mm</p> <p>- Pitch: 3.67 mm</p> <p>- Wire Diameter: 1.4 mm</p> <p>- Barred Fasteners</p> <p>- Box does not include Connecting Pins</p>					

Please see pages 58 -59 for Connecting Pins

Description	Belt Thickness	Min. Drum Dia.	Order No.	kg		
Stainless Steel 316L (SS), Strip Length 300 mm					 <p>Round Wire Dia. 1.0 mm</p> <p>- Material : Stainless Steel 316L (1.4404) - Belt Thickness: 2.0 - 4.0 mm - Pitch: 3.175 mm - Wire Diameter: 1.0 mm</p> <p>- Carded - Box does not include Connecting Pins</p>	
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		
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	 <p>Round Wire Dia. 1.0 mm</p> <p>- Material : Chromium Steel 430 (1.4016) - Belt Thickness: 2.0 - 4.0 mm - Pitch: 3.175 mm - Wire Diameter: 1.0 mm</p> <p>- Carded - Box does not include Connecting Pins</p>	
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		
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		 <p>Round Wire Dia. 1.0 mm</p> <p>- Material : Steel, Galvanized - Belt Thickness: 2.0 - 4.0 mm - Pitch: 3.175 mm - Wire Diameter: 1.0 mm</p> <p>- Carded - Box does not include Connecting Pins</p>
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		

Please see pages 58 -59 for Connecting Pins

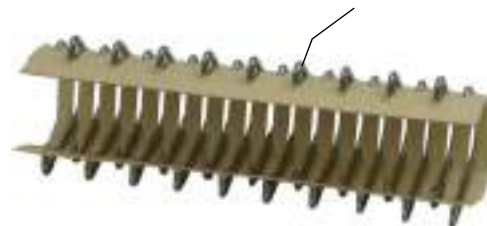
Description	Belt Thickness	Min. Drum Dia.	Order No.	kg
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Stainless Steel 316L (SS), Strip Length 300 mm

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

Round Wire
Dia. 1.4 mm



- 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

Round Wire
Dia. 1.4 mm



- 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

Round Wire
Dia. 1.4 mm



- 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 58 -59 for Connecting Pins

Description	Comb Width	Pitch (mm)	Order No.	kg
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
Profi Vice Lacer MATOVICE Without Fastener Retainer (Universal Comb UNICOMB)				
MATOVICE 120 (Max. press width 120 mm)			42 120 00 00	2.3
Universal 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
<u>Note :</u>				
UNICOMB 30/80 for Belt Fastener R32, R33, R34, R82, R83, R84				
UNICOMB 35/85 for Belt Fastener R35, R36, R85				
UNICOMB D70/71 and D72/73 for Belt Fastener D70, D71, D72, D73 (see pages 64 - 65)				





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.



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.



The exchangeable Universal Comb "UNICOMB" is designed so that both comb sizes can be used alternately with only one MATOVICE or HYDVICE. They can be exchanged without tools. Wider belts are easily installed in multiple steps. The standard comb width is 300 mm; however, other widths are available on request, see page 54.

Description	Comb Width	Pitch (mm)	Order No.	kg	
Lacing Tool MATOROLL					
Without Fastener Retainer (Universal Comb UNICOMB)					
MATOROLL	600 mm		42 280 20 00	14.2	
MATOROLL	1000 mm		42 280 50 00	20.2	
MATOROLL	1500 mm		42 280 00 00	27.7	
Universal 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	
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	

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

Splices wider than 300 mm can be installed with the different size UNICOMBS as shown.

These Universal Combs may also be used for the Profi MATOVICE 120 (page 54) and MATOHYDVICE 200/400 (page 57)

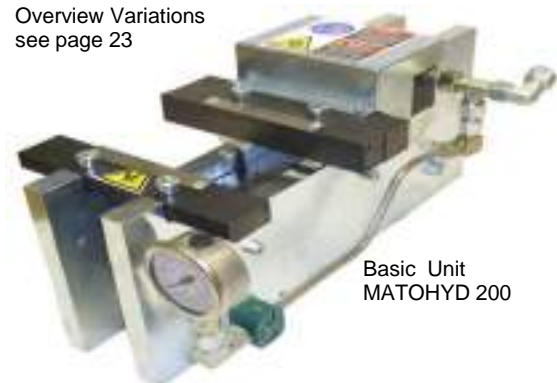
Note :

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

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

UNICOMB D70/71 and D72/73 for Belt Fastener D70, D71, D72, D73 (see pages 64 - 65)

Description	Comb Width	Order No.	kg
Hydraulic Installation Unit MATOHYD (Basic Unit)			
			<p>Note: The Lacing Tool consists of - Basic Unit MATOHYD (page 56) - Vice Lacer MATOHYDVICE (page 57) with Universal Comb UNICOMB (page 57) - Hydraulic Power Pack -PA (page 56) or Foot Pump MATOHYD-FP (page 56)</p> <p>Overview Variations see page 23</p>
MATOHYD 200	200 mm	42 200 00 00	24.0
MATOHYD 400	400 mm	42 400 00 00	140
Conversion Kit 260WP for converting the Hydr. Installation Unit MATOHYD 200 and 200W (page 56 and 33) to a MATOHYD 260 WP (Patch Splices, page 24)		42 200 21 90	5.2
Hydraulic Power Pack for Basic Unit MATOHYD 200			
Power Pack MATOHYD PA 200 -1 1.17 l/min, 400V / 50Hz / 3Phases 500 bar		42 200 22 00	18.5
Power Pack MATOHYD PA 200 -2 1.17 l/min, 400V / 60Hz / 3Phases 500 bar		42 200 22 01	18.5
Power Pack MATOHYD PA 200 -3 1.0 l/min, 230V / 50Hz / 1Phases 500 bar		42 200 22 02	18.5
Hydraulic Power Pack for Basic Unit MATOHYD 400			
Power Pack MATOHYD PA 400 -1 3.2 l/min, 400V / 50Hz / 3Phases 500 bar		42 200 44 00	35.0
Power Pack MATOHYD PA 400 -1-E 3.2 l/min, 400V / 50Hz / 3Phase 500 bar		42 200 45 00	40.0
Foot Pump			
Foot Pump MATOHYD FP up to 500 bar		42 200 05 00	7.4



Basic Unit MATOHYD 200

The MATOHYD hydraulic tool is used for high quality installations. All belt width can be installed in multi steps.

Using the converting kit 260WP, the hydraulic installation Unit MATOHYD 200 can also be used as Basic Unit to install Patch Fasteners (see page 24).



The Electro Hydraulic Power Pack powers the lacing tool MATOHYD. The installation pressure of 50 - 500 bar is manually adjustable and is activated using a foot pedal. The holding time can be preset from 1 - 6 seconds. The power pack allows accurate installation of soft belts such as felt.



The Hydraulic Power Pack **PA 400-1-E** (shown with Basic Unit MATOHYD 400) is equipped with an electronic control system with Touch-Screen panel. It holds 99 programme memory positions that stores different belts and its relevant parameters (e. g. press in pressure, heating temperature and heating time). This allows optimum and reproducible pressing results.



Hydraulic Foot Pump

Accessories

Lacing Tools (Hydraulic) for Wire Systems M + R



Description	Pitch (mm)	Order No.	kg
Lacing Tool MATOHYDVICE for Hydraulic Basic Machine MATOHYD , without Universal Comb			
MATOHYDVICE 200 (Max. press width 200 mm)		42 200 02 00	2.7
MATOHYDVICE 400 (Max. press width 400 mm)		42 400 04 00	6.2
<p>MATOHYDVICE 200 (without Fastener Retainer UNICOMB)</p> <p>The Vice Lacer MATOHYDVICE is specifically designed for hydraulic lacing. The jaw construction ensures optimum installation pressure resulting in high fastener retention. The Universal Comb (not included) shown below is available in different pitches.</p>			
UNICOMB for Lacing Tool MATOHYDVICE Comb Width 300 mm (for MATOHYDVICE 200)			
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
<p>The exchangeable Universal Comb "UNICOMB" is designed so that all comb sizes can be used alternately with only one MATOVICE or HYDVICE . They can be exchanged without tools. Wider belts are easily installed in multiple steps. Please see page 55 for other widths or on request.</p> <p>Note: - use UNICOMB 30/80 for Belt Fastener R32, R33, R34, R82, R83, R84 - use UNICOMB 35/85 for Belt Fastener R35, R36, R85 - use UNICOMB D70/71 and D72/73 for Belt Fastener D70, D71, D72, D73 (see page 64 - 65)</p>			
Comb Width 600 mm (for MATOHYDVICE 400)			
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
Rollset for Lacing Tool MATOHYD 200			
Rollset (for the hydraulic Basic Machine MATOHYD 200)		42 200 06 00	4.2
<p>The Rollset is mounted directly under the MATOHYD lacing tool allowing the lacers to be when installing very wide belts.</p>			

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 Type / -Size							
M51.2SW	M51.2NW M61LXSP M61XSP M61LSP M61SP R61SP M62LXSP M62XSP M62SP M62LSP R62XSP R62SP R63SP M74XSW	M62NP M62LP M62LNP R62NP R62LP R22SP R23SP R72SW R73SW M63NP M63LP R63LP R63NP M74SW	R32 R22NP R23NP R72NW R73NW R73LW R82 M74NW M74LW	R33	R34	R35	R36
R83	R84	R85	R86				
Connecting Pin Size							
MK13...	MK15...	MK18...	MK20...	MK25...	MK30...	MK35...	MK40...
Dia. 1.3 mm	Dia. 1.5 mm	Dia. 1.8 mm	Dia. 2.0 mm	Dia. 2.5 mm	Dia. 3.0 mm	Dia. 3.5 mm	Dia. 4.0 mm
Comb Pin Size							
Dia. 1.5 mm	Dia. 1.7 mm	Dia. 2.0 mm		Dia. 2.6 mm	2.6 x 3.6 mm		

Choosing the Connecting Pin Type

Connecting Pin	Symbol	Pin Wear Properties	Fastener Wear Properties	Rust Resistant	Chemical Resistant	Temperature Consistency	Magnetic Properties	Rigidity	Flexibility	Different Belt Tension
Nylosteel Nylon coated music wire	...NST	excellent	excellent	acceptable	acceptable	acceptable	highly magnetic	very good	very good	good
Nylon stainless Nylon coated 316SS solid wire	...NSS	excellent	excellent	excellent	very good	acceptable	slightly magnetic	very good	very good	good
Smooth solid Nylon	...NY	excellent	excellent	excellent	excellent	acceptable	non magnetic	acceptable	excellent	good
Solid Nylon	...NYN									excellent
Smooth 316SS solid wire	...WSS	acceptable	good	very good	very good	excellent	slightly magnetic	excellent	poor	acceptable
316SS solid wire notched	...WSSN*									excellent
Nylocable Nylon coated zinc plated cable	...NC	excellent	excellent	good	good	acceptable	magnetic	good	very good	good
Nylocable Stainless Nylon coated 316SS cable	...NCS	excellent	excellent	excellent	very good	acceptable	slightly magnetic	good	very good	good
Smooth PEEK solid wire	...PE*	excellent	excellent	excellent	excellent	up to 240°C	non magnetic	acceptable	excellent	excellent
PEEK-Schnur*	...PEN*									
PEEK solid wire notched										

* upon request resp. see page 38 / 39

Connecting Pin MK

for Wire Systems M and R



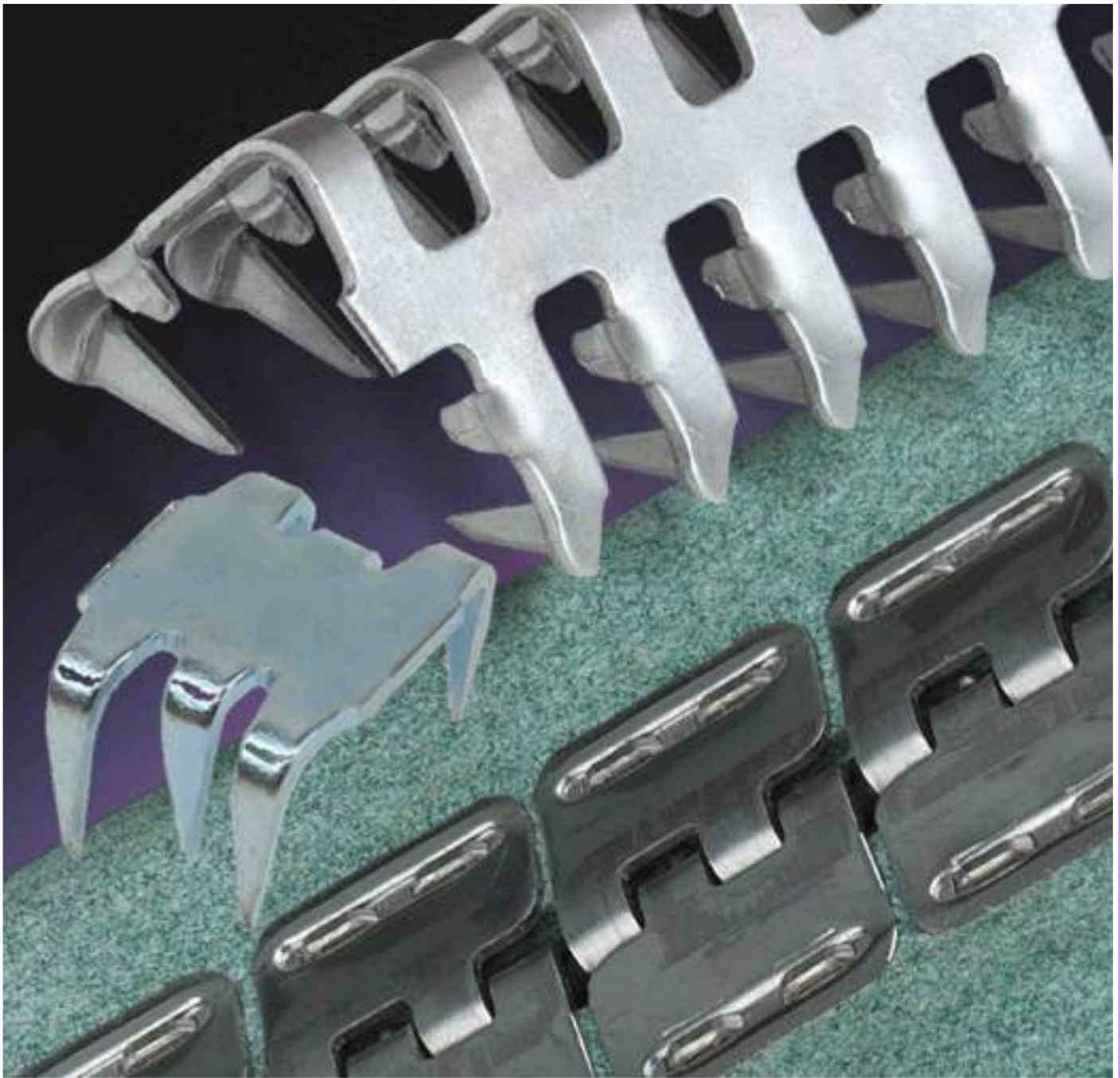
Description	Pin Dia. (mm)	Order No.	kg
Connecting Pins MK - Nylon Steel NST			
MK15 NST	1.5	42 501 01 50	0.3
MK18 NST	1.8	42 501 01 80	0.3
MK20 NST	2.0	42 501 02 00	0.3
MK25 NST	2.5	42 501 02 50	0.6
MK30 NST	3.0	42 501 03 00	0.9
MK35 NST	3.5	42 501 03 50	1.0
MK40 NST	4.0	42 501 04 00	1.2
Connecting Pins MK - 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			
MK13 NY	1.3	42 503 01 30	0.1
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

Connecting Pins MK - 30 Meter Coil



Other sizes in different materials are available on request.

See pages 37 - 39 for MK13/15-NYN (notched), MK13/15-WSSN (notched), MK13/15-PEEK (notched) and cut to length pins.



This Repair Kit is a low cost option for splicing belts in the field. The kit includes a simple installation tool and enough fasteners to splice up to a 600 mm belt width.

Requirements for splicing:

- Splicing Kit and Hammer
- Wooden Block
- Flat Steel Bar



Description	Belt Thickness	Order No.	kg
DR62-G Conveyor Belt Splicing Kit Belt Strength up to 190 kN/m Minimum Pulley Diameter 50 mm			
DR62	1.5 - 3.2 mm	55 380 00 24	0.4
DR125-G Conveyor Belt Splicing Kit Belt Strength up to 300 kN/m Minimum Pulley Diameter 75 mm			
DR125	3.2 - 4.8 mm	55 380 00 17	0.5
DR187-G Conveyor Belt Splicing Kit Belt Strength up to 380 kN/m Minimum Pulley Diameter 100 mm			
DR187	4.8 - 6.4 mm	55 380 00 00	0.7



- Content of the Belt Splicing Kit:
- 4 galvanised steel Fastener Strips DR, 300 mm length each
 - Installation Tool
 - 1 600 mm long Connecting Pin nylon covered stainless steel cable (MK NCS)
 - 4 Retaining Washers

Strip Length	Belt Thickness	Order No.	kg
Belt Fastener DR62-G with Connecting Pin MK20			
Belt Strength up to 190 kN/m		Minimum Pulley Diameter 50 mm	
300 mm	1.5-3.2 mm	42 101 62 30	0.6
600 mm	1.5-3.2 mm	42 101 62 60	1.2
1200 mm	1.5-3.2 mm	42 101 62 12	2.4
Belt Fastener DR125-G with Connecting Pin MK35			
Belt Strength up to 300 kN/m		Minimum Pulley Diameter 75 mm	
300 mm	3.2 - 4.8 mm	42 101 12 30	0.8
600 mm	3.2 - 4.8 mm	42 101 12 60	1.6
1200 mm	3.2 - 4.8 mm	42 101 12 12	3.1
Belt Fastener DR187-G with Connecting Pin MK51			
Belt Strength up to 380 kN/m		Minimum Pulley Diameter 100 mm	
300 mm	4.8 - 6.4 mm	42 101 18 30	1.2
600 mm	4.8 - 6.4 mm	42 101 18 60	2.4
1200 mm	4.8 - 6.4 mm	42 101 18 12	4.9
Belt Fastener DR62-SS with Connecting Pin MK20-NCS			
Belt Strength up to 190 kN/m		Minimum Pulley Diameter 50 mm	
300 mm	1.5-3.2 mm	42 104 62 30	0.6
600 mm	1.5-3.2 mm	42 104 62 60	1.2
1200 mm	1.5-3.2 mm	42 104 62 12	2.4
Belt Fastener DR125-SS with Connecting Pin MK35-NCS			
Belt Strength up to 300 kN/m		Minimum Pulley Diameter 75 mm	
300 mm	3.2 - 4.8 mm	42 104 12 30	0.8
600 mm	3.2 - 4.8 mm	42 104 12 60	1.6
1200 mm	3.2 - 4.8 mm	42 104 12 12	3.1
Belt Fastener DR187-SS with Connecting Pin MK51-NCS			
Belt Strength up to 380 kN/m		Minimum Pulley Diameter 100 mm	
300 mm	4.8 - 6.4 mm	42 104 18 30	1.2
600 mm	4.8 - 6.4 mm	42 104 18 60	2.4
1200 mm	4.8 - 6.4 mm	42 104 18 12	4.9



Material: **Steel, Galvanized**

Box content:
8 Strips of Fasteners
4 Connecting Pins



Material: **Stainless Steel 316**

Box content:
8 Strips of Fasteners
4 Connecting Pins

Please see page 63 for Connecting Pins in 30 Meter Coils.

Working Width	Reference	Order No.	kg
DR Installation Tools with Punch			
100 mm (incl. 1 punch)		42 490 01 00	1.1
300 mm (incl. 1 punch)		42 490 03 00	2.9
600 mm (incl. 2 punches)		42 490 06 00	5.5
Spare Parts for DR Installation Tools			
Comb DR	A	42 490 00 03	0.1
Die DR	B	42 490 00 04	0.2
Upper Plate DR	C	42 490 00 02	0.2
Separate Punch DR	D	42 490 00 01	0.2
Clamping Lever Complete	E	42 490 00 05	0.1
Compression Spring D13	F	42 490 00 06	0.01
Screw for Comb DR (PU 10)		42 490 00 07	0.02
Screw for Die DR (PU 10)		42 490 00 08	0.03

Installation Tool
300 mm

Fastener installation is quick and precise and different widths can easily be installed.

- Insert fastener strip and then belt and clamp.
- Punch the staples into the belt.
- The staples are set by means of a die in the tool.

Connecting Pins

for Hammer Systems DR



Description	Pin Dia.	Order No.	kg
Connecting Pins MK - 30 Meter Coil			
Nylocable NC			
MK 20-NC	2.0 mm	42 504 02 00	0.3
Nylocable Stainless NCS			
MK 20-NCS	2.0 mm	42 505 02 00	0.3
MK 35-NCS	3.5 mm	42 505 03 50	0.7
MK 51-NCS	5.1 mm	42 505 05 10	1.4

Connecting Pins MK - 30 Meter Coil

Hammer Fasteners D70

Pitch 4 mm



Strip Length	Belt Thickness	Pitch	Order No.	kg	
Belt Fastener D70-C					<p>Splice with or without Lacing Tool</p> 
Special Steel					
Connecting Pin Dia. 1.0 mm Minimum Pulley Diameter 20 mm					
300 mm	up to 1.5 mm	4 mm	42 101 70 30	0.1	
600 mm	up to 1.5 mm	4 mm	42 101 70 60	0.3	
1200 mm	up to 1.5 mm	4 mm	42 101 70 12	0.6	
Belt Fastener D71-C					
Special Steel					
Connecting Pin Dia. 1.4 mm Minimum Pulley Diameter 25 mm					
300 mm	1.5 - 2.0 mm	4 mm	42 101 71 30	0.2	
600 mm	1.5 - 2.0 mm	4 mm	42 101 71 60	0.5	
1200 mm	1.5 - 2.0 mm	4 mm	42 101 71 12	1.0	
Belt Fastener D72-C					
Special Steel					
Connecting Pin Dia. 1. mm Minimum Pulley Diameter 35 mm					
300 mm	2.0 - 2.5 mm	4 mm	42 101 72 30	0.3	
600 mm	2.0 - 2.5 mm	4 mm	42 101 72 60	0.5	
1200 mm	2.0 - 2.5 mm	4 mm	42 101 72 12	1.1	
Belt Fastener D73-C					
Special Steel					
Connecting Pin Dia. 1.4 mm Minimum Pulley Diameter 50 mm					
300 mm	2.5 - 3.5 mm	4 mm	42 101 73 30	0.3	
600 mm	2.5 - 3.5 mm	4 mm	42 101 73 60	0.6	
1200 mm	2.5 - 3.5 mm	4 mm	42 101 73 12	1.2	
Belt Fastener D70-SS					<p>Splice with or without Lacing Tool</p> 
Stainless Steel 1.4404					
Connecting Pin Dia. 1.0 mm Minimum Pulley Diameter 20 mm					
300 mm	up to 1.5 mm	4 mm	42 104 70 30	0.1	
600 mm	up to 1.5 mm	4 mm	42 104 70 60	0.3	
1200 mm	up to 1.5 mm	4 mm	42 104 70 12	0.6	
Belt Fastener D71-SS					
Stainless Steel 1.4404					
Connecting Pin Dia. 1.4 mm Minimum Pulley Diameter 25 mm					
300 mm	1.5 - 2.0 mm	4 mm	42 104 71 30	0.2	
600 mm	1.5 - 2.0 mm	4 mm	42 104 71 60	0.5	
1200 mm	1.5 - 2.0 mm	4 mm	42 104 71 12	1.0	
Belt Fastener D72-SS					
Stainless Steel 1.4404					
Connecting Pin Dia. 1.4 mm Minimum Pulley Diameter 35 mm					
300 mm	2.0 - 2.5 mm	4 mm	42 104 72 30	0.3	
600 mm	2.0 - 2.5 mm	4 mm	42 104 72 60	0.5	
1200 mm	2.0 - 2.5 mm	4 mm	42 104 72 12	1.1	
Belt Fastener D73-SS					
Stainless Steel 1.4404					
Connecting Pin Dia. 1.4 mm Minimum Pulley Diameter 50 mm					
300 mm	2.5 - 3.5 mm	4 mm	42 104 73 30	0.3	
600 mm	2.5 - 3.5 mm	4 mm	42 104 73 60	0.6	
1200 mm	2.5 - 3.5 mm	4 mm	42 104 73 12	1.2	

Material : **Special Steel**

Box content:
4 Complete Sets
(8 Fastener Strips + 4 Connecting Pins)

Note:
Hammer Fastener D70, D71, D72, D73 can be spliced with the Lacing Tool "MATOROLL" or a Vice Lacer "MATOVICE" (see pages 54 - 57)

Material : **Stainless Steel**

Box content:
4 Complete Sets
(8 Fastener Strips + 4 Connecting Pins)

Note:
Hammer Fastener D70, D71, D72, D73 can be spliced with the Lacing Tool "MATOROLL" or a Vice Lacer "MATOVICE" (see pages 54 - 57)

Hammer Fasteners D80




Strip Length	Belt Thickness	Pitch	Order No.	kg
Belt Fastener D82-C				
Special Steel		Connecting Pin Dia. 1.4 mm Minimum Pulley Diameter 60 mm		
300 mm	3.0 - 4.0 mm	6 mm	42 101 82 30	0.4
600 mm	3.0 - 4.0 mm	6 mm	42 101 82 60	0.8
1200 mm	3.0 - 4.0 mm	6 mm	42 101 82 12	1.6
Belt Fastener D83-C				
Special Steel		Connecting Pin Dia. 2.1 mm Minimum Pulley Diameter 75 mm		
300 mm	4.0 - 5.0 mm	8 mm	42 101 83 30	0.5
600 mm	4.0 - 5.0 mm	8 mm	42 101 83 60	1.0
1200 mm	4.0 - 5.0 mm	8 mm	42 101 83 12	1.9
Belt Fastener D84-C				
Special Steel		Connecting Pin Dia. 2.1 mm Minimum Pulley Diameter 100 mm		
300 mm	5.0 - 6.5 mm	8 mm	42 101 84 30	0.6
600 mm	5.0 - 6.5 mm	8 mm	42 101 84 60	1.2
1200 mm	5.0 - 6.5 mm	8 mm	42 101 84 12	2.5
Belt Fastener D85-C				
Special Steel		Connecting Pin Dia. 2.1 mm Minimum Pulley Diameter 125 mm		
300 mm	6.5 - 7.5 mm	8 mm	42 101 85 30	0.7
600 mm	6.5 - 7.5 mm	8 mm	42 101 85 60	1.4
1200 mm	6.5 - 7.5 mm	8 mm	42 101 85 12	2.7
Belt Fastener D86-C				
Special Steel		Connecting Pin Dia. 3.0 mm Minimum Pulley Diameter 175 mm		
300 mm	7.5 - 8.5 mm	10 mm	42 101 86 30	1.0
600 mm	7.5 - 8.5 mm	10 mm	42 101 86 60	2.0
1200 mm	7.5 - 8.5 mm	10 mm	42 101 86 12	3.9
Belt Fastener D87-C				
Special Steel		Connecting Pin Dia. 3.0 mm Minimum Pulley Diameter 225 mm		
300 mm	8.5 - 9.5 mm	12 mm	42 101 87 30	1.2
600 mm	8.5 - 9.5 mm	12 mm	42 101 87 60	2.4
1200 mm	8.5 - 9.5 mm	12 mm	42 101 87 12	4.8
Belt Fastener D88-C				
Special Steel		Connecting Pin Dia. 3.5 mm Minimum Pulley Diameter 300 mm		
300 mm	9.5 - 11 mm	16 mm	42 101 88 30	1.8
600 mm	9.5 - 11 mm	16 mm	42 101 88 60	3.6
1200 mm	9.5 - 11 mm	16 mm	42 101 88 12	7.2
Belt Fastener D89-C				
Special Steel		Connecting Pin Dia. 3.5 mm Minimum Pulley Diameter 350 mm		
300 mm	11 - 12.5 mm	16 mm	42 101 89 30	2.1

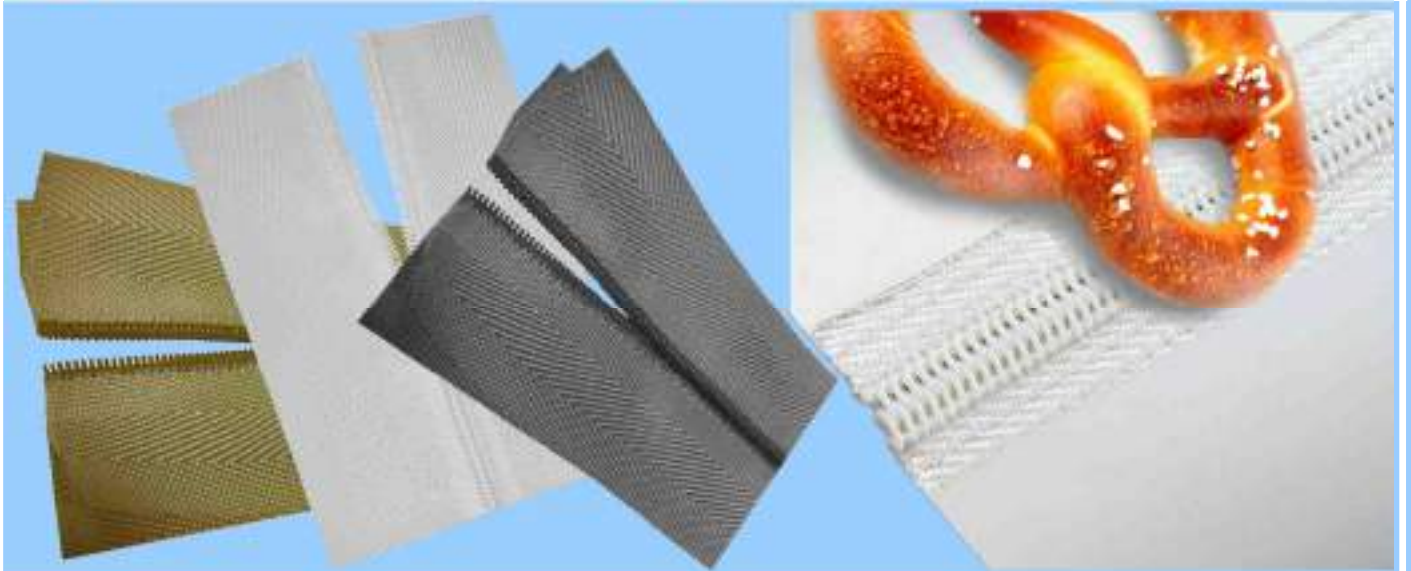
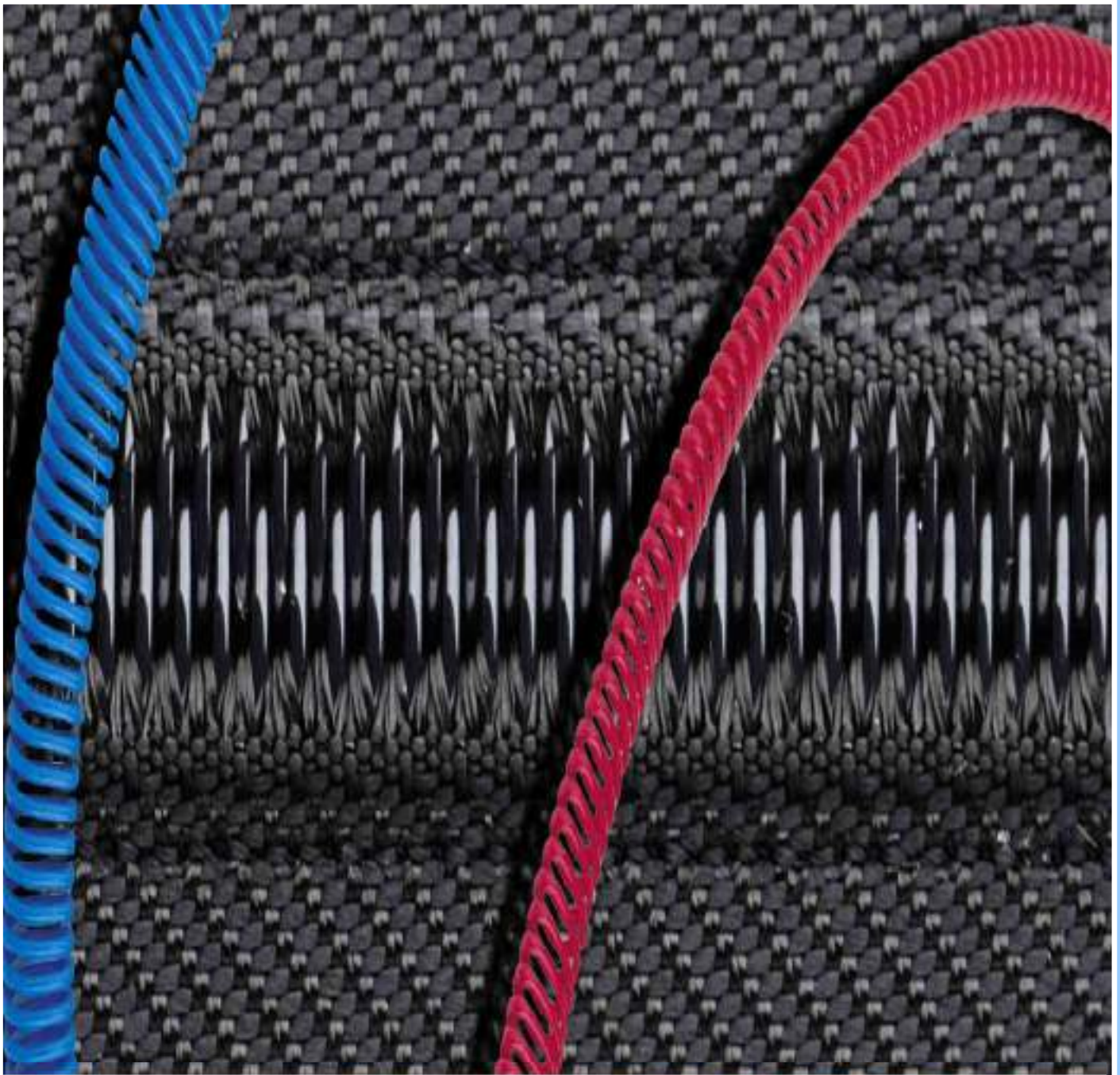
Splice without Lacing Tool



Material : **Special Steel**

Box content:
4 Complete Sets
(8 Fastener Strips + 4 Connecting Pins)

Description	Belt Thickness	Order No.	kg	
Belt Fastener S82 Leg Length 8 mm, Width 12 mm				<p>Installation without Lacing Tool</p>  <p>Material : Special Steel</p> <p>Packing Units: 100 Fasteners</p>
S82 (200)	up to 4 mm	42 701 20 00	0.2	
Belt Fastener S83 Leg Length 10 mm, Width 14 mm				
S83 (201)	up to 6 mm	42 701 20 10	0.3	
Belt Fastener S84 Leg Length 12 mm, Width 17 mm				
S84 (202)	up to 8 mm	42 701 20 20	0.5	
Belt Fastener S85 Leg Length 16 mm, Width 23 mm				
S85 (203)	up to 10 mm	42 701 20 30	1.0	
Belt Fastener S86 Leg Length 20 mm, Width 25 mm				
S86 (204)	up to 13 mm	42 701 20 40	1.5	
Belt Fastener S87 Leg Length 23 mm, Width 30 mm				
S87 (205)	up to 15 mm	42 701 20 50	2.4	
Belt Fastener S88 Leg Length 29 mm, Width 35 mm				
S88 (206)	up to 18 mm	42 701 20 60	4.1	
Belt Fastener S89 Leg Length 38 mm, Width 43 mm				
S89 (207)	up to 21 mm	42 701 20 70	6.7	



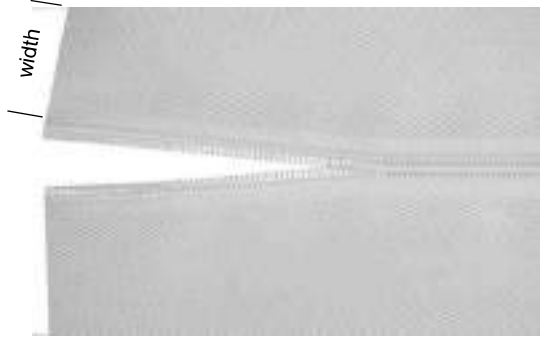
The MATO **Spiral Fastener Series Y** has been developed for special applications in the food industry requiring non metallic splices. These Fasteners are FDA approved and suitable for very small pulley diameters (from 10 mm) as well as for higher temperatures (up to 240°C).
The Fastener's texture is glued to the conveyor belt, vulcanised or sewn (typically between top and bottom layers of the belt).

Using Double Web Fasteners, the belt can be placed between both fastener textures and than glued, vulcanised or sewn.

Length	Spiral Height	Maximum Temp.	Order No.	kg
Belt Fastener Y50PWS		Connecting Pin Dia. 0.8 mm		
Spiral Lace, white, 40 mm wide		Minimum Pulley Diameter 10 mm		
3 Meter	2.2 mm	160°C	42 605 52 11	0.1
10 Meter	2.2 mm	160°C	42 605 52 12	0.4
30 Meter	2.2 mm	160°C	42 605 52 13	1.3
Belt Fastener Y65PWS		Connecting Pin Dia. 1.0 mm		
Spiral Lace, white, 60 mm wide		Minimum Pulley Diameter 30 mm		
3 Meter	3.0 mm	160°C	42 606 52 11	0.2
10 Meter	3.0 mm	160°C	42 606 52 12	0.8
30 Meter	3.0 mm	160°C	42 606 52 13	2.3
Belt Fastener Y90PWS		Connecting Pin Dia. 1.2 mm		
Spiral Lace, white, 60 mm wide		Minimum Pulley Diameter 50 mm		
3 Meter	3.6 mm	160°C	42 608 52 11	0.3
10 Meter	3.6 mm	160°C	42 608 52 12	2.6
30 Meter	3.6 mm	160°C	42 608 52 13	2.6
Belt Fastener Y160PWS		Connecting Pin Dia. 1.0 mm		
Spiral Lace, white, 100 mm wide		Minimum Pulley Diameter 30 mm		
3 Meter	3.0 mm	160°C	42 609 52 11	0.3
10 Meter	3.0 mm	160°C	42 609 52 12	1.0
30 Meter	3.0 mm	160°C	42 609 52 13	2.9
Belt Fastener Y190PWS		Connecting Pin Dia. 1.2 mm		
Spiral Lace, white, 100 mm wide		Minimum Pulley Diameter 50 mm		
3 Meter	3.6 mm	160°C	42 600 52 11	0.4
10 Meter	3.6 mm	160°C	42 600 52 12	1.3
30 Meter	3.6 mm	160°C	42 600 52 13	3.9
Belt Fastener Y65PBS		Connecting Pin Dia. 1.0 mm		
Spiral Lace, black, 60 mm wide		Minimum Pulley Diameter 30 mm		
3 Meter	3.0 mm	160°C	42 606 54 11	0.2
10 Meter	3.0 mm	160°C	42 606 54 12	0.8
30 Meter	3.0 mm	160°C	42 606 54 13	2.3
Belt Fastener Y90PBS		Connecting Pin Dia. 1.2 mm		
Spiral Lace, black, 60 mm wide		Minimum Pulley Diameter 50 mm		
3 Meter	3.6 mm	160°C	42 608 54 11	0.3
10 Meter	3.6 mm	160°C	42 608 54 12	0.9
30 Meter	3.6 mm	160°C	42 608 54 13	2.6

Single Web - White

Material : Polyester (PET)



Single Web - Black

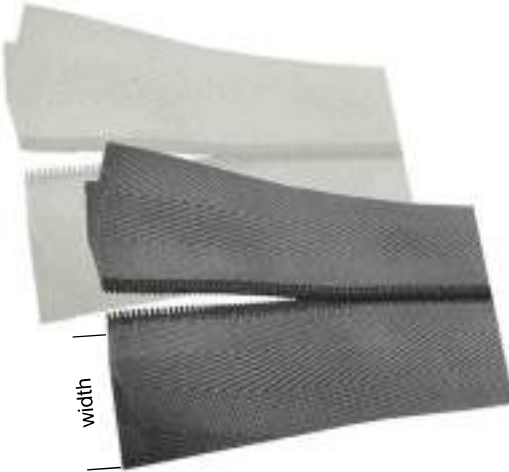
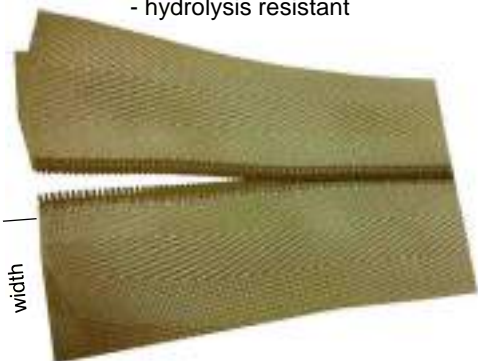
Material : Polyester (PET)




Please ask for further Fastener Sizes and Material Compositions.

Spiral Fasteners Y



Length	Spiral Height	Maximum Temp.	Order No.	kg	
Belt Fastener Y65PWD					Double Web - White / Black Material : Polyester (PET) 
Lace w/White Double Web, 50 mm wide			Connecting Pin Dia. 1.0 mm Minimum Drum Diameter 30 mm		
3 Meter	3.0 mm	160°C	42 606 52 21	0.2	
10 Meter	3.0 mm	160°C	42 606 52 22	0.8	
30 Meter	3.0 mm	160°C	42 606 52 23	2.3	
Belt Fastener Y90PWD					
Lace w/White Double Web, 50 mm wide			Connecting Pin Dia. 1.2 mm Minimum Drum Diameter 50 mm		
3 Meter	3.6 mm	160°C	42 608 52 21	0.3	
10 Meter	3.6 mm	160°C	42 608 52 22	0.9	
30 Meter	3.6 mm	160°C	42 608 52 23	2.6	
Belt Fastener Y90PBD					
Lace w/Black Double Web, 50 mm wide			Connecting Pin Dia. 1.2 mm Minimum Drum Diameter 50 mm		
3 Meter	3.6 mm	160°C	42 608 54 21	0.3	
10 Meter	3.6 mm	160°C	42 608 54 22	1.1	
30 Meter	3.6 mm	160°C	42 608 54 23	3.2	
Belt Fastener Y80EAD					Double Web - Brown Material : PEEK (Polyetheretherketone) - for higher temperatures - hydrolysis resistant 
Lace w/Brown Double Web, 35 mm wide			Connecting Pin Dia. 1.2 mm Minimum Drum Diameter 50 mm		
3 Meter	3.0 mm	240°C	42 607 41 21	0.2	
10 Meter	3.0 mm	240°C	42 607 41 22	0.8	
30 Meter	3.0 mm	240°C	42 607 41 23	2.5	
Please ask for further Fastener Sizes and Material Compositions.					

Connecting Pins for Spiral Fastener Y

Description	Pin Dia.	Maximum Temp.	Order No.	kg	
Connecting Pin YK whites					
100 Meter Coil					
YK08-MW	0.8 mm	160°C	42 509 31 81	0.1	
YK10-MW	1.0 mm	160°C	42 509 31 01	0.1	
YK12-MW	1.2 mm	160°C	42 509 31 21	0.1	
Connecting Pin YK black					
100 Meter Coil					
YK10-MB	1.0 mm	160°C	42 509 11 01	0.1	
YK12-MB	1.2 mm	160°C	42 509 11 21	0.1	
Connecting Pin YK brown					
100 Meter Coil					
YK12-EA	1.2 mm	240°C	42 509 21 21	0.1	
YK15-EA	1.5 mm	240°C	42 509 21 51	0.2	

Order No. Index



Artikel-Nr.	Seite	Artikel-Nr.	Seite	Artikel-Nr.	Seite	Artikel-Nr.	Seite	Artikel-Nr.	Seite	Artikel-Nr.	Seite	Artikel-Nr.	Seite	Artikel-Nr.	Seite		
411142400	5	420505151	32	421047260	64	422681500	27	422920830	30	425030300	59	426900200	25	427036610	46	427230400	20
411142401	5	420506163	32	421047312	64	422681680	27	422920880	30	425030350	59	426900250	25	427036611	46	427230480	20
411142402	5	421011212	62	421047330	64	422681800	27	422920950	30	425030400	59	426900300	25	427036620	46	427230500	20
411142403	5	421011230	62	421047360	64	422681900	27	422921000	30	425040150	59	426900350	25	427036621	46	427230520	20
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411142409	5	421011342	53	421503080	54	422682850	27	422921200	30	425040300	59	426900570	25	427036632	46	427230700	20
411142412	5	421011352	53	421505051	31/54	422682930	27	422921270	30	425050150	59	426900600	25	427036633	46	427230750	20
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411142414	5	421011812	62	422000000	56	422683000	27	422921500	30	425050250	59	426900650	25	427041722	50	427230830	20
411142415	5	421011830	62	422000001	33	422690200	29	422921680	30	425050300	59	426900700	25	427041731	50	427230880	20
411142416	5	421011860	62	422000002	24	422690320	29	422921800	30	425050350	59	426900750	25	427041732	50	427230950	20
411142418	5	421012221	52	422000200	57	422690350	29	422921900	30	425050400	59	426900800	25	427041733	50	427231000	20
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411145916	5	421012231	52	422000202	22	422690400	29	422922540	30	425070150	59	426900880	25	427041832	51	427231100	20
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411152402	8	421016260	62	422000600	57	422690600	29	422923000	30	425080130	38	426901100	25	427042511	49	427240250	38
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411152515	8	421017260	64	422002202	56	422691130	29		/54/57	425100150	35	426903000	25	427042552	45	427240650	38
411295806	12	421017312	64	422002203	24/33	422691200	29	424801151	22	425101150	35	426904000	26	427042610	46	427240700	38
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411295817	6	421018230	65	422006163	31/54	422691680	29	424802120	55/57	425160130	38	426906000	26	427042622	46	427240880	38
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411295827	7/13	421018360	65	422080350	39	422692540	29	424802180	55/57	426005213	68	426907000	26	427042633	46	427241100	38
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411295911	15	421018630	65	422080750	39	422730350	28	424805160	55	426065222	68	426909130	26	427045842	51	427542792	47
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411295918	15	421018712	65	422080880	39	422730400	28	424806060	55	426065411	68	426909100	26	427045862	51	427545790	47
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411295924	15	421018812	65	422081050	39	422730570	28	424806120	55	426074121	69	427012000	66	427046521	49	427545793	47
411295925	15	421018830	65	422081100	39	422730600	28	424806130	55	426074122	69	427012010	66	427046522	49	441210202	13
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411295986	15	421031342	53	422081500	39	422730950	28	424809000	36	426085221	68	427012060	66	427046610	46	464300012	12
411295987	15	421031352	53	422081680	39	422731000	28	424809650	22	426085222	68	427012070	66	427046611	46	553800000	61
411295988	15	421031362	53	422081800	39	422731050	28	424809660	22	426085223	68	427031721	50	427046620	46	553800017	61
411295989	15	421032221	52	422081900	39	422731100	28	424900001	63	426085411	68	427031722	50	427046621	46	553800024	61
411296055	5	421032222	52	422082000	39	422731130	28	424900002	63	426085412	68	427031731	50	427046622	46		
411296097	13	421032231	52	422082540	39	422731200	28	424900003	63	426085413	68	427031732	50	427046623	46		
411296120	5	421032232	52	422082800	39	422731270	28	4249									

I. Quotation

The documentation pertaining to the quotation such as illustrations, drawings, details of weights and dimensions are only approximately authoritative where they are not expressly designated as binding. The supplier retains the right to ownership and Copyright of all cost estimates, drawings and other papers. These must not be made accessible to third parties. The supplier has an obligation not to make accessible to third parties any plans designated as confidential by the purchaser, without the latter's approval.

II. Scope of the delivery

The written order confirmation from the supplier is definitive for the scope of the delivery. In the case of a quotation from the supplier with a time commitment and timely acceptance, the quotation is definitive, where there is no confirmation of the Order in good time. Supplementary agreements and changes require the written confirmation of the supplier.

III. Price and payment

1. In the absence of any special agreements the prices are ex works, including loading at the factory, but excluding packing. VAT at the applicable statutory rate must be added to the prices.
2. In the absence of any special agreement payment is to be made in cash with no deductions and free of charge at the supplier's point of payment within 30 days after dispatch.
We grant a discount of 2% if the payment is carried out within 14 days after dispatch.
3. The withholding of payments or the offsetting of any counter claims by the purchaser which are disputed by supplier are not permitted.
4. For orders of less than EUR 50,- nett invoice value we charge a handling charge of additional EUR 15,- for each order.
5. In case of disproportional increases of costs such as labour or material costs we preserve the right for price adaptations even within the period of validity of this price list.

IV. Delivery time

1. The delivery time begins with the sending of the order confirmation but not before the purchaser furnishes the documents, approvals, clearances to be provided and also the arrival of the agreed down payment.
2. The delivery times will be extended commensurately in the event of actions which form part of labour disputes, especially strikes and lockouts and also in the event of any unforeseen impediments which are outside the control of the supplier where such impediments can be shown to have a considerable influence of the manufacture or shipment of the object being supplied. This also applies when these circumstances occur at sub-suppliers. The circumstances described are also not to be blamed by the supplier when they arise during an already existing delay. In important cases the supplier will notify the purchaser of the beginning and end of such impediments as soon as possible.
3. The delivery times has been adhered to if by the time it expires the object being supplied has left the factory or its readiness for despatch has been notified.
4. When damage is suffered by the purchaser as a result of delay which has occurred due to the supplier, the purchaser is entitled to request compensation for the delay, to the exclusion of further claims. For each full week of lateness this will amount to 1/2 of 1%, but at the most 5% of the value of that part of the total delivery which as a result of the delay cannot be utilised in good time or in accordance with the contract.
5. If despatch is delayed at the wish of the purchaser he will be charged for the cost of storage beginning one month after indication of readiness for despatch, for storage at the supplier's factory however at least 1/2 of 1% of the invoiced amount for each month. The supplier however is entitled after setting a suitable period and its fruitless expiry to make other use of the object being supplied and to supply the purchaser over a suitable extended period.
6. Adherence to the delivery period assumes the purchaser meets his contractual obligations.

V. Transfer of risk and acceptance

1. The risk is transferred to the purchaser at the latest upon despatch of the supplied parts, i.e. even if partial deliveries are made or the supplier has taken on further services such as the costs of despatch or transport and setting up. At the request of the purchaser, and at his expense, the shipment can be insured against theft, breakage, transport, fire and water damage and other insurable risks.
2. If the despatch is delayed as a result of circumstances which are the fault of the purchaser, then the risk is transferred to the purchaser from the day of readiness for despatch; the supplier is however under an obligation, at the wish and expense of the purchaser, to effect insurance which the latter request.
3. Objects supplied, even if they exhibit insignificant defects, are to be accepted by the purchaser regardless of the rights under section VII.
4. Partial deliveries are permissible.

VI. Right of ownership

1. The supplier retains the right of ownership to objects supplied until the arrival of all payments under the contract to supply.
2. The supplier is entitled to insure the object supplied against theft, breakage, transport, fire and water damage and other damage at the purchaser's expense when the purchaser has not shown that he has taken out that insurance himself.
For defects in the delivery, which includes the absence of the properties explicitly promised, the supplier has the following obligations, to the exclusion of further claims regardless of section IX, 4.

VII. Liability for defects in the delivery

1. All parts which within six month of commissioning prove to be unusable or whose usability is significantly impaired as a result of a state of affairs which was present before the transfer of risk, particularly due to faulty construction, poor material or bad workmanship will be repaired or supplied new at the choice of the supplier, as he judges best.
The discovery of such defects is to be reported to the supplier in writing without delay. Replaced parts become the property of the supplier. If despatch, set up or commissioning is delayed, without blame being attached to the supplier then this liability expires at the latest 12 month after the transfer of risk. For essential third party products the supplier's liability is limited to the transfer of the entitlement to liability which exists vis a vis the "sub-supplier" of the third party product.
2. The right of the purchaser to assert claims due to defects expires in all cases in 6 months from the time of the punctually made complaint, or upon the expiry of the warranty period.
3. No warranty is taken on for damage which occurs due to the following reasons; unsuitable or improper use, incorrect fitting or incorrect repair by the purchaser or by a third party, natural wear and tear, incorrect or negligent treatment, unsuitable operating materials, replacement materials defective construction work, unsuitable construction site, chemical, electro-chemical or electrical effects for which the blame cannot be attributed to the supplier.
4. To allow the repairs and the supply of replacements to be carried out, which appear necessary in the best judgment of the supplier the purchaser, after agreement with the supplier, must provide the necessary time and opportunity otherwise the supplier is released from his obligation for the defect. Only in urgent cases where operational safety is a risk or to avoid disproportionately large damage, whereupon the supplier must be made aware immediately, or if the supplier is delayed in eliminating the defect, the purchaser has the right to eliminate the defect himself or have it eliminated by a third party and to demand reimbursement of the necessary costs from the supplier.
5. Of the direct costs incurred by the repairs of the supply of replacements the supplier will - insofar as the complaint is shown to be justified- bear the cost of the



6. The warranty period on the replacement items and the repair is three months, but this will run until the time of the expiry of the original warranty period for the object supplied. If repairs are necessary the period of liability for the object supplied will be extended by the length of the interruption in operation caused by this.
7. Any modifications or repair work carried out on the part of the purchaser or a third party either inexpertly or without the prior approval of the supplier will cancel the liability for the consequences such actions.
8. Further claims by the purchaser, especially claims for damage which did not occur on the supplied object itself are excluded. The exclusion of liability does not apply if the owner or leading the owner or leading employee, the supplier is only liable for sensibly foreseeable damage typical of the contract. The exclusion of liability also does not apply in cases where in accordance with the product liability law liability is accepted for damage to persons or property on privately used objects, where faults exist on the object supplied. It also does not apply when properties.

VIII. Liability for associated obligation

When, through the fault of the supplier, the object supplied cannot be used by the purchaser in accordance with the contract as a result of omitted or incorrect implementation of suggestions or advice which occurred before or after conclusion of the contract and also other obligations related to the contract, especially instructions for the operation and maintenance of the object supplied then the rulings in Section VII and IX apply appropriately, to the exclusion of further claims by the purchaser.

IX. The rights of the purchaser to withdrawal, variation and other liability of the supplier

1. The purchaser can also withdraw from the contract if the whole provision of supplies and/or services becomes completely impossible for the supplier before the transfer of risk. The same applies in the event of the supplier's inability to deliver. The purchaser can also withdraw from the contract, for an order of objects of the same type, the implementation of a part of the delivery becomes impossible with respect to quantity or he has a justified interest in refusing a partial delivery, if this is not the case the purchaser can reduce the counter payment to suit.
2. If a delivery delay exists as defined under Section IV of the Conditions of Supply and if the purchaser grants the supplier who is in arrears with the delivery a suitable extension period with an explicit declaration that after the expiry of this period he will refuse to accept the goods and/or services, and if this extended deadline is not met, then the purchaser is entitled to withdraw.
3. If the impossibility occurs during the delay in acceptance or due to the fault of the purchaser then the purchaser remains obliged to make the counter payment.
4. The purchaser also has the right to cancellation of the contract if the supplier, through his own fault, allows a suitable extension period granted to him for repairs of the supply of replacements with regard to a defect, as defined in the conditions of supply and attributable to him, to expire fruitlessly. The right of the purchaser to cancellation of the contract also exists in other cases of failure of the supplier to repair or supply a replacement.
5. Further claims by the purchaser are excluded, especially to termination or reduction and also to compensation for damages of any kind i.e. also for any damages which did not occur on the supplied object itself. This exclusion of liability does not apply if the owner or leading employee have acted with intent or gross negligence and also if there has been blameworthy violation of essential obligations under the contract. In the event of blameworthy violations of essential obligations under the contract, except in cases of intent or gross negligence by the owner or leading employee, the supplier is only liable for sensibly foreseeable damage typical of the contract. The exclusion of liability also does not apply in cases where in accordance with the product liability law liability is accepted for damage to persons or property on privately used objects, where faults exist on the object supplied. It also does not apply when properties are absent which were expressly promised when the promise had the intention of covering the purchaser against damage which did not arise on the supplied object itself.

X. Court of jurisdiction

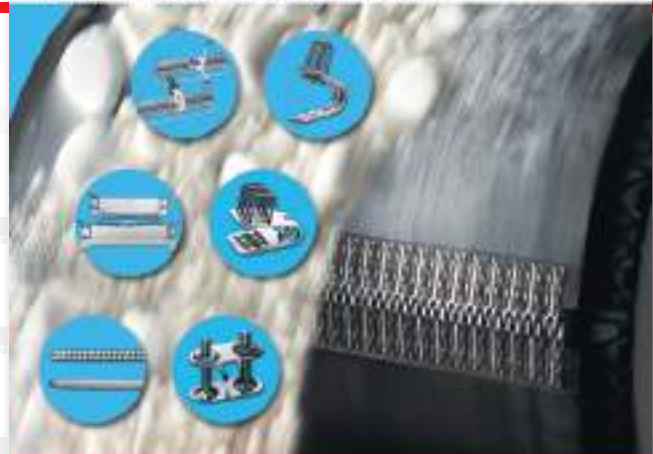
If the purchaser is a fully qualified merchant, a legal personage in public law or a legally separate property proceedings for all disputes arising from a contractual relationship are to be taken at the court with jurisdiction for the supplier's head office or the branch of the supplier which made the delivery. The supplier is also entitled to take proceedings against the buyer at the court of jurisdiction for his head office.

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