

MLT

Minet Lacing Technology



SUPER-SCREW[®]

EVOLUTION

the Original
since
1994

MLT patented innovation

**The new generation
of flexible splice to screw**

EASIER AND FASTER TO INSTALL

THINNER AND MORE RESISTANT

**FULLY INTEGRATED
INTO YOUR BELT**

The new SUPER-SCREW[®] EVOLUTION is currently available for belts strength up to EP630 (or 360PIW)

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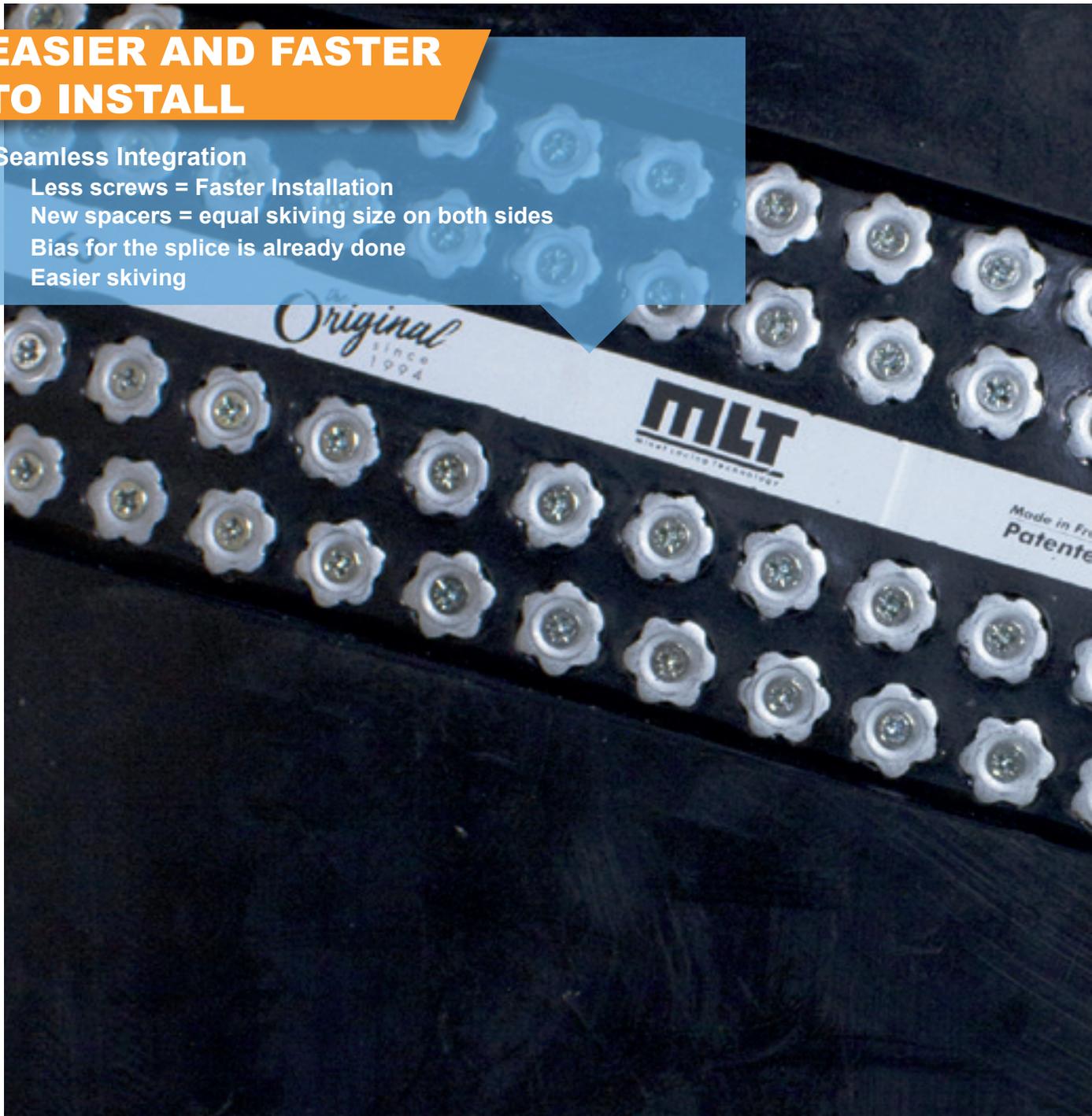
The New Generation of Flexible Splice

This brand new patented splice has evolved to bring you fundamental improvements

EASIER AND FASTER TO INSTALL

Seamless Integration

- Less screws = Faster Installation
- New spacers = equal skiving size on both sides
- Bias for the splice is already done
- Easier skiving



Advantages and benefits of the New Generation of Flexible Splice

THINNER AND MORE RESISTANT

New, stronger fabric

- Seamless integration into the belt
- Improved breaking strength
- Higher abrasion resistance
- More flexible splice

FULLY INTEGRATED INTO YOUR BELT

- Smaller pulley requirement
- More compatible with scrapers



What is the **SUPER-SCREW** *the Original* ? EVOLUTION since 1994

The new generation of flexible splice to screw

Splice your belt simply with screws!

SUPER-SCREW EVOLUTION is the latest addition to the SUPER-SCREW range of products.

It's the fast and innovative solution to splice your conveyor belts.

When on-site, you are exposed to various issues, that are special to the field:

-the number of breakdowns, difficult installation access, harsh weather conditions, limited numbers of staff, and time constraints

These comments from our customers drove the MLT teams to think about future improvements with these issues in mind. The result is we are able to offer highly innovative solutions, designed around our customer's feedback. MLT has developed the new generation of SUPER-SCREW, unique and innovative solution to splice your conveyor belt : **the SUPER-SCREW EVOLUTION.**

SUPER-SCREW EVOLUTION, just like the previous generation of SUPER-SCREW, reduces downtime. It supports operating tensions up to 63N/mm (failure stress belt up to 630N/mm). It is available in several grades of rubber and is offered with stainless steel or steel screws and inserts.

The simplicity of screws allows you to install the SUPER-SCREW EVOLUTION no matter:

- The configuration of the conveyor
- The conditions of access
- Weather conditions
- Temperature: -22°F to 392°F (400° peak FLASH)

As before, the screws specifically designed for being both self-drilling and self-tapping : they separate the belt fibers without cutting it. Sizes remain unchanged.

**The SUPER-SCREW EVOLUTION:
Performance, Innovation, Easy to install!**

Advantages:

- Compatible with all types of scrapers
- Compatible with small pulley diameter
- Optimizes your productivity
- Easy to install
- Waterproof
- Highly flexible
- Any weather condition
- High tensile strength

Application fields:

- Heavy industries**
- Mines**
- Cement plants**
- Quarries**
- And more**

Two types of steel for screws and inserts available:

Steel screws and inserts

Highly resistant, the ideal choice in most situations

Quarry, Cement factory, mine etc.

Stainless steel screws and inserts

Resistant to corrosive and saline environments

**Gold mines, Phosphate mines, Sorting center,
Fertilizer plants, Recycling facilities and Salt handling**

Rubber grades available



SUPER-SCREW EVOLUTION allows you to splice your own conveyor belts, whatever your activity and your needs. SUPER-SCREW EVOLUTION is available in different materials :

Abrasion resistant (AR)

SUPER-SCREW Evolution answers the majority of applications, since it is fabricated with a high quality of rubber abrasion resistant 50mm³.
This is one of the most resistant compounds available today.



Sliding bed / Friction bottom / Bareback



Our SUPER-SCREW Evolution is specially manufactured for sliding bed, friction bottom, or bareback conveyor belts and made with abrasion resistant or oil resistant rubber with steel inserts. It is currently available in the SUPER-SCREW Evolution 35, 63 and 65.

Fire-resistant/ MSHA-rated

SUPER-SCREW Evolution, fabricated with fire resistant surface ISO 340 and ISO 284, ensures your security of silos and underground mines.



Heat-resistant/ HOT

SUPER-SCREW Evolution can be installed on your heat resistant belt and can be able to withstand temperatures between 150°C and 170°C.



Moderately Oil resistant (MOR)

SUPER-SCREW Evolution is also available for oil resistant surface which resists oil and solvent.



Selection charts to help you select your



To determine the suitable SUPER-SCREW EVOLUTION, screws and skiving blades, please refer to the chart.

For your belts from EP250 to EP630 (200PIW to 360PIW), please refer to the SUPER-SCREW EVOLUTION range below.

For technical data exceeding those above, please refer to the SUPER-SCREW The Original range.

Belt thickness before skiving		mm	3 + 1	4 + 1,5	5 + 1,5	4 + 2	5 + 3	6 + 2	6 + 3	8 + 3						
		inch	1/8" + 1/32"	5/32" + 1/16"	3/16" + 1/16"	5/32" + 1/16"	3/16" + 1/8"	1/4" + 1/16"	1/4" + 1/8"	5/16" + 1/8"						
Skiving blades (mm)			3.5	4.5	4.5	4.5	2.5	4.5	3.5	6.5	2.5	6.5	3.5	8.5	3.5	
SUPER-SCREW EVOLUTION	EP or PP belt*		Spacer	Screws dimensions												
	N/mm	PIW														
35	250/2	250/3	One size spacer SUPER-SCREW EVOLUTION	5x10 ; 5x12												
	315/2	315/3														
63	500/3	500/4		360	5x12 ; 5x14											
	630/2	630/3														
	630/4	630/5														
65	500/3	500/4		360	5x14 ; 5x16											
	630/2	630/3														
	630/4	630/5														

Template can be used with EP or PP (PN or NN) multiply belt

Choose your SUPER-SCREW EVOLUTION in 3 steps

- 1 Choose your type of SUPER-SCREW from the EVOLUTION range:**
Depending on your type of belt (EP or PP) determine which SUPER-SCREW EVOLUTION to use.
- 2 Select your screw size:**
Once your SUPER-SCREW EVOLUTION has been selected, identify the required screw size depending on your belt thickness.
- 3 Select your skiving blades:**
Depending on your belt thickness before skiving, easily determine which blades to use to skive.

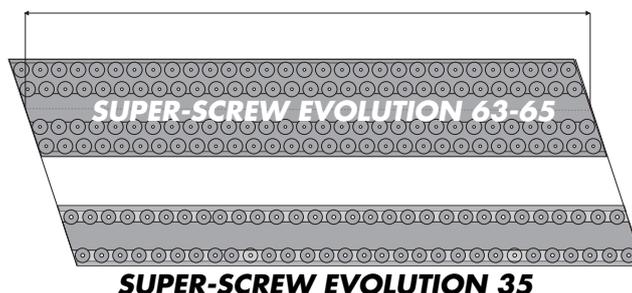
*For EP or PP belts above 630N/mm (360PIW), please refer to the SUPER-SCREW brochure.

SUPER-SCREW EVOLUTION required length for your belt :

Metric values	SIDE A (mm)	Number of screws	Number of spacers	SIDE A (mm)	Number of screws	Number of spacers
	SUPER-SCREW EVOLUTION 35			SUPER-SCREW EVOLUTION 63 - 65		
Belt width (mm)						
500	517	46	2	517	92	2
600	630	56	3	630	112	3
650	675	60	3	675	120	3
800	832	74	3	832	148	3
900	945	84	4	945	168	4
1000	1035	92	4	1035	184	4
1200	1260	112	4	1260	224	4
1300	1350	120	5	1350	240	5
1400	1462	130	5	1462	260	5
1500	1575	140	5	1575	280	5
1600	1665	148	6	1665	296	6
1800	1890	168	6	1890	336	6
2000	2092	186	7	2092	372	7

Imperial values	SIDE A (inch)	Number of screws	Number of spacers	SIDE A (inch)	Number of screws	Number of spacers
	SUPER-SCREW EVOLUTION 35			SUPER-SCREW EVOLUTION 63 - 65		
Belt width (inch)						
18	20 ^{23/64}	46	2	20 ^{23/64}	92	2
24	24 ^{51/64}	56	3	24 ^{51/64}	112	3
30	26 ^{37/64}	60	3	26 ^{37/64}	120	3
36	32 ^{3/4}	74	3	32 ^{3/4}	148	3
36	37 ^{13/64}	84	4	37 ^{13/64}	168	4
42	40 ^{3/4}	92	4	40 ^{3/4}	184	4
42	49 ^{39/64}	112	4	49 ^{39/64}	224	4
48	53 ^{5/32}	120	5	53 ^{5/32}	240	5
48	57 ^{9/16}	130	5	57 ^{9/16}	260	5
54	62 ^{1/64}	140	5	62 ^{1/64}	280	5
54	65 ^{35/64}	148	6	65 ^{35/64}	296	6
60	74 ^{13/32}	168	6	74 ^{13/32}	336	6
72	82 ^{23/64}	186	7	82 ^{23/64}	372	7

Side A



Packaging :

In kit or in roll depending on your needs

SUPER-SCREW EVOLUTION packaging :

READY-TO-USE KIT (CUT LENGTHS)



Depending on your belt type and width
(available in some grades and models of SUPER-SCREW EVOLUTION)



The ready-to-install kit contains :

- SUPER-SCREW EVOLUTION, cut to length, pre-assembled by MLT (complete with spacers)
- 2 screw sizes
- 1 packet of PZ bits
- 1 installation kit :
 - 1 SUPER-SCREW EVOLUTION installation guide
 - Installation template
 - 1 installation tool

KIT IN ROLLS



(available in some grades and models of SUPER-SCREW EVOLUTION)



The roll kit includes :

- One roll of SUPER-SCREW EVOLUTION to assemble yourself (screws to be ordered separately)
- 1 installation kit :
 - 1 SUPER-SCREW installation guide
 - spacers, PZ bits, one installation template
 - 1 installation tool

SUPER-SCREW® EVOLUTION from 35 to 65 are available in rolls of 3,5,10 and 25 meters with stainless steel or steel inserts depending on the range. You simply have to select your screw size (refer to the selection chart below)

Technical data :

Metric	SUPER-SCREW EVOLUTION		
	35	63	65
Maximum belt tension	315 N/mm	630 N/mm	630 N/mm
Min pulley diameter	200 mm	300 mm	300 mm
Thickness Top Cover	3,5 mm	4 mm	6 mm
Thickness Bottom Cover	3 mm	3 mm	3 mm

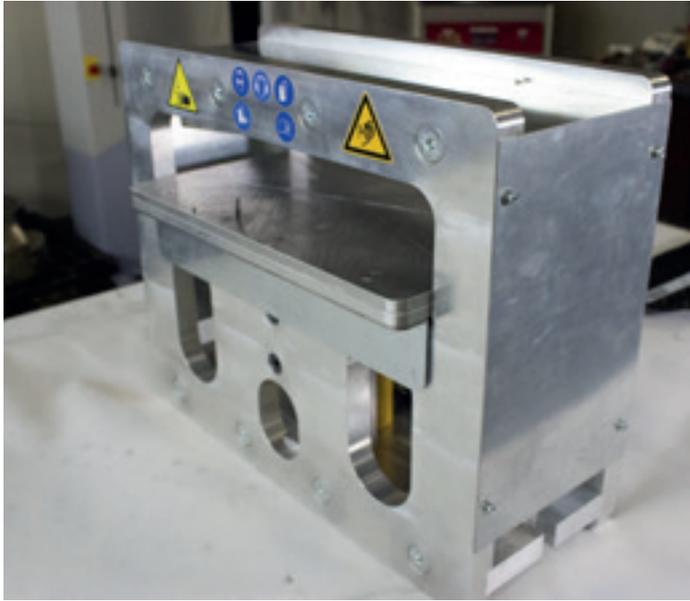
Imperial	SUPER-SCREW EVOLUTION		
	35	63	65
Maximum belt tension	200 PIW	360 PIW	360 PIW
Min pulley diameter	7 ^{7/8} "	11 ^{13/16} "	11 ^{13/16} "
Thickness Top Cover	9/64"	5/32"	15/64"
Thickness Bottom Cover	1/8"	1/8"	1/8"

Quantity required :

	SUPER-SCREW EVOLUTION 35					SUPER-SCREW EVOLUTION 63 - 65				
	1 m	1 x 3m roll	1 x 5m roll	1 x 10m roll	1 x 25m roll	1 m	1 x 3m roll	1 x 5m roll	1 x 10m roll	1 x 25m roll
Screws	92	276	460	920	2300	184	552	920	1840	4600
Spacers	4	12	20	40	100	4	12	20	40	100
PZ2 bits	1	1	1	2	2	1	1	1	2	2

Installation tools :

For a fast and easy installation



Cutting tool

To assist you in the preparation of the SUPER-SCREW EVOLUTION, MLT has developed a cutting aid. It consists of two distinct components:

- The cutting press itself
- Hydro-pneumatic pump

This press has interchangeable elements, to cut other MLT rubber products including:

SUPER-SCREW®, SUPER-SCREW EVOLUTION, FIX'N GO®.

This cutting press is available as an option.



Cordless Tool kit with skiver and driver

This pack provides the tools to install most MLT products, including the new SUPER-SCREW EVOLUTION. It is comprised of

- Cordless belt skiver and accessories
- Cordless powered driver and accessories
- Personal Protective Equipment (PPE)

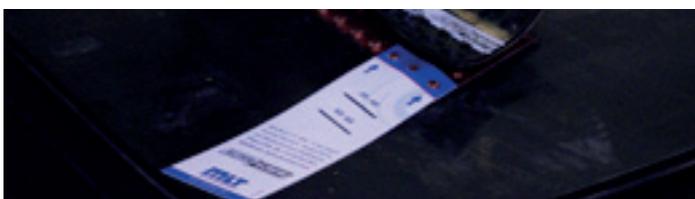
With a total of 17 elements included in the pack, you will be able to complete your installations easily and efficiently.



SUPER-SCREW EVOLUTION installation tools, allow you to easily complete your splicing :

- The SUPER-SCREW EVOLUTION chart will help easily select which type best suits your belt and which blades you will need.
- The installation tool will help you, quickly select which screw to use.
- The SUPER-SCREW installation template will guide you and help you find the perfect angle for your SUPER-SCREW EVOLUTION to be installed.

These charts are supplied with each SUPER-SCREW EVOLUTION package, be it in rolls or ready to use cut lengths.



Required equipment

For the installation of your **SUPER-SCREW** EVOLUTION *the Original* since 1994



THE SUPER-SCREW EVOLUTION SPLICE



SCREWS WITH WASHERS



MLT SPACERS



INSTALLATION TEMPLATE



THE INSTALLATION TOOL



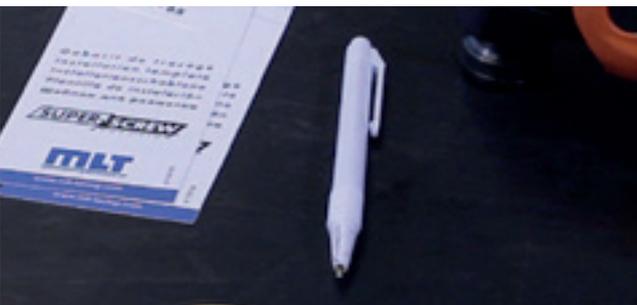
A POWERED DRIVER



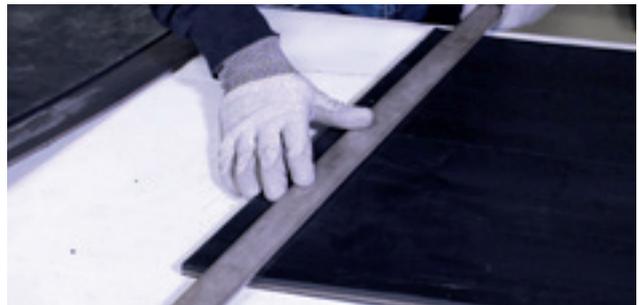
A BELT SKIVER



BLADES FOR BELT SKIVER



A PENCIL



A RULER

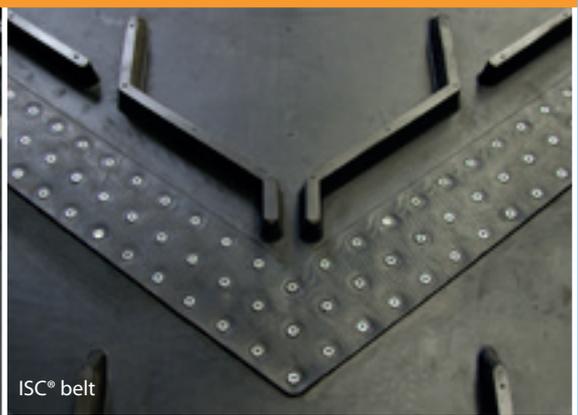
MLT

Minel Lacing Technology

MLT – Also Metallic fasteners, Flexible splices,
Tools, Endless and Spliceless technical belts



Super-Screw®



ISC® belt



MS®



FIX'N GO®

Innovative products,
easy to install !



Self-Lock®



Clip'N Lock®



**Invisible Flexible Splice
(IFS)**

Enhanced product: formerly
called PVC/PU finger lacing



Innovation for 70 years.

MLT, it's solutions for heavy and light duty belts, tools, technical belts, etc.



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