





## SUPER-SCREW® Lacing

Presentation





Call Toll Free: 1-866-711-4673 International:+1-727-342-5086



MLT has developed the **Super-Screw®**. It is a flexible rubber splice that screws directly onto the belt.

The **Super-Screw®** uses specifically designed self-drilling, self-tapping screws that preserve the belt integrity by spreading the carcass threads without cutting them.

This technology allows the **Super-Screw®** to be installed regardless of the location and accessibility of the conveyor belt and regardless of weather conditions, while significantly reducing downtime.

Simple and practical, the **Super-Screw®** is available in different qualities of rubber (MSHA, Grade one abrasion resistant, Stainless Steel, HOT, Friction or Bare Back).





#### **General Data Chart**

Super-Screw® types	15	63	65	60	1.5	100	105	180	200
Belt thickness, in.	5/32	5/32	-1/2	5/32	19/32	5/32-19/32	5/32 - 14/32	9/32 - 13/16	9/32 - 3/4
Max. belt strength, N/mm	315	6	30	8	00	10	000	1800	2000
Max. belt tension, PIW	200	3	60	-4	50	6	50	1650	2000
Mini. Pulley Ø, in.	6	-	8		10	- 0	2	16	20
Thickness top, in.	5/32	3/16	15/64	15/64	9/32	9/32	11/32	9/32	11/32
Thickness bottom, in.	5/32	11	/64			7/32		15/	64

#### Versions Available

- A abrasion resistant (regular)
  - C heat resistant 338°F (392°F)
  - Section 20 and Control of the Contro
  - P very low temperature down to -58°F
  - G oil resistant (248°F heat resistant)
- F fire resistant and antistatic (DIN20340 & 20284, MHSA)
- W white FDA/USDA cover with stainless steel inserts and screws Maximum length: 48"

#### ADVANTAGES

#### Installation

- Quick installation (saves downtime) in any weather condition
- No need for expensive equipment or tooling
- ·No need for highly skilled operator
- ·No drilling and no template
- No need for physical strength
- Self-tapping screws go through the belt to maintain integrity

- ·Wear and cut resistant
- · High tensile strength
- · Flexible
- Can be used for a bridge even with different belt carcass thickness (unmatched sides)
- Suitable for high-heat belt up to 392°F
- Compatible with small pulley diameter
- Compatible with conveyor scraper
- ·Perfect for tubular belt
- ·Leak proof

Mate

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#### SUPER-SCREW®

#### Available in two varieties: Ready to install or in a roll



Abrasion resistant (regular) Super-Screw®

Super-Screw® Ready to install: The assembly spacers are preinstalled. The top part matches the bottom part in any length between 12" and the length of the roll. It is delivered with the correct number of screws and PZ bits to install the splice.

#### Delivered with





Roll of oil resistant Super-Screw®

Super-Screw® in a roll is delivered in 2 separate rolls: A top roll and a bottom roll. You receive the number of screws, spacers and bits to install the complete roll. The size of the spacers and screws can be assorted to meet multiple needs, per the request of the customer.

Maximum roll length: • 82 feet for the Super-Screw® 35 to 105

50 feet for Super-Screw® 180 to 200.

To add







Bucket of screws



#### SUPER-SCREW®

The best way for patch repairs

















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## Mechanical Fasteners Flexible Splices

Mining Industry





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Mechanical Fasteners/Flexible Splices
Mining Industry

Super-Screw®: Flexible lacing to screw!

Super-Screw® is a flexible rubber splice to screw on to the belt as an alternative to vulcanizing.

MLT specific screws are self-drilling and self-tapping (they spread the carcass threads without cutting them).

This technology allows the Super-Screw® to be installed regardless of the location and accessibility of the conveyor belt and weather conditions and significantly reduces downtime.



#### **General Data Chart**

Super-Screwo types	35	63	65	60	85	100	105	180	200
Belt thickness, in.	5/32	5/32	-1/2	5/32 -	19/32	5/32 - 19/32	5/32 - 14/32	9/32 = 13/16	9/32 - 3/4
Max. belt strength, N/mm	315	6	30	8	00	10	000	1800	2000
Max. belt tension, PIW	200	3	60	4	50	6	50	1650	2000
Mini. Pulley Ø, in.	6	- 1	8	1	0	1	2	16	20
Thickness top, in.	5/32	3/16	15/64	15/64	9/32	9/32	11/32	9/32	11/32
Thickness bottom, in.	5/32	11	/64		13	7/32		15/	64



#### Versions Available

A - abrasion resistant (regular)

C - heat resistant 338°F (392°F)

P - very low temperature down to -58°F

G - oil resistant (248°F heat resistant)

F - fire resistant and antistatic (DIN20340 & 20284, MHSA)

W - white FDA/USDA cover with stainless steel inserts and screws Maximum length: 48"



#### Installation

- ·No need for physical strength
- Ouick installation (saves downtime) in all weather conditions
- ·Using battery or pneumatic operated screw
- ·No use/need for expensive equipment
- ·No need of highly skilled operator
- ·No drilling preparation, no template
- ·Self-tapping screws through the belt
- Wear and cut resistant
- · High tensile strength

- · Flexible
- ·Can be used for a bridge even with different belt carcass
- Suitable for high heat belt up to 400°F
- · Compatible with small pulley diameters
- Compatible with conveyor scrapers
- ·Perfect for tubular belt
- Leak proof
- Available on coil or ready-to-use cut lengths
- · Many rubber qualities available











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#### SUPER-SCREW®

The best way for patch repairs







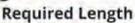






#### AVAILABLE IN TWO VARIETIES







In A Roll



## MS® Mechanical Fastener to screw!

MS® fasteners are the only mechanical fasteners that are installed using screws via a screwdriver (battery, electric or pneumatic)! Installation is easy and simple, it doesn't require special equipment.

	M5/6-45	MS# 55	MS7-65
Belt thickness, mm	6-11	9-15	10-18
Belt thickness, in.	15/64 - 7/16	9/32 - 19/32	13/32 - 23/32
For belt with mechanical fastener rating up to	65 N/mm 400 PIW	100 N/mm 600 PIW	125 N/mm 800 PIW
Mini, Pulley Ø, in.	5	10	20



#### **ADVANTAGES**

- · Uses screws
- · No costly toolings, only a powered screwdriver
- · Quickly installed = shortened breakdown repair time
- ·No pre-drilling /no template
- ·Installed by screwing directly
- ·Belt is clamped by the fastener itself

- Can be installed closer to the carcass after rubber covers are skived
- Turn fastener upside down for a more leak proof and long life
- · Ease of installation
- · Perforated for ease of separation for troughing



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#### **TITAN SERIES**

Titan fasteners have pre-assembled staples for high tension conveyor belts.

### ORIGINAL PATENT HOLD

	9 TO H	TAR	1 70	-114	12
Belt thickness, mm	5-7,5	6-14	6-8	9,5 - 18	14 - 18
Belt thickness, in.	3/16 - 5/16	1/4 - 9/16	1/4 - 5/16	3/8 - 11/16	9/16 - 3/4
For belt with mechanical fastener rating up to	0.50	l/mm PIW	140 N/mm 800 PIW	160 N/mm 920 PIW	350 N/mm 2000 PIW
Mini. Pulley Ø, in.	10	10	20	20	30

#### ADVANTAGES

- · Perfect for trough belts
- ·Durable and long lasting

#### **INSTALLATION TOOL**

- · Hammer tool
- ·Manual operated hydraulic installation press



Need more information? Please visit our website

www.mlt-lacing.com





#### **VULCANISING TOOLS**

**Cutting shears and pliers** 

**Cutting tools and accessories** 

Winch systems

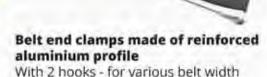
Surface preparation

Measuring tools



Belt skiver 220 V, 110 V







Hand winch With lever 800 or 1600 or 3200 daN cable Ø 8.3 or 11.5 or 16 mm





Various width and depth



**Electrical Screw driver** 

110 V. 400W

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#### **RECORD V6**

Record V6 fastener has pre-assembled staples. Its allows to join belts 6 to 12 mm (1/4" to 1/2") belt thickness

Belt thickness	6 - 12 mm	1/4" to 1/2"
For belt with mechanical fastener rating up to	105 N/mm	600 PIW
Mini, Pulley Ø	230 mm	9"

# Record V6

IAL PATENT HOL

#### ADVANTAGES

- Minimum tools required: hammer only
- · Large range of applications
- 1 fastener to join 6 to 12 mm (1/4" to 1/2") belt thickness
- Continuous length
- ·Pre-assembled staples
- Good compression
- · Very strong

#### INSTALLATION TOOL

·Open ended hammer tool





#### G 2002 / 3003

G 2000 family are fasteners with pre-attached staples for high strength conveyor belts.

	E 2002	u sees 🍿
Belt thickness, mm	7.5 - 15	10 - 20
Belt thickness, in.	9/32 - 5/8	13/32 - 3/4
For belt with mechanical fastener rating up to	140 N/mm 800 PIW	350 N/mm 2000 PIW
Mini. Pulley Ø, in.	10	20

#### ORIGINAL PATENT HOLDER ORIGINAL MANUFACTURER



#### **ADVANTAGES**

- · Easy installation
- Very simple tool design
- · Very strong fastener
- ·Pre-assembled staples
- ·Continuous length fastener
- · Reinforced loop
- ·Staples are protected by skiving the clips
- · Perfect for trough belts
- ·Perforated to easily cut for different length
- Chamfered edge on fastener, friendly for belt cleaner

# INSTALLATION TOOLS Hammer tool G 3 Matic



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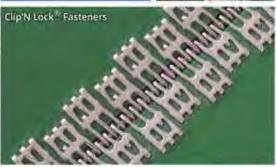


Simplified Work



























MLT, a brand of Minet - It's also conveyor belt splicing systems, technical belts, tools...

#### MLT Inc.

2011 Nuggett Rd. High Point, NC 27263 Office: 336-434-0363 Fax: 336-434-2263

Distributor









#### The technology jump

#### Why did the wooden wheel disappear?



#### Wooden wheels have been proved:

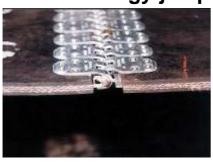
- wood was a cheap material
- a wooden carcass is harder than textile
- an iron ring is harder than rubber
- easy to manufacture



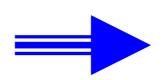
#### Nevertheless rubber tires are better:

- longer life time
- higher speed, flexible
- better grip

#### The technology jump for mechanical fasteners:









**Super-Screw fasteners** 









#### Characteristics of the Super-Screw fasteners

#### Target of development:

Solving the requirements of the initial installation and the requirements during the maintenance :

- Quick installation
- Installation without need of physical strength
- Installation during all weather condition
- No need/use of expensive equipment
- No need of highly skilled operators
- Wear and cut resistant
- High tensile strength
- Leak proof
- Flexible (Torsion in all direction, over pulley, elongation)
- Compatible with small pulley diameter
- Compatible with conveyor scrapers
- Economical
- Warning of deterioration
- etc.







#### Characteristics of the Super-Screw fasteners

#### Construction

- Multiply textile carcass
- Rubber as cover material
- Metal inserts under the rubber
- Self tapping screws for fixing the fastener on the belt









#### Characteristics of the Super-Screw fasteners

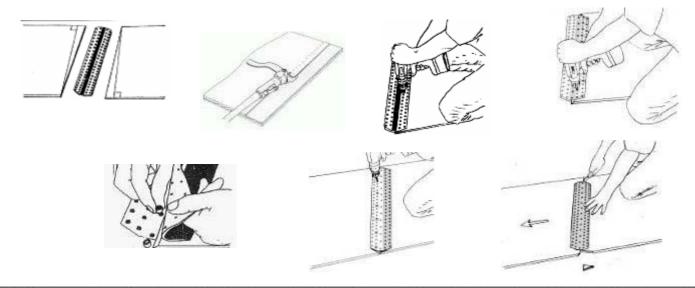
#### Long reach back into belt

SUPER-SCREW are fitted on the belt with one, two or three row of screws. Reach back is up to 110 mm.



#### Easy to place

SUPER-SCREW fasteners are fixed with special screws and a good power screw-driver with adjustable torque up to 32 Nm.









#### Characteristics of the Super-Screw fasteners

#### **Leak-proof**

- one piece, with no hinge.
- no material sift through the splice.



SUPER-SCREW fasteners are designed to follow belt movement around the pulleys.



#### Scraper compatible

- Install Super-Screw on bias
- Remove both belt covers
- Tested and approved(Hosch, Manuflex, Martin Engineering etc.)









#### Characteristics of the Super-Screw fasteners

#### Strong and elastic

Depending on the textile strength 6 types of flexible SUPER-SCREW fasteners are now available:

- SUPER-SCREW 35, for up to 35 N/mm operating tension
- SUPER-SCREW 63/65, for up to 63 N/mm operating tension
- SUPER-SCREW 80/85, for up to 80 N/mm operating tension
- SUPER-SCREW 90/95 for up to 100 N/mm operating tension
- SUPER-SCREW 125, for up to 125 N/mm operating tension
- SUPER-SCEW 180, for up to 180 N/mm operating tension

#### **Important stretch capacities**

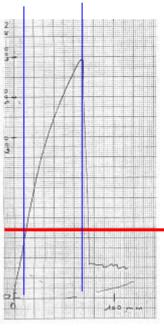
- Stretch capacity before fastener breaks: 55 mm
- Security degree > 500 %
- Breakage of Super-Screw 125 at 1.300 N/m







125 N/mm









#### Characteristics of the Super-Screw fasteners

#### Versatile use and long life time

- Repair of small damage
- Lacing of rubber belt (eventually steel cord belt)
- Also with bad accessibility
- No Problem with rain, snow, mud and dust
- Always the same quality
- Different rubber cover quality
- Long life time
- Increase of productivity













## **MS**<sup>®</sup> Fasteners















## **What is it? MS**<sup>®</sup> **Fastener**

#### MS® fastener. So easy to install.

MS® is a fastener that utilizes self-tapping screws for heavy duty belts that: requires no drilling, no template, and no hammering. The screws drill smoothly through the belt, while maintaining belt integrity (thickness of 9/64" to 23/32").

The installation of **MS®** fasteners requires only a powered drill (battery or pneumatic). **MS®** fasteners are therefore more economical (no investment in complex tooling) and safer (there is no risk of injury while using a hammer).

MS® fasteners can be installed over a wide range of minimum pulley diameters from 3" to 18". It can be installed on belts which are mechanically rated up to 800 PIW. The screws play an additional role by tightly and strongly clamping the belt (positive compression).



MS® fasteners are available in galvanized carbon steel or in a non magnetic stainless steel. MS® in stainless steel allows the joining of food industry belts, belts with magnet separators, or harsh conditions. The connecting pin (diameter 5/32" to 3/8") is made of nylon covered galvanized steel or of nylon non magnetic stainless steel.

All types of belts can be repaired immediately and in emergency situations.



We can vulcanize cleats on your overband. The belt is made endless thanks to a MS® non-magnetic fastener.



#### **Technical Data**

	MS® 25	MS® 35	MS® 45	MS® 55	MS® 65	
Belt thickness, in.	1/8 to 5/16	3/16 to 3/8	3/8 to 7/16	3/8 to 5/8	9/16 to 3/4	
For belt with mechanical fastener rating up to, PIW	350	360	400	600	800	
Min. Pulley Ø, in.	3"	3, 5"	5"	10"	18"	
Connecting Pin Ø, in.	5/32	3/16	1/4	5/16	25/64	
		Composition				
Fastener	Galvanized steel or non magnetic stainless steel Galvanized steel					
Screws	Galvanized steel or non magnetic stainless steel					
Connecting Pin	Nylon covered galvanized pin or nylon covered stainless steel pin					

#### **Installation Tool**



Battery, electric or pneumatic











ADE IN



## **MS®** Extra

#### **Economical**

No costly tooling only a powered drill

•Quick installation equals shortened break down/repair time



#### **Technical**

- •No Pre Drilling / No template
- Installed by screwing directly
- •Belt is clamped by the fastener itself
- •Rubber belts can be repaired and back to work immediately
- Can be installed closer to the carcass after rubber covers are skived
- •Turn fastener upside down for a more leak proof and long life installation













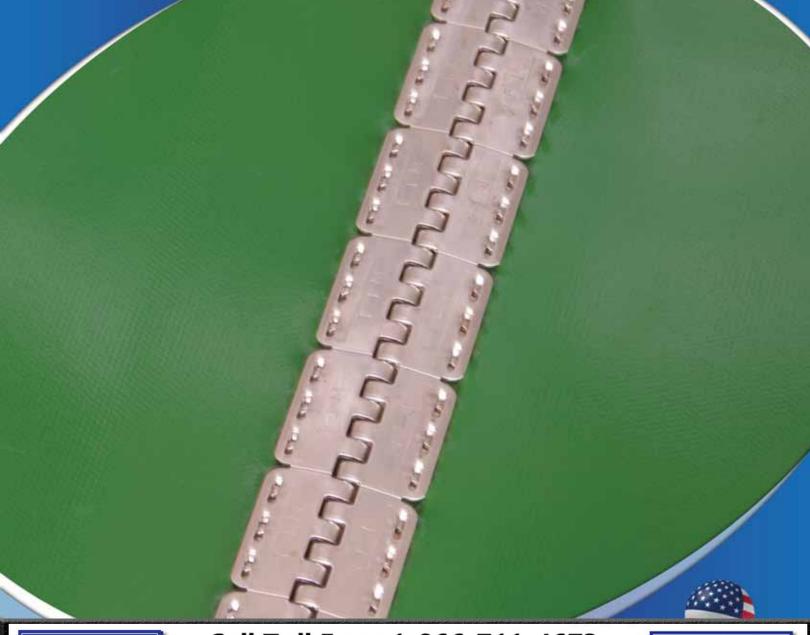
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## **SELF-LOCK**<sup>®</sup> Fasteners







## What is it? SELF-LOCK® Fasteners



Self-Lock® fasteners are developed and patented by MLT.

The top face clamps itself into the belt by having the claws passing underneath the bridges and closing themselves.

Its efficiency and easiness makes **Self-Lock®** a major innovation

in conveyor belt industry.





Self-Lock® 03 - In harvest industry

#### **Technical Data**

	SL 00	SL 01	SL 02	SL 03
Belt thickness, mm	0.7 - 1.8	1.6 - 2.4	2.3 - 3.5	3.3 - 4.8
Belt thickness, in.	1/32 - 5/64	1/16 - 3/32	3/32 - 1/8	1/8 - 3/16
Max. belt strength, N/mm	12	16	28	38
Max. belt tension, PIW	68	91	160	217
Mini. Pulley Ø, mm	25	40	50	60
Mini. Pulley Ø, in.	1	1 1/2	2	2 3/8









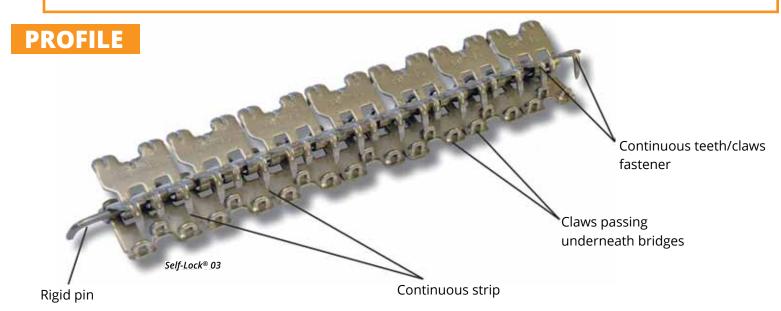


#### **ADVANTAGES**

- Quick installation
- One step fastener
- ·Low profile
- Grips the belt with good compression
- Continuous teeth/claws decreases contamination of carried product
- Adapted to bare back belt
- Non-magnetic fastener

- •Rigid pin
- Continuous strip
- Tools easy to transport
- Tools are open-ended
- Teeth/claws are inside the belt, better for cleaning
- No protruding claws

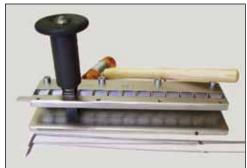




#### **INSTALLATION TOOL**

- Tools easy to transport
- •One tool fits all 4 sizes
- •Tools are open-ended













## Clip 'N Lock®

**Fasteners** 







## Clip 'N Lock®

#### **Fasteners**

#### INNOVATION



**Clip'N Lock®** is a low profile, light duty fastener. It maintains the normal pitch that ensures an excellent gripping of the claws in wide belts, with 2 additional features due to its design:

Top side of **Clip'N Lock®** 

Double rows of teeth for additional strength

Meander design: eliminates risk of losing claws



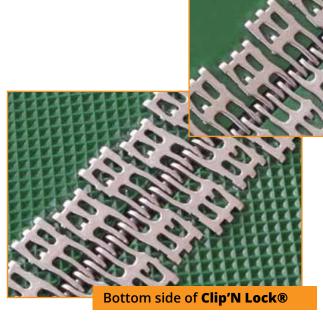












NTED

#### **ADVANTAGES**

- •Meander design (continuously connected design), developed by Minet Lacing Technology's R&D:
- Eliminates risk of losing claws
- Helps to maintain pitch in wide belts
- -Perfect for trough belts
- •33 % more grip points gives 15% more additional strength than standard fasteners
  - Integrated into the belt without extra thickness
  - Perfect for trough belts

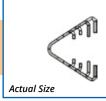


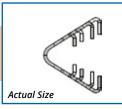


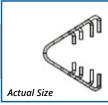


#### **Technical Data**









	CL 30	CL 40	CL 50				
Lacing Pitch	2.54 mm	3.175 mm	3.67 mm				
Belt Thickness (Regular point fastener)	1.5 to 2 mm .059" to .078"	2 to 3 mm .078" to .118"	3 to 5 mm .118" to .196"				
Minimum Pulley Ø	50 mm 2"	60 mm 2.5"	75 mm 3"				
Material	316 L antimagnetic stainless steel	316 L antimagnetic stainless steel	316 L antimagnetic stainless steel				
Installation	MultiTool or vice tool						
Hinge	Nylon covered or bare stainless steel pin Ø 1.5 - 1.8 mm .059"070"	Nylon covered or bare stainless steel pin Ø 1.8 - 2.1 mm .070"083"	Nylon covered or bare stainless steel pin Ø 2 - 2.6 mm .078"097"				
Packaging	In standard box each con	taining 10 strips of 300 mm (12") / 600	In standard box each containing 10 strips of 300 mm (12") / 600 mm (24") / 1200 mm (48")				

#### **INSTALLATION TOOLS**

#### 1. MuLtiTool

#### Multi fasteners installation tool

#### **FEATURES**

- •To install: **Self-Lock®**, **Clip 'N Lock®**, Wire hook and flexible steel fasteners
- Module type tool
- •250 mm / 10" long jaws
- •Different comb length by request
- •Can work on horizontal or vertical support

#### Can perform with:

- Hydraulic electric pump
- Pneumatic hydro pump
- Hydraulic hand pump



#### 2. Vice Tool



#### **ADVANTAGES**

- Versatile
- Quick
- Strong clamping
- Integrated helt clamns



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#### MLT Inc.

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**Distributor** 







# BELT SKIVER PS15 STANDARD



THE PS 15 STANDARD® IS A HIGH QUALITY SKIVING TOOL WITH AN OFF AND 4 HEAT SETTINGS.

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www.MLT-USA.com

"Any Splice, Any Belt, Any Time, Anywhere"

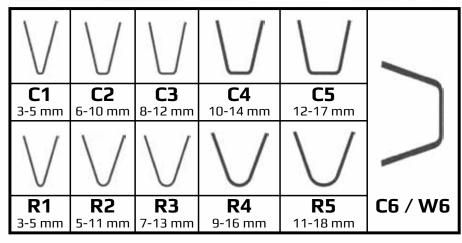


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## **COMMON SPECIFICATIONS**

- Handle is very ergonomic and comfortable.
- Every size blade can be fitted on the cutting head in one operation, clamps are spring loaded.
- Can skive on any part of your belt.
- Can skive your belts from 1/16" to 5/8" deep.
- Each part is available as a spare part.

#### **BLADES**



- All blades are available in packs of 20.
- Very high quality blades due to our exclusive double sharpening system on a specific steel.





## SUPER-SCREW®

TECHNOLOGY



