

ANKER[®] Wire Hooks

LDP 205

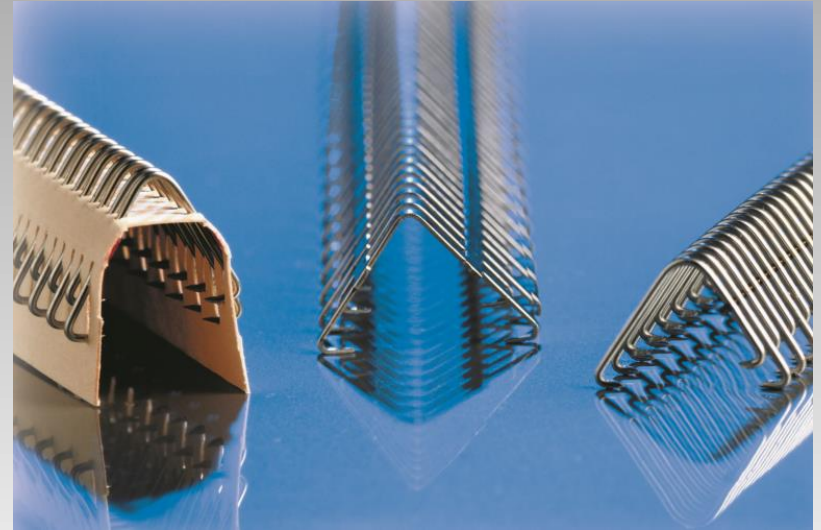


Partners in Productivity

What's Covered

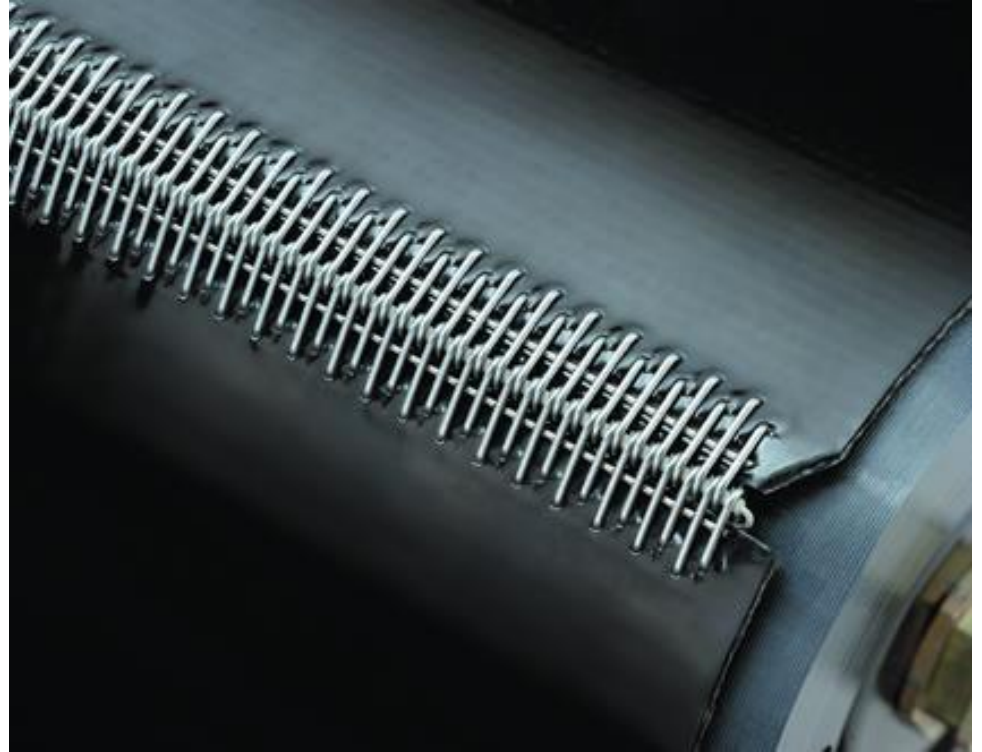
ANKER® Wire Hook System

- Overview
- Industry Applications
- Key Features & Benefits
- Style & Metal Options
- Size Selection
- Installation Process & Tools



Product Overview

- Machine applied
- Quick installation
- Detachable splices
- Economical
- Reliable
- Belts up to 10mm thick



Industry Application

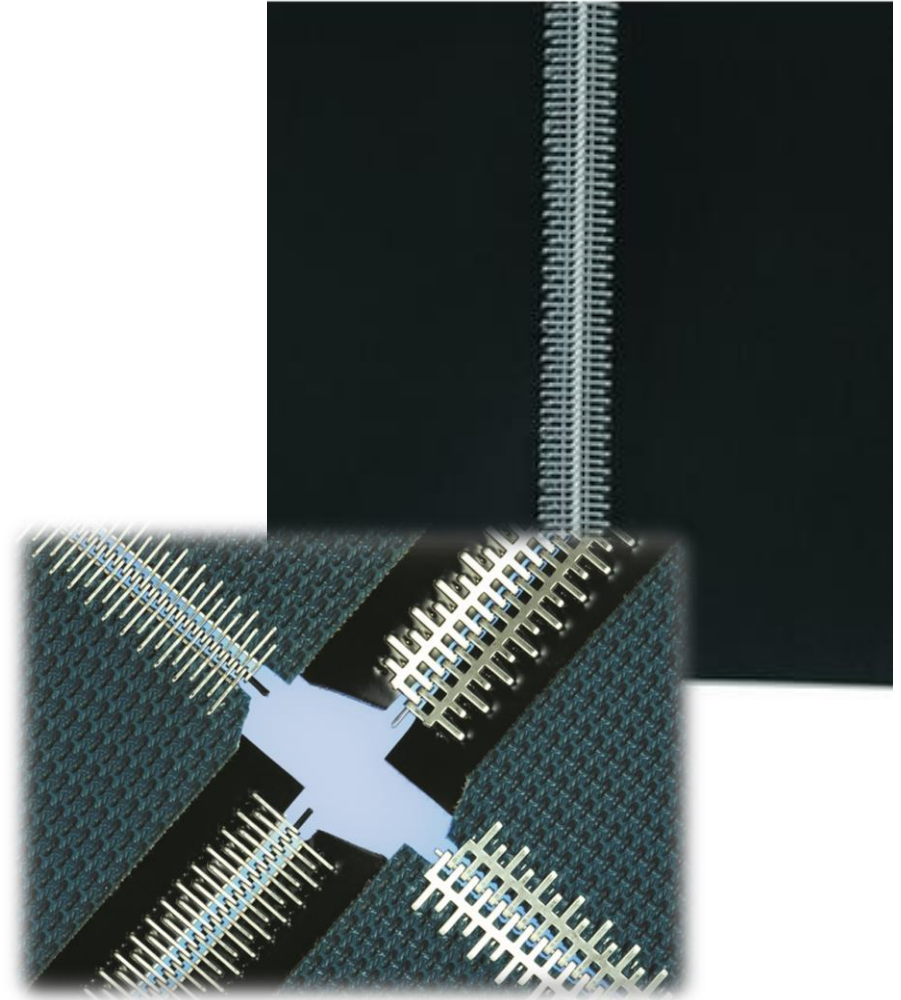
- Package and Parts Handling
- Logistics
- Agriculture
- Laundry
- Filter Media
- Corrugator Belts
- Food Processing



Features and Benefits

Low-Profile

- Low-profile fastener
- Runs smooth and quiet



Product Selection

ANKER® Wire Hooks designed with a variety of fastener options to meet application specific needs.

- Style
- Wire Diameter & Shape
- Pitch
- Fastener Size
- Hook Point & Leg Length
- Material
- Connecting Pin



ANKER® Wire Hook Styles

1. Hooks Welded on Cross-Wire (A-Series)



2. Carded Hooks



ANKER® Wire Hook Styles

1. Hooks Welded on Cross-Wire (A-Series)

- Each hook welded to a common bar



ANKER® Wire Hook Styles

Hooks Welded on Cross-Wire (A-Series) Advantages

- Easier to handle
- Minimal chance of individual hooks dislodging
- Easier to mesh belt ends, easier to insert pin
- Flat, finished splice



ANKER® Wire Hook Styles

Where A-Series Is Not Recommended

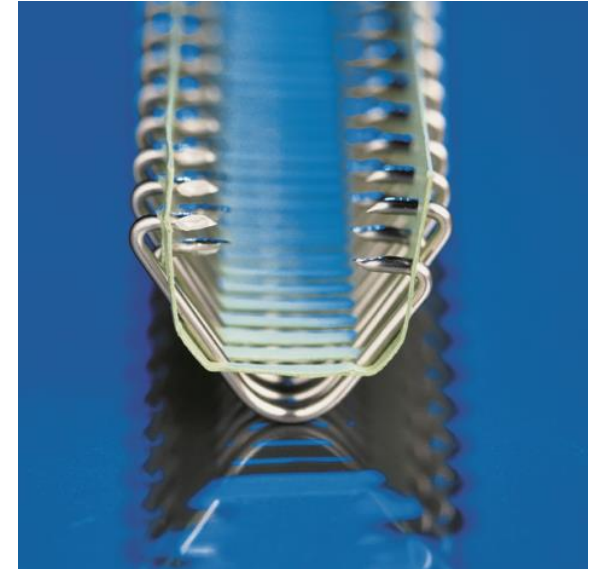
- Crowned Pulleys
- Troughing Applications
- Bias Splices
- Specific Metal Requirements



ANKER® Wire Hook Styles

2. Carded Hooks

- Each hook secured on carding paper
 - Carding provides:
 - Spacing element during transportation and installation
 - Guidance function when hooks are installed
- Card removed after installation



ANKER® Wire Hook Styles

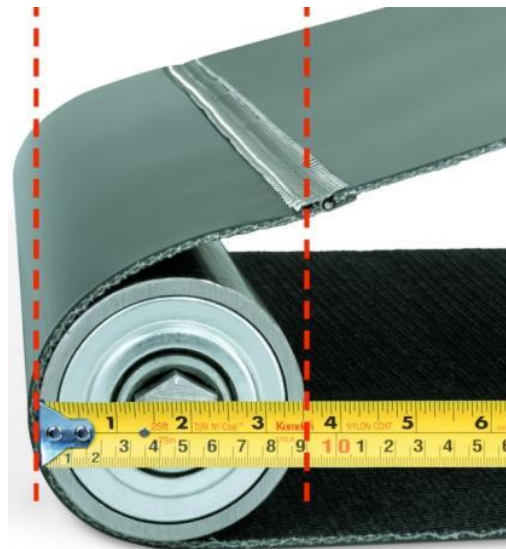
Carded Hook Advantages

- Works with any application*, variety of belt types and thicknesses
- Available in a wide variety of metals and sizes
- Easily cut to length
- High lateral flexibility of splice

Size Selection

Information Needed to Select Proper Size

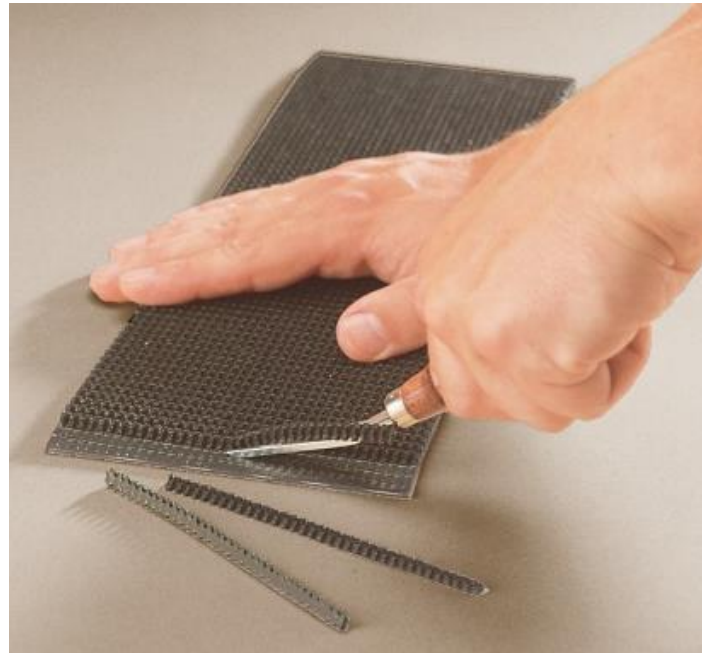
1. Maximum Operating Tension
2. Belt Thickness
3. Minimum Pulley Diameter



Size Selection

Belts That Will Be Skived

- If belt has a rough-top cover, skive prior to measuring thickness



Size Selection

Determine Hook Choices

- Use Fastener Selection Chart
- For any given belt thickness a number of hooks can be selected

papiergefasst - carded - sur support carton
 mit eingeschweißtem Querdraht - welded - soudées sur une tige

Min. Außen-Ø Min. Führung-Ø Ø Min. Terminale mm	Kugelhakenhöhe mm	Draht-Ø Wire-Ø mm	Bandstärke - Belt Thickness - Epaisseur de Bande (mm)																
			-1,5	2,0	2,5	3,0	3,5	4,0	5,0	6,5	8,0	9,0	10,0						
25	1,35-1,5	0,62	25SP																
		0,9 x 0,7	A36SLXSP	A36SLSP		25													
30	1,35-1,5	0,9 x 0,5	A34SLSP																
40			A34SP																
50	1,5-1,8	0,62	25LLSP																
		0,62			25LL														
							25LLP												
		0,80			30SP	30													
						A30SP	A30												
		0,9 x 0,6	A35SP																
1,00	0,9 x 0,7	A36XSP	A36SP	A36	A36LP														
		A40XSP	A40SP	A40															

Product Selection

Hook Point & Leg Length

- Five specializations available

XSP – Extra Short Point

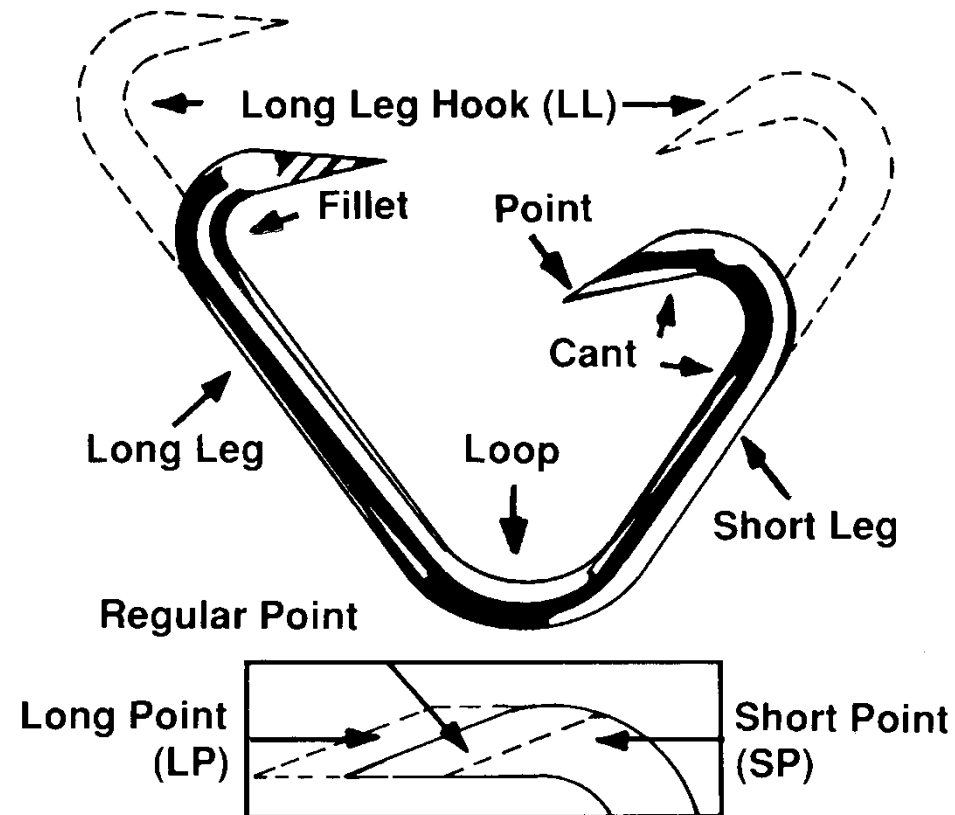
SP – Short Point

LP – Long Point

SL – Short Leg

LL – Long Leg

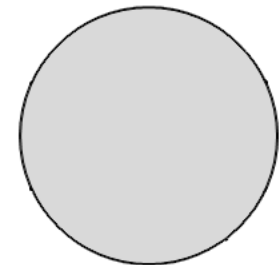
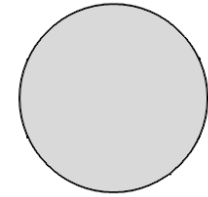
XLL – Extra Long Leg



Product Selection

Select Wire Diameter

- Smaller:
 - Less noise as splice contacts conveyor components
 - Less wear on conveyor components
- Larger:
 - Added strength for increased wire mass
 - Added wear resistance



Product Selection

Material Selection

- Not all sizes and styles are available in all metals

Hooks Welded on Cross-Wire (A-Series)

- Limited metal options
- Common choices: Steel, 430 SS, 316 SS, 316 LSS

Carded

- Many metal options
- Common choices: Galvanized, 430 SS, 316 LSS

Product Selection

Material Characteristics

Metal	Magnetic	Abrasion Resistance	Chemical Resistance	Rust Resistance
Galvanized (G)	Yes	Good	Poor	Good
Steel Wire	Yes	Good	Poor	Poor
430 SS	Slightly	Good	Fair to Good	Good
316 SS 316 LSS	No	Good	Good to Excellent	Excellent

Product Selection

Hinge Pins

- Complete hinge in splice
- Important to maintain durability of splice
- Available in a wide range of materials and flexibilities for different applications



Hinge Pin Selection

- Desired pin diameter can be determined by the following theoretical* formula
 1. Belt thickness \div 20 %
= diameter gauge pin
 2. Gauge pin \div 20%
= diameter hinge pin



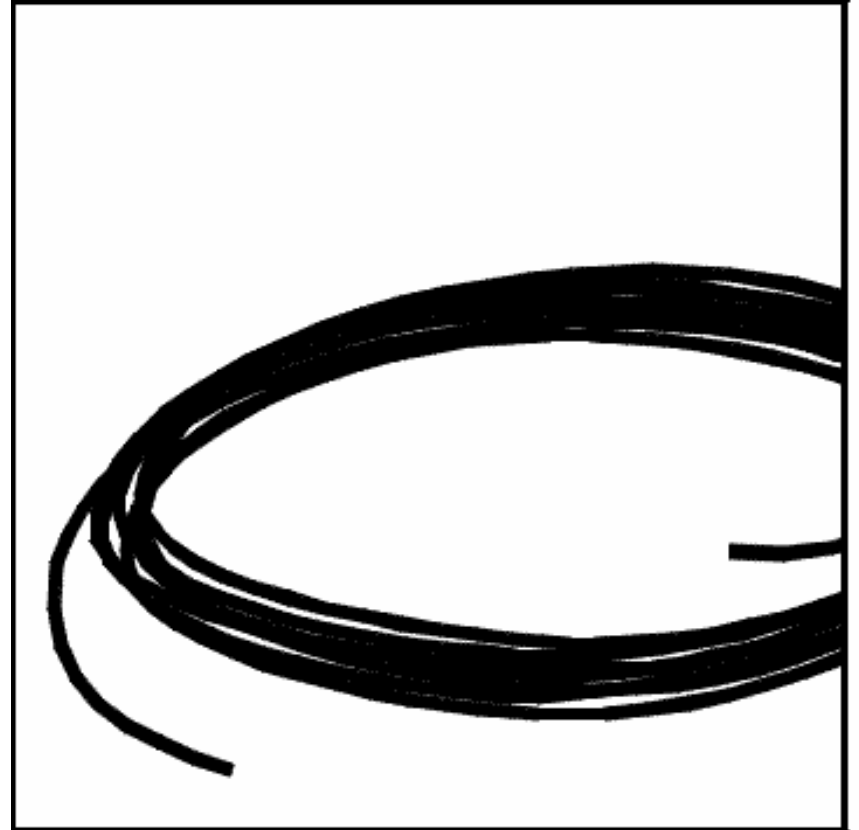
Hinge Pin Selection

Hinge Pin Material	Pin Wear	Hook Wear	Rigidity	Magnetic	Composition
NST	Good	Good	Good	Yes	Nylosteel
HNSS	Excellent	Excellent	Good	Low	Nylostainless (ISO 1.4404)
HNCS	Excellent	Excellent	Sufficient	Low	Nylostainless Cable (ISO 1.4404)
SS	Excellent	Excellent	Good	No	Stainless Steel (ISO 1.4404)
NK	Good	Excellent	Sufficient to Good	No	Perlon (PA 6)
KS (corrugated)	Good	Excellent	Sufficient to Good	No	Perlon (PA 6)

Hinge Pin Selection

Hinge Pin Lengths

1. Coils – (30 M)
2. Pre-cut lengths
3. Individually made-to-order



Hinge Pin Selection

Pathfinder – Pintle Wires

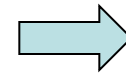
- Optional, factory installed
- Simplifies pin insertion
- Ideal for flexible pins and wide belts
- Smaller diameter, stiff guide pins mechanically fixed to hinge pins
- Pathfinder is cut off, discarded after pin is installed




Product Nomenclature

Product Nomenclature

- System for identifying products
- Article number derived from product's properties
- Each part of the number represents a specification
- Important for correct orders



A34SLSP-SS-048W



4 031773 041026

Bandstärke / Belt Thickness / Epaisseur de Bande
- 2,0 mm

Rostfrei W. 1.4401
Stainless AISI 316L
Inoxydable Z2CND17 - 12

Inhalt / Content / Contenu
50 Verbindungen für Bänder
48 mm breit (15+16 HPS)
50 sets for belts 48 mm
wide (15+16 HPC)
50 jonctions pour bandes 48 mm
de largeur (15+16 APB)

S/N	3586226	MFG	4031773
BA	81380273	P/N	04102
A34SLSP-SS-048W		14/02/13	

Product Nomenclature

Example Ordering Number: A34 SLSP-SS-048W

- The following information is represented in order, from left to right:
 - Fastener Style
 - Size of Hook
 - Leg Length (if different from standard)
 - Point Length (if different from standard)
 - Fastener Material
 - Length of Strip
 - If box includes hinge material
- If there is nothing listed for a section it means that specification is standard

Product Nomenclature

Article Number	Fastener Style	Size of Hook	Leg Length	Point Length	Metal	Strip Length	Hinge Pin
A34 SLSP-SS-048W	A	34	SL	SP	SS	48	Yes
25 LLLP-G-300	Paper Carded	25	LL	LP	G	300	No
4-G-300W	Paper Carded	4			G	300	Yes

Product Nomenclature

A34 SLSP-SS-048W

Product Nomenclature

4-G-300W

Product Installation

Fastener Application Tools

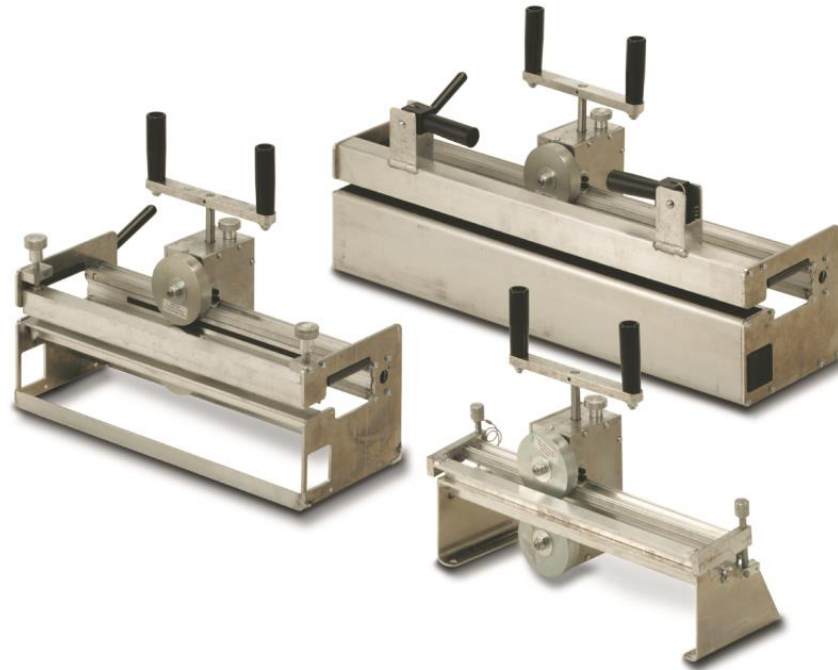
- Hooks are machine-applied
- Both manual and power-assisted tools available



Product Installation

Advantages of Machine-Applied Splices

1. Consistency of splice
2. Speed of installation
3. Ease of application



Product Installation

ANKER® Roller Lacing Technology™

- Sturdy aluminum construction
- Easy to carry to job site
- One person able to lace wide belts
- Dual rollers embed hooks in belt
- Continuous lacing feature (end-to-end splices, wider than the lacer)
- Three models:
 - ANKER® Gold Edition
 - ANKER® Roller Lacer®
 - ANKER® Microlacer®



Product Installation

Anker® Gold Edition

- Unmatched speed and ease of use
- Power-assisted by cordless drill
- Also operates manually
- Belt support shelf guides belt into hook point
- Handle-actuated belt clamp system
- Widths from 600 – 1500 mm



Product Installation

Roller Lacer®

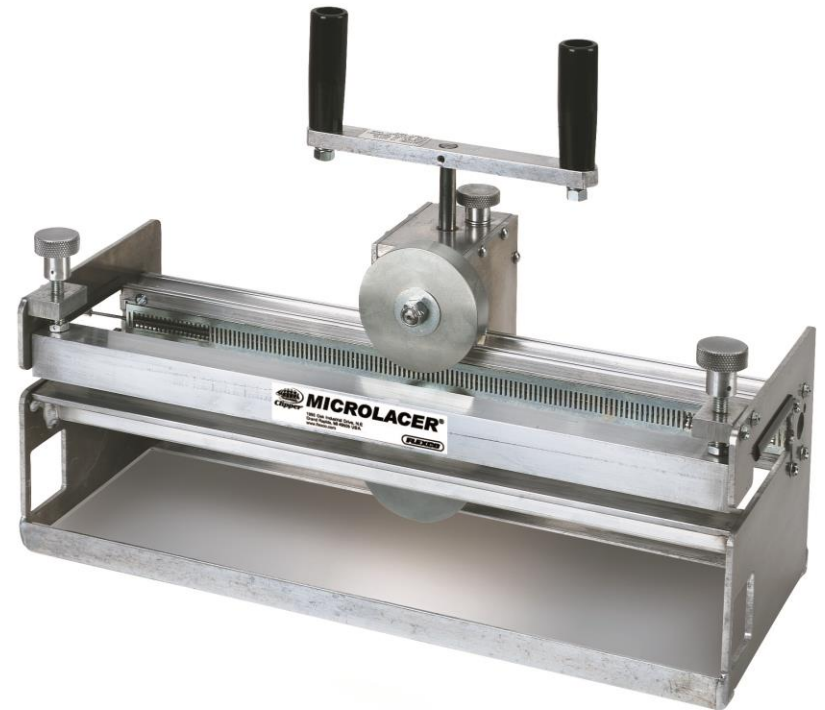
- Manually operated
- Ideal for users with wide belts requiring on-site installation
- Handle-actuated belt clamp system
- Storage compartments
- 5 available widths
 - mm: 600, 900, 1200, 1500 & 1800



Product Installation

Microlacer®

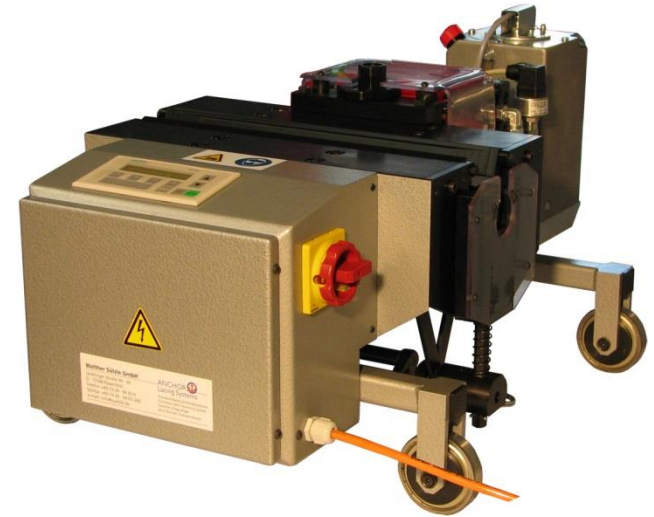
- Manually operated
- Economical
- Best for belts 14" (350 mm) wide and less
- Can be used on wider belts
- Belts are secured by tightening belt clamp knobs
- One width



Product Installation

Production Lacers

- For high-volume production lacing
- Quickest, most precise method
- One person able to lace wide belts
- Continuous lacing feature
- Installs all sizes of hooks



Product Installation

AMU 6000

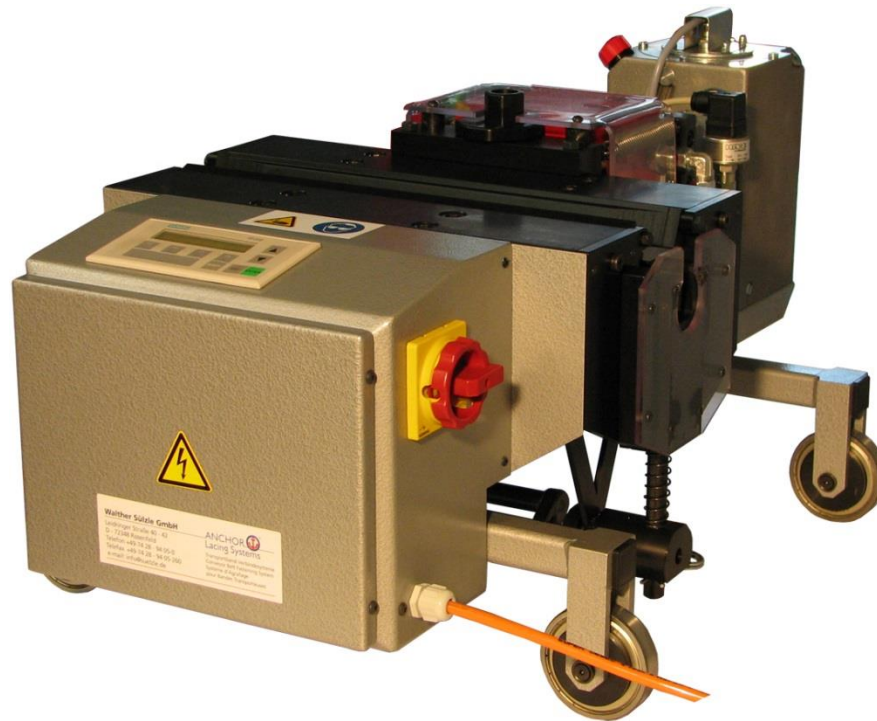
- Foot pedal operated
- Heated jaws
 - Eases fastener into belts, softens belt
 - Helps reduce/eliminate belt wave with carded hooks
 - Allows for lower profile splices
- Laces 300 mm (12.5”) at a time
- Combs available up to 1500 mm (60”) long
- Electronic controls allow up to 7 presets



Product Installation

AMU 4000

- Includes all AMU 6000 features except the heated jaws



Product Installation

ARU 3000

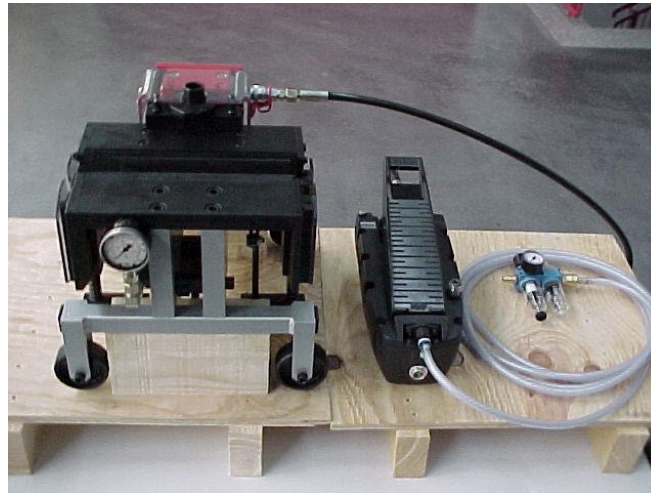
- Similar features to AMU 6000
- Mobile use possible due to lower weight
- Splices 200 mm at a time
- Combs available up to 900 mm (35")
- Available also as mobile-version
 - without attached pump and SPS control



Product Installation

ARU 2000

- Includes all ARU 3000 features except the heated jaws
- With electro-hydraulic, air-hydraulic or foot pump available



Product Installation

AMK 400

- Foot pedal operated
- Allows for lower profile splices
- Splices 300 mm (12.5") at a time
- Installs all sizes of hooks
- Electronic controls allow up to 7 presets
- ZA adapters for all ANKER[®] hook and fastener sizes



Product Installation

AMK 400-NP

- Heated jaws and final splice setting zone
- For fasteners on textile patch with 300 mm width
- Application: filter belt industry



Product Installation

Specialty Lacers

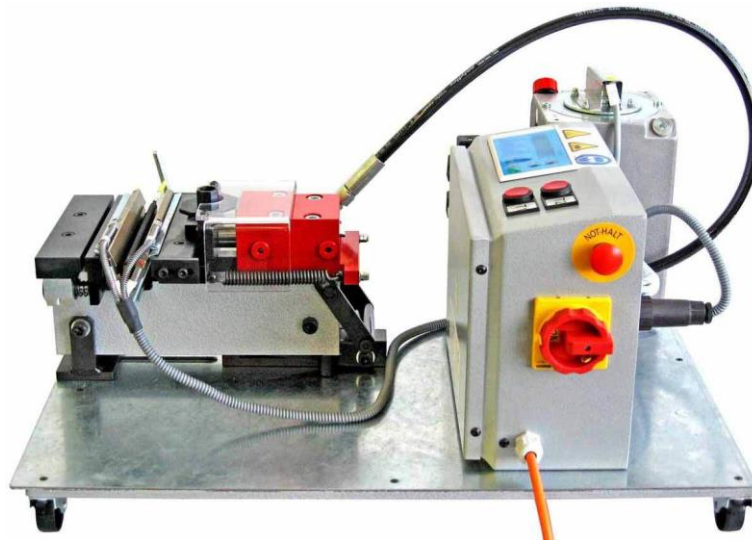
- Variety of portable specialty lacers
- Special applications



Installation

ARK 150-WNP

- Special electro-hydraulic lacer with heatable jaws (heatable adaptors) and final splice setting zone
- For fasteners on textile patch up to 190 mm width
- Application: Laundry industry



Product Installation

AHP 120

- Lacer with integrated hydraulic-cylinder
- Portable (15kg)
- Manual operation by hand lever
- For fasteners on textile patch up to 100 mm width
- With final splice setting zone
- Application: Repair and on site – Laundry industry



Product Installation

Vise Lacer

- Economical
- Fits into any shop vise
- Ideal for the user with few belts
- Continuous lacing feature



Product Installation

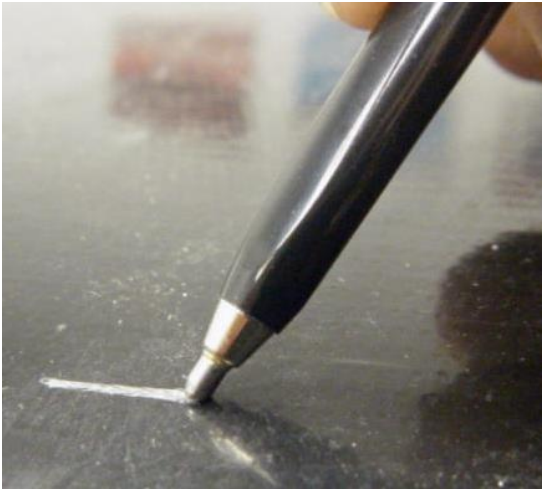
ANKER®- Lever Lacer

- For laundry industry
- Installs hooks up to a maximum of 50 mm (2 in.) wide
- Lightweight, portable installation tool
- Two models available
 - LL25 lever lacer
 - LL36 lever lacer



Product Installation

Additional Accessories



**Silver Ink Belt
Marking Pen**



**Binder
QDTB-0,47L**



Paper Remover



**Rough-Top
Belt Skiver**

Product Installation

Laser Belt Square

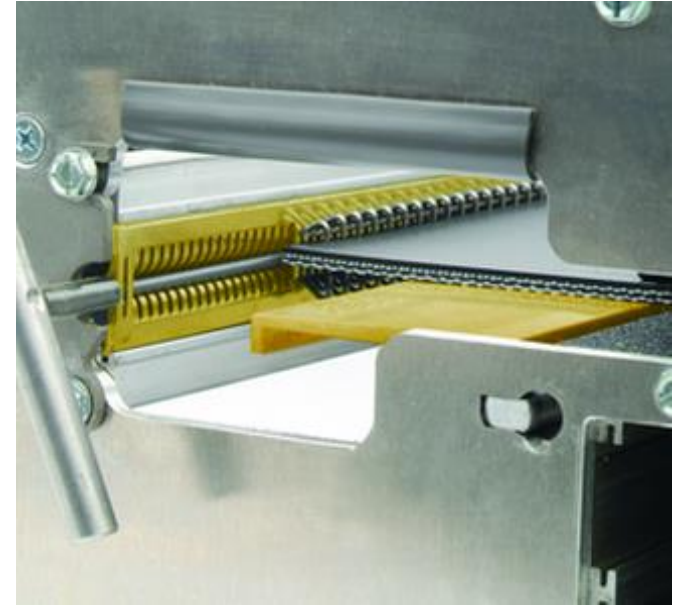
- Quick and accurate method to square belts
- Great for on-site and belt shops
- For use in tight areas and on conveyors with side pans
- Sealed from dust and water spray



Product Installation

Installation Overview

- First install fasteners into installation tool (face strip or hook retainer)
- Insert lacer pin into face strip/ hook retainer
- Remove carding paper/safety strip (if applicable)



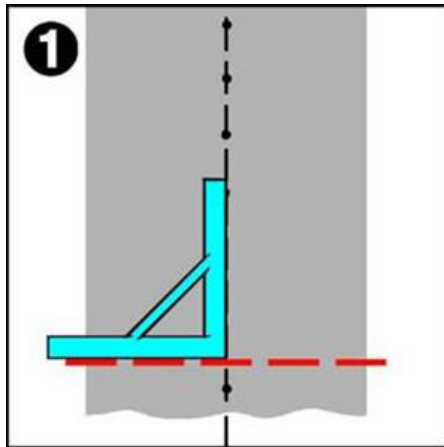
Product Installation

Installation Overview (cont.)

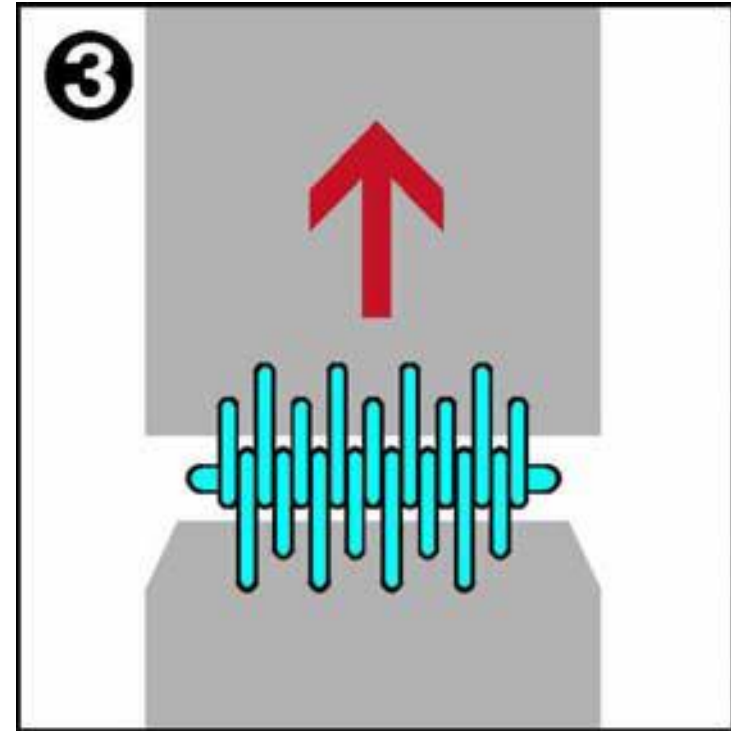
- Insert belt end into fastener strip and against face strip/hook retainer
- Install fasteners into belt according to the selected tool's installation instructions
- Once both belt ends are completely laced insert hinge pin/connecting pin to complete splice



Best Practices



Always begin with clean and square cut belt

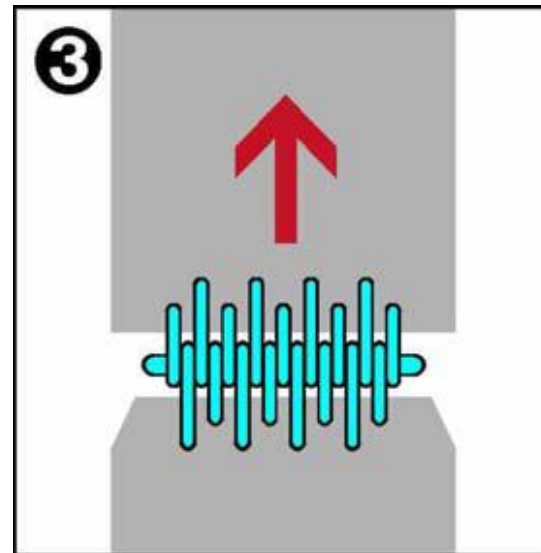
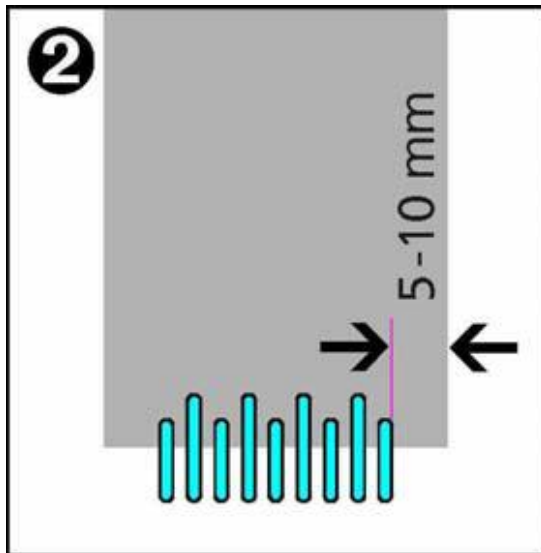


Notch/chamfer corners on trailing edge of splice

Best Practices

Properly Installed ANKER® Splices

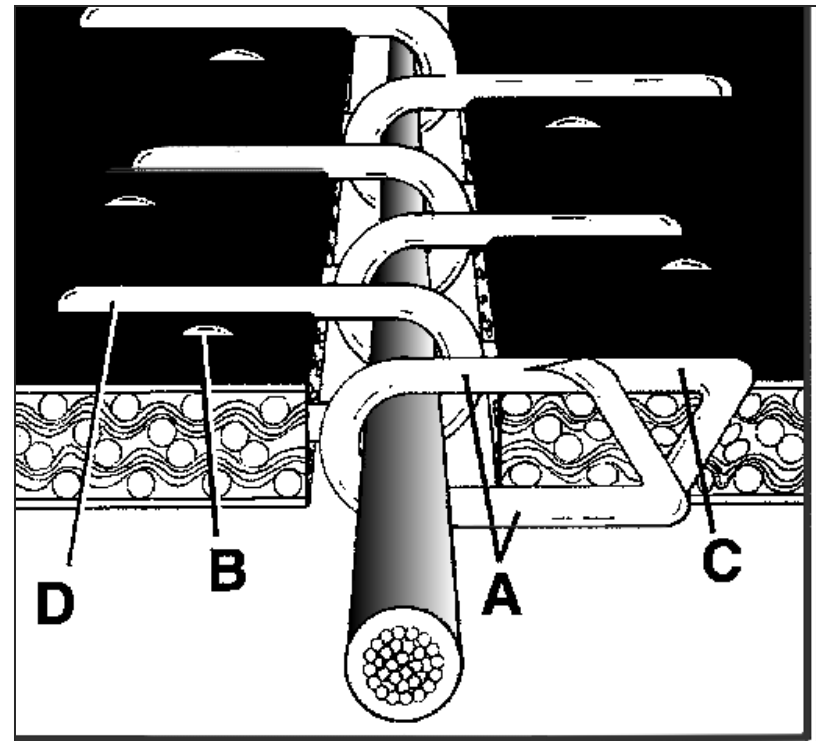
- One more hook installed on leading edge than trailing edge
- 5 – 10 mm on each belt edge is left unlaced
- Edges of belt line up



Best Practices

Properly Installed ANKER® Splices

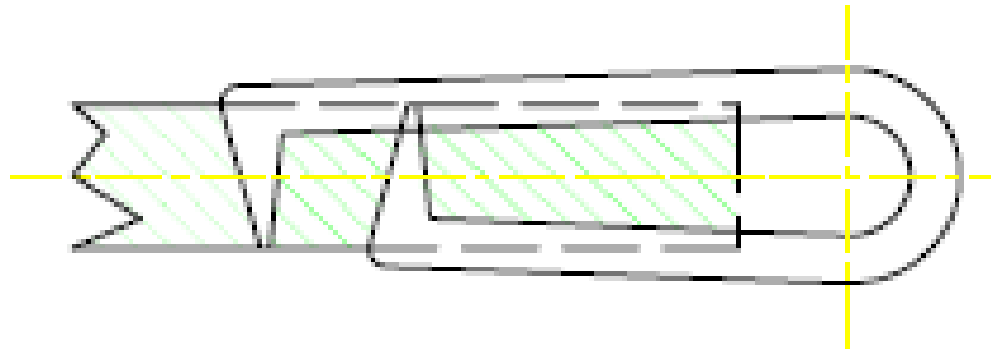
- A. Hook legs are parallel
- B. Points slightly penetrate opposite side of belt
- C. 1/3 - 1/2 wire diameter is embedded
- D. Knuckles are not higher than legs



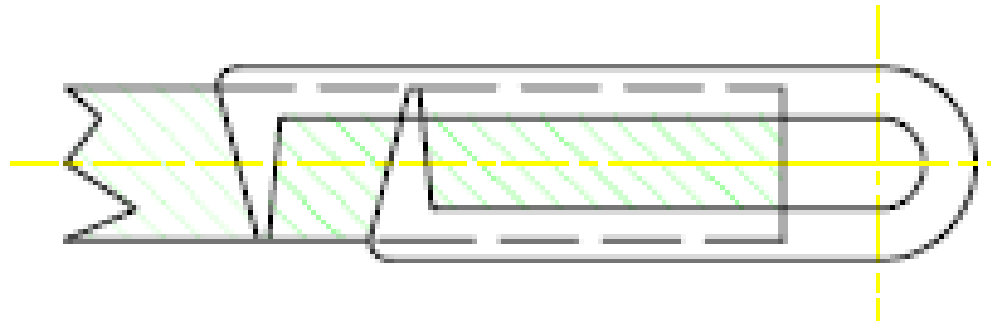
Best Practices

Optimized Fastener Eyelets

- **U-form**, Fastener legs parallel to belt



- **Drop-Form**, for certain applications also possible



Summary

ANKER® Wire Hook System

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- Size Selection
- Installation Process & Tools



Additional Resources

**For more information visit
<http://www.flexco.com>**