

# MARKEN<sup>TM</sup>

MANUFACTURING



## **Flexible Assembly Technology** for hose and cable

Edition IV

Prefeeds  
Cutters  
Skivers  
Coilers  
Crimpers



# Technology for **cutting** & beyond

## 20 YEARS OF EXPERTISE

Marken has over 25 years of experience helping you with cutting technology and your equipment needs. Marken specializes in standard and custom cutting and crimping machines for hose, wire, cable and tubing industries. Along with a full line of accessories ranging from payouts to coilers and skivers to test benches, Marken meets all your hose and cable assembly needs.

## MARKEN SOLUTIONS

- **MANUAL CUTTING**
- **AUTOMATIC CUTTING**
- **FEEDING / COILING**
- **FITTING INSERTION**
- **CRIMPING**
- **MARKING**
- **TESTING**
- **SERVICE**
- **CUSTOMIZATION**



## Dear Customer,

*Thank you for the opportunity to help provide a solution for your assembly needs. You are the reason we are able to come to work each day. It is our job to listen, ask the right questions and provide the right products that fit your needs both today and tomorrow. When you are satisfied, then we have done half our job, the other half comes with our support over the life of the product.*

*Thank you for your trust.*

Ken Guddal  
President and Owner  
Marken Mfg.

## STANDARD OR CUSTOMIZED

Marken's large range of products and technology cover most assembly needs. We continue to develop new and better products to keep up with market demand and to serve you better. When existing products don't fit your applications, Marken rises to the challenge to custom engineer equipment and systems.

## STATE OF THE ART TECHNOLOGY

Marken knows the market and works closely with our customers. This has resulted in the most advanced assembly technology available today. This state of the art automatic cutting technology provides the highest accuracy in length and quality in the cut, with new measuring and control solutions, and patented cutting technology. New PC controlled operation makes the automatic cutting process fully flexible to produce batches, kits and single pieces. And the integrated value added functions allow you to print part numbers, insertion marks, logos, bar codes, and even print and wrap labels during the automatic process. All this will bring your productivity, quality control and process control to a completely new level.







**Made in the U.S.A.**

## Marken Technology

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Models, numbers, specifications, performances, designs; all subject to change.

### ADDITIONAL SERVICES

Consulting  
Advanced Instruction  
Set up / Installation  
Maintenance / Repair  
Software Update  
System Upgrade

## Automatic Cutters

### KEY FEATURES

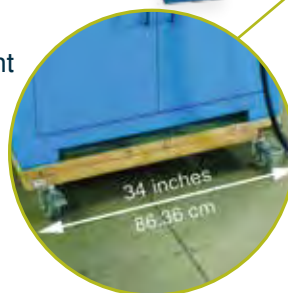


touch screen  
with auto adjustment

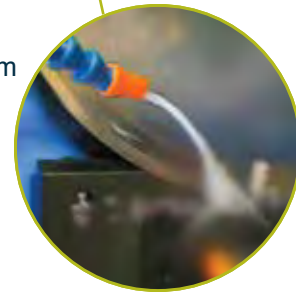
easy set up



small footprint



wet cut system



patented cutting  
technology



## Features/Benefits

### Accurate and repeatable

- auto adjustment of first piece
- independent measuring system
- smooth feeder options
- accuracy 0.1-0.3% of cut length (exceeds SAE standards)
- CPK of 1.67 or greater

### Reliable, easy to operate and maintain

- simple touch screen control
- industrial components
- heavy duty construction
- 20 year operation life

### Clean square cuts and long blade life

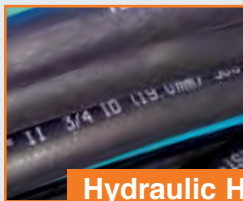
- patented blade and cutting technology
- wet cut reduces contamination in cutting process, inside hose and in the facility environment
- wet cut cools the blade for longer blade life

### Fast and easy set up for hose sizes

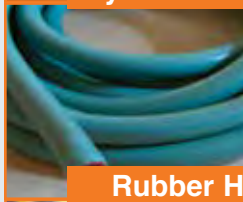
- quick change of guide tubes and dies
- self adjusting feed rollers
- self adjusting measuring wheel



### Cutting Applications



Hydraulic Hose



Rubber Hose



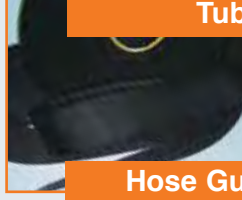
Suction Hose



PTFE



High Pressure  
Tubing



Hose Guard



Wire, Steel Cable



Thermoplastic,  
PVC, Silicon



Composite Hose

### Cutting Methods

#### Weld Cut (WC):

The Weld Cutting method uses the application of electricity, when cutting steel cable, to produce a sealed and contained cut.



#### Saw (S):

Marken Mfg. has set the world-wide standard for cutting hydraulic hose with the application of our wet cut system, coupled with our specially designed blade..



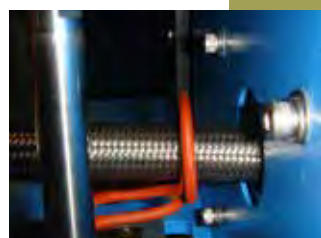
#### Hydraulic Cut (H):

The Hydraulic cutting method allows you to cut various sizes and types of materials that require more force, while decreasing the risk of contamination.



#### Saw Induction (SI):

The Saw/Induction method works especially well when cutting PTFE hose. This method allows you to eliminate flaring of the material after the cut.



#### Air Guillotine (A):

Marken's Air Guillotine cut method works for non-wire hose and small battery cable, allowing for a clean, square cut, with no contamination



#### Intensifier (I):

The Intensifier method uses the simplicity of pneumatics to shear cut small diameter steel cable, up to 3/16"



## Marken Touch Screen Controller

### Touch Screen easy operation

- Auto adjustment of first piece
- Single piece or batch cutting
- Error free measuring and cutting
- Automatic adjustment ensures accuracy regardless of feed speed
- Operation Instructions and Trouble Shooting Diagnostics at your fingertips
- Password protected screens



## Optional PC Controlled Operation

### Organize Products

- Sort by hose type or size

### Remote Network Control

### Multiple User Levels

### Kit Manufacturing

- Import/export with Excel
- Database options include: SQL, Access



## Additional Advantages of Touch Screen and PC Control

Optional Touch Screen memory stores up to 200 part numbers. PC Control part number memory is unlimited. Automatic adjustment ensures accuracy regardless of speed. Screens are password protected. Currently available in: **English, Spanish, Italian, French, German** and more with custom solutions.



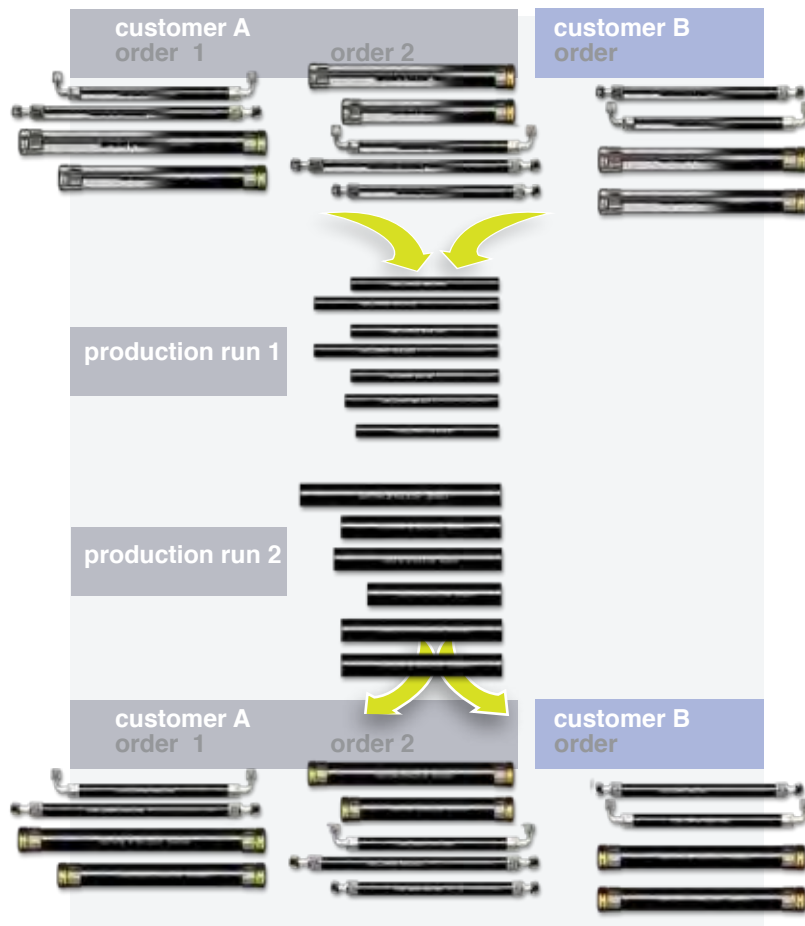
## Flexible Integrated Production

### Automated multiple kit production

Marken has developed state of the art, fully flexible solutions for the manufacturing of single pieces, kits and batches.

### Marken PC Control allows you to:

- **Receive** and **Enter Orders** manually or electronically
- **Sort** the **Production Runs** by customer, kit, hose size/type
- **Combine** different kit/batch **Orders** enabling you to **Maximize Runs** and **Increase Productivity**
- **Larger** runs **Minimize** the need for **Tooling Changes**
- **Yields** individual products/pieces **Automatically!**



### Integrated flexible marking

Marken technology integrates **Inkjet Printing** and labeling options into the cutting process.

- Part number, name, date
- Barcodes, lay lines, logos
- Depth marking, clamp marking

### Adhesive label application

- Print, Wrap, Locate

### History information

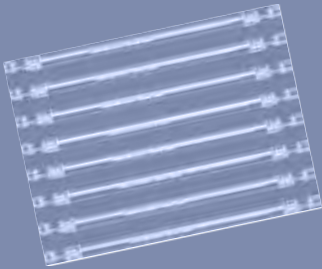
- Full runs and orders
- Individual hoses



## Industry Leaders

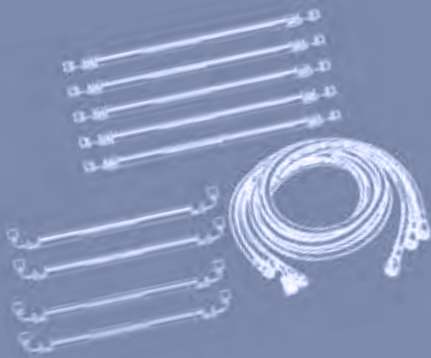
**Marken automatic** cutting solutions, automatic cutters, feeders/ racks and coilers give you the tools to run a modern, organized assembly operation with high productivity.

Automatic batch production



High

Mixed batch / kit production



P  
R  
O  
D  
U  
C  
T  
I  
V  
I  
T  
Y

Manual kit production



Low

### The other way...



### Batches to kits

Hose assembly suppliers work with OEM equipment manufacturers with differing requirements. Some manufacturers build large volumes of standard machines, yet others require short delivery times with extreme flexibility. This creates new challenges for a hose assembly supplier.



### Fully manual hose assembly factory

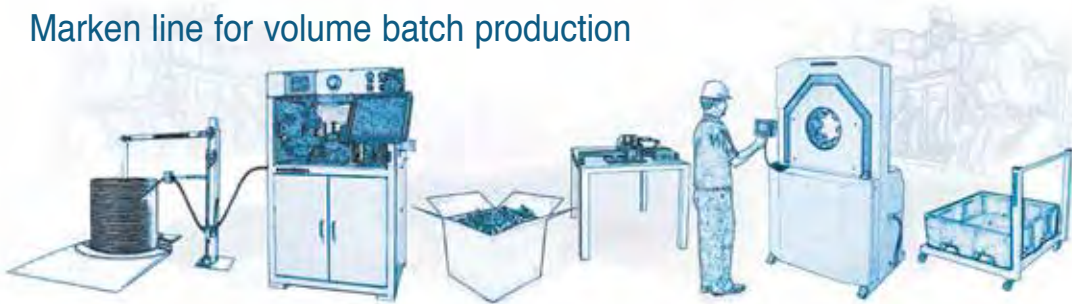


workers  x8 output 



## Modern **Marken** Solution for flexible hose assembly

### Marken line for volume batch production



Flexible Marken technology yields:

#### Increased Productivity

- Low defect cells
- Single piece flow production cell
- Labor reducing cell

#### Increased Efficiency

- Integrated systems
- High precision production
- Premium line production equipment

#### Increased Safety

- “Pain Reduction” production equipment

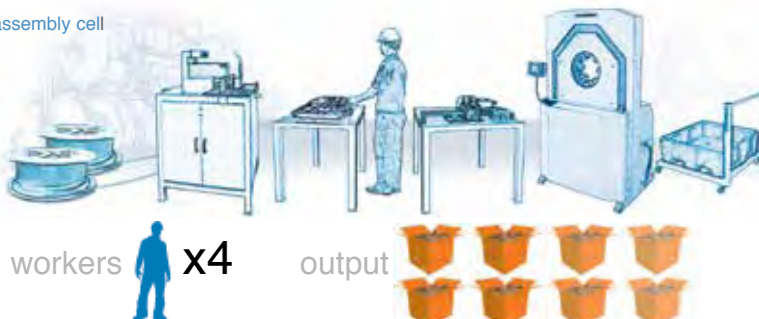
#### Increased Profitability

- Cost saving automation
- Rapid payback investment

### Marken flexible assembly factory



streamlined volume line  
and  
traditional manual assembly cell



# Payouts, Feeders and Coilers

**763 REEL PAYOUT**


Manual	Wire	Steel Cable	Hose
Application	x	x	x
Max.Weight	2000 lbs	"	"
Width	no limit	"	"
Dimensions: 25" x 7" x 2.5"			

**764 REEL PAYOUT**


Manual	Wire	Steel Cable	Hose
Application	x	x	x
Max.Weight	1000 lbs	"	"
Width	up to 36"	"	"
Dimensions: 25" x 15-45" x 2.5" 30-50 lbs			

**MPL48 MOTORIZED PAYOUT**


Automated	Wire	Steel Cable	Hose
Application			x
Max.Weight			300 lbs*
Width			up to 48"
Dimensions: 96" x 50" x 60" 250 lbs 110/230v 1ph 50/60 hz			

\* larger available on request

**PL48 DISPENSING PAYOUT**


Manual	Wire	Steel Cable	Hose
Application	x	x	x
Max.Weight	*350 lbs	"	"
Width	*up to 48"	"	"
Dimensions: 50" x 50" x 55" 125 lbs			

\* larger available on request

**MPL48 1000 PAYOUT**


Automated	Wire	Steel Cable	Hose
Application			x
Max.Weight			1000 lbs*
Width			up to 48"
Dimensions: 96" x 50" x 60" 250 lbs 110/230v 1ph 50/60 hz			

\* larger available on request

**LLMPL48 PAYOUT**


Motorized	Wire	Steel Cable	Hose
Application	x	x	x
Max.Weight	1000 lbs	"	"
Width	up to 36"	"	"
Air activated. Dancer controlled variable speed. 110/230v 1ph 50/60hz 106"x 80"x 100" 450 lbs			

**MODEL 800 DEREELEER**


Automated	Wire	Steel Cable	Hose
Application	x	x	x
Max.Weight	7000 lbs	"	"
Width	up to 8 ft.	"	"
Motorized reel take-up or payout. Dancer controlled variable speed. 208/480v 3ph 50/60hz 120" x 60" x 72" 2000 lbs			



# Payouts, Feeders and Coilers

## 670HD COILER w/Measuring Device



Automated	Wire	Steel Cable	Hose
Application	x	x	x
Max.Weight	250 lbs	"	"
Reel capacity	24"x 36"	"	"
Mechanical counter up to 1.5" O.D.			

## P200 MOTORIZED FEED

Payout for spools & reels of wire. Single or dual feed locations.



Automated	Wire SPOOL	Wire REEL
Feed rate	up to 500 fpm	"
Max.Weight	50 lbs	250 lbs
Speed	1/4 hp	1/2 hp
Automatic feed. Dancer controlled speed. 110/230v 1ph 50/60hz 48" x 28" x 42" 150 lbs		

## SR SERIES RACKS

Configurable  
in groups of 6  
places



RACK	Wire	Steel Cable	Hose
Application	x	x	x
Max.Weight	150 lbs each arm	"	"
Width	up to 48"	"	"
80" x 40" x 76" 200 lbs Size varies depending on configuration*			

## PRODUCTION RACK

Configuration  
2 high or 3 high



RACK	Wire	Steel Cable	Hose
Application	x	x	x
Max.Weight			2250 lbs.
Width			up to 36"
120" x 36-42" x 76" 350 lbs			

## TRAPEZE



Automated	Wire	Steel Cable	Hose
Application			x
Max.Weight			no limit
52" x 54" x 56-96" 80 lbs			

## PL48 x 4



Rotating Coil  
Rack

RACK	Rubber Hose	Steel Cable	Wire
Application	x	x	x
Max.Weight	350 lbs each arm	"	"
Width	up to 48"	"	"
120" x 120" x 60" 300-400 lbs			

# Coilers

## AUTO-COIL 30 (AC30)



AC-30 auto-coiler for in line automatic coiling of hose.  
Best used with the 500S. page 17



Automatic	Wire	Steel Cable	Hose
Application			x
Max.Weight			100 lbs
Max.Length			100'

Air: 80psi Power 110/230v 1ph 1hp  
28" x 80" x 46" 200 lbs  
Foot pedal pin release

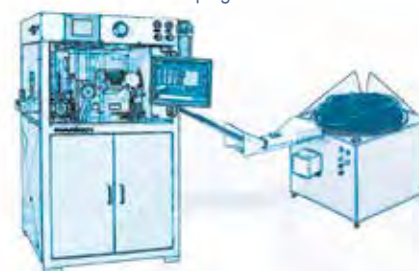
Interconnects with autosaw for controls.  
Max length depends on hose diameter.  
Max hose diameter 1"OD

- Enables one piece flow of coiled products increasing productivity.
- Reduces "touches" by operators in a production cell environment.
- Ergonomic working position eliminates lifting of heavy coils thereby reducing injuries.
- Coiling paddles drop away to allow a coil to be slid off to the assembly station.

## AUTO-COIL 50 (AC50)



AC-50 auto coiler for in line automatic coiling of hose.  
Best used with the 550S. page 19



Automatic	Wire	Steel Cable	Hose
Application			x
Max.Weight			300 lbs
Max.Length			100'

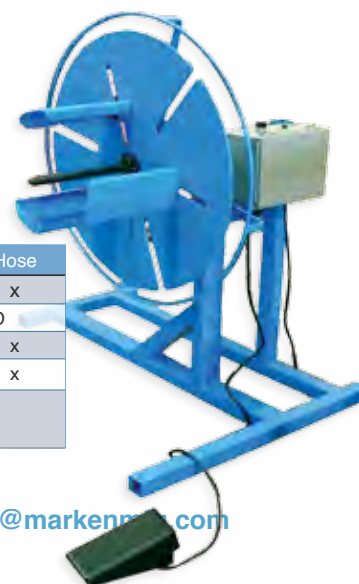
Air: 80psi Power 110/230v 1ph 1hp  
58" x 36" x 42" 200 lbs  
Foot pedal pin release

Interconnects with autosaw for controls.  
Max length depends on hose diameter.  
Max hose diameter 1 1/4" ID

## 670C COILER

Automatic	Wire	Steel Cable	Hose
Application	x	x	x
Width	12"-18" adjustable ID		
Coil Width	10"	x	x
Max.Weight	150 lbs.	x	x

Adjustable center. Variable speed.  
Dimensions: 48" x 34" x 60" 225 lbs





# Manual & Semi-Automatic Cutters

589S 589L 589XL



Model	Hose	*Other materials possible w/factory evaluation
<b>589 S</b>	3/4"	12" x 8" x 12" 40 lbs
<b>589 L</b>	1 1/2"	15" x 12" x 20" 60 lbs
<b>589 XL</b>	3"	18" x 18" x 30" 80 lbs

Air 100psi We offer many size upgrades to this model.

589H 589I



Model	Wire	Steel Cable	Copper Wire	Hose
<b>589 H</b>	3/4"	3/8"	2"	4" one wire
<b>589 I</b>	3/16"	3/16"		

32" x 32" x 72" 225 lbs Air 100psi  
 589H 110/230v 1ph 50/60hz  
 Measuring trough 36" standard. Other lengths possible. We offer size upgrades to this model.

M16 MANUAL SAW



Model	Hydraulic Hose	Industrial Hose
<b>M 16</b> 16 in. blade	2" six wire	4"
<b>M 20</b> 22 in. blade	3" six wire	6"

Power 10hp/15hp 230/480v 3ph 50/60hz  
 Hydraulic powered bending unit.  
 M20 features a moving saw blade. Water cooled.  
 38" x 34" x 56" 400 lbs

M20 SEMI-AUTOMATIC SAW



## Features/Benefits

### Marken Manual Production Saws

- Wet cut - reduces smoke and contamination
- Ergonomic working position
- Guarded blade

### M20

- Computer controlled cutting speed
- Digital piece counter
- Two-hand tie down for safety
- Computer controlled blade rotation speed

## M10 EZ-Cut Series

M10 ECO



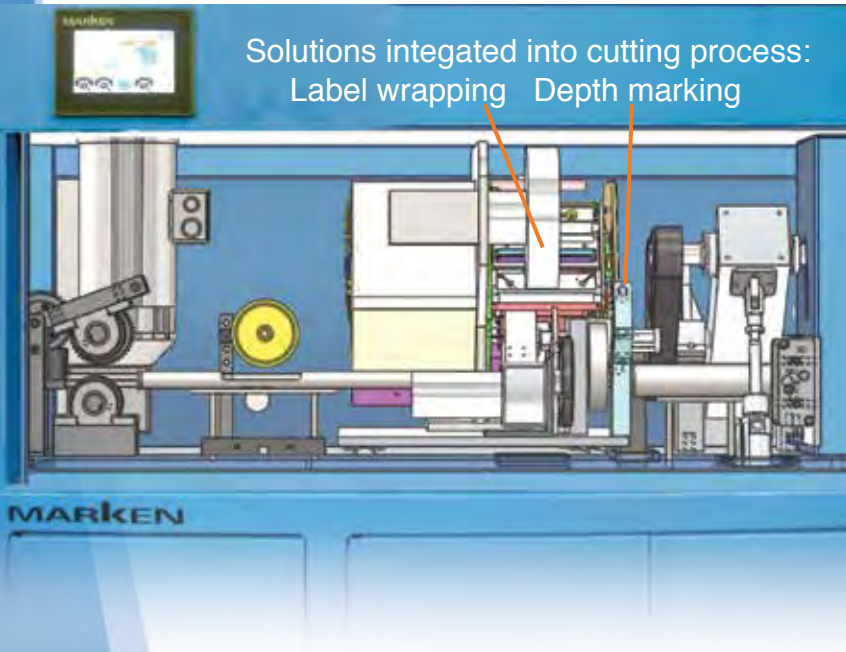
M10 DC



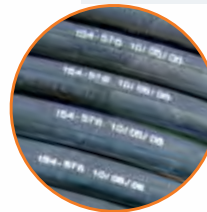
Model	Wire	Steel Cable	Hose
<b>M10 ECO</b>			1 1/4" 4 wire
<b>M10 DC</b>			1 1/4" 4 wire
27" x 16" x 15" 80 lbs 10" blade Locking blade guard NO Air required M10 EZ Cut 5HP 230v Single Phase M10DC up to 4HP (depending on connection) 12V DC			

## Inkjet Printing & Labeling

Solutions integrated into cutting process:  
Label wrapping Depth marking



### Integrated printing



- Part number, name, date



- Barcodes, lay lines, logos



- Depth marking, clamp marking

### Adhesive label application

- Print, Wrap, Locate





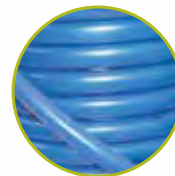
## 450 Series Automatic Cutting Machine



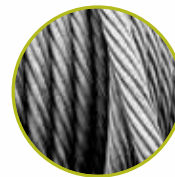
Voltage Options: 110 / 240 Volts, Single Phase, 100 psi Air  
Dimensions: 18" long x 24" wide x 13" tall  
Weight: 125 pounds

Applicable Materials:

NON-WIRE  
RUBBER HOSE  
& TUBING



STEEL CABLE



COVERED  
CABLE



### 450 A

(Air Guillotine)

Application	Size
<b>Non-Wire Hose</b>	3/4"
<b>Battery Cable *</b>	3/8"

\* Requires special blade configuration

**Air Guillotine (A):**

Marken's Air Guillotine cut method works for non-wire hose and small battery cable, allowing for a clean, square cut, with no contamination.

### 450 I

(Intensifier)

Application	Size
<b>Steel Cable</b>	3/16"

**Intensifier (I):**

The Intensifier method uses the simplicity of pneumatics to shear cut small diameter steel cable, up to 3/16"

### Accessories:



Production Table



Collection Bin



Payouts Page 9

- Rate of feed up to 180 FPM
- Up to 2000 cuts per hour
- Accuracy .1 to .3 percent of length (exceeds SAE standards)
- CPK of 1.67 or greater

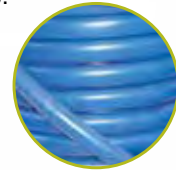
## 475 Series Automatic Cutting Machine



Voltage Options: 120 / 208 / 230 / 400 / 480 / 600 Volts  
(power requirements vary with machine configuration)  
Single or Three Phase, 100 psi Air  
Dimensions: 36" long x 34" wide x 36" tall  
Weight: 300 pounds

Applicable Materials:

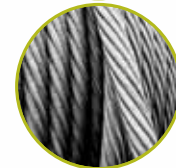
NON-WIRE  
RUBBER HOSE  
& TUBING



HOSE GUARD



STEEL CABLE



PTFE HOSE



### 475 A

(Air Guillotine)

Application	Size
Non-Wire Hose	1 1/4"

Air Guillotine (A):

Marken's Air Guillotine cut method works for non-wire hose and small battery cable, allowing for a clean, square cut, with no contamination.

### 475 S

(Saw)

Application	Size
Hose Guard	6" Flat

Saw (S):

The 475S is a special design for cutting hose sleeve. With a special blade and clamping system to not only measure and cut sleeve but to also "sear" the end without sealing it closed. This provides a nice clean end with very little fraying and no need to further handle the sleeve prior to assembly.

#### Accessories:



Coilers Page 11



Dispersing Racks Page 10



Reelers Page 10



Platters Page 10



Collection Bin



Payouts Page 9

#### Options:

Depth Marking, InkJet Lay Line, Part Number, Logo and or Bar Code Marking



PC Control/Kit Cutting Technology



Splice Detection



- Rate of feed up to 100 FPM for 475S 160 FPM for 475A
- Up to 2000 cuts per hour
- Accuracy .1 to .3 percent of length (exceeds SAE standards)
- CPK of 1.67 or greater



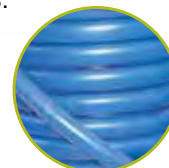
# 475 Series Automatic Cutting Machine



Voltage Options: 120 / 208 / 230 / 400 / 480 / 600 Volts  
(power requirements vary with machine configuration)  
Single or Three Phase, 100 psi Air  
Dimensions: 36" long x 34" wide x 36" tall  
Weight: 300 pounds

Applicable Materials:

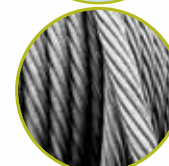
NON-WIRE  
RUBBER HOSE  
& TUBING



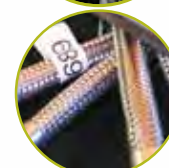
HOSE GUARD



STEEL CABLE



PTFE HOSE



## 475 H

(Hydraulic Cut)

Application	Size
Steel Cable	1/4"
PTFE Hose	1"
Battery Cable *	3/4"

\* Requires special blade configuration

Hydraulic Cut (**H**):

The Hydraulic Cutting Method allows you to cut various sizes and types of materials that require more force, while decreasing the risk of contamination.

## 475 WC

(Weld Cut)

Application	Size
Steel Cable	1/4"

Weld Cut (**WC**):

The Weld Cutting method uses the application of electricity, when cutting steel cable, to produce a sealed and contained cut.

### Accessories:



Coilers Page 11



Dispersing Racks Page 10



Reelers Page 10



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Collection Bin



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### Options:

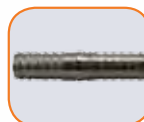
Depth Marking, InkJet  
Lay Line, Part Number,  
Logo and or Bar Code  
Marking



PC Control/Kit Cutting  
Technology



Splice Detection



- Rate of feed up to 180 FPM
- Up to 2000 cuts per hour
- Accuracy .1 to .3 percent of length (exceeds SAE standards)
- CPK of 1.67 or greater

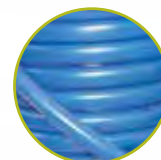
# 500 Series Automatic Cutting Machine



Voltage Options: 208 / 230 / 400 / 480 / 600 Volts  
Three Phase, 100 psi Air  
Dimensions: 34" long x 34" wide x 56" tall  
Weight: 1,000 pounds

Applicable Materials:

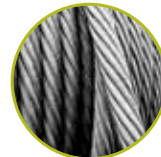
NON-WIRE  
RUBBER HOSE  
& TUBING



HYDRAULIC  
HOSE



STEEL CABLE



PTFE HOSE



COVERED  
CABLE



## 500 A

(Air Guillotine)

Application	Size
Non-Wire Hose	less than 3" OD

Air Guillotine (A):

Marken's Air Guillotine cut method works for non-wire hose and small battery cable, allowing for a clean, square cut, with no contamination.

## 500 S

(Saw)

Application	Size
Non-Wire Hose	1 1/4"
Hydraulic Hose	3/4" two wire 1" one wire
PTFE Hose	1" flared end

Saw (S):

Marken Mfg. has set the world-wide standard for cutting hydraulic hose with the application of our wet cut system, coupled with our specially designed blade.

### Accessories:



Coilers Page 11



Dispersing Racks Page 10



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Collection Bin



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### Options:

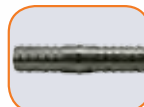
Depth Marking, InkJet Lay Line, Part Number, Logo and or Bar Code Marking



PC Control/Kit Cutting Technology



Splice Detection



Guillotine - 500S only



- Rate of feed up to 150 FPM
- Up to 750 cuts per hour
- Accuracy .1 to .3 percent of length (exceeds SAE standards)
- CPK of 1.67 or greater



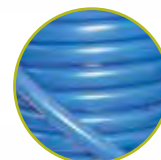
# 500 Series Automatic Cutting Machine



Voltage Options: 208 / 230 / 400 / 480 / 600 Volts  
Three Phase, 100 psi Air  
Dimensions: 34" long x 34" wide x 56" tall  
Weight: 1,000 pounds

Applicable Materials:

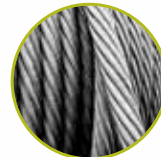
NON-WIRE  
RUBBER HOSE  
& TUBING



HYDRAULIC  
HOSE



STEEL CABLE



PTFE HOSE



COVERED  
CABLE



## 500 H (Hydraulic)

Application	Size
Steel Cable	5/16"
PTFE Hose	1" pinched
Battery Cable	1 1/2"

Hydraulic (H):

The Hydraulic Cutting Method allows you to cut various sizes and types of materials that require more force, while decreasing the risk of contamination.

## 500 SI

(Saw/Induction)

Application	Size
Non-Wire Hose	1 1/4"
Hydraulic Hose	3/4" two wire 1" one wire
PTFE Hose	1" non-flared

Saw/Induction (SI):

The Saw/Induction method works especially well when cutting PTFE hose. This method allows you to eliminate flaring of the material after the cut.

### Accessories:



Coilers Page 11



Dispersing Racks Page 10



Reelers Page 10



Platters Page 10



Collection Bin .



Payouts Page 9

### Options:

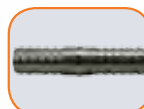
Depth Marking, InkJet  
Lay Line, Part Number,  
Logo and or Bar Code  
Marking



PC Control/Kit Cutting  
Technology



Splice Detection



- Rate of feed up to 150 FPM
- Up to 750 cuts per hour
- Accuracy .1 to .3 percent of length (exceeds SAE standards)
- CPK of 1.67 or greater

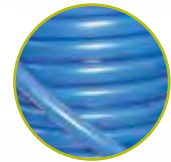
## 500 / 550 Series Automatic Cutting Machine



Voltage Options: 208 / 230 / 400 / 480 / 600 Volts  
Three Phase, 100 psi Air  
Dimensions: 34" long x 34" wide x 56" tall  
Weight: 1,000 pounds

Applicable Materials:

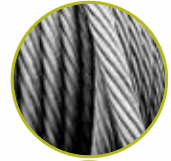
NON-WIRE  
RUBBER HOSE  
& TUBING



HYDRAULIC  
HOSE



STEEL CABLE



PTFE HOSE



COVERED  
CABLE



### 500 WC (Weld Cut)

Application	Size
Steel Cable	3/8"

**Weld Cut (WC):**

The Weld Cutting method uses the application of electricity, when cutting steel cable, to produce a sealed and contained cut.

### 550 S (Saw)

Application	Size
Non-Wire Hose	2"
Hydraulic Hose	1 1/4" six wire 1 1/2" four wire

**Saw (S):**

The inclusion of a pneumatic bender makes the 550S perfectly suited for customers that need to cut a wider range of hose sizes, especially larger high pressure hose.

#### Accessories:



Coilers Page 11



Dispersing Racks Page 10



Reelers Page 10



Platters Page 10



Collection Bin



Payouts Page 9

#### Options:

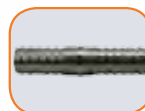
Depth Marking, InkJet  
Lay Line, Part Number,  
Logo and or Bar Code  
Marking



PC Control/Kit Cutting  
Technology



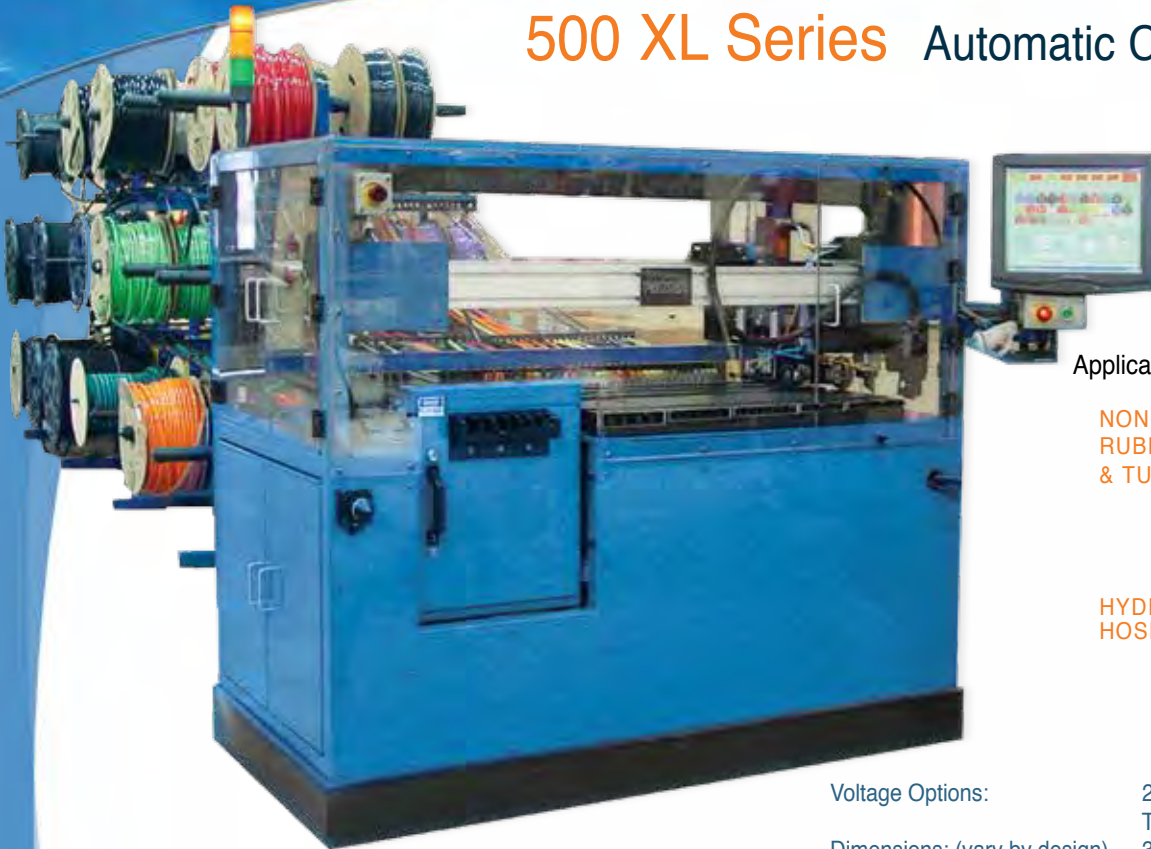
Splice Detection



- Rate of feed up to 150 FPM
- Up to 750 cuts per hour
- Accuracy .1 to .3 percent of length (exceeds SAE standards)
- CPK of 1.67 or greater

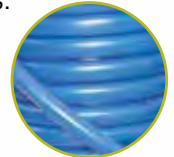


# 500 XL Series Automatic Cutting Machine



Applicable Materials:

NON-WIRE  
RUBBER HOSE  
& TUBING



HYDRAULIC  
HOSE



Voltage Options:

208 / 230 / 400 / 480 / 600 Volts

Dimensions: (vary by design)  
Weight:

Three Phase, 100psi Air  
30 to 60" wide x 60" tall x 36" long  
2,000 pounds

## 500 XL-6

(Saw & Guillotine)

Application	Size	6 - 8 Hose Capacity
Non-Wire Hose	up to 1"	
Hydraulic Hose	3/4" one wire	

## 500 XL

(Saw & Guillotine)

Application	Size	Up to 50 Hose Capacity
Non-Wire Hose	up to 1"	
Hydraulic Hose	3/4" one wire	

### Options:

PC Control/Kit Cutting  
Technology



Splice Detection



- Up to 2000 cuts per hour
- Rate of feed up to 250 FPM
- On the Fly Printing
- Integrated Network Software
- Option for 2 different cutting types: Guillotine and Saw

- Produces complete kits w/ no tooling changeover between materials
- Multi-Station design eliminates production stoppage due to interruption of material supply
- Inkjet marking of part numbers, clamp marks, logos, insertion marks, and barcodes



# 600 S Automatic Cutting Machine



Applicable Materials:

NON-WIRE  
RUBBER HOSE  
& TUBING



HYDRAULIC  
HOSE



PTFE HOSE



labeling, printing,  
depth marking

## 600 S (Saw)

Application	Size
Non-Wire Hose	up to 1"
Hydraulic Hose	1" one wire 3/4" two wire
PTFE Hose	up to 1"

Voltage Options:

208 / 230 / 400 / 480 / 600 Volts

Dimensions: (vary by design)  
Weight:

Three Phase, 100psi Air  
60" wide x 62" tall x 36" long  
2,000 pounds

### Saw (S):

Marken Mfg. has set the world-wide standard for cutting hydraulic hose with the application of our wet cut system, coupled with our specially designed blade.

### Accessories:



Coilers Page 11



Dispersing Racks Page 10



Reelers Page 10



Platters Page 10



Collection Bin



Payouts Page 9

### Options:

Splice Detection



Depth Marking



Guillotine



- Rate of feed up to 150 FPM
- Up to 1000 cuts per hour
- PC Control with Kit Cutting Technology
- InkJet, Lay Line, Part Number, Logo and/or Bar Code
- Automatic Adhesive Labeling Included



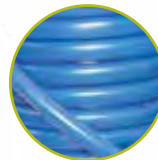


# 650 S Automatic Cutting Machine



Applicable Materials:

NON-WIRE  
RUBBER HOSE  
& TUBING



HYDRAULIC  
HOSE



**650 S**  
(Saw)

Voltage Options:

208 / 230 / 400 / 480 / 600 Volts

Dimensions: (vary by design)

Three Phase, 100psi Air

Weight:

60" wide x 62" tall x 36" long

2,000 pounds

Application	Size
Non-Wire Hose	1 1/4" - 4" ID
Hydraulic Hose	1 1/4" - 2" ID 1-6 wire Braid and Spiral
Industrial	up to 4"

Drive: 3/4 HP Horizontal Double Belt Drive

Saw Motor: 15 HP

Saw Blade: 18" Laser Slotted Blade

Cutting Type: Wet Cut

## Accessories:



Reelers Page 10



Dispersing Racks Page 10



Platters Page 10



Collection Bin



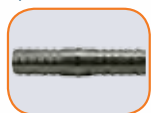
Payouts Page 9

## Options:

Automatic Depth Marking



Splice Detection



- Cutting speed of 500 pieces per hour at 3 feet long 1" one wire hose
- Accuracy of 0.5 % of length
- PC Control with network and database function



# Crimping Machines

## NK16 1" Crimper

Application
<b>2-SN 1"</b>
<b>4-SP ½"</b>



Crimp Force	80 Tons
Max Crimp Size	1 Inch (25mm)
Max Die Length	56 mm
Opening w/out Dies	118mm
Gross Weight	62 lbs (28kgs)
Dimensions	12" x 9" x 16"
Control	Hand Pump
Applicable Die Sets	16 Series

## K40 2" Crimper

Application
<b>2" four wire</b>
<b>2" Industrial</b>



Crimp Force	240 Tons
Max Crimp Size	3 Inch (76 mm)*
Max Die Length	4 Inch (100mm)
Opening w/out Dies	4.6 Inch (118 mm)
Gross Weight	400 lbs (180 kgs)
Motor	5 Hp (4 kw) – 208/480V 3ph
Voltage Options	230V 1 Ph
Dimensions	24" x 16" x 25"
Control	Touch Screen or Micrometer
Applicable Die Sets	40 Series

## K60 4" Industrial Crimper

Application
<b>2" six wire</b>
<b>4" Industrial</b>



Crimp Force	350 Tons
Max Crimp Size	5.2 Inch (130 mm)*
Max Die Length	4.9 Inch (120 mm)
Opening w/out Dies	7.08 Inch (180 mm)
Gross Weight	580 lbs (260 kgs)
Motor	7.5 Hp (5.5kW) – 208/480V 3ph
Voltage Options	230V 1Ph
Dimensions	20" x 30" x 34"
Control	Touch Screen or Micrometer
Applicable Die Sets	60 and 60L



# Crimping Machines

## K285 6" Adjustable Height Crimper



Application
<b>3" six wire</b>
<b>6" Industrial</b>

**150lb Flange Capacity**  
**Adjustable Height**



Crimp Force	400 Tons
Crimp Range	¼ inch to 8.25" (210 mm)
Master Die Length	6 Inch (150mm)
Opening w/Dies	+2.25" (55 mm)
Opening w/out Dies	11.22" (285 mm)
Motor	7.5 Hp (5.5kw) – 208/480V 3ph
Voltage Options	230V 3Ph or 480V 3Ph
Dimensions	44" x 28" x 55"
Control	Touch Screen or Micrometer
Applicable Die Sets	60, 60L, and 285

\*\*\*Working Height Adjust From 12" to 40"

## K150 3" Industrial Crimper Coming this year

Crimp Force	150 Tons
Max Crimp Size	3 Inch (75 mm)* Industrial
Max Crimp Size	1 ¼ Inch 6 wire
Master Die Length	3 Inch (75 mm)
Opening w/Dies	+45mm +1.9 inch

**2000 Crimps per hour**  
**theoretical speed**



Application
<b>1 1/4" 6 wire</b>
<b>3" Industrial</b>

# Crimping Machines

## KP300 Production Crimper

Application
<b>2" six wire Hydraulic</b>
<b>6" Industrial</b>



Crimp Force	300 Tons
Max Crimp Size	6 Inch (155 mm)*
Max Die Length	5 Inch (125 mm)
Opening Travel	+3.25 inch (80 mm)
Opening w/out Dies	8.8 Inch (225mm)
Gross Weight	2000 lbs.
Motor	7.5 Hp (5.5kW) – 208/480V 3Ph
Voltage Options	230V 3Ph or 480V 3 Ph
Dimensions	31" x 31" x 60"
Control	Touch Screen
Applicable Die Sets	60 & 60L Series

### Products and Materials:



3" 90° Elbow Fitting



ANSI 150 lb. Flange



Cam and Groove

### Die Sets:

(Adapters are 130/80, 230/80, 145/80)

16 Series – 10, 12, 15, 18, 21, 24, 27, 30

40 Series – 10, 12, 15, 18, 21, 24, 27, 30, 33, 39, 45, 51, 57, 66, 70

60 Series – 10, 12, 15, 18, 21, 24, 27, 30, 33, 39, 45, 51, 57, 66

60L Series – 73, 80, 86, 90, 95, 99, 112, 117, 122

285 Series – 136, 146, 156, 166, 176, 186, 196, 206, 215



# Crimping Machines

## KP400 Industrial Crimper



Application
<b>3" six wire Hydraulic</b>
<b>8" Industrial</b>

**150lb Flange Capacity**

Crimp Force	440 Tons
Crimp Range	1/4" to 11.8" (250 mm)* - ANSI 150lb 8" Flange - ANSI 300lb 6" Flange
Master Die Length	6 Inch (150mm)
Opening Travel	+5 inch (+125 mm)
Opening w/out Dies	13 3/4 " (350mm)
Gross Weight	6300 lbs.
Motor	7.5 Hp (5.5kW) – 208/480V 3Ph
Voltage Options	230V 3Ph or 480V 3 Ph
Dimensions	44" x 31" x 76"
Control	Touch Screen
Applicable Die Sets	60, 60L, and 285

### Products and Materials:



3" 90° Elbow Fitting



ANSI 150 lb. Flange



Cam and Groove

### Die Sets:

(Adapters are 130/80, 230/80, 145/80)

16 Series – 10, 12, 15, 18, 21, 24, 27, 30

40 Series – 10, 12, 15, 18, 21, 24, 27, 30, 33, 39, 45, 51, 57, 66, 70

60 Series – 10, 12, 15, 18, 21, 24, 27, 30, 33, 39, 45, 51, 57, 66

60L Series – 73, 80, 86, 90, 95, 99, 112, 117, 122

285 Series – 136, 146, 156, 166, 176, 186, 196, 206, 215

# Pushers, Skivers & Pressure Test

## P1 PUSHER



Application	Hose
Max.Size	1"
Standard tooling for 1/4, 3/8, 1/2, 3/4, 1"	
Straight fittings Tooling for elbow fittings optional	
100psi air Optional two hand operation	
23"x16"x10" 80 lbs	

## P2 PUSHER

Rotating  
push on  
support  
tooling.



Application	Hose
Max.Size	2"
Standard tooling for 1/4, 3/8, 1/2, 3/4, 1"	
Straight fittings Tooling for elbow fittings optional	
100psi air Optional two hand operation	
Optional 4 place rotating disk for quick tool change	
36"x 28"x 42" 175 lbs	

## S1 BRUSH SKIVER



Application	Hose
Max.Size	2" six wire
Includes 6 mandrels: 1/4, 3/8, 1/2, 3/4, 1, 1 1/4"	
other sizes available	
36"x36"x30" 250 lbs 5hp 208/480V 3ph 50/60hz	
Adjustable skiving depth Brush wheel dia. 6"	
Available with an abrasive cone for tip skiving	

## Pressure Test Bench



### Options:

- Test record
- Electric pump & tank
- Internal light



## PRESSURE TEST TANK



Application
Low Pressure Testing

Application	Hose
Max.Size	1/4" to 2"
Max.Test Pressure	1.500 bar (20.000 PSI)
Max.Hoses per Test	5
100psi Test liquid: water Manifold: 5 outputs 3/8"	
38" x 65" x 56" 350 lbs	



## Custom Machines

Marken Manufacturing has over 20 years of experience and customer contact. Due to the wide range of industries and products we have worked with, we have become very versatile in the design, engineering, and creation of special machines. Very often, all it takes is a simple request from a customer who says, "I sure could use something that does....." We take it from there. In fact, many of our current front line products were the result of a special machine development. So, as we say, "just ask".

- Storage and payouts
- Measuring and feeding systems
- Manual and automatic cut to lengths systems
- Wire, cable and hose marking
- Mobile equipment
- Coilers and spoolers
- Special machine applications



## Blades



Marken offers brand new replacement blades for all saws, whether ours or from other manufacturers. We use high quality steel only from Western sources. We also offer blade sharpening services.



## Services



**Consultation** With 20 plus years of experience in the industry, Marken can offer complete assembly set up like no one else. An expert Marken representative can come to your location for a consultation and offer recommendations that will save your company time and money.

**Set up and training** Marken can come to your facility to set up your new equipment and teach your employees how to operate the machine. The Marken representative will offer advice on how to get the best performance out of your equipment and answer any questions you have.

**Machine tune up and calibration** Marken can also make modifications to and calibrate your machine on site.

**Contract cutting** Have a lot of cuts to make? Not sure if you are ready to purchase a machine? Marken can cut your product in house.

**Rental** If you have more work than makes sense for contract cutting, or a short term job, Marken can rent a cutter or crimper to your business to get you going.

**Leasing** When the time comes to buy a machine, but cash is tight, Marken can offer a machine lease to get you into the new business while managing cash flow. Several options and terms are available.

**Hydraulic crimper repair** Have a leaky crimper? Need to have your machine calibrated? Call Marken for a consultation on your equipment. Marken can repair most Uniflex and Techmafex machines as well as many Custom Crimp, Goodyear and Parker and Dixon style machines.



**Upgrade your equipment** Want a more efficient machine? Interested in some of the new machine features available? Marken can install a new Touch Screen Controller, upgrade your electronics, add Kit Cutting Software, Ink Jet Printing, Depth Marking or modify your cutting head if you want to change material.

**Overhaul current system** Is your machine in need of some TLC? Marken has minor, major or complete overhaul options.

**Technical support** Need some help with your machine, have a question, need to order a spare part? Marken is here to support your needs for the lifetime of your machine.

Before



After



**Made in the U.S.A.**

Thank you for considering Marken Manufacturing for your equipment needs. We strive to fulfill our commitment to excellent products and exceptional service to our customers. We welcome all comments and responses so that we may continue to bring you the best in flexible assembly technology.

The Marken Team - U.S. & Germany

**with offices in Germany**



# MARKEN<sup>™</sup> Catalog Edition IV



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