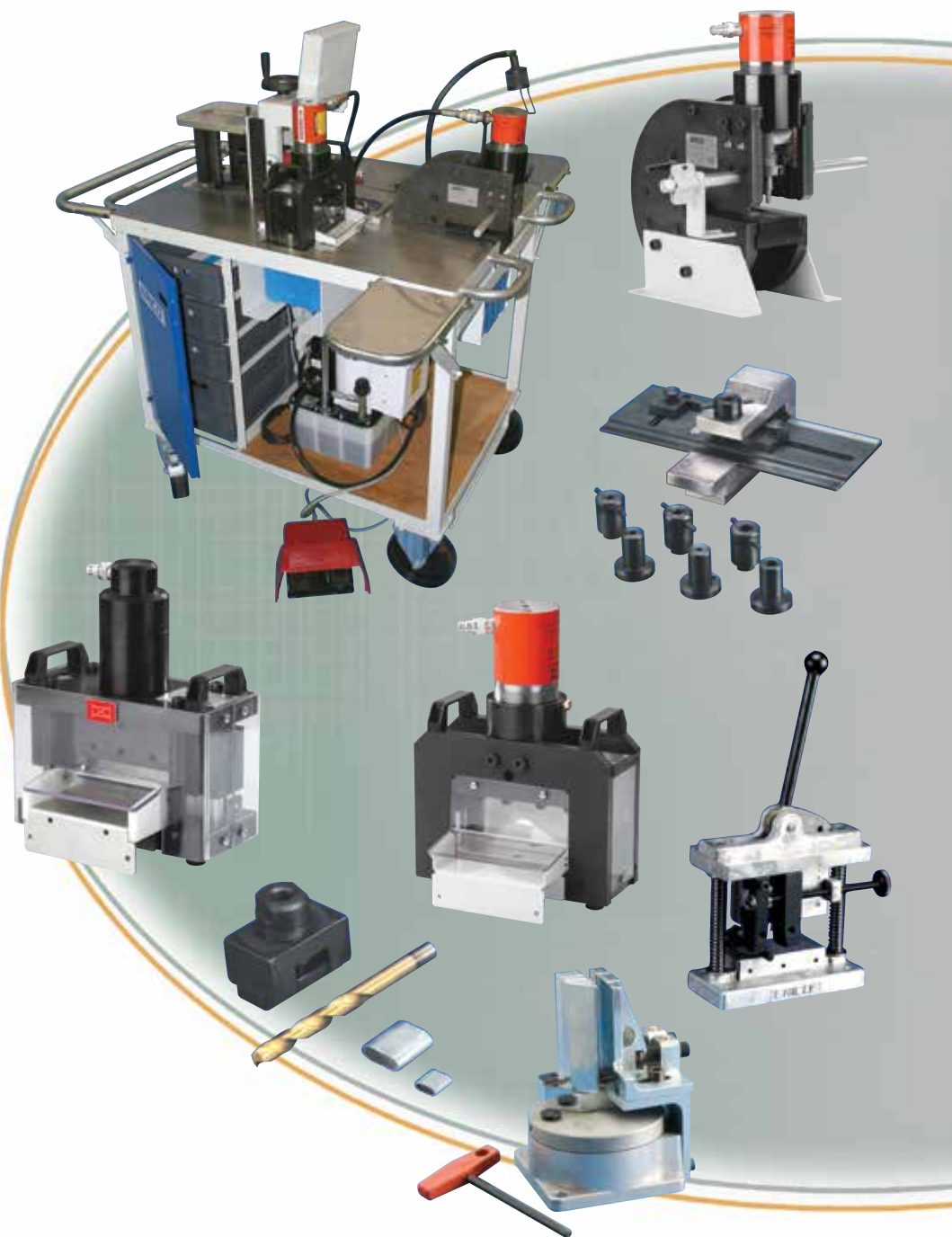


HYDRAULIC & MANUAL TOOLS



Cross-Reference

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545821	18 mm die	9
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545905	Punch Holder 18-20	9
545910	Die Holder	9
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545951	5/16" Die - 1/4" Bolt	9
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WARNING

Pentair products shall be installed and used only as indicated in Pentair's product instruction sheets and training materials. Instruction sheets are available at www.erico.pentair.com and from your Pentair customer service representative. Improper installation, misuse, misapplication or other failure to completely follow Pentair's instructions and warnings may cause product malfunction, property damage, serious bodily injury and/or death, and void your warranty.

Contents

Hydraulic Busbar & ERIFLEX FLEXIBAR Work Center

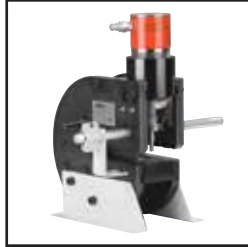
Hydraulic Busbar &
ERIFLEX FLEXIBAR Work
Center

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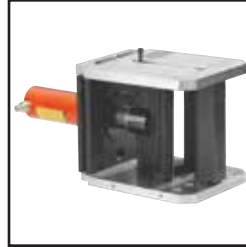
Hydraulic Busbar &
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Hydraulic Busbar Cutter

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Shearing Tool Ruler

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Hydraulic Pump &
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Hydraulic ERIFLEX
FLEXIBAR Shearing Tool

— See on Page 12



Shearing Tool Guide

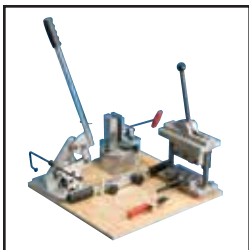
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Manual Tools

Manual Tool Workbench

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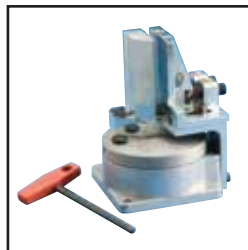
Shearing Tool

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Bending Tool

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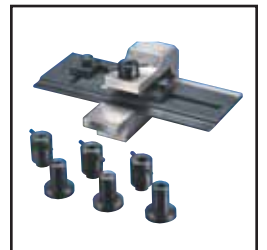
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ERIFLEX FLEXIDRILL R

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Stripping Tool

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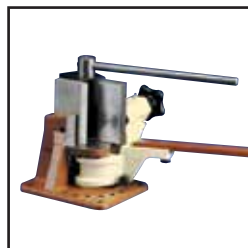
Stripping Knife

— See on Page 15



Manual Bending Tool

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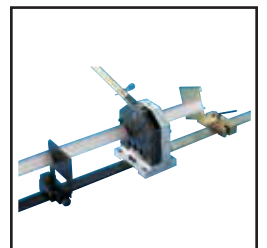
Braid & Crimp Drill Tool

— See on Page 16



Cutting and Punching
Tool For Din Profiles

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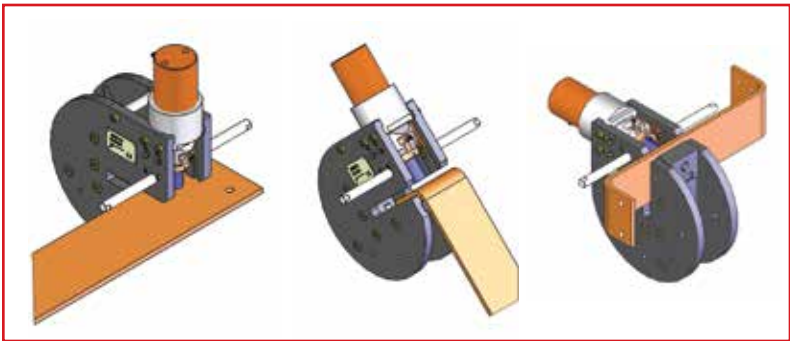
Hydraulic Busbar & ERIFLEX FLEXIBAR Work Center



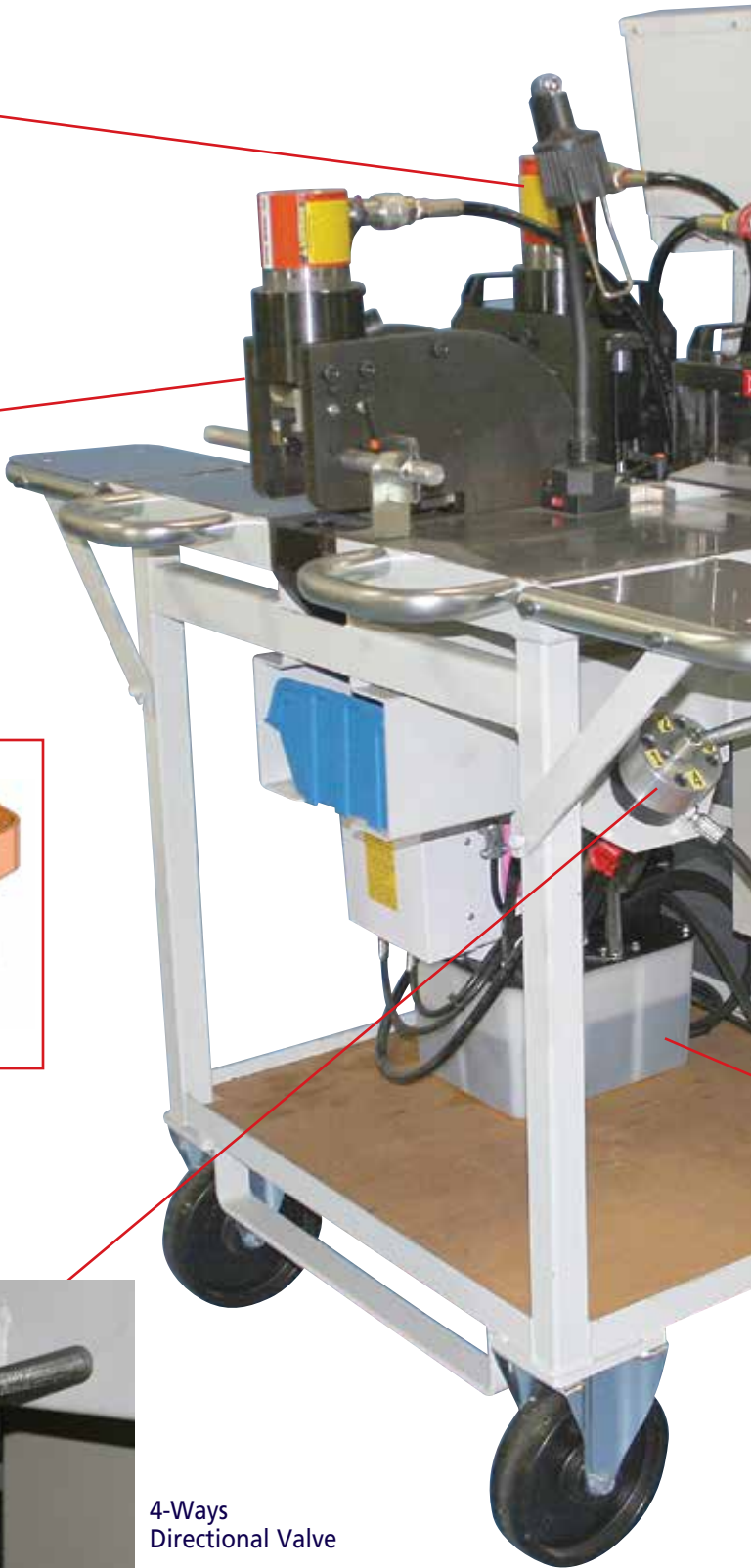
Hydraulic Busbar Cutter



Hydraulic Busbar &
ERIFLEX FLEXIBAR Puncher

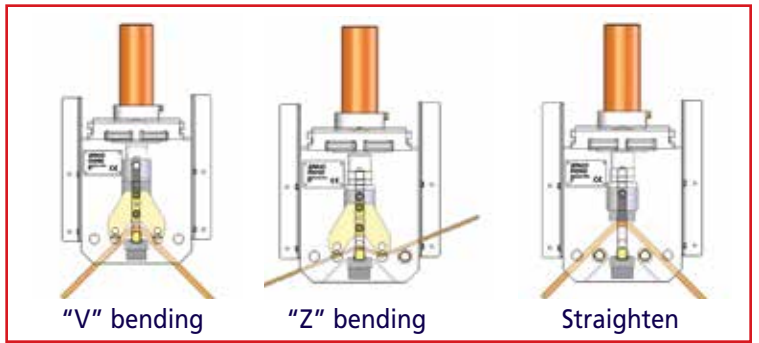


4-Ways
Directional Valve





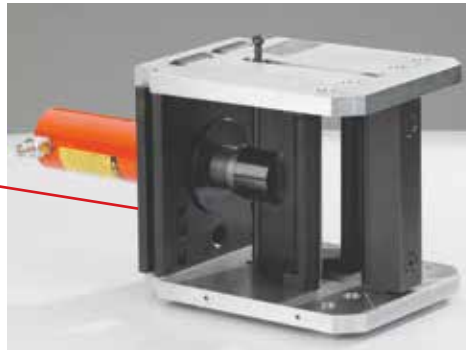
Programmable
Angle Controller



"V" bending

"Z" bending

Straighten



Hydraulic
Busbar Bender

Bender Adjustable Lift



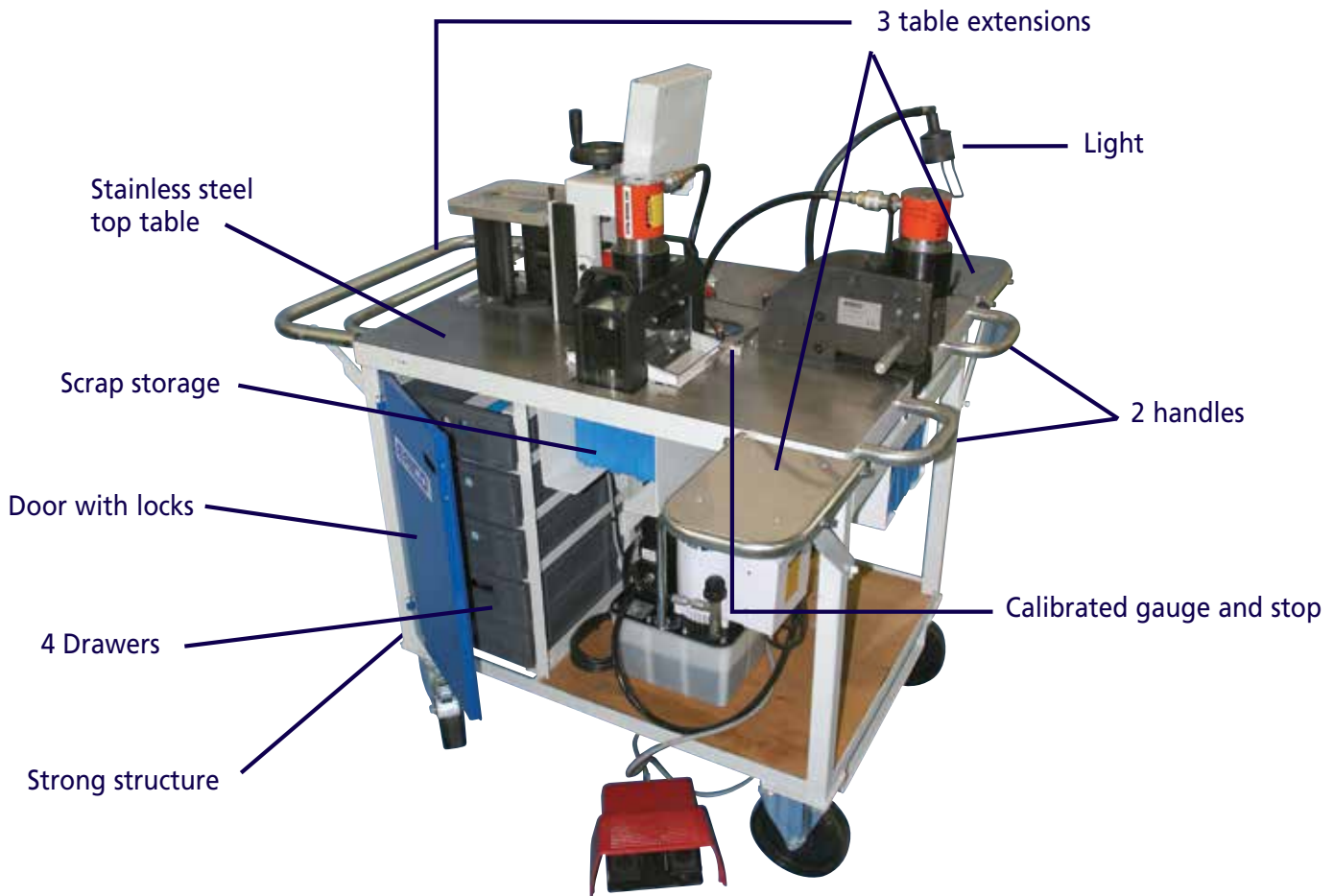
Hydraulic ERIFLEX FLEXIBAR
Shearing Tool
(Not Included in Europe Work
Center. Included in North
America Work Center.)



Hydraulic Pump
& Foot Controller

Hydraulic Busbar & ERIFLEX FLEXIBAR Work Center

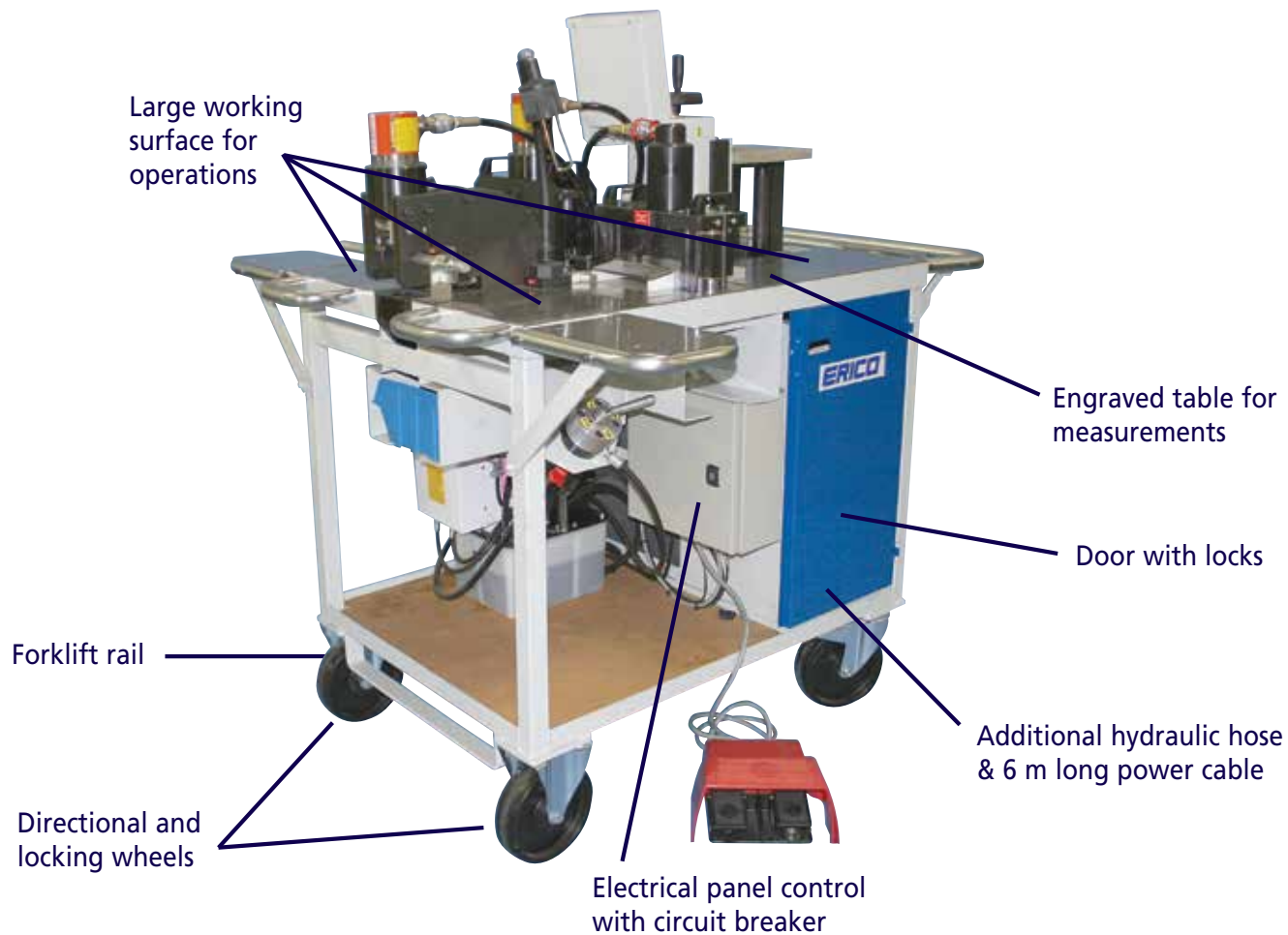
Cutting, Bending, Punching: Using a Unique Work Center.



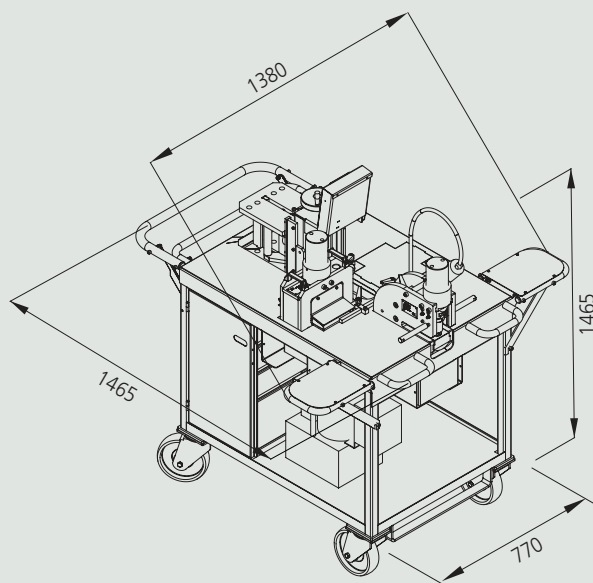
HYDRAULIC BUSBAR & ERIFLEX FLEXIBAR WORK CENTER

- Mobile workbench including all machines for Cutting, Bending and Punching Copper Busbars or ERIFLEX FLEXIBAR
- This set is composed of:
 - HYDRAULIC PUNCH FOR SOLID BAR & ERIFLEX FLEXIBAR (Punches and dies not included)
 - HYDRAULIC BUSBAR & ERIFLEX FLEXIBAR BENDER 200 x 12,7 mm (8" x 1/2") with lift to adjust the machine level
 - HYDRAULIC BUSBAR CUTTER 125 x 12,7 mm (5" x 1/2")
 - HYDRAULIC PUMP 700 bars & FOOT CONTROLLER
 - Machine selector: 4-way directional valve to select the required machine
 - 2 Ejection Stop (without punch & die set)
 - Programmable Angle Controller
 - Light
 - Protected by Circuit Breaker
 - 4 Drawers to put away accessories
 - Power cable 6 m long
- One hydraulic hose, free, to connect additional tools (ERIFLEX FLEXIBAR Shearing tool or other)

Every tool can be purchased separately - see pages 8-12



Article N°	Description		
545650	HYDRAULIC BUSBAR & ERIFLEX FLEXIBAR WORK CENTER - 230V (ERIFLEX FLEXIBAR Shearing Tool not included)	1	356 kg
545720	HYDRAULIC BUSBAR & ERIFLEX FLEXIBAR WORK CENTER - 115V (ERIFLEX FLEXIBAR Shearing Tool included)	1	857 lbs.

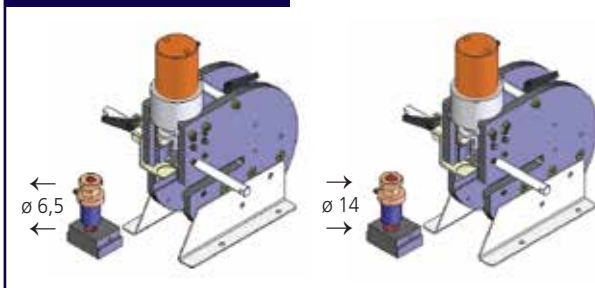


Hydraulic Busbar & ERIFLEX FLEXIBAR Puncher

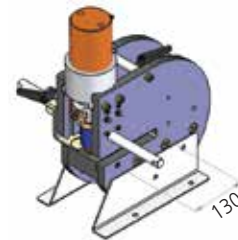


- Copper or Aluminium Busbar & ERIFLEX FLEXIBAR
- Maximum Capacity
 - Throat depth: 130 mm (5")
 - Maximum thickness of bar: 12,7 mm (1/2")
- Maximum working hydraulic pressure: 700 bars (10,000 PSI)
- Strong mechanical construction
- Quick set up punches & dies system
- Flat and clean hole edge
- Punch pip to adjust the hole position
- Calibrated side and depth gauge and stop
- Large range of punches and dies available from 6,5 to 20 mm (5/16 - 8/16") + oval
- Working position: Horizontal - 45° - 90° (when installed on the Work Center)

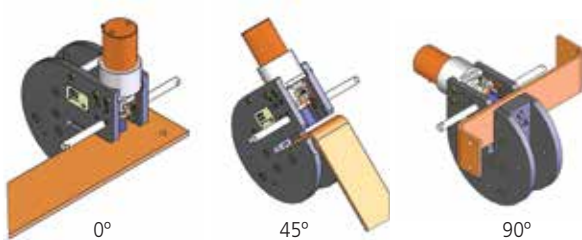
1. Quick set-up – no tool required



2. Maximum Capacity Throat depth: 130 mm



3. Three Positions

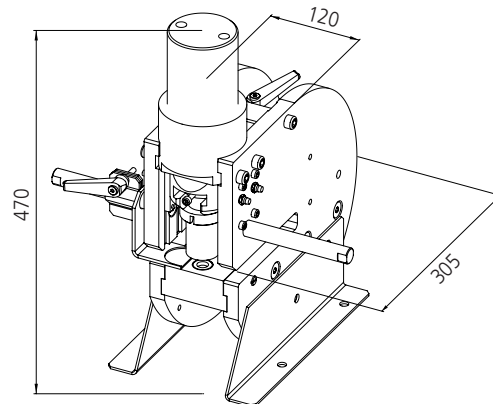


90° available on work center only. If Puncher is purchased separately, only two positions available: 0° and 45°

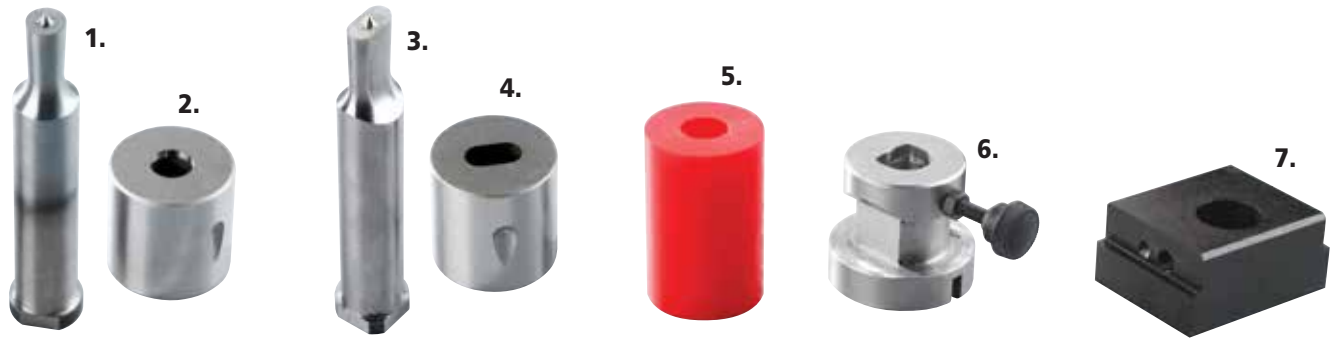
4. Round & oval holes



**UNIQUE IN THE
MARKET**



Hydraulic Busbar & ERIFLEX FLEXIBAR Puncher



Punching Machine

Article N°	Description		
545680	Puncher	1	54.00

Metric Round Holes

Article N°	Punch (fig. 1)			Article N°	Die (fig. 2)			Article N°	Ejection Stop (fig. 5)		
545800	6,5 mm	1	0.13	545801	6,5 mm	1	0.19	545890	6,5-9-11-14	1	0.08
545805	9 mm	1	0.14	545806	9 mm	1	0.18	545890	6,5-9-11-14	1	0.08
545810	11 mm	1	0.14	545811	11 mm	1	0.17	545890	6,5-9-11-14	1	0.08
545815	14 mm	1	0.16	545816	14 mm	1	0.16	545890	6,5-9-11-14	1	0.08
545820	18 mm	1	0.24	545821	18 mm	1	0.13	545892	18-20	1	0.07
545825	20 mm	1	0.25	545826	20 mm	1	0.11	545892	18-20	1	0.07

Metric Oval Holes (Punches and Dies for Imperial Oval Holes and Slots Available On Request)

Article N°	Punch (fig. 3)			Article N°	Die (fig. 4)			Article N°	Ejection Stop (fig. 5)		
545850	6,5x13 mm	1	0.14	545851	6,5x13 mm	1	0.15	545890	6,5-9-11-14	1	0.08
545855	9x18 mm	1	0.22	545856	9x18 mm	1	0.12	545892	18-20	1	0.07
545860	11x20 mm	1	0.24	545861	11x20 mm	1	0.1	545892	18-20	1	0.07
545865	14x20 mm	1	0.24	545866	14x20 mm	1	0.1	545892	18-20	1	0.07

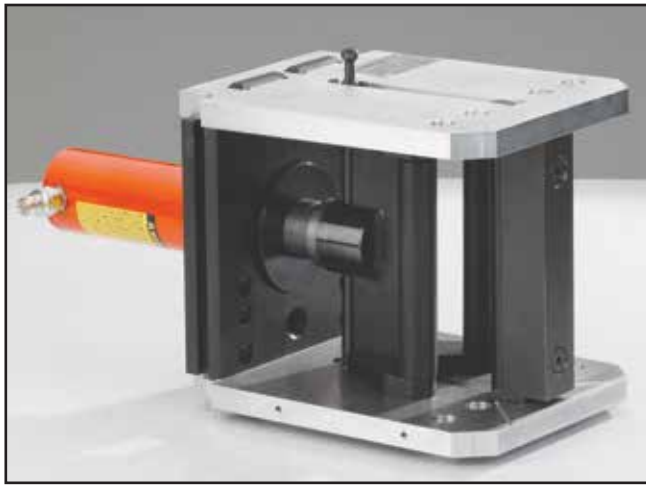
Imperial Sizes Round Holes

Article N°	Punch (fig. 1)			Article N°	Die (fig. 2)			Article N°	Ejection Stop (fig. 5)		
545950	5/16" Punch - 1/4" Bolt	1	0.13	545951	5/16" Die - 1/4" Bolt	1	0.19	545890	6,5-9-11-14	1	0.08
545955	3/8" Punch - 5/16" Bolt	1	0.14	545956	3/8" Die - 5/16" Bolt	1	0.18	545890	6,5-9-11-14	1	0.08
545960	17/32" Punch - 7/16" Bolt	1	0.16	545961	17/32" Die - 7/16" Bolt	1	0.16	545890	6,5-9-11-14	1	0.08
545965	9/16" Punch - 1/2" Bolt	1	0.16	545966	9/16" Die - 1/2" Bolt	1	0.16	545890	6,5-9-11-14	1	0.08

Spare Parts

Article N°	Description		
545900	Punch Holder 6,5-9-11-14 (fig. 6)	1	0.55
545905	Punch Holder 18-20 (fig. 6)	1	0.48
545910	Die Holder (fig. 7)	1	1.60

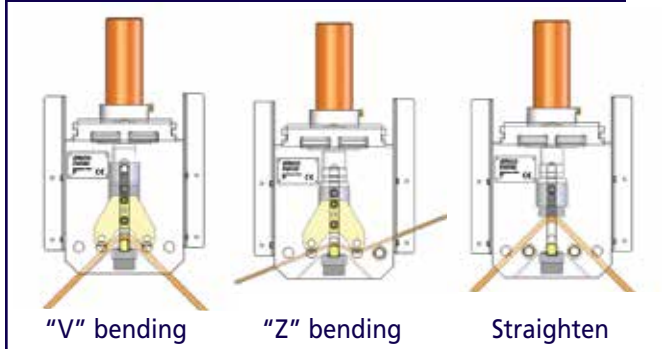
Hydraulic Busbar & ERIFLEX FLEXIBAR Bender



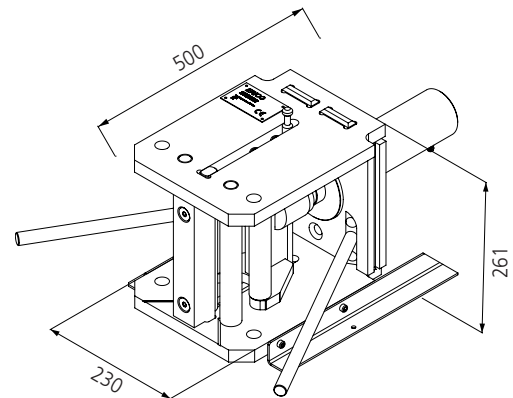
- Copper or Aluminium & ERIFLEX FLEXIBAR
- Maximum Capacity
Copper cross section 2000 mm²
- Maximum bar width: 200 mm (8")
- Maximum bar thickness: 12,7 mm (1/2")
- Bending radius: 12,5 mm / 1/2"
- Adjustable angle up to 100°
- Bending accessories for copper or aluminium busbar & ERIFLEX FLEXIBAR

UNIQUE IN THE MARKET

1. One Machine / Three Functions: Quick Set-up

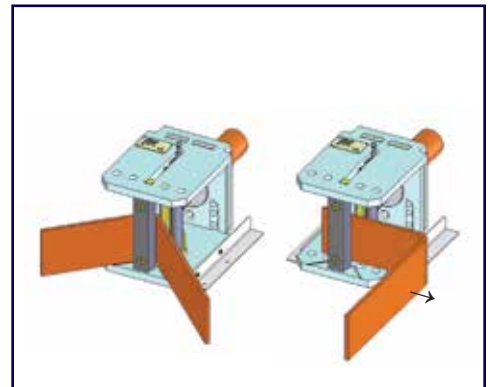
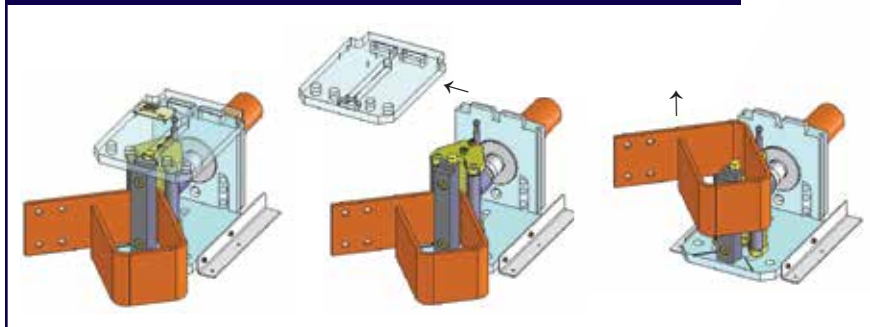


Article N°	Description		
545670	Busbar bender	1	51

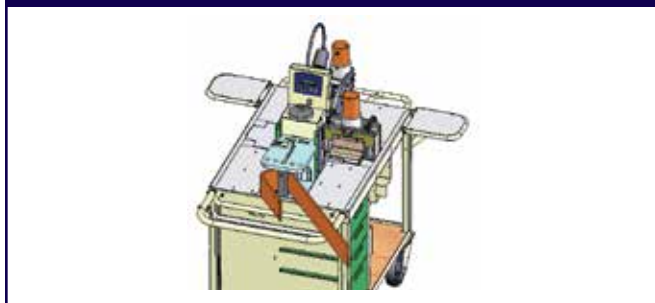


2. Large capacity: 2000 mm² / 200 x 10 mm (8" x 3/8")

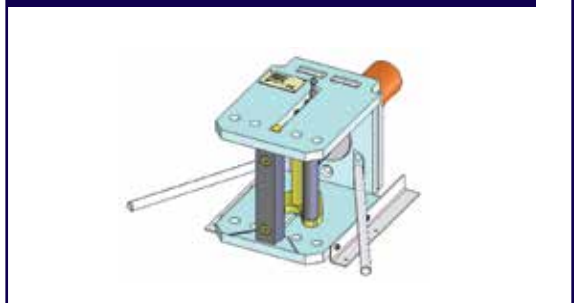
3. Easy access allowing numerous bending possibilities



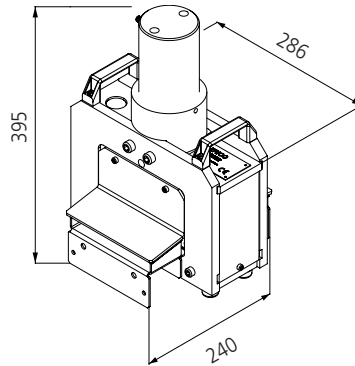
4. Large working surface for bending operation



5. Bar Support (out of the work center)



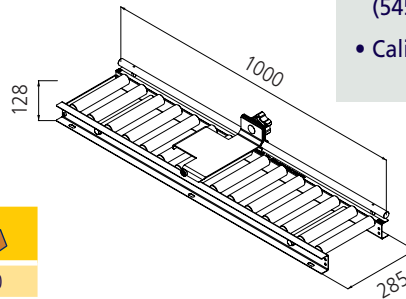
Hydraulic Busbar Cutter



- Copper or Aluminium Busbar
- Maximum Capacity
- Maximum bar width: 125 mm (5")
- Maximum bar thickness: 12,7 mm (1/2")
- Blade 7 mm thick
- Strong mechanical construction: Guiding system 2 columns
- Flat and clean cut edge
- Visual inspection of cutting position
- Transparent finger protection
- Easy access for blade maintenance

Article N°	Description		
545690	Hydraulic Busbar Cutter	1	41
545695	Hydraulic Busbar Cutter Blade	1	1

ERIFLEX Tool Ruler



- In combination with hydraulic busbar cutter (545690) to support the solid bar
- Calibrated end stop (1 m)



Article N°	Description		
558990	Tool ruler HFST-R	1	10

Hydraulic Pump & Foot Controller



HYDRAULIC PUMP

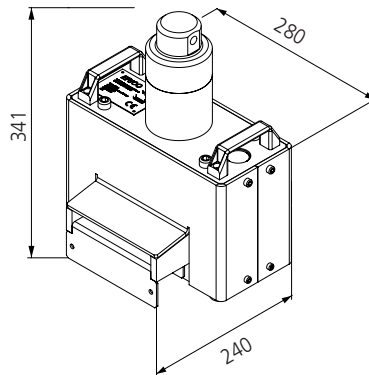
- One hose attached with quick release coupler
- Oil type (545706)
- Tank capacity from 1.9 up to 3.8 liter
- Oil flow 0,2 L per minute

FOOT CONTROLLER

- 2 Pedals control
- 3 positions foot controller operation : off, on, safety off

Article N°	Description		
545700	Electro Hydraulic Pump 230 V + Foot Controller	1	40
545701	Electro Hydraulic Pump 115 V + Foot Controller	1	40
545706	Hydraulic oil 0,946 liter	1	1

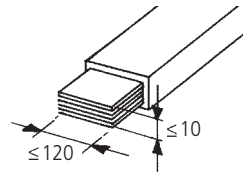
Hydraulic ERIFLEX FLEXIBAR Shearing Tool



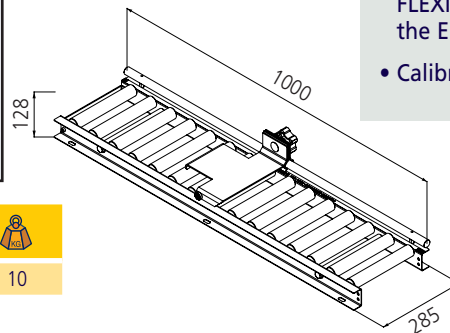
- Copper or Aluminium
- Strong mechanical construction
- Cuts quickly and accurately without burrs or deformation
- Visual inspection of cutting position
- Maximum Capacity
Copper cross section 1200 mm²
- Width of bar: 120 mm (4-3/4")
- Thickness of bar: 12 mm (1/2")
- ERIFLEX FLEXIBAR 10 x 120 x 1 MAXIMUM

WARNING: Cutting solid bars will damage the tool

Article N°	Description		
559010	Hydraulic shearing tool HFST	1	34
559040	Tool blades HFST-C	1	1

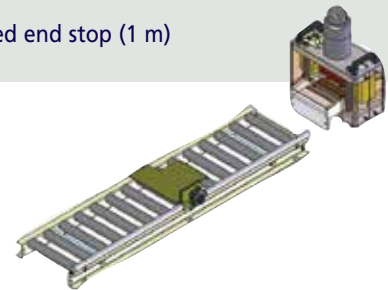


ERIFLEX FLEXIBAR Shearing Tool Ruler

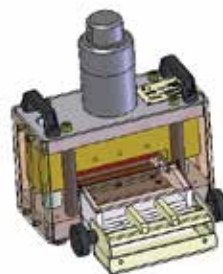


- In combination with hydraulic ERIFLEX FLEXIBAR Shearing Tool (559010) to support the ERIFLEX FLEXIBAR
- Calibrated end stop (1 m)

Article N°	Description		
558990	Tool Ruler HFST-R	1	10

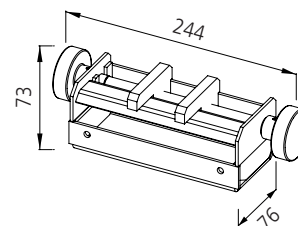


ERIFLEX FLEXIBAR Shearing Tool Guide



- Adjust the ERIFLEX FLEXIBAR position in the tool Quick Set Up - NO TOOL REQUIRED
- Increase the blade life expectancy

Article N°	Description		
559020	Tool Guide HFST-B	1	1



ERIFLEX FLEXIBAR Manual Tools

A complete range of useful hand tools for ERIFLEX FLEXIBAR, Braids and Din profiles

Cutting, bending, drilling, twisting: Pentair offers a complete manual tool range.



Twisting Tool



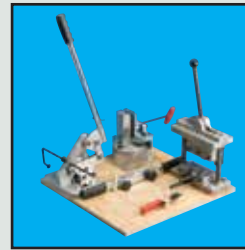
Stripping Tool



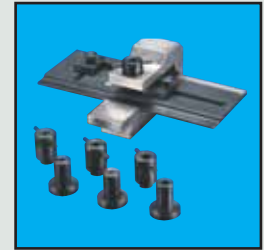
Shearing Tool



Bending Tool



ERIFLEX FLEXIBAR Workbench

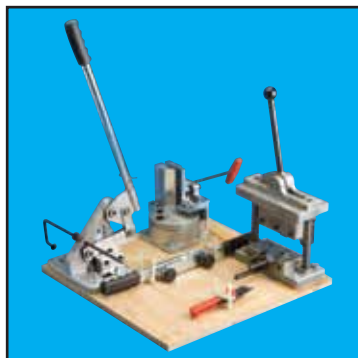


ERIFLEX FLEXIDRILL R

Every tool can be purchased separately
- see pages 13-15

ERIFLEX FLEXIBAR Workbench

A complete set of useful hand tools for ERIFLEX FLEXIBAR.



Over all dimensions:
L 500 x W 500 x H 290 mm

Article N°	Description		
558900	Workbench - FT Kit	1	35

A - Cutting tool

- Specifically designed for cutting ERIFLEX FLEXIBAR up to 5x32

B - Stripping tool

- Cut all 4 sides of insulation in one operation without marking the copper. ERIFLEX FLEXIBAR capacity from 6 to 63 mm

C - Bending tool

- Simple hand operated bending tool. Does not damage insulation.

D - Twisting tool

- Used in conjunction with bending tool. This simple tool facilitates plane change

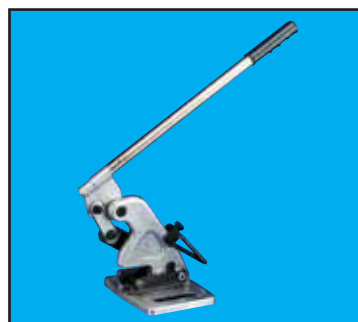
E - A Cutter

- Stripping knife with interchangeable blades

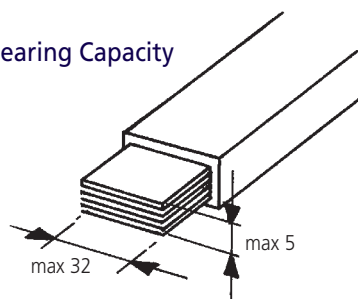
Instruction

- Clear instruction sheet for the use of the tools.

Shearing Tool



Shearing Capacity



- Cuts quickly and accurately without burrs or deformation
- Cuts with the insulation on – without any damage
- Graduated endstop
- Cost-effective
- Spare blade MFCB

Article N°	Description		
559170	Shearing Tool	1	3.5
559120	Set of blades for MFC	1	0.5

ERIFLEX FLEXIBAR 5 x 32 x 1 maximum

Warning: Cutting solid bars will damage the tool

Over all dimensions:
L 170 x I 200 x H 270 mm

Bending Tool

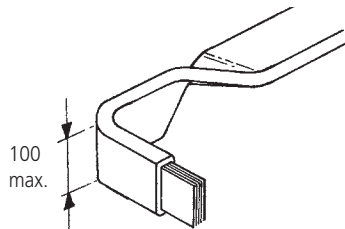


Over all dimensions:
L 170 x l 150 x H 220 mm

- Bends quickly without insulation damage
- Manual saw guide included
- Adjustable angle up to 120°
- Bending radius: 5 mm
- Maximum capacity: ERIFLEX FLEXIBAR 10 x 100 x 1

Article N°	Description		
559150	Bending Tool - MFB	1	7

Twisting Tool

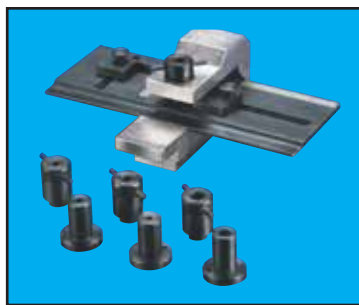


Over all dimensions:
L 560 x l 150 x H 70 mm

- Unlimited possibilities of twisting or changing plane. To be used with the bending tool

Article N°	Description		
559160	Twisting Tool - MFT	1	2.5

ERIFLEX FLEXIDRILL R Drill Guide

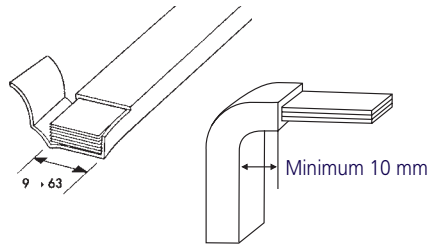
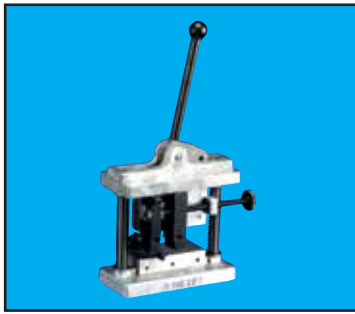


Over all dimensions:
L 250 x l 300 x H 150 mm

- Multi-diameter, multi-distance between centers.
- This guide facilitates the drilling of one or more holes of various diameters at different distances between centers .
- Drill guide inserts:
 - 6,5 mm / 8,5 mm / 10,5 mm / 12,5 mm (558600)
 - 5/16" Die Set - 1/4" Bolt,
 - 3/8" Die Set - 5/16" Bolt,
 - 17/32" Die Set - 7/16" Bolt,
 - 9/16" Die Set - 1/2" Bolt (558601)

Article N°	Description		
558600	ERIFLEX FLEXIDRILL	1	9.5
558601	ERIFLEX FLEXIDRILL Imperial	1	9.5

Stripping Tool



Over all dimensions:
L 220 x W 100 x H 250 mm

- Quick & simple stripping of ERIFLEX FLEXIBAR from 9 up to 63 mm
- Cuts all of 4 faces of the insulation in a single operation without damaging the copper.
- Allows stripping on short length
- Aluminium cast body, four holes for fixing

Article N°	Description		
559100	Stripping Tool - MFS	1	8
559110	Set of blades for MFS	1	1

Stripping Knife



- Accurately cuts the ERIFLEX FLEXIBAR insulation
- Special sharpening to avoid damaging the conductors
- Very resistant blade, interchangeable
- Blade protection
- Ergonomic shockproof resin handle

Article N°	Description		
559050	Stripping knife - SOK	1	0.062
559060	Spare blade for SOK	1	0.020

Manual Bending Tool

For Solid Copper Bars



Over all dimensions:
L 300 x l 300 x H 260 mm

- Angle of bend up to 120°
- Capacity:
 - Copper, maximum size 100 x 8 mm
 - Internal bending radius 10 mm

Article N°	Description		
559190	Manual Bending Tool - MCBB	1	14

Braid & Crimp Drill Tool

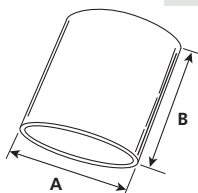


BD - Crimp & Braid Drill Tool

- Comprising of a guide and adapted drill bit.
- For crimping and drilling of braid terminals.

PB Lugs for Flat Braids

- Tinned annealed copper



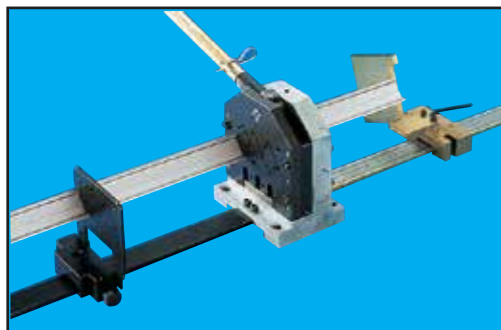
BD

Article N°	Description	Bolts		
558610	BD 16 - 6,5	M6	1	0.653
558640	BD 16 - 8,5	M8	1	0.653
558620	BD 25 - 11	M10	1	0.678
558630	BD 50 - 12,5	M12	1	0.712

PB

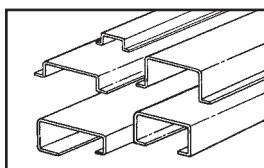
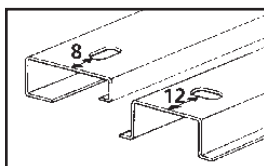
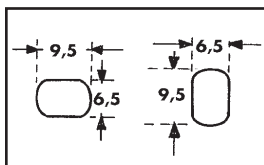
Article N°	Description	For Flat Braid	A X B		
557180	PB 16	FTCB or FRCB 15-16	16 x 15	100	0.004
557190	PB 25	FTCB or FRCB 15-25	22 x 25	100	0.010
557380	PB50	FTCB or FRCB 15-50	30 x 30	100	0.017

Cutting & Punching Tool for Din Profiles



Over all dimensions:
L 165 x W 100 x H 200 mm
Lever: 630 mm

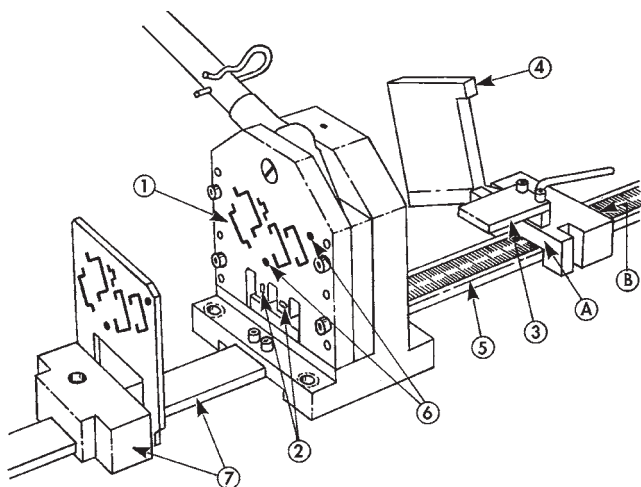
A: Punching Mark
B: Cutting Mark



- Cutting tool for 5 DIN sections cuts without burrs or deformation, allows punching of elongated holes. Supplied with rule and stop.

- 1) The ERIFLEX manual cutting & punching tool works with the 5 most popular DIN rails
- 2) The ERIFLEX tool will punch 9.5 mm x 6.5 mm holes along or perpendicular to the axis of the rails
- 3) The stops can be preset to allow direct punching of the oblong holes: horizontal at 8 mm from the end or vertical at 12 mm from the end
- 4) The hinged cutting stop allows a series to be interrupted without re-setting the stops
- 5) Length of graduated rule: 1000 mm
- 6) The tool also has the facility to cut M6 threaded rod
- 7) Guide designed to assist in cutting DIN sections

Article N°	Description		
559140	DRCK	1	18



Manual Tools - Instruction for Use

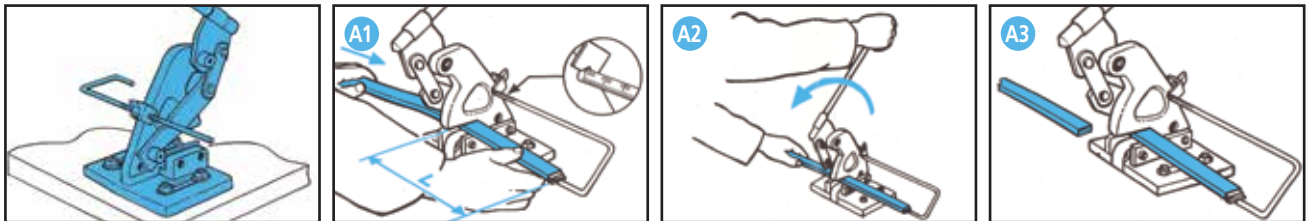
ERIFLEX FLEXIBAR TOOLING KIT



The set of hand tools, shown on page 13, is designed to simplify the most common tasks associated with installation of ERIFLEX FLEXIBAR: Cutting, Stripping, Bending, and Twisting. During these tasks it is necessary to prevent any chock on the insulation, especially when using ERIFLEX FLEXIBAR SUMMUM.

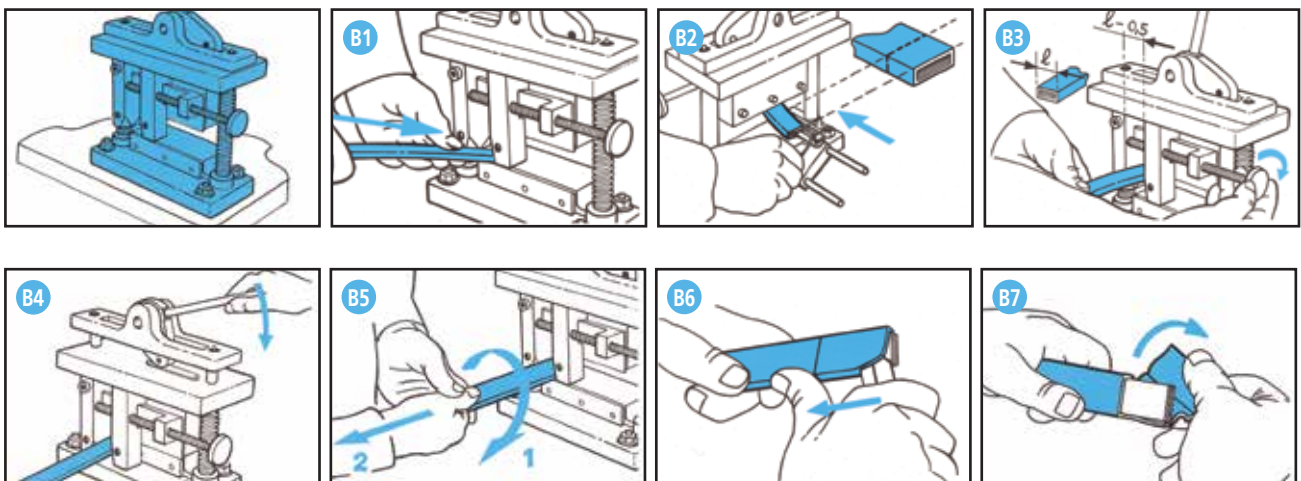
A. CUTTING TO LENGTH

Clean and remove burrs. Start with the developed length plus approximately 10 mm to allow for the sliding of the laminates during bending. (see cutter Part No. 559170)



B. STRIPPING

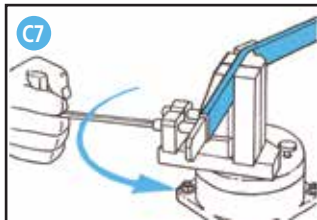
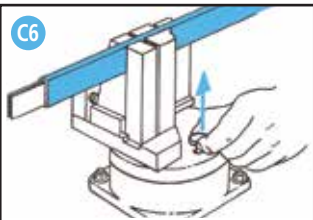
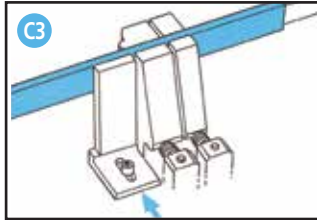
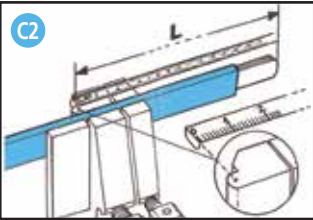
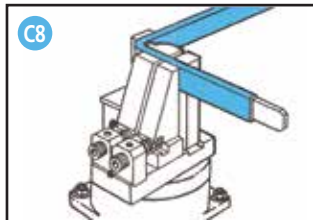
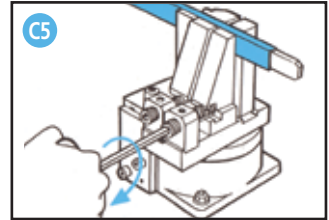
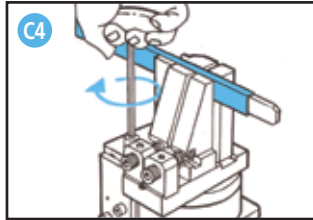
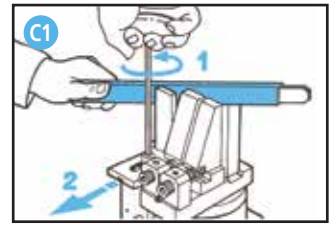
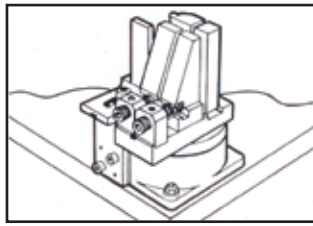
Accurate, without marking the copper. The connecting area can be kept as short as possible to reduce non-insulated parts in the panel (see stripper Article No. 559100 and knife SOK Article No. 559050)



Manual Tools - Instruction for Use

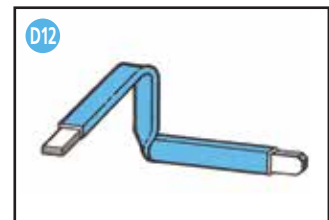
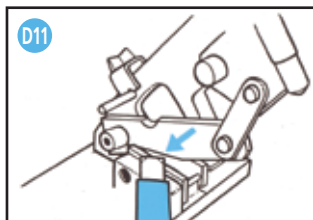
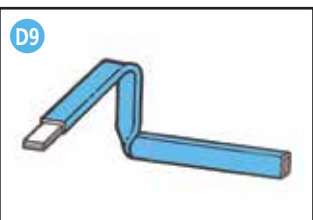
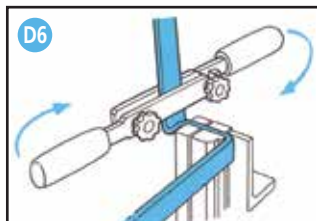
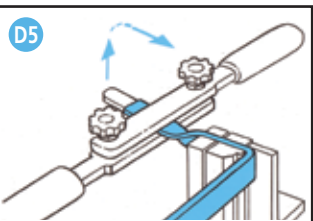
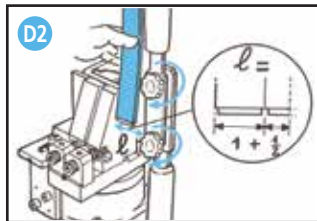
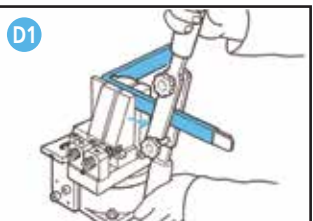
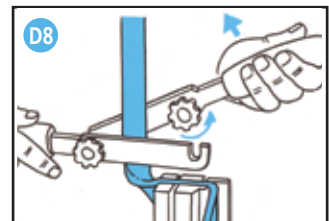
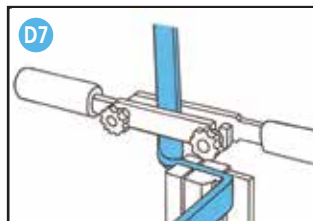
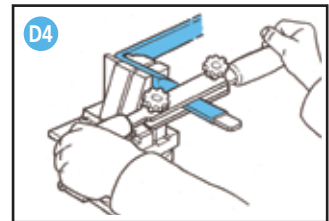
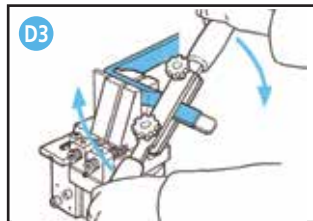
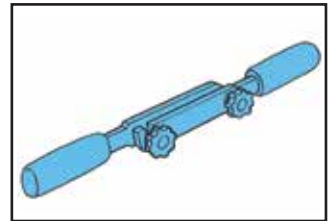
C. BENDING

Quick and easy with no risk of damaging the insulation. Achieve clean neat bends which can be reproduced time after time. (See bending tool Article No. 559150)



D. TWISTING - CHANGING PLANE

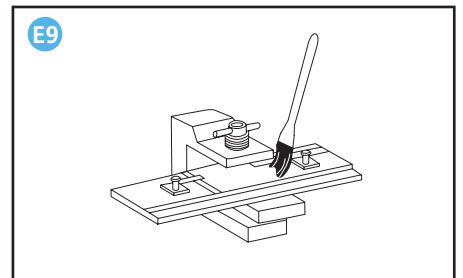
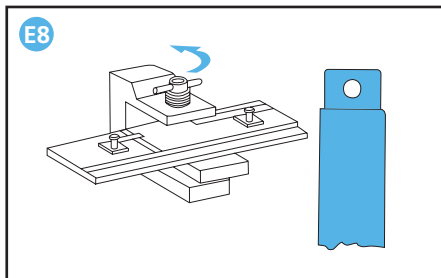
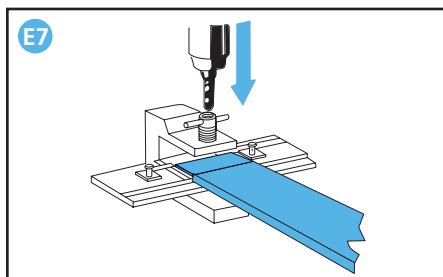
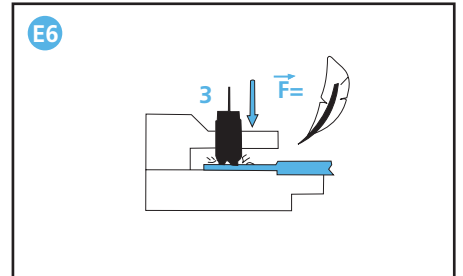
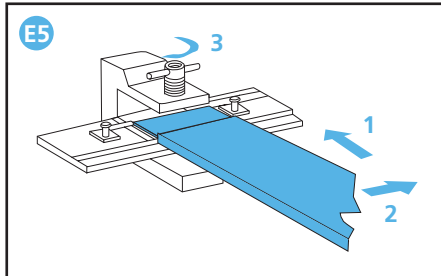
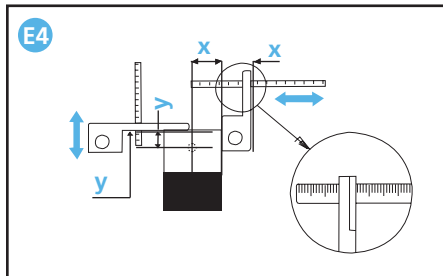
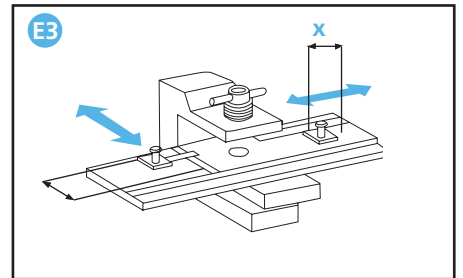
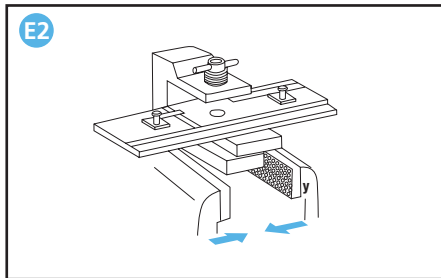
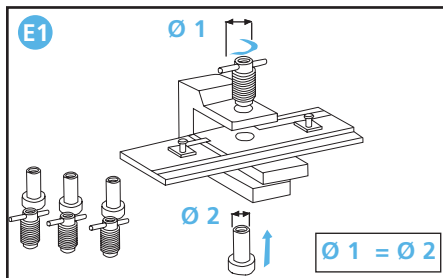
Changing plane is possible and easy due to the very high flexibility of ERIFLEX FLEXIBAR which allows the laminates to move within the insulated sleeve. (See twisting tool Article No. 559160) After forming, the ends should be trimmed with the cutter. This tool must not be used with ERIFLEX FLEXIBAR SUMMUM.



Manual Tools - Instruction for Use

E. DRILLING

ERIFLEX FLEXIBAR SUMMUM must only be punched. The drilling or punching of ERIFLEX FLEXIBAR must be carried out with great care. It is important that on withdrawal of the drill or punch, the laminations remain tightly clamped to prevent deformation of the contact surface. ERIFLEX FLEXIDRILL "R" (complete multi Ø, multi center).

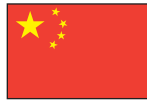




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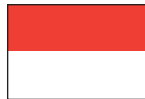
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