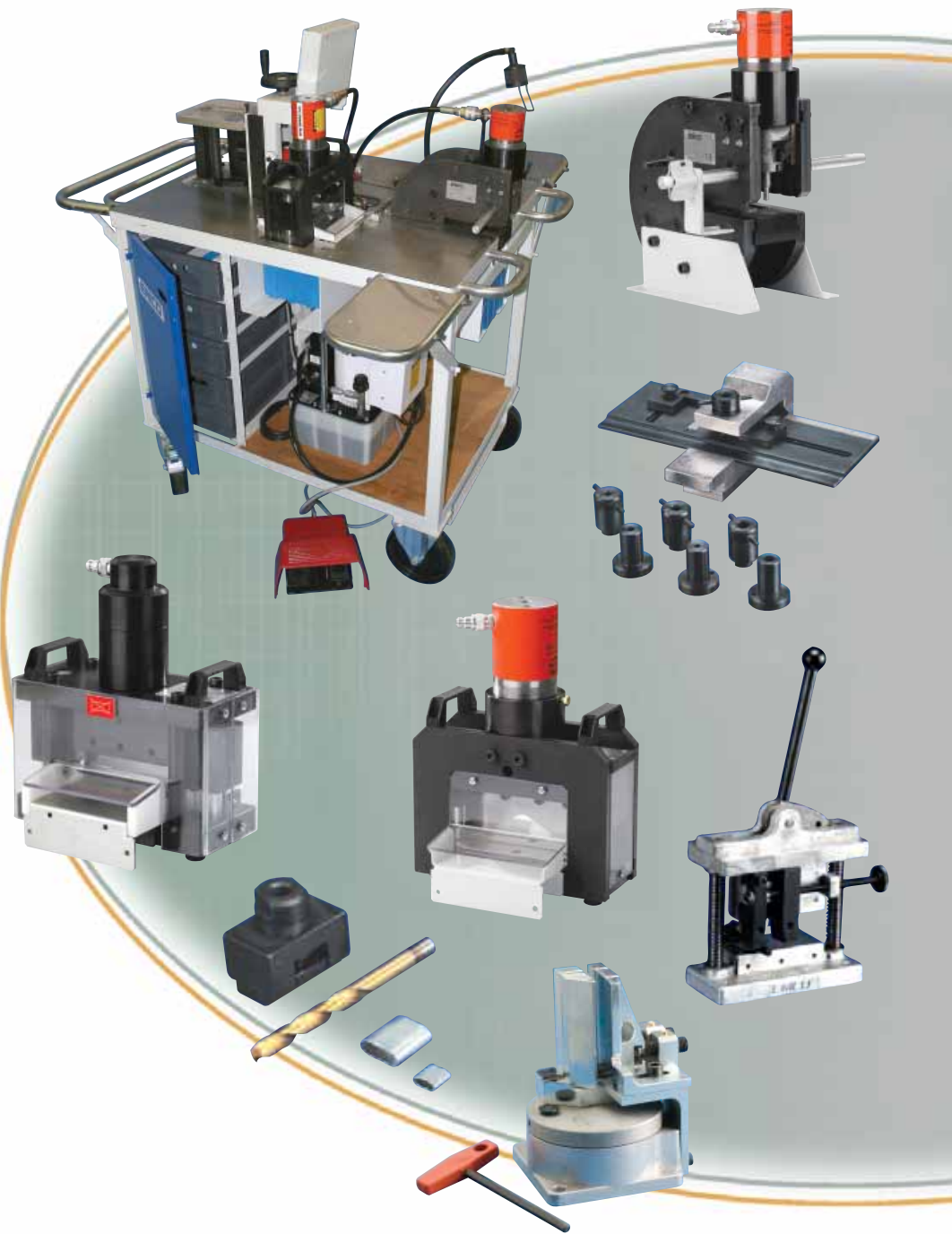


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ERICO®

Cross-Reference

Art. No.	Description	Page
545650	HYDRAULIC BUSBAR & ERIFLEX® FLEXIBAR WORK CENTER - 220V	7
545670	Busbar bender	10
545680	Puncher	9
545690	Hydraulic Busbar Cutter	11
545695	Hydraulic Busbar Cutter Blade	11
545700	Electro Hydraulic Pump 230 V + Foot Controller	11
545701	Electro Hydraulic Pump 115 V + Foot Controller	11
545706	Hydraulic oil 0,946 liter	11
545720	HYDRAULIC BUSBAR & ERIFLEX® FLEXIBAR WORK CENTER - 115V	7
545800	6,5 mm punch	9
545801	6,5 mm die	9
545805	9 mm punch	9
545806	9 mm die	9
545810	11 mm punch	9
545811	11 mm die	9
545815	14 mm punch	9
545816	14 mm die	9
545820	18 mm punch	9
545821	18 mm die	9
545825	20 mm punch	9
545826	20 mm die	9
545850	6,5x13 mm punch	9
545851	6,5x13 mm die	9
545855	9x18 mm punch	9
545856	9x18 mm die	9

Art. No.	Description	Page
545860	11x20 mm punch	9
545861	11x20 mm die	9
545865	14x20 mm punch	9
545866	14x20 mm die	9
545890	6,5-9-11-14 ejection stop	9
545892	18-20 ejection stop	9
545900	Punch Holder 6,5-9-11-14	9
545905	Punch Holder 18-20	9
545910	Die Holder	9
545950	5/16" Punch - 1/4" Bolt	9
545951	5/16" Die - 1/4" Bolt	9
545955	3/8" Punch - 5/16" Bolt	9
545956	3/8" Die - 5/16" Bolt	9
545960	17/32" Punch - 7/16" Bolt	9
545961	17/32" Die - 7/16" Bolt	9
545965	9/16" Punch - 1/2" Bolt	9
545966	9/16" Die - 1/2" Bolt	9
557180	PB 16	16
557190	PB 25	16
557380	PB50	16
558600	ERIFLEX® FLEXIDRILL	14
558601	ERIFLEX FLEXIDRILL Imperial	14
558610	BD 16 - 6,5	16
558620	BD 25 - 11	16
558630	BD 50 - 12,5	16
558640	BD 16 - 8,5	16
558900	Workbench - FT Kit	13

Art. No.	Description	Page
558990	Tool ruler HFST-B	11,12
559010	Hydraulic shearing tool HFST	12
559020	Tool Guide HFST-B	12
559040	Tool blades HFST-C	12
559050	Stripping knife - SOK	15
559060	Spare blade for SOK	15
559100	Stripping Tool - MFS	15
559110	Set of blades for MFS	15
559120	Set of blades for MFC	13
559140	DRCK	16
559150	Bending Tool - MFB	14
559160	Twisting Tool - MFT	14
559170	Shearing Tool	13
559190	Manual Bending Tool - MCBB	15

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Contents

Hydraulic Busbar & ERIFLEX® FLEXIBAR Work Center

Hydraulic Busbar &
ERIFLEX® FLEXIBAR
Work Center

— See on Page 4-7



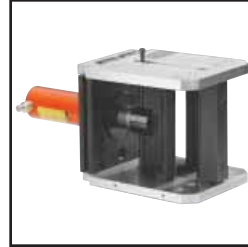
Hydraulic Busbar &
ERIFLEX® FLEXIBAR
Puncher

— See on Page 8-9



Hydraulic Busbar
Bender

— See on Page 10



Hydraulic Busbar Cutter

— See on Page 11



Shearing Tool Ruler

— See on Page 11, 12



Hydraulic Pump &
Foot Controller

— See on Page 11



Hydraulic ERIFLEX®
FLEXIBAR Shearing Tool

— See on Page 12



Shearing Tool Guide

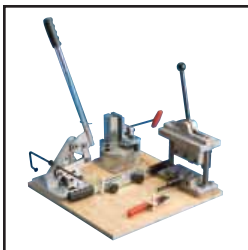
— See on Page 12



Manual Tools

Manual Tool Workbench

— See on Page 13



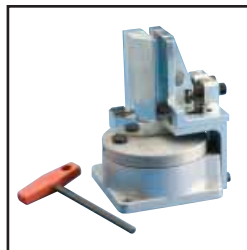
Shearing Tool

— See on Page 13



Bending Tool

— See on Page 14



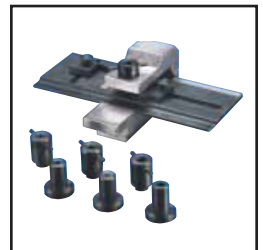
Twisting Tool

— See on Page 14



ERIFLEX® FLEXIDRILL R

— See on Page 14



Stripping Tool

— See on Page 15



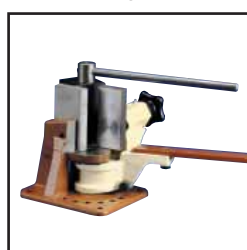
Stripping Knife

— See on Page 15



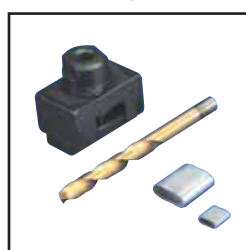
Manual Bending Tool

— See on Page 15



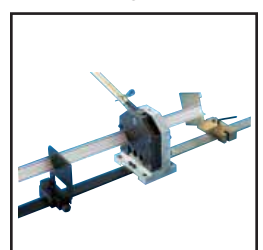
Braid & Crimp Drill Tool

— See on Page 16



Cutting and Punching
Tool For Din Profiles

— See on Page 16



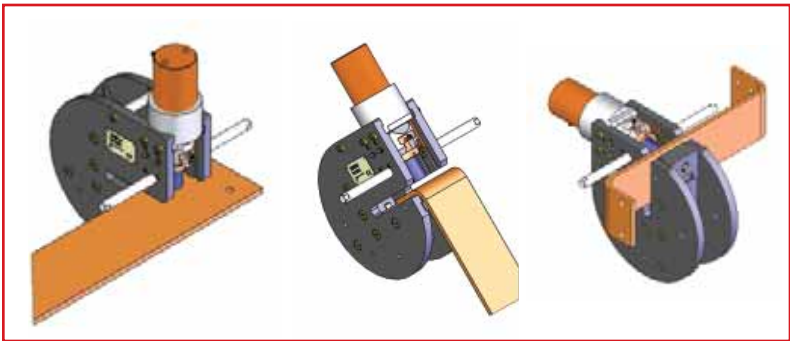
Hydraulic Busbar & ERIFLEX® FLEXIBAR Work Center



Hydraulic Busbar Cutter



Hydraulic Busbar &
ERIFLEX® FLEXIBAR Puncher

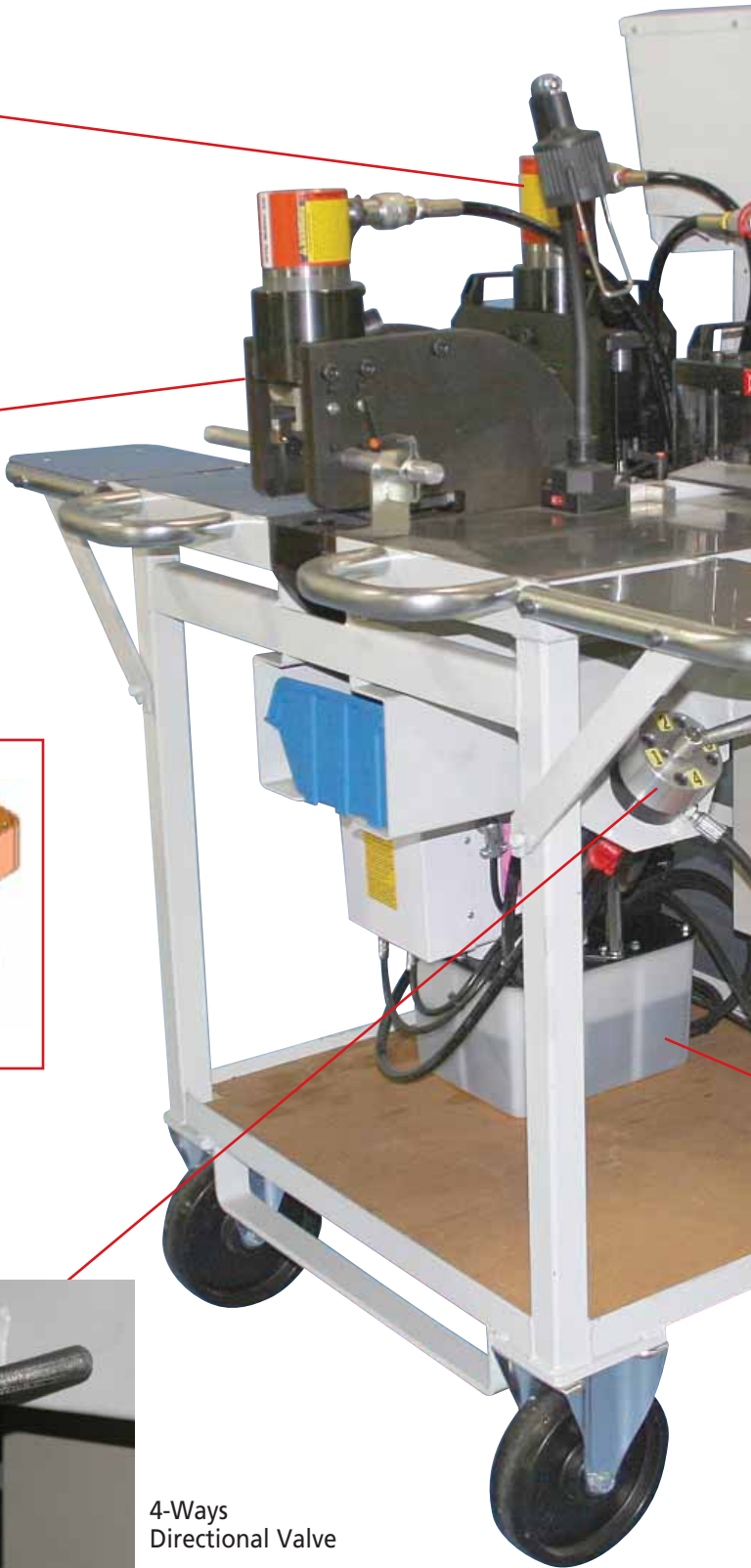


**ERICO®
DESIGN**

**MADE IN
FRANCE**

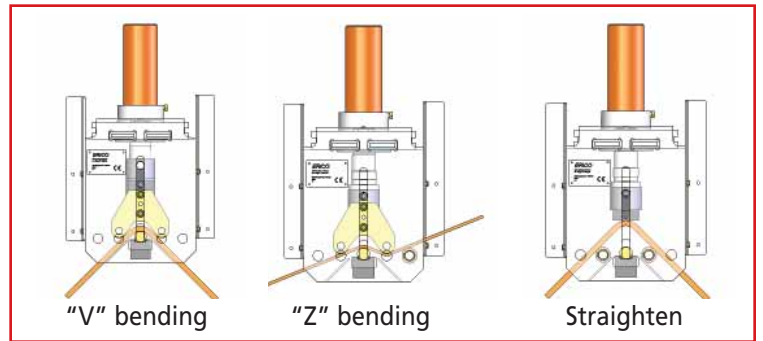


4-Ways
Directional Valve





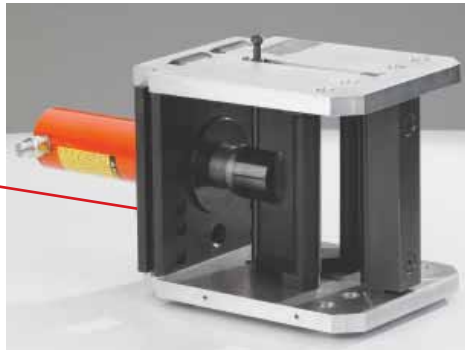
Programmable
Angle Controller



"V" bending

"Z" bending

Straighten



Hydraulic
Busbar Bender

Bender Adjustable Lift



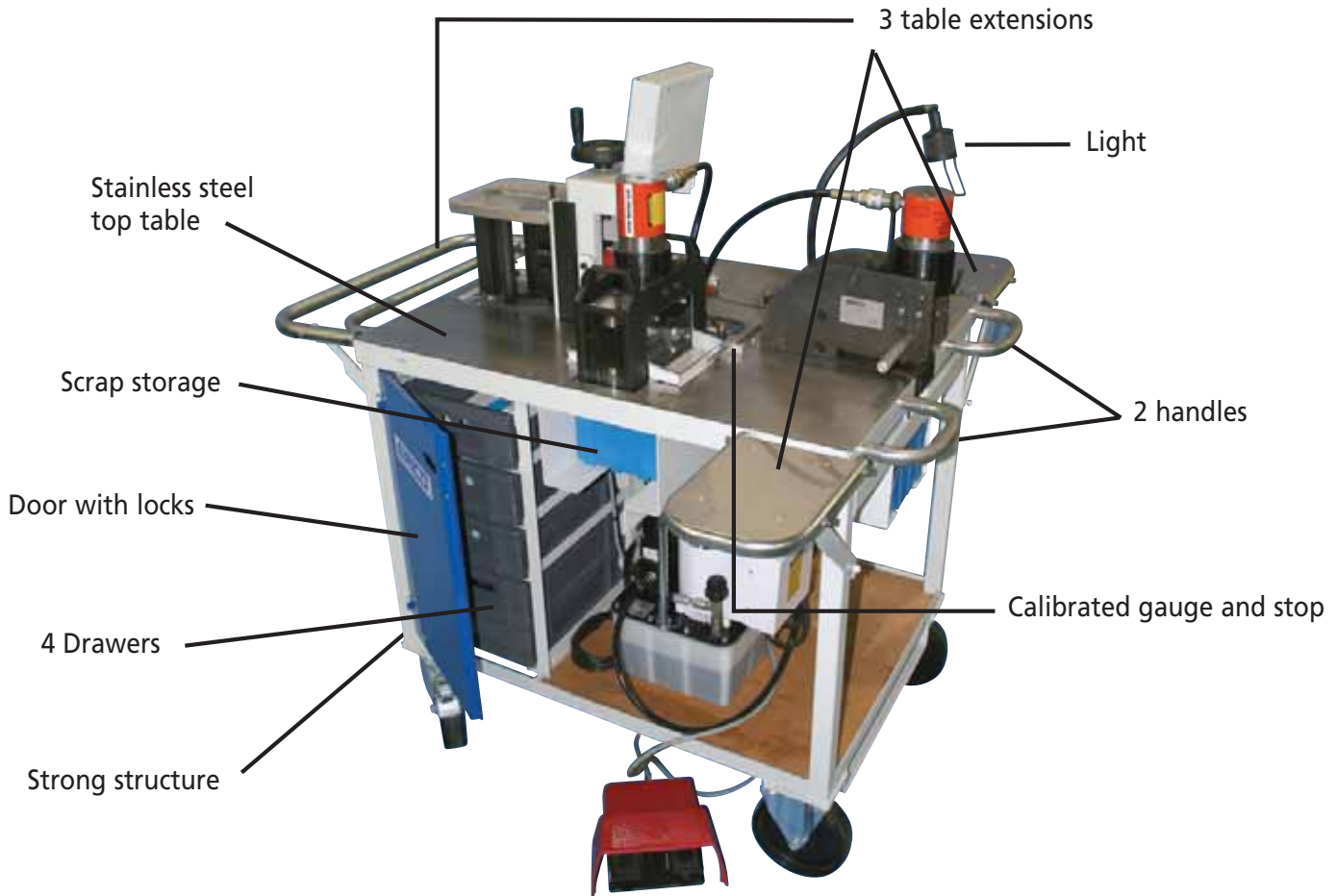
Hydraulic ERIFLEX® FLEXIBAR
Shearing Tool
(Not Included in Europe Work
Center. Included in North
America Work Center.)



Hydraulic Pump
& Foot Controller

Hydraulic Busbar & ERIFLEX® FLEXIBAR Work Center

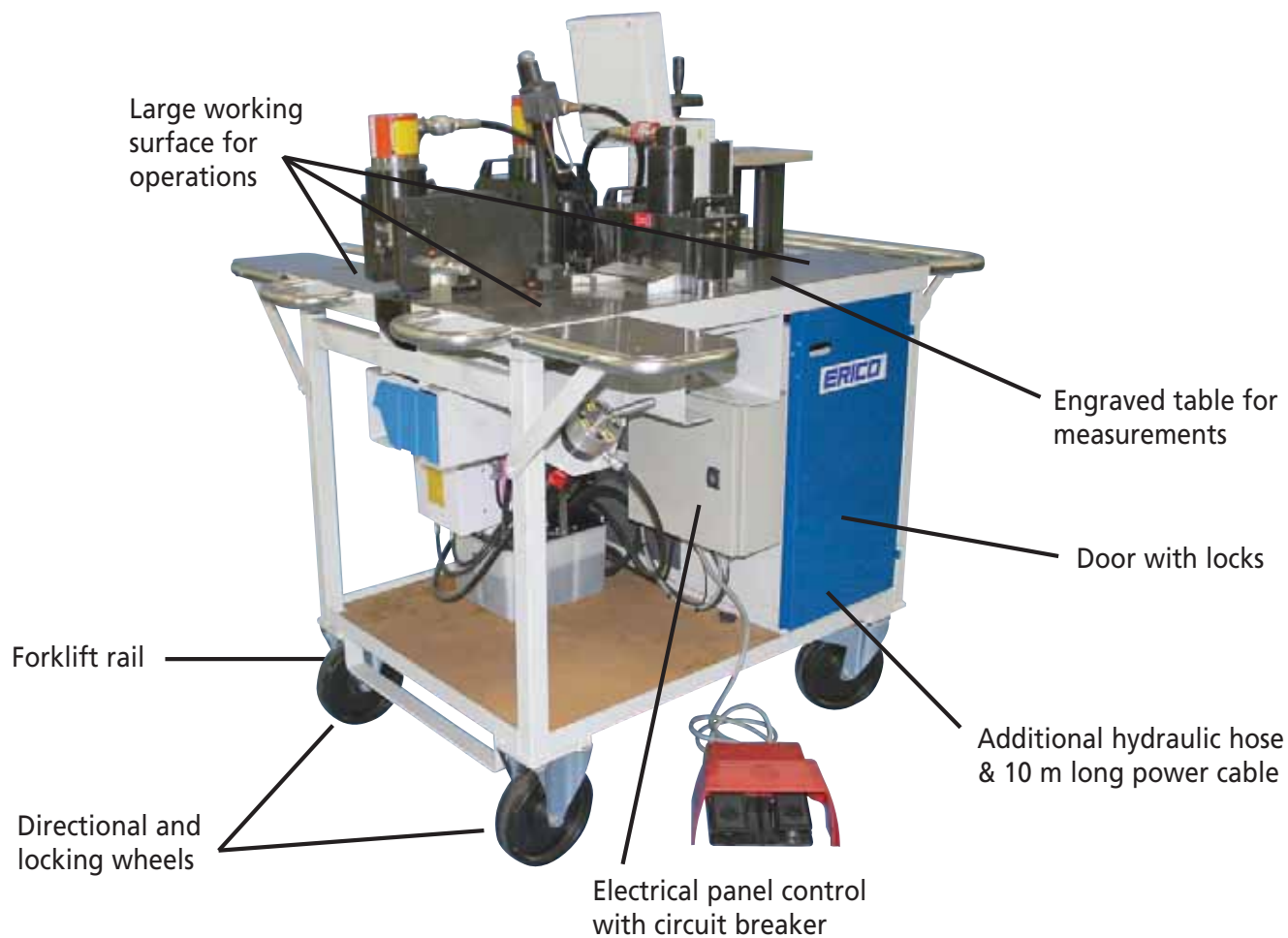
Cutting, Bending, Punching: Using a Unique Work Center.



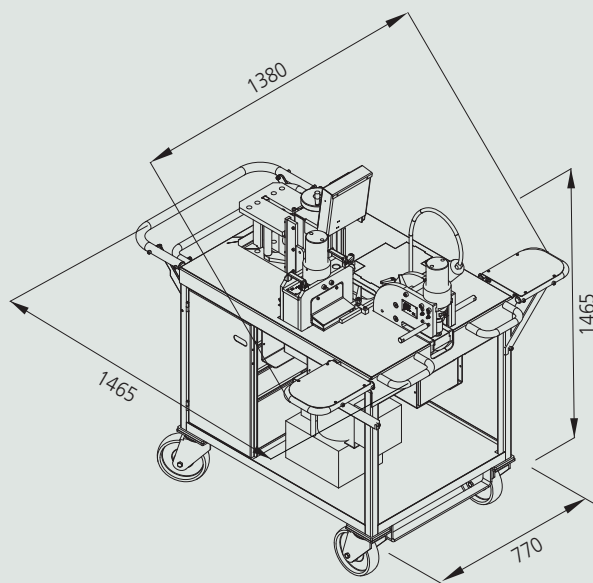
HYDRAULIC BUSBAR & ERIFLEX® FLEXIBAR WORK CENTER

- 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 (8"): 12,7 mm (1/2") with lift to adjust the machine level
 - HYDRAULIC BUSBAR CUTTER 125 (5") / 12, (1/2") mm
 - 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 - 220V (ERIFLEX FLEXIBAR Shearing Tool not included)	1	356
545720	HYDRAULIC BUSBAR & ERIFLEX FLEXIBAR WORK CENTER - 115V (ERIFLEX FLEXIBAR Shearing Tool included)	1	390

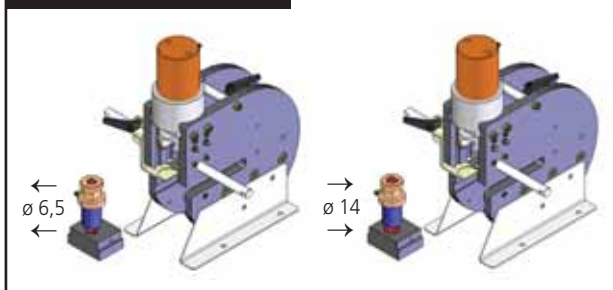


Hydraulic Busbar & ERIFLEX® FLEXIBAR Puncher

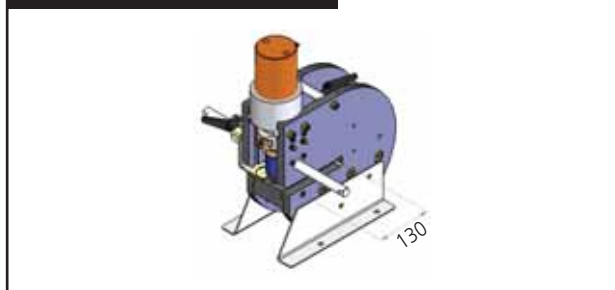


- Copper or Aluminium Busbar & ERIFLEX® FLEXIBAR
- Maximum Capacity
 - Throat depth : 130 mm (5")
 - Maximum thickness of bar : 12,7 mm (1/2")
- Maximum working hydraulic pressure : 700 bars (10,000 PSI)
- Strong mechanical construction
- Quick set up punches & dies system
- Flat and clean hole edge
- 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)

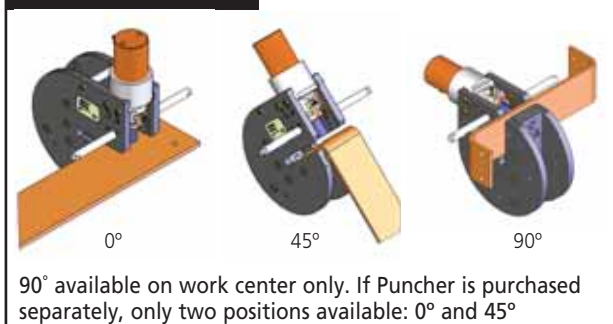
1. Quick set-up – no tool required



2. Maximum Capacity Throat depth: 130 mm



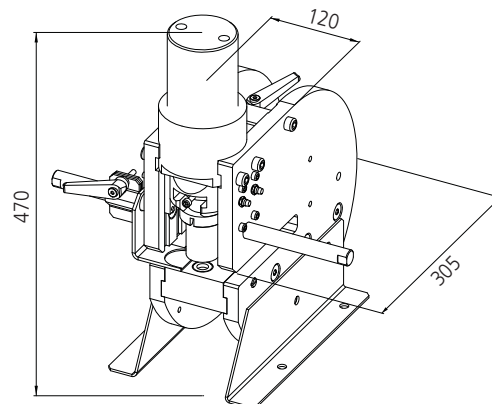
3. Three Positions



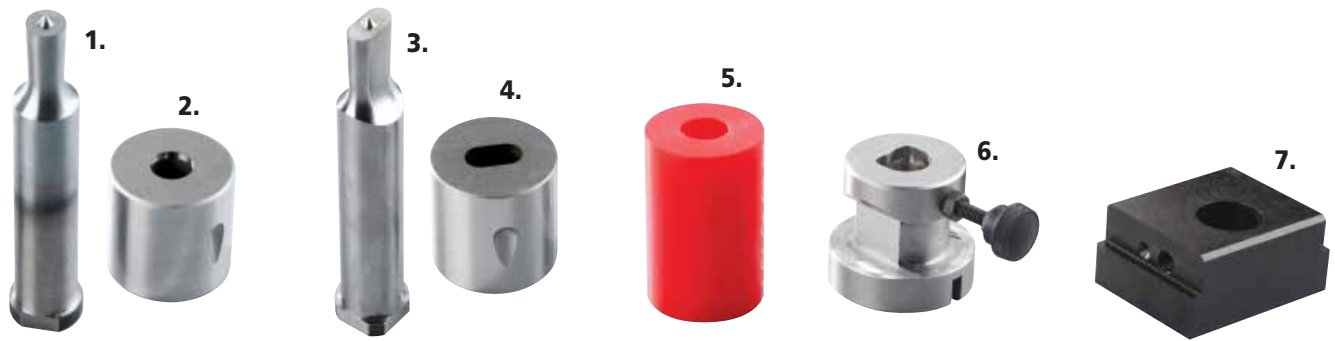
4. Round & oval holes



**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

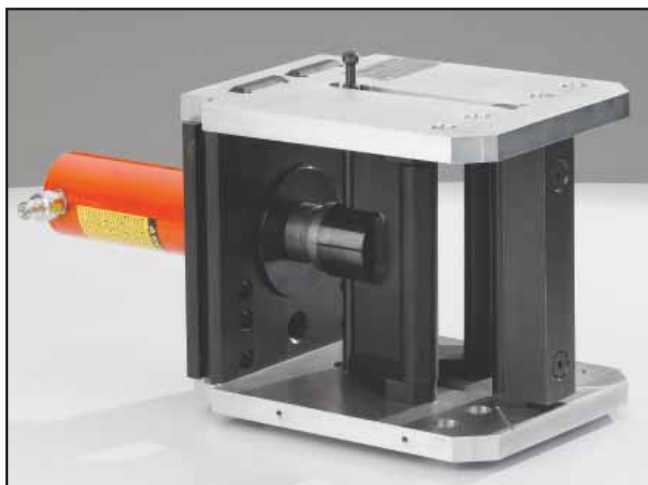
Imperial Sizes Round Holes

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

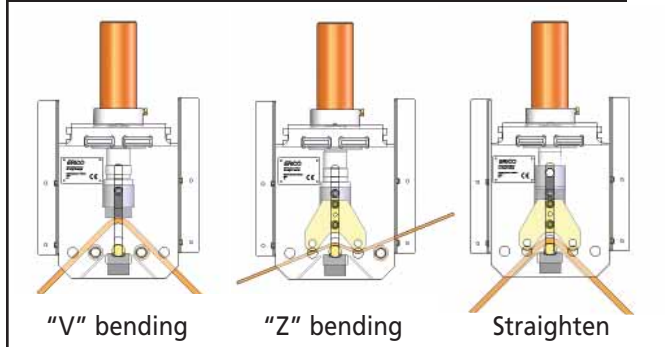
Hydraulic Busbar & ERIFLEX® FLEXIBAR Bender



- 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

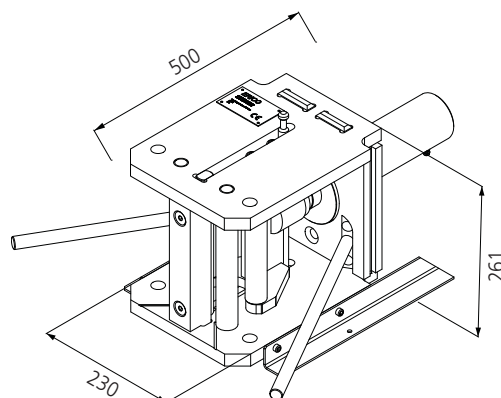
UNIQUE IN THE MARKET

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

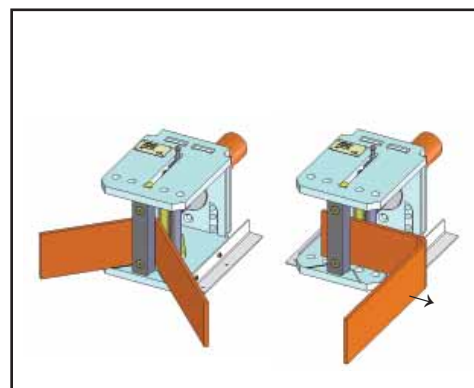
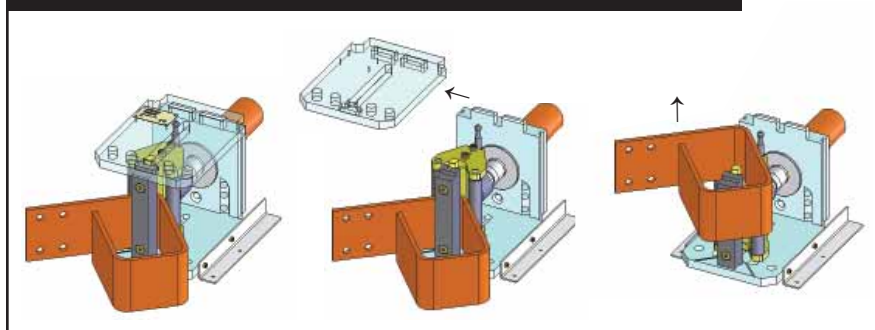


2. Large capacity: 2000 mm² / 200 x 10 mm (8" x 3/8")

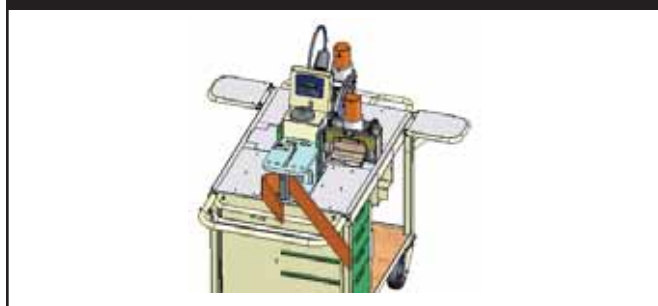
Article N°	Description		
545670	Busbar bender	1	51



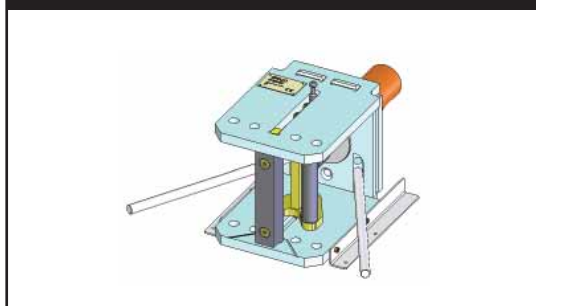
3. Easy access allowing numerous bending possibilities



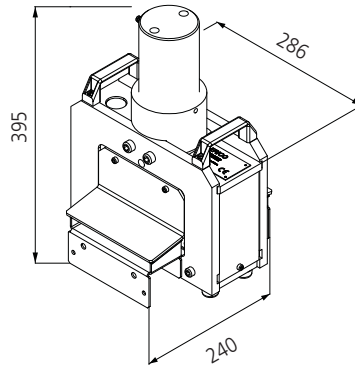
4. Large working surface for bending operation



5. Bar Support (out of the work center)



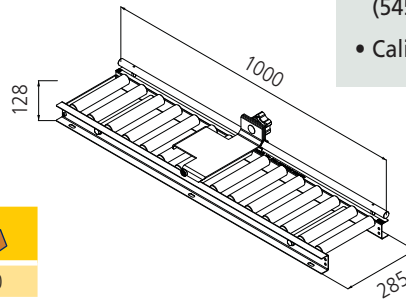
Hydraulic Busbar Cutter



- 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-B	1	10

Hydraulic Pump & Foot Controller



HYDRAULIC PUMP

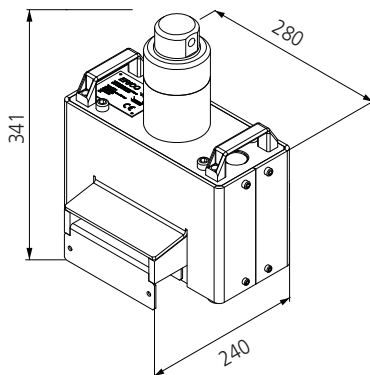
- Adjustable pressure up to 700 bars. (10,000 PSI)
- One hose attached with quick release coupler
- Oil type Shell Tellus T15
- Tank capacity from 1.9 up to 3.8 liter
- Oil flow 0.32 L per minute

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

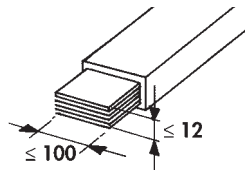
Hydraulic ERIFLEX® FLEXIBAR Shearing Tool



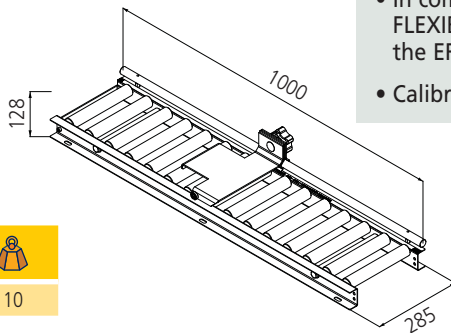
- Copper or Aluminium
- Strong mechanical construction
- Cuts quickly and accurately without burrs or deformation
- Visual inspection of cutting position
- Maximum Capacity
Copper cross section 1200 mm²
- Width of bar : 120 mm (4-3/4")
- Thickness of bar : 12 mm (1/2")
- ERIFLEX FLEXIBAR 10x120x1 MAXIMUM

WARNING: Cutting solid bars will damage the tool

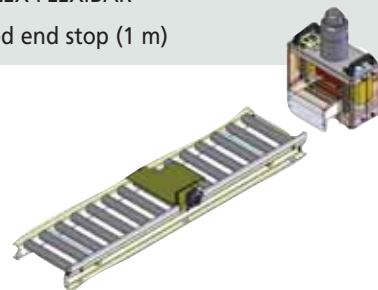
Article N°	Description		
559010	Hydraulic shearing tool HFST	1	34
559040	Tool blades HFST-C	1	1



ERIFLEX® FLEXIBAR Shearing Tool Ruler



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

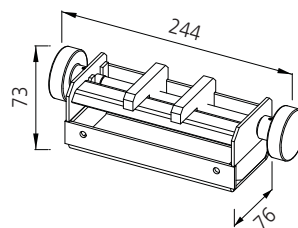


Article N°	Description		
558990	Tool Ruler HFST-R	1	10

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: ERICO® offers a complete manual tool range.



Twisting Tool



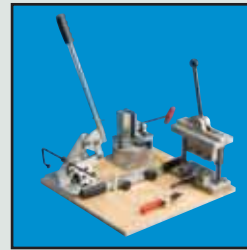
Stripping Tool



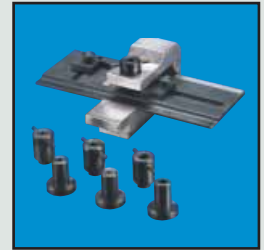
Shearing Tool



Bending Tool



ERIFLEX FLEXIBAR Workbench

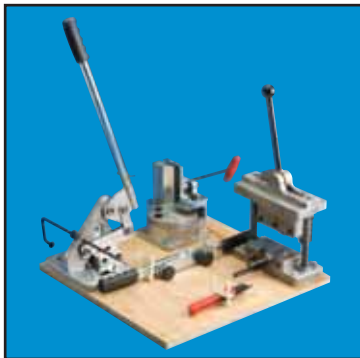


ERIFLEX® FLEXIDRILL R

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 32x5

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

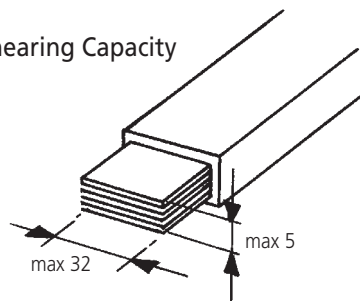
Instruction

- 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

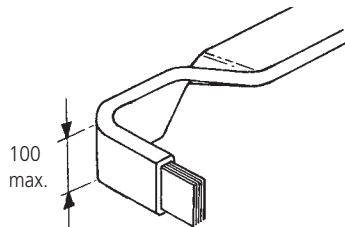
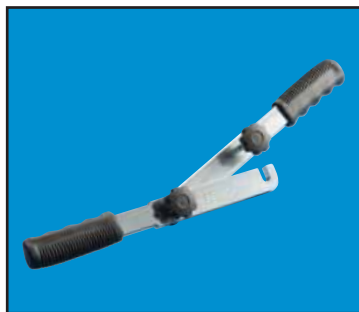


Over all dimensions:
L 170 x l 150 x H 220 mm

- 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

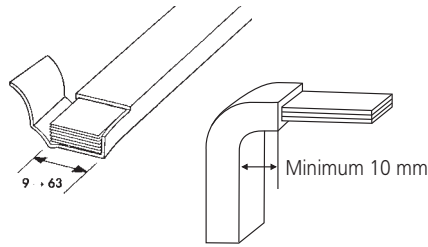
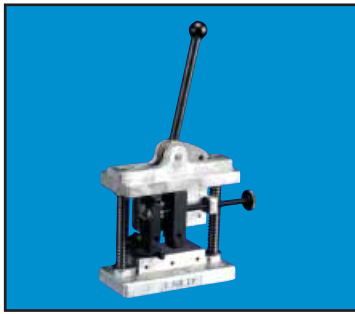


Over all dimensions:
L 250 x l 300 x H 150 mm

- 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

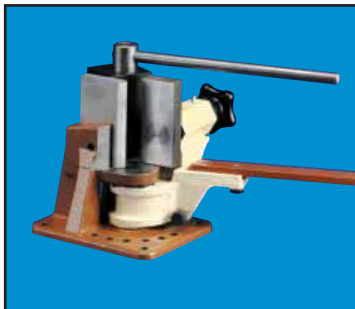


- Accurately cuts the ERIFLEX® FLEXIBAR insulation
- Special sharpening to avoid damaging the conductors
- Very resistant blade , interchangeable
- Blade protection
- Ergonomic shockproof resin handle

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 120 x 10 mm
 - Internal bending radius 8 mm

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

Braid & Crimp Drill Tool

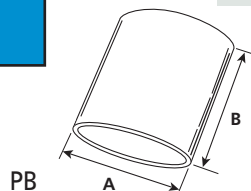


BD - Crimp & Braid Drill Tool

- Comprising of a guide and adapted drill bit. Developed by ERICO®
- For crimping and drilling of braid terminals.

PB Lugs for Flat Braids

- Tinned annealed copper



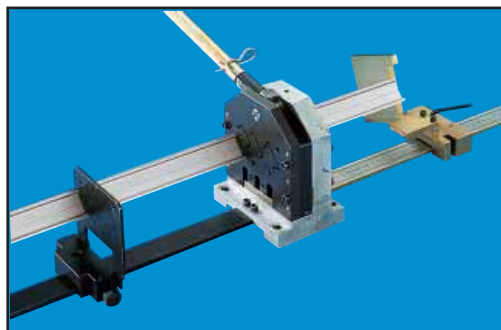
BD

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

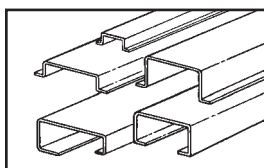
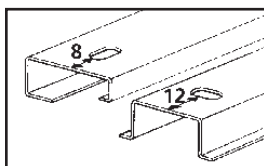
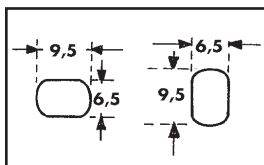
Article N°	Description	For Flat Braid	A X B		
557180	PB 16	FTCB or FRCB 15-16	16 x 15	100	0.004
557190	PB 25	FTCB or FRCB 15-25	22 x 25	100	0.010
557380	PB50	FTCB or FRCB 15-50	30 x 30	100	0.017

Cutting & Punching Tool for Din Profiles



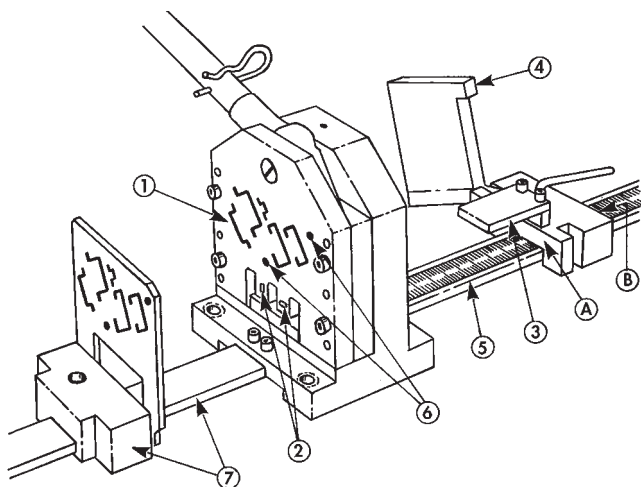
Over all dimensions:
L 165 x W 100 x H 200 mm
Lever: 630 mm

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 ERICO® manual cutting & punching tool works with the 5 most popular DIN rails
- 2) The ERICO 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

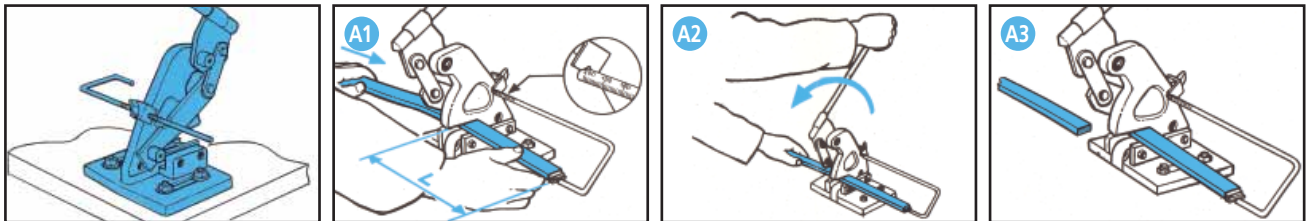
ERIFLEX FLEXIBAR TOOLING KIT



The set of hand tools shown on page 16 of the ERIFLEX® Low Voltage Components Catalogue, is designed to simplify the most common tasks associated with installation of ERIFLEX® FLEXIBAR: Cutting, Stripping, Bending, Twisting. During these tasks it is necessary to prevent any chock on the insulation.

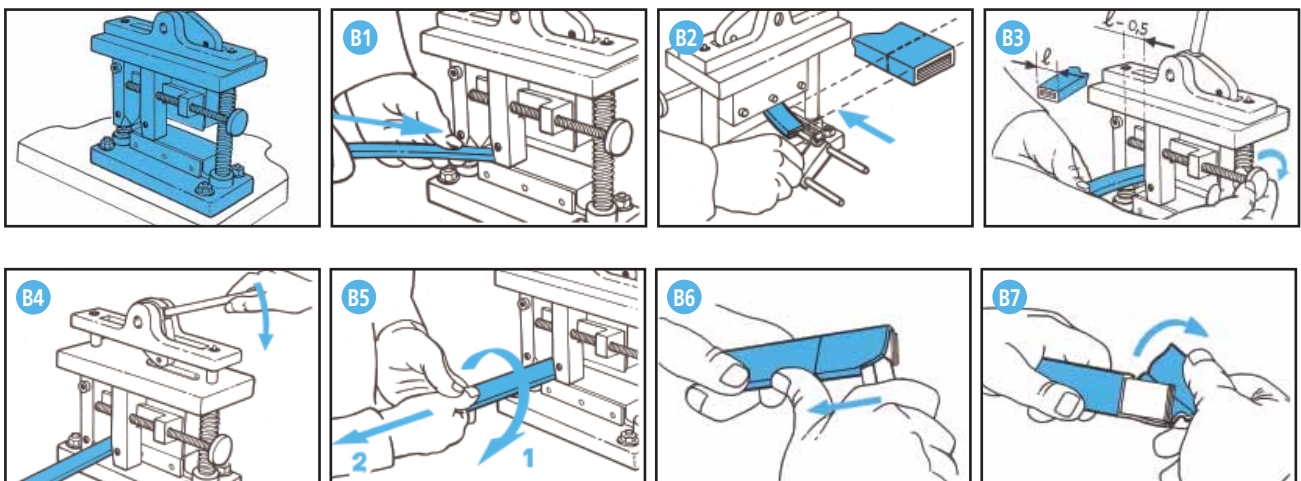
A. CUTTING TO LENGTH

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

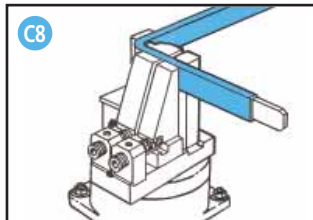
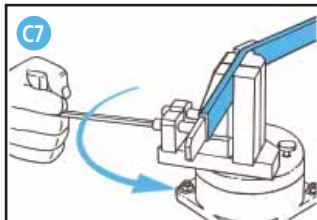
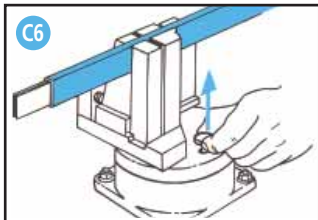
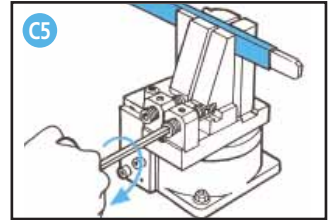
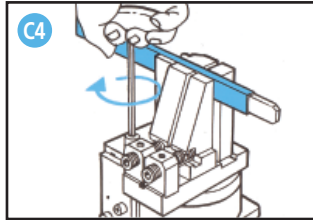
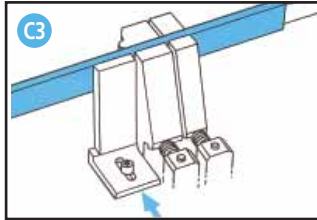
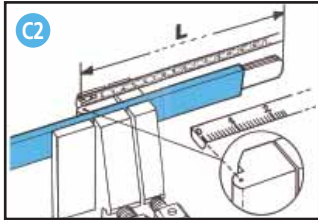
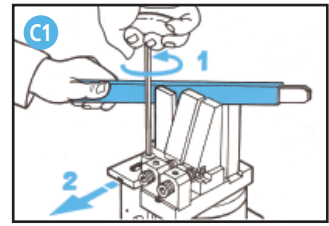
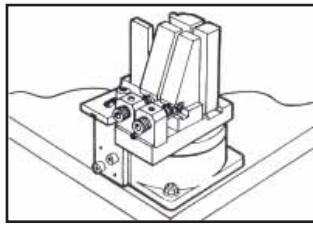
Accurate, without marking the copper. The connecting area can be kept as short as possible to reduce non-insulated parts in the panel (see stripper Article No. 559100 and knife SOK Article No. 559050)



Manual Tools - Instruction for Use

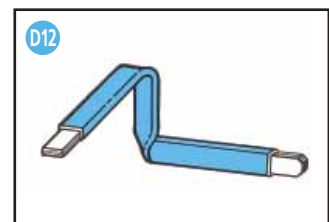
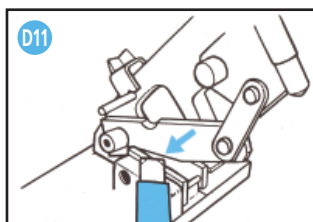
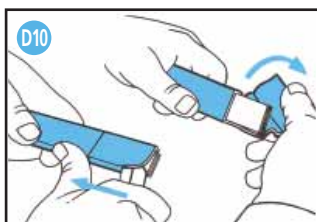
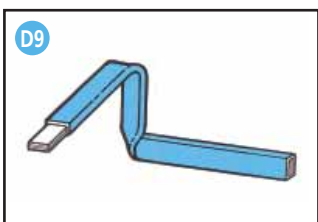
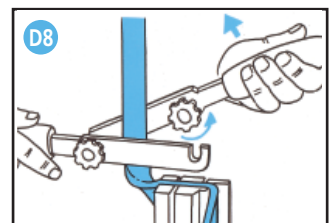
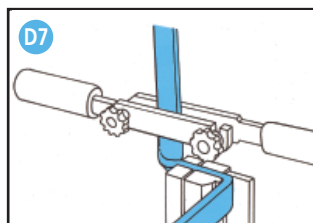
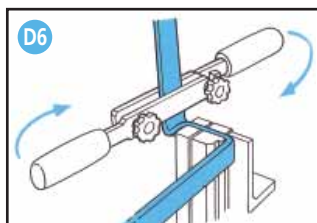
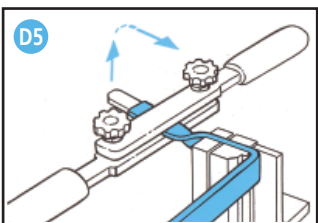
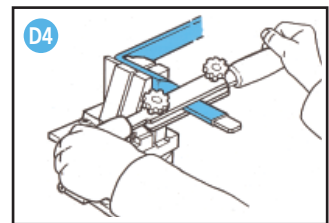
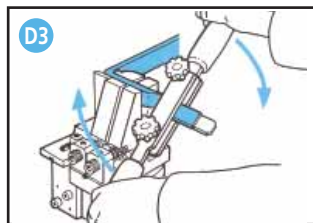
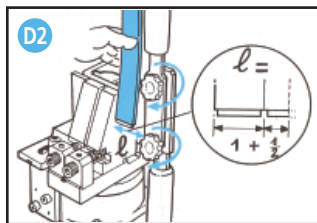
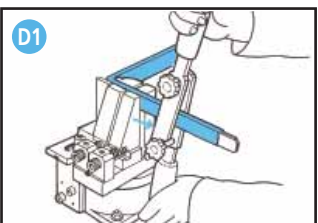
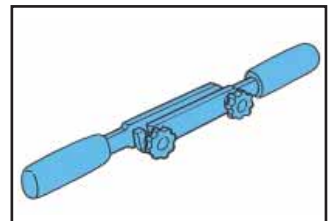
C. BENDING

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

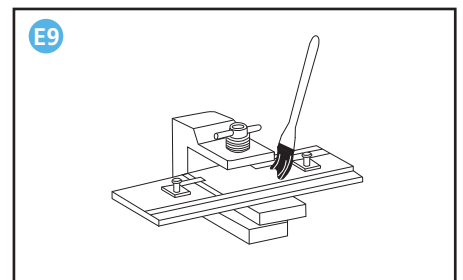
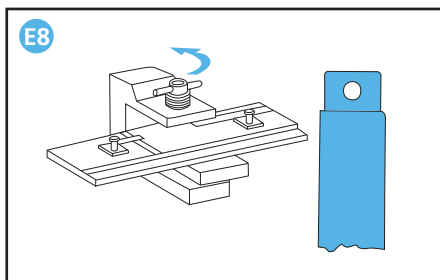
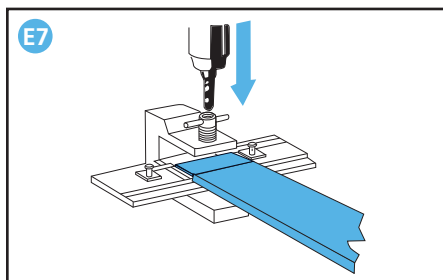
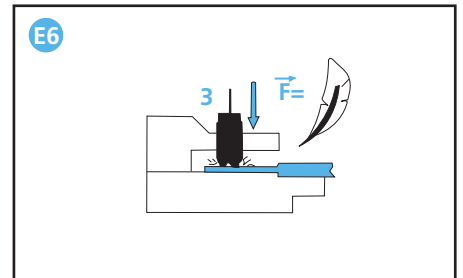
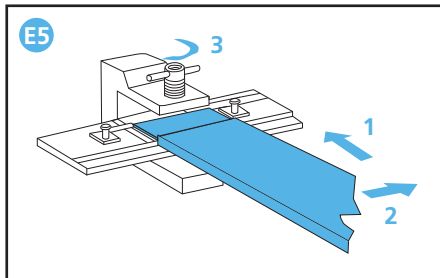
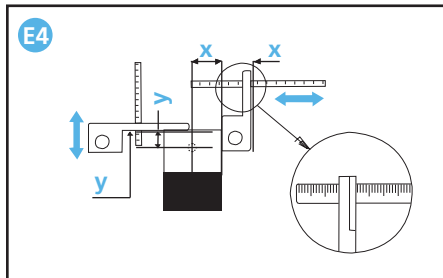
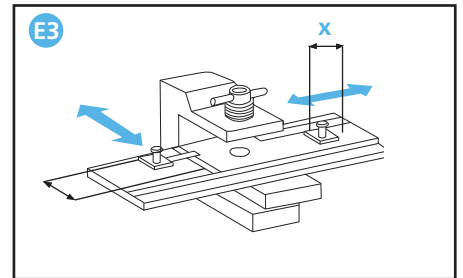
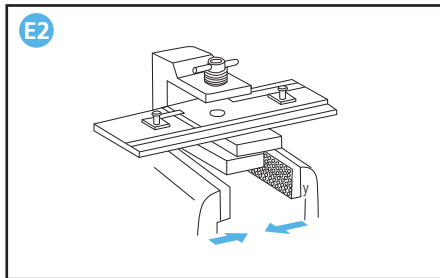
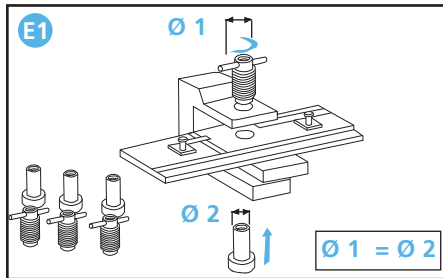
Changing plane is possible and easy due to the very high flexibility of ERIFLEX® FLEXIBAR which allows the laminates to move within the insulated sleeve. (See twisting tool Article No. 559160) After forming, the ends should be trimmed with the cutter.



Manual Tools - Instruction for Use

E. DRILLING

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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