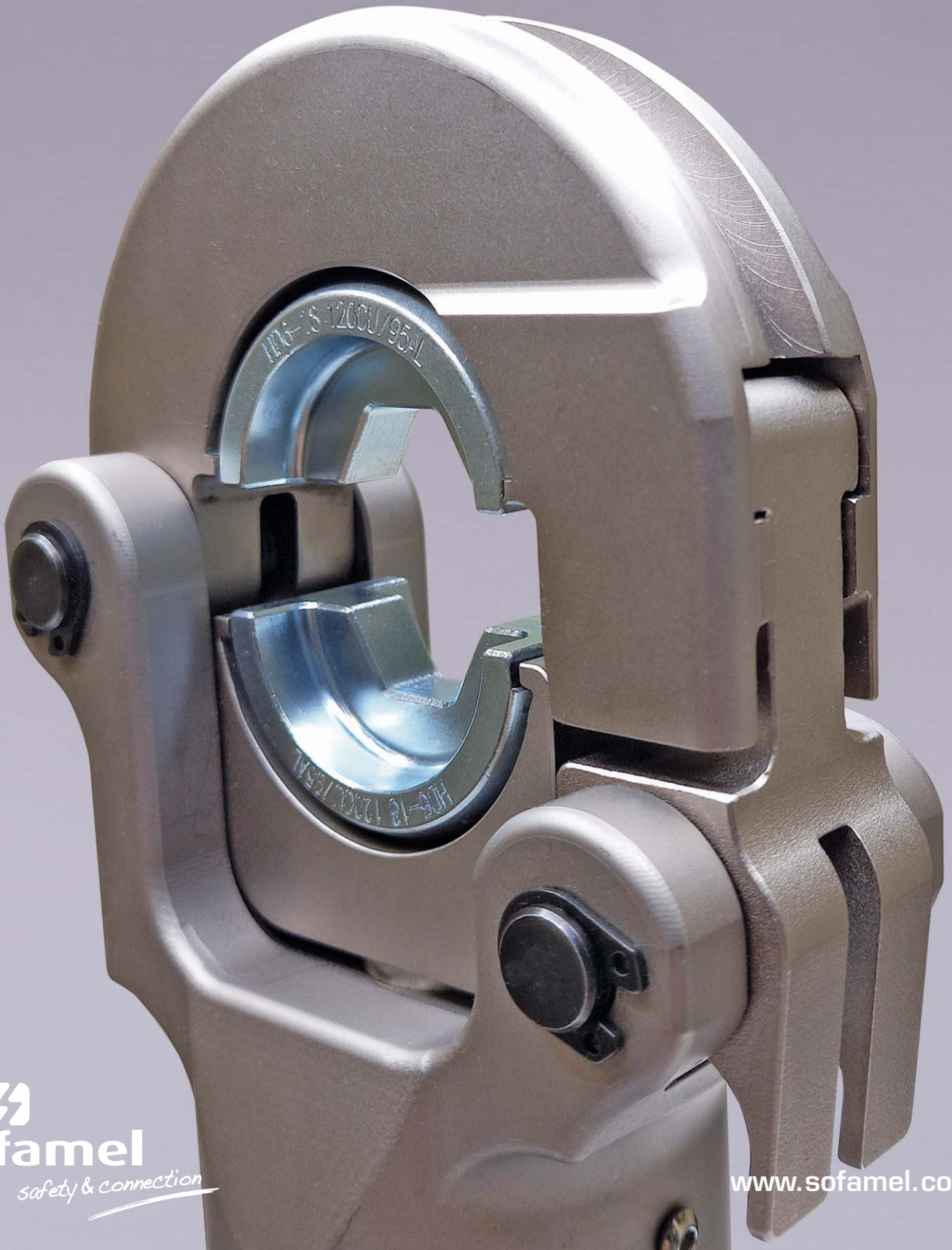


# TOOLS

HYDRAULIC AND MECHANICAL





**OFFICE AND WAREHOUSE**

C/ Thomas Alva Edison, 16-17  
Pol. Industrial Plans d'Arau  
08787 La Pobla de Claramunt (Barcelona) Spain

**FACTORY AND LABORATORY**

C/ Thomas Alva Edison, 12-13  
Pol. Industrial Plans d'Arau  
08787 La Pobla de Claramunt (Barcelona) Spain

**CUSTOMER SERVICE**

Tel. +34 93 808 79 80  
[export@sofamel.es](mailto:export@sofamel.es)

[www.sofamel.com](http://www.sofamel.com)



**Sofamel S.L.** is a Spanish company dedicated to the production of electrical material of connection as well as safety and electrical protection material.

Sofamel's main objective has been to reach a high degree of specialization with the aim of providing a global solution for our clients. The same backed up by strict quality standards and by important investments in machinery and design for the manufacturing of all those products that our factory produces. This has allowed us to offer one of the most extensive ranges of articles that exists on the market.

Our commitment with excellent quality work allows our company to own the quality management system certificate under standard UNE-EN ISO 9001:2015 and R+D+i certificate under standard UNE 166002:2021, both duly granted by the Spanish Association for Standardization and Certification (AENOR).







sofamel

# index

---



## **Mechanical Tools**

**06-28**

Multifunctional electrician scissors	06
Cable cutters	08
Crimping tools for non insulated terminals	11
Crimping tools for insulated and non-insulated ferrules	14
Crimping tools for insulated terminals	17
Crimping tool for solar connectors	17
Multipurpose tools	18
Stripping tools	19
Other tools	21
Stripping tools for MV cables	22



## **Hydraulic Tools**

**29-71**

Hydraulic hand-tools	30
Electrohydraulic tools	34
Mini battery powered crimping tools	39
Battery wire ratchet cutter	41
Hydraulic heads and pumps	42
Accessories	49
Use guide for dies	51

## **INDEX BY CODES**

**74**



### Scissors with triple function, crimping, stripping and cutting



#### 30112 TS-50

**Premium professional scissors 3 in 1:** crafted with stainless steel for super high resistance and durability. Featuring high-hardness blades and an anti-slip serrated edge for precise cutting. The handles are lightweight, robust, and made from impact-resistant plastic material, with embedded anti-slip ridges for a secure grip.

- 1 crimping function.
- 2 stripping functions.
- Cutting wire function.
- Anti-slip serrated blade.
- Special whole steel frame.
- Blades are whole frame.
- Scissor carrying case included. (belt-adjustable)



Code	Ref.	Max. cutting range	Crimping range	Stripping capacity between handles	Length	Weight
316000	TS-50	50 mm <sup>2</sup>	2.5-6 mm <sup>2</sup>	1.5/2.5 mm <sup>2</sup>	160 mm	0.15 kg

### Scissors with multi-holding way



#### 30112 TS-70

**Premium professional scissors 3 in 1:** crafted with the stainless steel for super high resistance and durability. Featuring high-hardness blades and an anti-slip serrated edge for precise cutting. Ergonomically-designed for comfortable, precise, and durable use. Extended capacity for stripping, crimping and cutting.

- 2 crimping functions.
- 3 stripping functions.
- Cutting wire function.
- Blades are whole frame.
- Handles crafted from impact-resistant plastic.
- Anti-slip ridges made of TPR.
- Ergonomic design.
- Scissor carrying case included. (belt-adjustable)



Code	Ref.	Max. cutting range	Crimping range	Stripping capacity between handles	Length	Weight
316001	TS-70	70 mm <sup>2</sup>	2.5-6 mm <sup>2</sup>	1.5/2.5/4 mm <sup>2</sup>	170 mm	0.18 kg

*Multi-function heavy duty electrician scissors, crimping, stripping and cutting*

### 30112 TS-95

**New Generation Professional Scissors:** capable of cutting cables up to 95 mm<sup>2</sup>. These scissors are equipped with a convenient wire stripping function compatible with cable sizes ranging from 0.34 mm<sup>2</sup> to 6 mm<sup>2</sup> (AWG 22 - 10). Crafted from high-quality, durable stainless steel, they are built to withstand the rigors of daily use.

- 2 crimping functions.
- 7 stripping functions.
- 3 cutting wire functions.
- Blades are whole frame.
- High Hardness Blades.
- Enhanced Grip and ergonomic design.
- Scissor carrying case included. (belt-adjustable)



**4 in 1** crimping  
stripping  
cutting



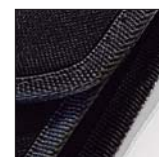
Code	Ref.	Max. cutting range	Crimping range	Stripping capacity between handles	Length	Weight
316002	TS-95	95 mm <sup>2</sup>	2.5-6 mm <sup>2</sup>	0.34-6 mm <sup>2</sup> (AWG 22 -10)	204 mm	0.26 kg



### 30701 BP-7/18

Universal belt pouch

- Superior quality, strong and durable
- Sold separately



Code	Ref.	Dimensions
600165	BP-7/18	180 x 74 x 37 mm

# Mechanical Tools

## Cable cutters

CATALOGUE 2024

*For low voltage copper and aluminium cables*



### 20101 SF-21

For copper and aluminium cables up to 16 mm².  
Not for cutting steel or steel wire.

Code	Ref.	Length	Weight
380120	SF-21	160 mm	0.19 kg



### 20101 SF-30

For copper and aluminium cables up to 35 mm².  
Not for cutting steel or steel wire.

Code	Ref.	Length	Weight
380130	SF-30	210 mm	0.36 kg



### 20101 SF-31

For copper and aluminium cables up to 50 mm².  
Not for cutting steel or steel wire.

Code	Ref.	Length	Weight
380140	SF-31	235 mm	0.50 kg





# Mechanical Tools

## Cable cutters

CATALOGUE 2024

For low voltage copper and aluminium cables



### 20101 SF-36A

- Light weight, compact structure, easy operation.
- Suitable for narrow space work.
- Clean and smooth cut without crushing and deformation.
- Innovative two-stage ratchet drive and high torque transmission, one hand or two hands easy operation.

Code	Ref.	Max. cutting range	Length	Weight
380010	SF-36A	≤Ø 36 mm 300 mm²	250 mm	0.61 kg



Single conductor cable, solid



Single conductor cable, fine and multiple strands



### 20101 SF-60A

- Light weight, compact structure, easy operation.
- Suitable for narrow space work.
- Clean and smooth cut without crushing and deformation.
- Innovative two-stage ratchet drive and high torque transmission, one hand or two hands easy operation.

Code	Ref.	Max. cutting range	Length	Weight
380020	SF-60A	≤Ø 60 mm 500 mm²	310 mm	0.84 kg



Multiple conductor cable, multiple strands and solid

*For low voltage copper and aluminium conductor and communication cable*



### 20101 SF-240

- For cutting copper and aluminium conductors as well as multiple stranded cables.
- Favourable transmission ratio due to double lever.
- Blade: high-grade chrome vanadium electric steel, forged, hardened, replaceable blades.
- Handles material: steel.

Code	Ref.	Max. cutting range	Length	Weight
380028	SF-240	≤Ø 35 mm 240 mm²	565 mm	2.15 kg



Single conductor cable, solid



Single conductor cable, fine and multiple strands



### 20101 SF-500

- For cutting copper and aluminium conductors as well as multiple stranded cables.
- Favourable transmission ratio due to double lever.
- Blade: high-grade chrome vanadium electric steel, forged, hardened, replaceable blades.
- Handles material: steel.

Code	Ref.	Max. cutting range	Length	Weight
380029	SF-500	≤Ø 55 mm 500 mm²	745 mm	4.48 kg



Multiple conductor cable, multiple strands and solid

### Manual crimping tools by punching



#### 20102 SF-P70

- For copper and aluminum tubular terminals (type T, TL, TBE) from 6 to 70 mm<sup>2</sup>.
- Adjustment by section screw.
- Steel alloy handles.
- Not suitable for solid bimetallic terminals.

Code	Ref.	Crimping range	Length	Weight
385015	SF-P70	6-70 mm <sup>2</sup>	462 mm	2.08 kg



#### 20102 SF-P150

- For copper and aluminum tubular terminals (type T, TL, TBE) from 10 to 150 mm<sup>2</sup>.
- Adjustment by section screw.
- Steel alloy handles.
- Not suitable for solid bimetallic terminals.

Code	Ref.	Crimping range	Length	Weight
385020	SF-P150	10-150 mm <sup>2</sup>	706 mm	3.34 kg



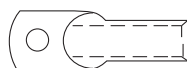
New generation manual crimping tool, engineered for robust performance and unparalleled comfort. This tool features an ergonomic design that minimizes strain and maximizes efficiency, making it the ideal choice for professionals seeking superior crimping capabilities.

**Ergonomic Handle:** the tool's ergonomic handle provides a comfortable grip, reducing hand fatigue during extended use.

**Robust Construction:** built to withstand rigorous use, this crimping tool is crafted from high-quality materials, ensuring long-lasting durability.

**Precision Punch Crimping:** with advanced punch mechanism, specifically designed for tubular terminals made of copper and aluminum.

Copper tubular lugs





### New generation hexagonal crimping tools

The crimping tools SF-70 and SF-120 are used for standard electrical connections.

The crimping dies are made from the most durable steel and feature a long service life, precise crimping diameter, and exceptional crimping effectiveness. Specially designed for our tubular terminals, series T, TL, TBE, among others.



#### 20102 SF-70

- For tubular copper terminals from 6 to 70 mm².
- Section adjustment by revolver system.
- Hexagonal compression.
- Not suitable for solid bimetallic terminals.

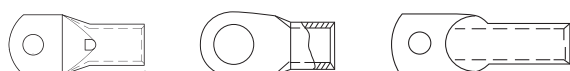
Code	Ref.	Crimping range	AWG	Length	Weight
380024	SF-70	6-70 mm²	10-2/0	430 mm	1.75 kg

#### 20102 SF-120

- For tubular copper terminals from 10 to 120 mm².
- Section adjustment by revolver system.
- Hexagonal compression.
- Not suitable for solid bimetallic terminals.

Code	Ref.	Crimping range	AWG	Length	Weight
380025	SF-120	10-120 mm²	7-4/0	625 mm	3.2 kg

Copper and aluminium tubular lugs



# Mechanical Tools

## Crimping tools for non insulated terminals

CATALOGUE 2024

### Ratchet terminal crimping tools

The enhanced ratchet system requires less force.  
All crucial components of our new crimping tools have undergone special hardening, ensuring high efficiency and prolonged lifespan.

#### 20102 SF-6D

- For cable lugs from 0.5 to 6 mm<sup>2</sup>.
- Punching compression.
- Not suitable for solid bimetallic terminals.



Code	Ref.	Crimping range	AWG	Length	Weight
380021	SF-6D	0.5-6 mm <sup>2</sup>	20-10	180 mm	0.25 kg

#### 20102 SF-16D

- For cable lugs from 2.5 to 16 mm<sup>2</sup>.
- Punching compression.
- Not suitable for solid bimetallic terminals.



Code	Ref.	Crimping range	AWG	Length	Weight
380022	SF-16D	2.5-16 mm <sup>2</sup>	13-5	275 mm	0.44 kg

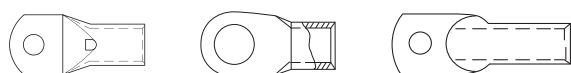
#### 20102 SF-35D

- For cable lugs from 10 to 35 mm<sup>2</sup>.
- Punching compression.
- Not suitable for solid bimetallic terminals.



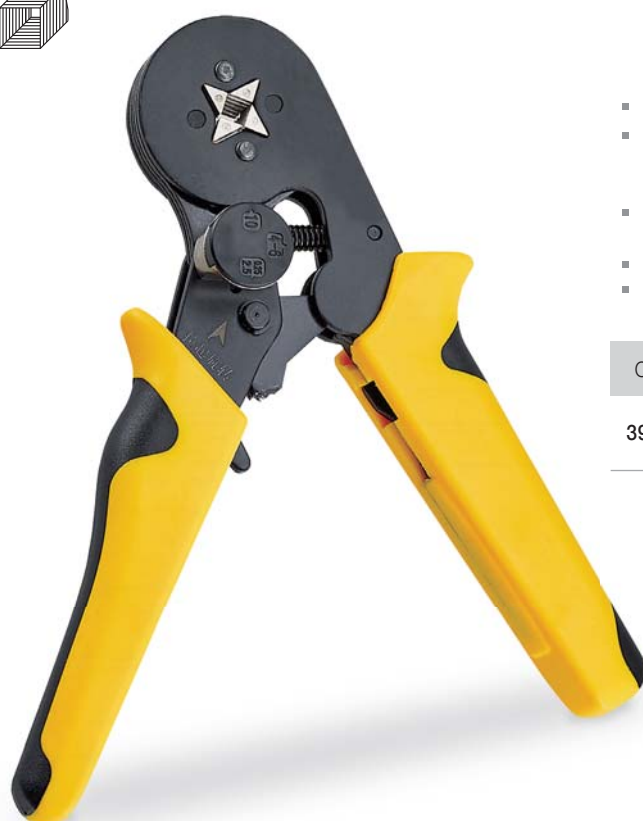
Code	Ref.	Crimping range	AWG	Length	Weight
380023	SF-35D	10-35 mm <sup>2</sup>	8-1/0	335 mm	0.65 kg

Copper and aluminium tubular lugs



### Mini-Type self-adjustable crimping plier

Insulated and non-insulated ferrules



### 20104 SF-42

- Lugs are effortlessly inserted into the crimping pliers from the side.
- The adaptive crimping pliers accommodate lug specifications within the crimp range, eliminating the need to differentiate between terminal sizes.
- They are compatible with all single-line bushings and two-wire bushing lugs within the specified application range.
- For cord end terminals from 0,5 to 6 mm<sup>2</sup>.
- Compression system by squared diaphragm.

Code	Ref.	Crimping range	AWG	Length	Weight
390125	SF-42	0.25-10 mm <sup>2</sup>	26-7	175 mm	0.4 kg



#### We've made significant improvements to our SF-42 tool.

The new SF-42 has a quick pressure adjustment knob. The pressure adjustment knob is divided into three pressure output files: 0.25-2.5mm<sup>2</sup>, 4-6mm<sup>2</sup>, 10mm<sup>2</sup>.

The number of times the crimping pliers has been used has been increased from 30,000 to 60,000 times after the adjustment knob is improved.



For the used of crimping of insulated and non-insulated bushing terminals. It is automatically adjusted according to the cross-sectional area of the terminals during crimping to facilitate the crimping operation of terminals of different sizes. After the bushings are crimped into a square shape It ensures the best contact surface and is DIN compliant.



When the crimping is not the same size, simply pull the adjustment knob to the corresponding specification and then reset.

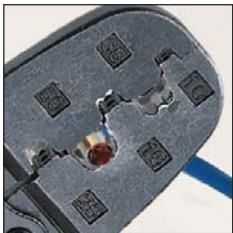


# Mechanical Tools

## Crimping tools for insulated and non-insulated ferrules

CATALOGUE 2024

These crimping tools for ferrules, featuring punch compression, combine simplicity and convenience. Their durable and ergonomic design ensures reliable performance and a long lifespan, making them ideal for applications that require precision and efficiency.



### 20104 SF-55

- For insulated and non-insulated ferrules of 10, 16, 25, 35 and 50mm<sup>2</sup>.
- With ratchet device.
- Punching compression.



Code	Ref.	Crimping range	AWG	Length	Weight
390180	SF-55	10-50 mm <sup>2</sup>	8-1/0	320 mm	0.72 kg

### 20104 SF-6

- For insulated and non-insulated ferrules of 0.50 to 16 mm<sup>2</sup>.



Code	Ref.	Crimping range	AWG	Length	Weight
390100	SF-6	0.5-16 mm <sup>2</sup>	22-6	220 mm	0.29 kg

### Compression using ratchet mechanism

Improvements have been implemented in the tool, including the dies, the vertex of the angular press, and the handle design, all aligned with human-centered engineering principles. These advanced improvements result in a more efficient user experience, simplifying operation and enhancing comfort.

#### 20104 SF-10W

- For insulated and non-insulated ferrules from 0,25 to 10 mm<sup>2</sup>.
- Compression using ratchet mechanism.



Code	Ref.	Crimping range	AWG	Length	Weight
380031	SF-10W	0.25-10 mm <sup>2</sup>	23-7	205 mm	0.48 kg



#### 20104 SF-35W

- Insulated and non-insulated ferrules from 10 to 35 mm<sup>2</sup>.
- Compression using ratchet mechanism.



Code	Ref.	Crimping range	AWG	Length	Weight
380032	SF-35W	10-35 mm <sup>2</sup>	5-2	205 mm	0.55 kg



# Mechanical Tools

## Crimping tools for insulated terminals

CATALOGUE 2024

The precise dies and the integral locking mechanism with self-release ensure high-quality crimping performance, even after multiple uses. The ergonomic design, with optimal center of gravity balance, the superior angular press, and the handle designed according to human engineering principles, make operation easier and more comfortable.

### 20104 SF-6J

- For insulated terminals from 0.5 to 6 mm<sup>2</sup>.
- Compression using ratchet mechanism.



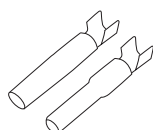
Code	Ref.	Crimping range	AWG	Length	Weight
380034	SF-6J	0.5-6 mm <sup>2</sup>	20-10	205 mm	0.48 kg



## Crimping tool for solar connectors

### 20103 SF-MC4

- Crimping tool for solar connectors to 2.5-6 mm<sup>2</sup> cables for photovoltaic installations.

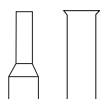


Code	Ref.	Crimping range	Length	Weight
380033	SF-MC4	2.5-6 mm <sup>2</sup>	205 mm	0.49 kg





### Multipurpose tool 5 in 1



#### 20104 SF-5

The 5-in-1 multipurpose tool offers versatility by combining several functions and optimizes space in the toolbox. Increases efficiency by reducing changeover times between tools and improves productivity. Its ergonomic design provides comfort, reducing fatigue and improving work precision. Its compact design makes it easy to transport for professionals on the go. Made with high quality materials, it guarantees durability and long-lasting, reliable performance.

##### Multipurpose tool 5 in 1:

- Wire cutter.
- Crimping insulated terminals from 1,5 to 6,0 mm<sup>2</sup>.
- Crimping non insulated terminals from 1,5 to 6,0 mm<sup>2</sup>.
- Wire stripper from 0,75 to 6,0 mm<sup>2</sup>.
- Iron screw cutter from M2.6 to M5.

Code	Ref.	Crimping range	Length	Weight
395100	SF-5	1.5-6 mm <sup>2</sup>	220 mm	0.48 kg

### Multipurpose tool that includes 5 sets of dies



#### 20104 SF-C

The SF-C includes five sets of interchangeable dies. This versatility makes it an all-in-one solution for various crimping tasks, offering efficiency and convenience in a single device.

##### Multipurpose tool that includes 5 sets of dies:

- Insulated terminals from 0.5-6 mm<sup>2</sup>.
- Cord end terminals from 0.25-10 mm<sup>2</sup>.
- Cord end terminals from 10-35 mm<sup>2</sup>.
- Twin cord end terminals from 2X(0.5-6 mm<sup>2</sup>).
- Non-insulated terminals from 0.5-10 mm<sup>2</sup>.

Supplied with a carrying bag and screwdriver to facilitate changing dies.



Code	Ref.	Crimping range	Length	Weight
380035	SF-C	According to the die	243 mm	0.75 kg



*For stripping the plastic or rubber insulation*



### 20105 SF-D10

- For stripping the plastic or rubber insulation of the single, multiple cables and wires of 0.02-6 mm<sup>2</sup>.
- With wire cutter for copper and aluminum wires, multiple strand up to 6 mm<sup>2</sup>.
- No damaging of the conductor core, long lifetime.



Code	Ref.	Stripping range	Length	Weight
380026	SF-D10	0.02-6 mm <sup>2</sup>	190 mm	0.15 kg

*For stripping the plastic or rubber insulation*



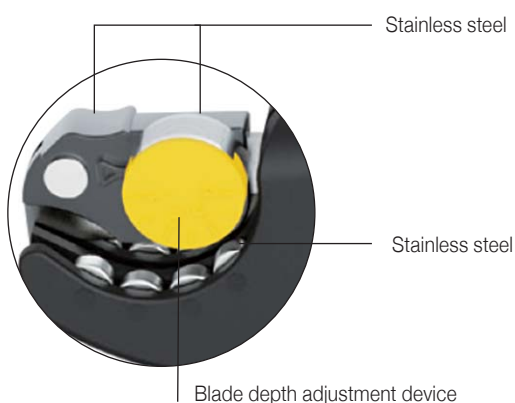
### 20105 PL-6

- Stripping diameter can be adjusted automatically for different wire cross sections.
- Precise blade design without damaging the conductor cores.
- During stripping, the wire is held firm by clamping jaws.
- With adjustable length stop, with a spring returns the stripper to the starting position, long lifetime.

Code	Ref.	Stripping range	Length	Weight
380030	PL-6	0.25-2.5 mm <sup>2</sup>	170 mm	0.25 kg



*For stripping the plastic or rubber insulation*



*Wire stripper*



### 20105 SF-D30

- Minimizes the risk of injury while stripping cables, ensuring a secure operation every time.
- The straightforward design allows for quick and easy use.
- Designed with ergonomics in mind, the handle provides a comfortable and firm grip, reducing hand strain during prolonged use.
- For stripping the plastic or rubber insulation of the single, multiple cables and wires of 10-300 mm<sup>2</sup>.
- No damaging of the conductor core, long lifetime.

Code	Ref.	Stripping range	Length	Weight
380027	SF-D30	Ø 8-30 mm / 10-300 mm <sup>2</sup>	176 mm	0.13 kg

Code	Model
380037	Spare blade for SF-D30



### 20105 SF-38

- Designed for fast, safe and accurate stripping of PE, PVC, rubber and other materials. Ideal for fibre optic cables, providing accurate stripping on multi-fibre cables.
- Suitable for cable diameters from 4 to 25 mm.
- Allows rotary or longitudinal cuts along the length of the cable for end stripping.
- Spiral cut facilitates removal of tougher jackets.
- Spring-loaded bracket secures the cable firmly to the blade for a controlled cut.
- Ergonomic design for ease of use and storage.
- Long lasting blade for easy depth adjustment.

Code	Ref.	Stripping range	Length	Weight
400110	SF-38	4-25 mm	136 mm	0.13 kg





Cable ties



20106 SF-39

- The SF-39 tensioning tool is designed to efficiently tension and cut plastic or metal ties. It offers consistent use over many cycles and is equipped with padded non-slip handles for increased comfort and control.





Code	Ref.	Tie width	Length	Weight
405100	SF-39	2,4-9,0 mm	195 mm	0,3 kg

Multifunctional cross wrench



20106 SF-LC

- Versatile industrial tool, ideal for opening electrical panels, gas boxes, cabinet doors, toolboxes, and other locking systems. Also suitable for screwing and unscrewing (Phillips PH2 and flat PL6.5). Perfect for electricians, building maintenance personnel, utility workers, among others.
- Material: High-quality zinc alloy.
- Robust structure for prolonged use.
- Compact and easy-to-carry design.

Code	Ref.										Length	Weight
		A	B	A	B	A	B	A	B	C		
20106001	SF-LC	14 mm	8 mm	12 mm	6 mm	14 mm	9 mm	14 mm	9 mm	5,5 mm	72 mm	0,1 kg

20105 UCS-25-LV/MV

- Universal wire stripper for external BT/MT insulation.
- Include replaceable blade.
- Include tool holder case to attach to the belt.

Not suitable for working under tension.



Applicable for:



Communication cable



LV cable (PLV insulation)



MV cable (PVC constructed)



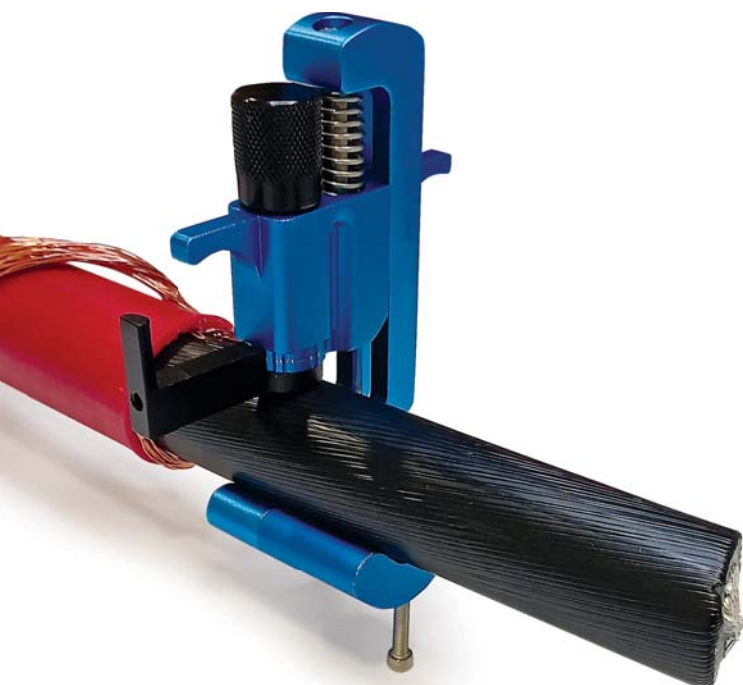
MV cable (PLV insulation)



Code	Ref.	Cable Ø	Cutting thickness	Length	Weight
400006	UCS-25-LV/MV	≥25 mm	0-5 mm	160 mm	0.2 kg

Code	Ref.	Description
400007	SB UCS-25	Replacement blade

Includes a tool belt pouch designed to keep the UCS-25 always within reach, making work easier and improving efficiency. Superior quality, sturdy, and durable.



### Cable stripper for strippable semi-conductor layer

#### 20105 CSSL-40

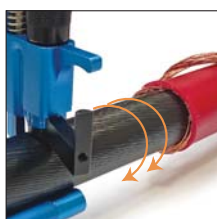
- Application: To strip 10/11 kV or 20/22 kV Strippable Semiconductor.
- Adjustable cutting depth, max. 2 mm, adjustable range of rotary knob is 0-0.9 mm, each adjustable depth is 0.1 mm.
- Applicable cable Ø: 16-41 mm.
- Blade min. hardness: 52 HRC.
- Include a pliers and tool holder briefcase.



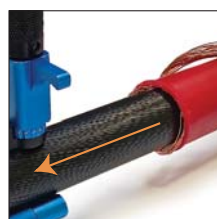
#### Peeling process

There are two methods for stripping the semiconducting layer:

##### 1. Spiral cutting



##### 2. Longitudinal cutting



Code	Ref.	Layer Ø	Cutting thickness	Tool dimensions	Briefcase dimensions	Tool Weight	Briefcase Weight
400008	CSSL-40	16-41 mm	5 mm	120x60x50 mm	240x210x70 mm	0.21 kg	0.43 kg

Code	Ref.	Model	Hardness
400009	CSSL-40	Spare blade for CSSL-40	52 HRC

### Cable stripping tool for non-removable semiconductor layer



#### 20105 CSNL-54

Tool for stripping non-removable semiconductor layers of a 10, 20 and 35 kV power cables (Ø of the cable: 16-51 mm).

It has a small radius of rotation (maximum only 90 mm). It can be operated in narrow space and operated on a cable with more than three cores.

The bearing are flexible and easy to rotate, making it easy for the operator to strip the cable.

- Applied to 35 kV non-strippable semiconductor.
- With chamfer on blade, leaving chamfer on semiconductor.
- One-way stripping.
- Can be fixed tightly on cable.
- Offers stripping depths ranging from 0 to 1.5 mm.
- Compatible with cable diameters ranging from 30 mm to 54 mm.
- Ensures a secure fixation.
- Lightweight design.
- Include tool holder briefcase.

Code	Ref.	Cable Ø	Stripping depth	Weight	Dimensions (mm)
400010	CSNL-54	30-54 mm	0-1.5 mm	0.6 kg	180x95x47

Code	Ref.	Model
400011	SB CSNL-54	Spare blade for CSNL-54

### Cable stripper for primary insulation



#### 20105 CSML-54

Suitable for stripping main insulation of 10 kV, 20 kV and 35 kV cables. Features both slice and rotary cutting functions, with adjustable blade angles for versatility.

- Equipped with a replaceable blade for extended usage.
- Adjustable stripping depth ranging from 0 to 15 mm.
- Compatible with cable diameters ranging from 15 mm to 54 mm.
- Lightweight design.
- Include tool holder briefcase.

Code	Ref.	Cable Ø	Stripping depth	Weight	Dimensions (mm)
400024	CSML-54	15-54 mm	0-15 mm	0.7 kg	180x95x47

Code	Ref.	Model
400025	SB CSML-54	Spare blade for CSML-54



### Cable stripper for primary insulation



#### 20105 CSML-25/240

The tool is designed to remove the insulation of ethylene propylene rubber (G7) or cross-linked polypropylene (XLPE) from 10/11 kV or 20/22 kV cables with the following cross-sectional areas: 25, 35, 50, 70, 95, 120, 150, 185, and 240 mm².

- Include tool holder briefcase.



Code	Ref.	Working range	Tool dimensions	Briefcase dimensions	Tool weight	Briefcase weight
400023	CSML-25/240	20 kV	234x122x46 mm	440x360x125 mm	0.35 kg (handle + a peeling head)	0.6 kg





### 20105 CSML-H Cable stripper for main layer (Handle only)

The tool is designed to remove the insulation of ethylene propylene rubber (G7) or cross-linked polypropylene (XLPE) from 10/11 kV or 20/22 kV cables with the following cross-sectional areas: 25, 35, 50, 70, 95, 120, 150, 185, and 240 mm<sup>2</sup>.

Code	Ref.	Working range	Tool dimensions	Briefcase dimensions	Tool weight	Briefcase weight
400013	CSML-H	20 kV	234x122x46 mm	440x360x125 mm	0.35 kg (handle + a peeling head)	0.6 kg

Code	Ref.	Working range	Use with CSML	Tool dimensions	Briefcase dimensions	Tool weight	Briefcase weight
400014	CSML-I 25	20 kV	25 mm <sup>2</sup>	234x122x46 mm	440x360x125 mm	0.35 kg (handle + a peeling head)	0.6 kg
400015	CSML-I 35		35 mm <sup>2</sup>				
400016	CSML-I 50		50 mm <sup>2</sup>				
400017	CSML-I 70		70 mm <sup>2</sup>				
400018	CSML-I 95		95 mm <sup>2</sup>				
400019	CSML-I 120		120 mm <sup>2</sup>				
400020	CSML-I 150		150 mm <sup>2</sup>				
400021	CSML-I 185		185 mm <sup>2</sup>				
400022	CSML-I 240		240 mm <sup>2</sup>				

## Tool for chamfering primary insulation



### 20105 TCML-60

The TCML-60 tool is vital to ensure cable safety, efficiency and durability, as well as to comply with electrical safety regulations. Application range: Ø 15 - 60 mm.

Recommended Use: Suitable for all types of primary insulation. Designed for precise chamfered cuts (3 x 45°) on medium voltage (MV) cables.

Secure positioning on the cable with a clamp system. Equipped with PTFE plates for smooth sliding on the cable, eliminating the need for silicone paste.

Replaceable blade for prolonged use. Maximum rotation diameter: 200 mm.

**Note:** Not intended for pencilling.

#### Included in the Set:

- TCML-60: Tool for chamfered cuts of primary insulation.
- Tool holder briefcase.

Code	Ref.	Cable Ø	Weight	Dimensions (mm)
400027	TCML-60	15-54 mm	0.39 kg	180x95x47



### 20105 TCA-76 Universal chain cutter for cable armor of Ø 20-76 mm

Chain cutter, made of steel. For stripping the armor of cables Ø 20-76 mm. Cuts very effectively, with just a quarter turn for a complete cut.

Code	Ref.	Weight	Dimensions (mm)
400005	TCA-76	0.58 kg	250x80x22

### KIT 1 MV-SP. Stripping tools MV cable with strippable semiconductor layer



### 20105 KIT 1 MV-SP

This kit of tools is designed for stripping medium voltage (MV) cables with a strippable semiconducting layer. Its operation is straightforward and efficient, ensuring proper cable preparation for electrical installation.

The standard kit includes:

- 400006 universal cable stripper for external insulation LV/MV.
- 400013 cable stripper for main layer.
- 400008 cable stripper for strippable semiconductor layer.
- 316000 scissors TS-50.
- 400016 insert CSML 50 mm².
- 400018 insert CSML 95 mm².
- 400020 insert CSML 150 mm².
- 400022 insert CSML 240 mm².
- 400029 grease tube.
- 410115 insulated knife 190 mm.
- 570140 hydroalcoholic towelette.
- High quality case with foam.

The case can accommodate up to eight inserts, with a selectable cross-section ranging from 25 mm² to 240 mm².

Code	Ref.	Weight	Dimensions (mm)
400030	KIT 1 MV-SP	3.5 kg	465x355x145



### KIT 2 MV-SN. Stripping tools MV Cable with non-strippable semiconductor layer



#### 20105 KIT 2 MV-SN

This kit of tools is designed for stripping medium voltage (MV) cables with a non-strippable semiconducting layer. Its operation is straightforward and efficient, ensuring proper cable preparation for electrical installation.

The standard kit includes:

- 400006 universal cable stripper for external insulation LV/MV.
- 400010 cable stripper for non-strippable semiconductor layer.
- 400024 cable stripper for main layer Ø 54 mm.
- 570140 hydroalcoholic towelette.
- 400029 grease tube.
- High quality case with foam.

Code	Ref.	Weight	Dimensions (mm)
400031	KIT 2 MV-SN	3.5 kg	465x355x145



### KIT 3 MV-A-SP. Stripping tools MV armoured cables with strippable semiconductor layer



#### 20105 KIT 3 MV-A-SP

This toolkit ensures high-quality work, facilitating the process of preparing cables for subsequent connection and use.

The standard kit includes:

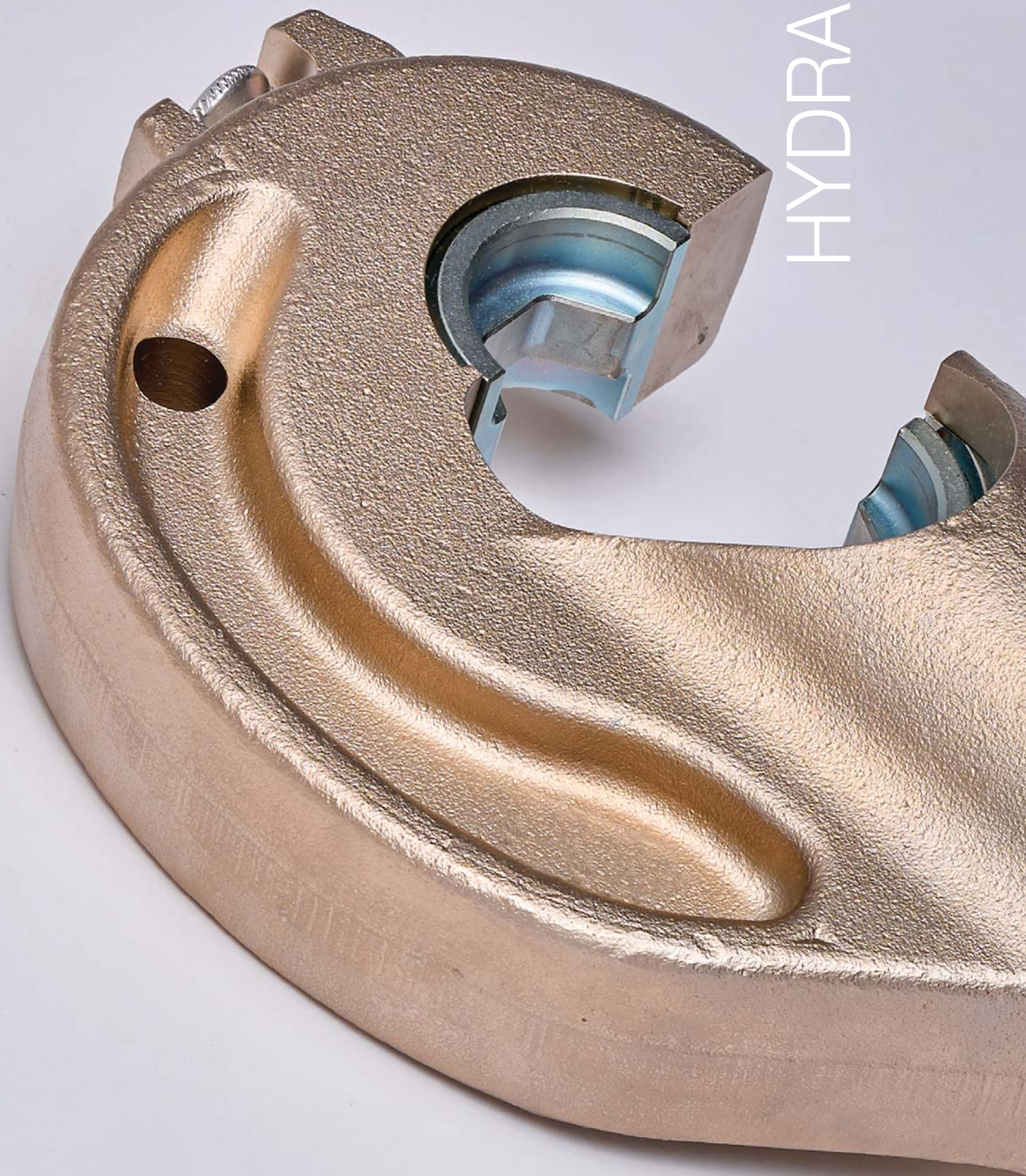
- 400006 universal cable stripper for external BT/MT insulation.
- 400008 wire stripper for peelable semiconductor layer Ø 16-41 mm.
- 400024 wire stripper for main layer Ø 54 mm.
- 400027 tool for chamfering the main layer Ø 15-60 mm.
- 570140 hydroalcoholic wipe.
- 400029 grease tube.
- 400005 universal chain cutter armed cable Ø 20-76 mm.
- High quality suitcase with foam.

Code	Ref.	Weight	Dimensions (mm)
400032	KIT 3 MV-A-SP	4.0 kg	465x355x145





# HYDRAULIC TOOLS







### Hydraulic crimping

#### 20201 EC-5

- The buckle-type design offers a blend of lightness and strength for quick installation and disassembly. Its rotating crimping head adapts to different angles effortlessly.
- A dual-speed hydraulic system with a built-in safety valve ensures fast, precise crimping. Automatic pressure release upon reaching preset levels ensures quality, speed, and operator safety.
- An external manual pressure relief valve allows for easy pressure release.
- The hydraulic valve, made from special steel, guarantees durability and longevity.
- Small size allows working in reduced spaces.
- Include tool holder briefcase.



Code	Ref.	Crimping force	Nominal Pressure	Tool dimensions	Briefcase dimensions	Tool weight	Briefcase weight
411000	EC-5	50 kN	60 MPa	380x130x65 mm	530x420x130 mm	2.7 kg	3.0 kg

#### Crimping range

Copper lugs	10-240 mm <sup>2</sup>
Thin-walled Al lugs	16-150 mm <sup>2</sup>
Crimpis (CRC, CRS, CRA)	up to 70 mm <sup>2</sup>

#### Available dies



**HD5 copper and aluminium cable lugs/butt-connectors and pin terminals by hexagonal compression**  
Copper: up to 240 mm<sup>2</sup>  
Aluminium: up to 150 mm<sup>2</sup>



**CDC5 copper and aluminium compression clamps by elliptical/circular compression**  
Up to 70 mm<sup>2</sup>



### Hydraulic crimping

#### 20201 EC-13C

- The C-shaped opening design enables swift crimping, making it easy to handle and position.
- 180° rotary head with quick opening.
- Incorporates audible safety valve that limit the maximum working force to 130KN.
- Two speeds: one fast to approach and one slow to crimp.
- The handle is designed with self-locking, to ensure that the tool is in a completely unpressurized state after use, which improves the service life.
- The hydraulic valve is made of special steel, sturdy and durable.
- Include tool holder briefcase.



Code	Ref.	Crimping force	Nominal Pressure	Tool dimensions	Briefcase dimensions	Tool weight	Briefcase weight
411001	EC-13C	130 KN	70 MPa	630x135x71 mm	875x340x130 mm	6.9 kg	3.5 kg

#### Crimping range

Copper lugs and splices	up to 400 mm <sup>2</sup>
Aluminium lugs and splices	up to 300 mm <sup>2</sup>
H type, C type clamps and bimetallic lugs (hexagonal crimp only)	up to 240 mm <sup>2</sup>

#### Available dies



**HD13 copper and aluminium cable lugs and butt-connectors by hexagonal compression**  
Copper: up to 400 mm<sup>2</sup>  
Aluminium: up to 300 mm<sup>2</sup>



**CD13 copper and aluminium Compression clamps by circular compression**  
Copper: Main and tap up to 185 mm<sup>2</sup>  
Aluminium: Main up to 300 mm<sup>2</sup> and tap up to 70 mm<sup>2</sup>



### Hydraulic crimping

#### 20201 EC-13U

- Universal head for all types of crimping, including deep stepped crimping.
- 180° rotary head with quick opening.
- Incorporates audible safety valve that limits the maximum working force to 130KN.
- Two speeds: one fast to approach and one slow to crimp.
- Include tool holder briefcase.

The EC-13U tool comes with the "C" adapter for hexagonal crimping. The rest of the adapters and dies are available separately.

Includes adapter to convert "H" head to "C" head.



Code	Ref.	Crimping force	Nominal Pressure	Tool dimensions	Briefcase dimensions	Tool weight	Briefcase weight
411002	EC-13U	130 kN	70 MPa	587x72x144 mm	875x340x130 mm	5.84 kg	3.5 kg

#### Crimping range

Copper lugs and splices	up to 400 mm <sup>2</sup>	Bimetallic lugs (Stepped deep punching)	up to 240 mm <sup>2</sup>
Aluminium lugs and splices	up to 300 mm <sup>2</sup>	H type, C type clamps	up to 240 mm <sup>2</sup>

#### Available dies



**HD13 copper and aluminium cable lugs and butt-connectors by hexagonal compression**  
Copper: up to 400 mm<sup>2</sup>  
Aluminium: up to 300 mm<sup>2</sup>



**CD13 copper and aluminium compression clamps by circular compression**  
Copper: up to 185 mm<sup>2</sup>  
Aluminium: main up to 300 mm<sup>2</sup> and tap up to 70 mm<sup>2</sup>



**MP-L/PP bimetallic cable lugs by deep punching compression**  
Up to 240 mm<sup>2</sup>



**MP-S/PP aluminium multi voltage joints by deep punching compression**  
Up to 240 mm<sup>2</sup>

**Note:** choose the adapter according to section, to be used together with the corresponding punch and die.





Hydraulic cutting

Suitable for cutting ACSR cable, copper, aluminum, steel wire, and steel rope up to Ø 45 mm

20201 ET-45

- Latch head with two blades design.
- Two stage pumping action.
- Automatic retraction when the maximum pressure is reached.
- Heated treated special steel for the blades.
- Light and compact structure.
- Cutting head with snap closure and blade guide, rotates 270°.
- Quick feed with double hydraulic cylinder.
- Automatic pressure safety valve.
- Manual return in any position.
- Include tool holder briefcase.

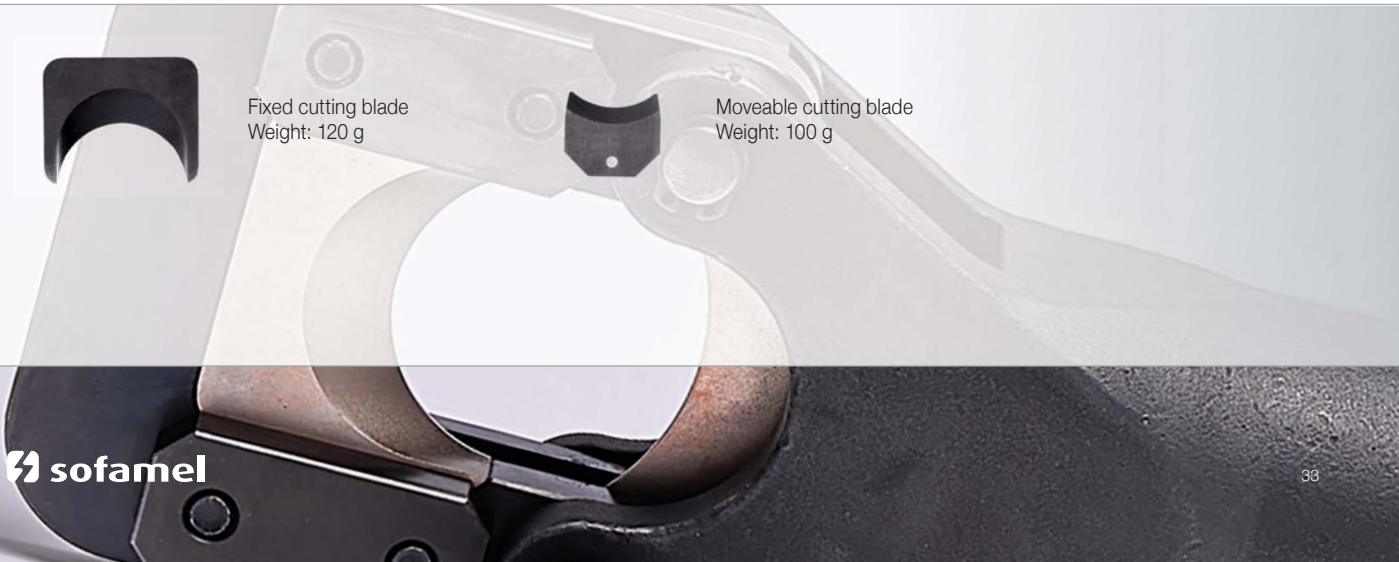


Code	Ref.	Nominal Pressure	Maximum cutting force	Tool dimensions	Briefcase dimensions	Tool weight	Briefcase weight
411004	ET-45	70 MPa	90 kN	646x152x75 mm	875x340x130 mm	6.25 kg	3.5 kg

Cutting range

ACSR, copper and aluminium	With a diameter less than 45 mm (≤1000 mm²)	Steel strand	150 mm² Ø 20 mm
----------------------------	---	--------------	-----------------

Spare blades



Fixed cutting blade  
Weight: 120 g

Moveable cutting blade  
Weight: 100 g



### Battery-powered hydraulic crimping tool

#### 20202 EBC-5



- 180 degree swivel head.
- 2-speed hydraulic system.
- Independently designed oil return system can safety retract without electricity.
- The trigger switch and return button are separately and activated by only one hand.
- Built-in chip, with memory function, can stop automatically when crimping is completed, realize intelligent crimping.
- The crimping cycle data is automatically stored on a memory card for transfer to PC via USB cable interface (Bluetooth available separately).
- OLED display provides battery capacity, operational and service crimping cycled, bluetooth information, etc.
- Automatic retraction when the maximum pressure is reached.
- LED lightning for work in dark environments.
- Rubber grip to have low noise and vibration.
- Include tool holder briefcase.



Battery type	Battery changer
18 V 4.0 Ah, Li-ion	ASC 55

Code	Ref.	Nominal Pressure	Maximum crimping force	Tool dimensions	Briefcase dimensions	Tool weight	Briefcase weight
412000	EBC-5	60 MPa	50 kN	325x313x94 mm	670x470x135 mm	4.6 kg (incl. battery)	4.5 kg

#### Crimping range

Copper lugs	10-240 mm <sup>2</sup>
Thin-walled Al lugs	16-150 mm <sup>2</sup>
Crimpis (CRC, CRS, CRA)	up to 70 mm <sup>2</sup>

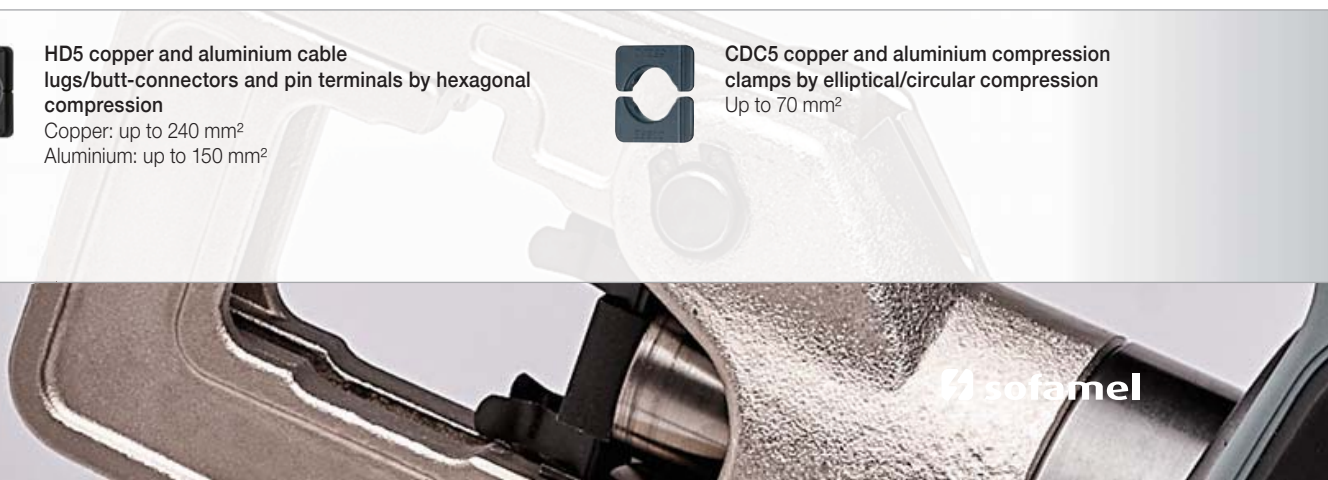
#### Available dies



**HD5 copper and aluminium cable lugs/butt-connectors and pin terminals by hexagonal compression**  
Copper: up to 240 mm<sup>2</sup>  
Aluminium: up to 150 mm<sup>2</sup>



**CDC5 copper and aluminium compression clamps by elliptical/circular compression**  
Up to 70 mm<sup>2</sup>





### Battery-powered hydraulic crimping tool

#### 20202 EBC-13C



- C-shaped head that rotates 180 degrees.
- 2-speed hydraulic system.
- Independently designed oil return system can safety react without electricity.
- The trigger switch and return button are separately and activated by only one hand.
- Built-in chip, with memory function, can stop automatically when crimping is completed, realize intelligent crimping.
- Crimping cycle data is automatically stored on a memory card for transfer to PC by USB interface.
- OLED display provides information on battery capacity, crimping cycles, and service cycles.
- Automatic retraction when the maximum pressure is reached.
- LED lightning for work in dark environments.
- Rubber grip to have low noise and minimal vibration.
- Include tool holder briefcase.



Battery type	Battery changer
18 V 4.0 Ah, Li-ion	ASC 55

Code	Ref.	Nominal Pressure	Maximum crimping force	Tool dimensions	Briefcase dimensions	Tool weight	Briefcase weight
412001	EBC-13C	70 MPa	130 kN	385×325×95 mm	670×470×135 mm	7.7 kg (incl. battery)	4.5 kg

#### Crimping range

Copper terminals and sleeves	up to 400 mm <sup>2</sup>
Aluminium terminals and sleeves	up to 300 mm <sup>2</sup>

#### Available dies



**HD13 copper and aluminium cable lugs and butt-connectors by hexagonal compression**  
 Copper: up to 400 mm<sup>2</sup>  
 Aluminium: up to 300 mm<sup>2</sup>  
 Bimetallic: up to 240 mm<sup>2</sup>



**CD13 copper and aluminium compression clamps by circular compression**  
 Copper: main up to 185 mm<sup>2</sup> and tap up to 185 mm<sup>2</sup>  
 Aluminium: main up to 300 mm<sup>2</sup> and tap up to 70 mm<sup>2</sup>





### Battery operated insulated hydraulic crimping tool 22kV

#### 20202 EBC-13LW



- Ideal for operations in proximity to power sources, including substations, medium voltage lines, catenary systems, and other similar environments.
- The C-type head allows for crimping at various angles, adapting to diverse crimping needs.
- Equipped with both automatic and mechanical oil return systems (oil return without electricity), ensuring the safety of the equipment during power failures without affecting subsequent use.
- Enables data transmission between the tool and a host computer via Bluetooth or USB data cable connection.
- OLED screen, combined with touch buttons, provides real-time display of various tool states, enhancing operational intelligence.
- The housing contains rubber in its composition to minimize noise and vibrations.
- High-intensity LED lamp beads cover the entire crimping area, ensuring visibility for night work.
- Include tool holder briefcase.



Battery type	Battery changer
18 V 4.0 Ah, Li-ion	ASC 55

Code	Ref.	Nominal Pressure	Maximum crimping force	Tool dimensions	Briefcase dimensions	Tool weight	Briefcase weight
412002	EBC-13LW	70 MPa	130 kN	390x325x94 mm	670x470x135 mm	7.8 Kg (incl. battery)	4.5 kg

#### Crimping range

Copper cable terminals and splicing sleeves	400 mm <sup>2</sup>
Aluminium cable terminals and splicing sleeves	300 mm <sup>2</sup>

#### Available dies



**HD13 copper and aluminium cable lugs and butt-connectors by hexagonal compression**  
 Copper: up to 400 mm<sup>2</sup>  
 Aluminium: up to 300 mm<sup>2</sup>  
 Bimetallic: up to 240 mm<sup>2</sup>



**CD13 copper and aluminium compression clamps by circular compression**  
 Copper: main up to 185 mm<sup>2</sup> and tap up to 185 mm<sup>2</sup>  
 Aluminium: main up to 300 mm<sup>2</sup> and tap up to 70 mm<sup>2</sup>

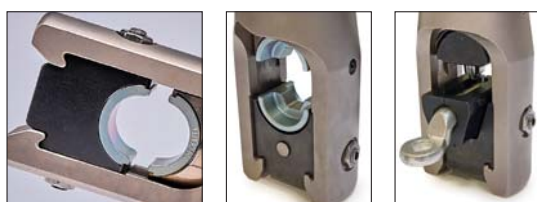




*New generation battery operated hydraulic crimping tool*

### 20202 EBC-13U

- Universal crimping head for all types of crimping, including deep staggered punch crimping.
- 180 degree swivel head.
- 2-speed hydraulic system.
- Independently designed oil return system can safety retract without electricity.
- The trigger switch and return button are separately and activated by only one hand.
- Built-in chip, with memory function, can stop automatically when crimping is completed, realize intelligent crimping.
- Crimping cycle data is automatically stored on a memory card for transfer to PC by USB interface or bluetooth.
- OLED display provides battery capacity, operational and service crimping cycled, bluetooth information, etc.
- Automatic retraction when the maximum pressure is reached.
- LED lightning for work in dark environments.
- Rubber grip to have low noise and minimal vibration.
- Include tool holder briefcase.



Battery type	Battery changer
18 V 4.0 Ah, Li-ion	ASC 55



Includes AD-13U/13C adapter to convert "H" head to "C" head.

Code	Ref.	Nominal Pressure	Maximum crimping force	Tool dimensions	Briefcase dimensions	Tool weight	Briefcase weight
412003	EBC-13U	70 MPa	130 kN	363x334x95 mm	670x470x135 mm	6.7 kg (incl. battery)	4.5 kg

Crimping range

Copper lugs and splices	400 mm <sup>2</sup>	Bimetallic lugs (Stepped deep punching)	240 mm <sup>2</sup>
Aluminium lugs and splices	300 mm <sup>2</sup>	H type, C type clamps	240 mm <sup>2</sup>

Available dies



**HD13 copper and aluminium cable lugs and butt-connectors by hexagonal compression**  
Copper: up to 400 mm<sup>2</sup>  
Aluminium: up to 300 mm<sup>2</sup>  
Bimetallic: up to 240 mm<sup>2</sup>



**CD13 copper and aluminium compression clamps by circular compression**  
Copper: Up to 185 mm<sup>2</sup>  
Aluminium: Main up to 300 mm<sup>2</sup> and tap up to 70 mm<sup>2</sup>



**MP-L/PP bimetallic cable lugs by deep punching compression**  
Up to 240 mm<sup>2</sup>



**MP-S/PP aluminium multi voltage joints by deep punching compression**  
Up to 240 mm<sup>2</sup>

**Note:** choose the adapter according to section, to be used together with the corresponding punch and die.



### Battery-powered hydraulic cutting tool

#### 20202 EBT-45

- The head is adjustable to facilitate cutting at various angles.
- The independently designed oil return system ensures safe retraction without reliance on electricity.
- A two-speed hydraulic system guarantees swift and high-quality cutting.
- Post-cutting, the section surface remains perfect without loose strands.
- Equipped with a built-in high-pressure safety valve, which automatically releases pressure when it reaches maximum levels, safeguarding both tools and operators.
- LED lighting enhances convenience and safety during cutting operations.
- Extra comfortable handling.
- Rubber grip to have low noise and minimal vibration.
- Include tool holder briefcase.



Battery type	Battery changer
18 V 4.0 Ah, Li-ion	ASC 55

Code	Ref.	Nominal Pressure	Maximum cutting force	Tool dimensions	Briefcase dimensions	Tool weight	Briefcase weight
412030	EBT-45	70 MPa	130 kN	460x325x95 mm	670x470x135 mm	8 kg (incl. battery)	4.5 kg

#### Cutting range

ACSR, copper and aluminium	With a diameter less than 45 mm ( $\leq 1000\text{mm}^2$ )
Steel strand	150 mm <sup>2</sup> Ø 20 mm

#### Spare blades



**Fixed cutting blade**  
Weight: 120 g



**Moveable cutting blade**  
Weight: 100 g



### Battery-powered hydraulic crimping tool, mini series

#### 20202 EBC-6M

- Suitable for crimping operations in confined spaces, such as electrical cabinets, narrow boxes, and similar environments.
- Very lightweight and easy to handle, this tool ensures maximum efficiency and comfort.
- Flip top style for easy access to the fittings.
- Head rotates 360-degree.
- Automatic pressure relief.
- External LED display, easy to read and record usage information.
- High performance, high capacity 18 V lithium battery with power display, equipped with fast charger.
- Two LED working lights help work easier in dark area.
- PP plastic housing and carrying case, sturdy and durable.
- Include tool holder briefcase.



Battery type	Battery changer
18 V 4.0 Ah, Li-ion	ASC 55

Code	Ref.	Nominal Pressure	Maximum crimping force	Tool dimensions	Briefcase dimensions	Tool weight	Briefcase weight
412004	EBC-6M	55 MPa	62 kN	415x125x90 mm	530x420x130 mm	2.99 kg (incl. battery)	4.5 kg

#### Crimping range

Copper tubular terminals and sleeves	up to 300 mm <sup>2</sup>
Aluminum tubular terminals and sleeves	up to 185 mm <sup>2</sup>

# Hydraulic Tools

## Mini battery powered crimping tool

CATALOGUE 2024



*Battery-powered hydraulic crimping tool, mini series, without dies*

### 20202 EBC-6SM

- No need to change dies; Crimping is carried out with the self-adjusting punch, which automatically adapts to the section of the cable used.
- Suitable for pressing operations in narrow spaces.
- Lightweight, fast pressing speed, easy to operate. All data can be easily read through the smart display. Connection to the computer via USB for convenient management of various parameters.
- The closed head is fully rotatable.
- High-performance, high-capacity 18V lithium battery with power display, equipped with Metabo brand fast charger.
- Two LED work lights help you work easier in dark areas.
- PP plastic shell, durable.
- Includes tool case.



Battery type	Battery changer
18 V 4.0 Ah, Li-ion	ASC 55

Code	Ref.	Nominal Pressure	Maximum crimping force	Tool dimensions	Briefcase dimensions	Tool weight	Briefcase weight
412007	EBC-6SM	55 MPa	60 kN	418x121x90 mm	530x420x130 mm	2.8 kg	4.5 kg

Crimping range

Copper terminal	10-300 mm <sup>2</sup>
Aluminum terminal	16-240 mm <sup>2</sup>





### Battery wire ratchet cutter

#### 20202 EBT-54

- It cuts the cable in seconds, without any effort, which optimizes time and significantly reduces the operator's working hours.
- Ensures a precise and clean cut that preserves the internal conductors, ensuring the integrity and functionality of the cable.
- Designed for class 1, 2 and 5 copper and aluminum cables; armored cable and ACSR cable.
- The blade, made of forged steel alloy and with a Specialized heat treatment, withstands prolonged and demanding use.
- With a rational, lightweight and portable design, it offers efficient functionality and effortless operation.
- Includes one Makita battery of 5.0 Ah and a fast charger of the same brand.
- Includes tool case.



Battery type	Charger power supply
DC 18 V 5.0 Ah 54 Wh Lithion-ion	AC 220 V 50-60 Hz

Code	Ref.	Nominal Pressure	Maximum cutting force	Tool dimensions	Briefcase dimensions	Tool weight	Briefcase weight
412006	EBT-54	54 MPa	62 kN	340x190x110 mm	450x400x150 mm	2.6 kg	1.8 kg

#### Cutting range

Copper cables, aluminum cables, armored cables, and ACSR cables	Up to 54 mm, $\leq 560 \text{ mm}^2$
---	--------------------------------------



### Hydraulic head 13T

#### 20203 CH-13C

- Hydraulic C type head with quick connection to a hydraulic drive with a maximum pressure of 700 bar.
- Made of specially treated sealed steel.
- Interchangeable dies.
- Include tool holder briefcase.

Available dies



**HD13 Copper and aluminium cable lugs and butt-connectors by hexagonal compression**  
Up to 400 mm<sup>2</sup> copper  
Up to 300 mm<sup>2</sup> aluminium  
Up to 240 mm<sup>2</sup> bimetallic



**CD13 Copper and aluminium Compression clamps by circular compression**  
Copper: Main up to 185 mm<sup>2</sup> and tap up to 185 mm<sup>2</sup>  
Aluminium: Main up to 300 mm<sup>2</sup> and tap up to 70 mm<sup>2</sup>

Code	Ref.	Crimping force	Rated pressure	Pump dimensions	Briefcase dimensions	Pump weight	Briefcase weight
413001	CH-13C	130 kN	700 bar	289x119x72 mm	450x370x120 mm	5.5 kg	2.5 kg



### Hydraulic head 13T

#### 20203 CH-13U

- Universal crimping head for all types of crimping, including deep stepped crimping.
- Made of specially treated steel.
- Flip-top head: Simplifies the positioning and insertion of the dies.
- Quick connection with lock.
- Comes with adapter for hexagonal crimping.
- Include tool holder briefcase.

Available dies



**HD13 Copper and aluminium cable lugs and butt-connectors by hexagonal compression**  
Up to 400 mm<sup>2</sup> copper, up to 300 mm<sup>2</sup> aluminium  
Up to 240 mm<sup>2</sup> aluminium



**CD13 Copper and aluminium Compression clamps by circular compression**  
Copper: Up to 185 mm<sup>2</sup>  
Aluminium: Main up to 300 mm<sup>2</sup> and tap up to 70 mm<sup>2</sup>



**MP-L/PP Bimetallic cable lugs by deep punching compression**  
Up to 240 mm<sup>2</sup>



**MP-S/PP Aluminium multi voltage joints by deep punching compression**  
Up to 240 mm<sup>2</sup>

Code	Ref.	Crimping force	Rated pressure	Pump dimensions	Briefcase dimensions	Pump weight	Briefcase weight
413000	CH-13U	130 kN	700 bar	248x93x76 mm	450x370x120 mm	3.5 kg	2.5 kg



### Universal hydraulic head 20T

#### 20203 CH-20P

- This 20-ton universal hydraulic head is designed for all types of crimping applications, including hexagonal, deep indent, and circular crimping.
- It accommodates all sections up to 630 mm<sup>2</sup> with the use of different adapters, ensuring versatile compatibility.
- Despite its powerful capabilities, the head is lightweight, easy to handle, and of exceptional quality.
- It comes with a convenient carrying case for easy transport and storage.

Available dies

**Hexagonal compression on copper or aluminum conductors**, under various regulations or specifications from 10 mm<sup>2</sup> to 630 mm<sup>2</sup>.

**Circular compression in copper and aluminum clamps**, like CRC, CRA and CRS, all ranges.  
Placed in round, to obtain a compact round shape.

**Deep stepped punching**, in bimetallic terminals and sleeves up to 630 mm<sup>2</sup>.

Code	Ref.	Crimping force	Rated pressure	Pump dimensions	Briefcase dimensions	Pump weight	Briefcase weight
413003	CH-20P	200 kN	700 bar	305x116x95 mm	450x370x120 mm	6 kg	2.5 kg



### Hydraulic head 25T

#### 20203 CH-25

- U-type crimping head, sturdy and durable.
- Pin-type for easy access to the fitting.
- Quick coupler for easy disassembly.
- Powered by a single-acting hydraulic pump.
- Light weight, suitable for overhead line work.
- Includes tool case.

Available dies

Adapter for transitioning to small sections 13T



**HD25 Hexagonal dies**  
Up to 630 mm<sup>2</sup> Cu



Code	Ref.	Crimping force	Rated pressure	Pump dimensions	Pump weight
413002	CH-25	250 kN	700 bar	360x130x130 mm	5 kg



### Hydraulic head 45T

#### 20203 CH-45

- U-type crimping head, sturdy and durable.
- Pin-type crimping head for easy access to the fitting.
- Quick coupler for easy disassembly.
- Powered by single acting hydraulic.
- Flat base, keep vertical level.
- Includes tool case.

Available dies



**HD45 Hexagonal dies**  
Up to 800 mm<sup>2</sup> Cu

Code	Ref.	Crimping force	Rated pressure	Pump dimensions	Pump weight
413004	CH-45	450 kN	700 bar	265x140x115 mm	11 kg

\* Available upon request



### Hydraulic head 60T

#### 20203 CH-60

- Ideal for ACSR overhead lines, splice sleeves, and clamps for power transmission lines from 110kV to 220 kV.
- The head features a fixed upper die seat that can be quickly rotated and opened, facilitating crimping operations on mid-span and end fittings.
- Equipped with a quick coupler for easy disassembly.
- Operates on a single-acting hydraulic system.
- Includes a steel carrying case.

Available dies



**HD60 Hexagonal dies**  
Cu/Al up to Ø 60 mm  
Stell up to Ø 26 mm

Crimping range

Copper and aluminium terminals				Ø 60 mm			
Steel terminals				Ø 26 mm			

Code	Ref.	Crimping force	Rated pressure	Pump dimensions	Briefcase dimensions	Pump weight	Briefcase weight
413005	CH-60	600 kN	700 bar	270x160x320 mm	295x220x350 mm	25 kg	4 kg

\* Available upon request





### Hydraulic head 60T

#### 2023 CH-60A

- Ideal for ACSR overhead lines, splicing sleeves, and strain clamps for 110 kV to 220 kV power transmission lines.
- The head features a fixed upper die seat that can be rotated and quickly opened, facilitating mid-span and end crimping operations.
- Equipped with a quick coupler for easy and swift disassembly.
- Operated by a single-acting hydraulic system.
- Include steel case.

Available dies



**HD60 Hexagonal dies**  
Cu/Al up to Ø 60 mm  
Stell up to Ø 26 mm

Crimping range

Copper and aluminium terminals				Ø 60 mm			
Steel terminals				Ø 26 mm			
Code	Ref.	Crimping force	Rated pressure	Pump dimensions	Briefcase dimensions	Pump weight	Briefcase weight
413008	CH-60A	600 kN	700 bar	240x220x450 mm	490x240x300 mm	20 Kg	4 Kg

\* Available upon request



### Hydraulic head 100T

#### 2023 CH-100

- Double acting hydraulic head, reducing piston reset time.
- Quick connector for easy disassembly.
- Ideal for ACSR overhead lines, tensile clamps for 110 kV and 200 kV underground cable sleeves.
- Includes steel case.

Available dies

**HD100**  
Cu/Al up to Ø 76 mm  
Stell up to Ø 36 mm

Crimping range

Copper and aluminium terminals				Ø 76 mm			
Steel terminals				Ø 36 mm			
Code	Ref.	Crimping force	Rated pressure	Pump dimensions	Pump weight		
413006	CH-100	1000 kN	700 bar	280x180x365 mm	31 kg		

\* Available upon request

# Hydraulic Tools

## Hydraulic heads and pumps

CATALOGUE 2024



### Battery-operated hydraulic tool

#### 20202 EB-7

The EB-7 is a hydraulic pump designed for crimping terminals and sleeves, standing out for its superior handling and time savings. This tool provides efficiency and ease of use for all crimping needs. Ideal for 13T heads. Head not included.



Code	Ref.	Rated pressure	Pump dimensions	Briefcase dimensions	Pump weight	Briefcase weight
412015	EB-7	700 bar	240x334x95 mm (hose not included)	670x470x135 mm	4.4 kg	4.5 kg



#### 20204 BH-700

Hydraulic pedal pump designed to operate hydraulic heads for both cutting and crimping.

- Includes a 3-meter high-pressure flexible hose with automatic lock.
- Automatic double-acting device.
- Operates with hydraulic heads at 700 bar pressure.
- Robust and aesthetic design.
- Includes a tool holder briefcase for easy transport and storage.



#### 20204 BH-700M

- Same configuration as BH-700.
- Includes a pressure gauge.
- Robust and aesthetic design.
- Includes a tool holder briefcase for easy transport and storage.



Code	Ref.	Rated pressure	Pump dimensions	Briefcase dimensions	Pump weight	Briefcase weight
415000	BH-700	700 bar	560x180x205 mm (hose not included)	705x200x215 mm	8.8 kg	5 kg
415001	BH-700M					

### Portable hydraulic pump operated by battery



#### 20204 BHM-7

Portable next-generation electrohydraulic pump, powered by a 24V 5.0 Ah Li-Ion battery for extended operation.

A full charge allows approximately 150 crimps of 120 mm<sup>2</sup> copper terminals.

##### Technical features:

- 1h fast charging
- Remaining battery power displayed after each crimp.
- Pressure release button to release pressure at any time.
- Automatic shut-off and pressure retention when reaching the maximum level.
- For heads up to 100T.

##### Including:

- 24V 5.0 Ah Battery
- Charger
- Wired controller
- 2 m hose with quick couplers
- Carrying backpack

Code	Ref.	Rated pressure	Voltage	Li-ion battery protection	Dimensions	Weight
415004	BHM-7	70 MPa / 700 bar	24 V	24 V / 5.0 Ah	391x335x162 mm	9.2 kg

\* Available upon request

#### 20204 BHM-7A

##### Enhanced Intelligent Functions:

- It includes an advanced crimping management system, configurable to monitor, transmit data, and track the work process in detail.
- An integrated pressure sensor monitors the process in real time, ensuring accuracy and efficiency. Data storage capacity supports up to 200,000 crimping records.
- The wireless remote control module allows operation at long distances, up to 50 meters without obstacles, providing flexibility and convenience.
- The integrated GPS positioning module offers real-time location tracking and information transmission via a 4G network, enhancing management and security. The temperature detection and alarm system monitors on the LCD panel and alerts the user with a specific pattern in case of failure, ensuring operational safety.

##### Including:

- 24 V, 5.0 Ah Battery
- Charger
- Wired controller
- 2 m hose with quick couplers
- Carrying backpack
- Remote controller

Code	Ref.	Rated pressure	Voltage	Li-ion battery protection	Dimensions	Weight
415002	BHM-7A	70 MPa / 700 bar	24 V	24 V / 5.0 Ah	391x335x162 mm	9.2 kg

\* Available upon request



### Remote cutting unit

#### 20203 KH-120LV

The KH-120LV Insulated Kit is suitable for cutting low, medium, and high voltage cables that may be accidentally energized (up to 220 kV), in order to prevent accidents during repair and maintenance work. It is equipped with a 10-meter long high-capacity dielectric flexible hose. The 24V/5.0Ah lithium battery ensures extended operating time.



##### Including:

- Insulated hydraulic pump
- Hydraulic cutting head
- Insulated hose of 10 meters
- Tool bag
- Remote controller

##### Safety:

An integrated safety valve automatically releases pressure when it reaches the maximum level, protecting both tools and operators.

##### Features:

- a. Automatic shutdown after cutting.
- b. Cutting operation reminder.
- c. Pump body includes an oil return button for manual control without electricity.

The hydraulic oil used is insulating hydraulic oil.

Code	Ref.	Cutting range	Rated pressure	Reservoir capacity	Oil circuit	Flow rate	Dielectric strenght	Oil hose lenght
430000	KH-120LV	Ø 120 mm	70 MPa / 700 bar	1.0 L	single action	0.6 L / min	220 kV	10 m

Dimension of pump	Power supply	Control mode	Carrying method
390x163x323 mm	24V 5.0 Ah	The remote control range reaches 50 meters without obstacles.	a. One handed b. On the shoulder c. Backpack

\* Available upon request

### Cutting head with insulated hose of 10 meters

#### 20203 CT-120M

The CT-120M head is suitable for cutting live cables (up to 220 kV) to prevent accidents during repair and maintenance work. It is equipped with a 10-meter long high-capacity dielectric flexible hose.



##### Including:

- Hydraulic cutting head
- Special insulating hose
- Tool bag



Code	Ref.	Cutting range	Operating voltage	Insulation hose length	Cutting head size	Weight
430001	CT-120M	Ø 120 mm	220 kV	10 m	556x185 mm	9.6 kg

\* Available upon request

# Hydraulic Tools

## Hydraulic heads and pumps

CATALOGUE 2024

### Double-acting electrohydraulic pump



#### 20204 BGD-8

Equipped with a pressure gauge to monitor working pressure at all times.

Automatically switches between high and low pressure as per job requirements to enhance efficiency.

Compatible with a wide range of hydraulic heads.

#### Including:

- Multifunctional operation handle
- 2 m hose with quick couplers

Bluetooth transmission

4G module transmit data through the network

Code	Ref.	Rated pressure	High pressure flow	Low pressure flow	Reservoir capacity	Dimension of Hydraulic pump	Hydraulic pump Weight
415003	BGD-8	80 MPa	1.2 L/min.	5-8 L/min.	≥2.3 L	582x372x395 mm	44 kg

\* Available upon request

## Accessories



#### 20205 Insulated hoses

Insulated hoses are used to connect hydraulic cutting or crimping heads to the hydraulic pump, ensuring safe distances and keeping the operator out of harm's way. These hoses provide essential protection and reliability for various hydraulic applications.

Code	Ref.	Length
413050	Insulated hoses	5 m
413100	Insulated hoses	10 m
413150	Insulated hoses	15 m

\* Available upon request

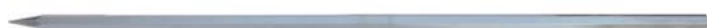


#### 30901 Earthing lead

Earthing lead featuring a lathe at one end and a reinforced terminal at the other. Specifically designed for grounding the cutting or crimping head, this essential component ensures a secure connection. Is connected to an earthing rod. With copper cable 25 mm<sup>2</sup> and 6 meters long.

Code	Ref.	Section	Length
667060	P-TR12-02506	25 mm <sup>2</sup>	6 m

### 30911 Hexagonal grounding rod



The ER-1Z hexagonal earthing rod is designed to be easily driven into the ground, with a pointed end that facilitates effortless insertion. Made of galvanized F-111 material, it ensures durability and reliable grounding performance.

Code	Ref.	Length
667150	ER-1Z	1 m

### 30911 Suitcase with wheels

Ideal for transporting hydraulic kits or earthing and short-circuiting devices. It ensures easy and convenient mobility, providing a reliable solution for safely moving equipment to various job sites..

Code	Ref.	Dimensions
620061	SOFABOX	855x577x400 mm



**Folding steel leg**  
Allow horizontal storage of the suitcase.



**Folding handles**  
The suitcase has handles on the top, bottom, and one side to make transport easy at all times.



**Robust wheels**  
The robust design of the wheels allows comfortable movement even on difficult-to-access terrain.





USE GUIDE FOR **DIES**















MANUFACTURER OF SAFETY AND CONNECTION MATERIAL

## USE GUIDE FOR **DIES**



### CRIMPING DIES - **SERIES 50**



#### CABLE LUGS AND TUBULAR CONNECTORS

DIE	COPPER									ALUMINIUM		
 HD5												
	T	TL	T45°	T90°	TT	TPE	CP	M	MAL	TBE	TBES	
Cross-section (mm²)	Ref. dies			Footprint width (mm)					Ref. dies	Footprint width (mm)		
10	HD5-07			7					-	-		
16	HD5-08								HD5-10		7	
25	HD5-10								HD5-11			
35	HD5-11								HD5-13			
50	HD5-13			5					HD5-14	5		
70	HD5-14								HD5-17		5	
95	HD5-17			5					HD5-18	7		
120	HD5-18								HD5-21		5	
150	HD5-20								HD5-25			
185	HD5-22								-		-	
240	HD5-25								-		-	

#### TDT CABLE LUGS





DIE	COPPER		
 HD5	 TDT		
Cross-section (mm²)	Ref. dies	Footprint width (mm)	
50	HD5-14	5	
70	HD5-14		
95	HD5-18		
120	HD5-20		
150	HD5-22		
185	HD5-22		

## USE GUIDE FOR **DIES**

### CRIMPING DIES - **SERIES 50**





#### RJU, BT, RBT, RJA, TBF, AND TBEM CONNECTORS AND CABLE LUGS

DIE	COPPER		ALUMINIUM / BIMETALLICS	
  <b>HD5</b>	 <b>RJU</b>		 <b>BT    RBT    RJA    TBF    TBEM</b>	
Cross-section (mm²)	Ref. dies	Footprint width (mm)	Ref. dies	Footprint width (mm)
25	HD5-20	5	HD5-20	5
35				
50				
70			HD5-25	-
95				
120	HD5-25	-	-	-
150			-	-
185	-	-	HD5-20	5
30				
56				
78			HD5-25	-
110				

#### BIMETALLIC CABLE LUGS TDC/S AND TDC/A

DIE			
  HD5	 TDC/S		
Cross-section (mm²)	Ref. dies	Footprint width (mm)	
16	-	-	
25			
35			
50	HD5-20	5	
70			
95			
120	HD5-25		
150			
30	HD5-20		
54,6			
56			
78			
80	HD5-25		
110			
145			

#### COMPRESSION CLAMPS














DIE				
 CDC5	 CRC                      CRA                      CRS			
Reference	Ref. dies	Footprint width (mm)		
CRC-3	CDC5-25	9		
CRC-4				
CRC-5				
CRC-6	CDC5-35			
CRC-7				
CRA-1				
CRS-1				
CRC-8	CDC5-70			
CRC-9				
CRA-2				
CRS-0				

## USE GUIDE FOR **DIES**




### CRIMPING DIES - **SERIES 60**



#### CABLE LUGS AND TUBULAR CONNECTORS

DIE	COPPER								ALUMINIUM		
  HD6											
	T	TL	T45°	T90°	TT	TPE	CP	M	MAL	TBE	TBES
Cross-section (mm²)	Ref. dies			Footprint width (mm)					Ref. dies	Footprint width (mm)	
10	HD6-07			7					-	-	
16	HD6-08								HD6-10		-
25	HD6-10			12					HD6-11	12	
35	HD6-11								HD6-13		
50	HD6-13			10					HD6-14	10	
70	HD6-14								HD6-17		9
95	HD6-17			9					HD6-18	8	
120	HD6-18			8					HD6-21	12	
150	HD6-20			6					HD6-25	5	
185	HD6-22								HD6-28		
240	HD6-25			5					-	-	
300	HD6-28										

#### TDT CABLE LUGS

DIE	COPPER		
  <b>HD6</b>	 <b>TDT</b>		
Cross-section (mm²)	Ref. dies	Compr. width (mm)	
50	HD6-14	10	
70			
95	HD6-18	8	
120	HD6-20	6	
150	HD6-22		
185			
240	HD6-28	5	






## USE GUIDE FOR **DIES**




### CRIMPING DIES - **SERIES 60**






#### RJU, BT, RBT, RJA, TBF, AND TBEM CONNECTORS AND CABLE LUGS

DIE	COPPER		ALUMINIUM / BIMETALLICS				
 HD6	 RJU		 BT      RBT      RJA      TBF      TBEM				
Cross-section (mm²)	Ref. dies	Footprint width (mm)	Ref. dies		Footprint width (mm)		
25	HD6-20	6	HD6-20		6		
35			HD6-20				
50			HD6-20				
70			HD6-20				
95			HD6-20				
120	HD6-25	5	HD6-25		5		
150			HD6-25				
185			-		-		
30	-	-	HD6-20		6		
56			HD6-20				
78			HD6-20				
110			HD6-25		5		

#### BIMETALLIC CABLE LUGS TDC/S AND TDC/A

DIE		
  <b>HD6</b>	 <b>TDC/S</b>	
Cross-section (mm <sup>2</sup> )	Ref. dies	Footprint width (mm)
16	-	-
25		
35		
50		
70	HD6-20	6
95	HD6-25	5
120		
150		
30	HD6-20	6
54,6		
56		
78		
80	HD6-25	5
110		
145		

#### COMPRESSION CLAMPS

DIE				
  <b>CDC6</b>	 <b>CRC      CRA      CRS</b>			
Reference	Ref. dies	Footprint width (mm)		
CRC-3	CDC6-25	5		
CRC-4				
CRC-5				
CRC-6	CDC6-35			
CRC-10	CDC6-95			
CRC-11				
CRC-12				
CRC-7	CDC6-35			
CRA-1				
CRS-1				
CRC-8	CDC6-70			
CRC-9				
CRA-2				
CRS-0				

## USE GUIDE FOR **DIES**

### CRIMPING DIES - **SERIES 130**



DIN STANDARD				
DIE	COPPER		ALUMINIUM	
  <b>MK-C</b>	 <b>TCD (DIN 46235)</b>		 <b>TBE/D (DIN 46329)</b>	
Cross-section (mm <sup>2</sup> )	Ref. dies	Footprint width (mm)	Ref. dies	Footprint width (mm)
10	MK6-C	7	-	-
16	MK8-C		-	-
25	MK10-C	12	MK12-C	12
35	MK12-C	14	MK14-C	
50	MK14-C	12	MK16-C	
70	MK16-C		MK18-C	
95	MK18-C		MK22-C	
120	MK20-C		MK25-C	10
150	MK22-C	10	MK28-C	
185	MK25-C		MK32-C	
240	MK28-C	7	MK34-C	7
300	MK32-C			




CABLE LUGS AND TUBULAR CONNECTORS				
DIE	COPPER		ALUMINIUM	
  <b>HD13</b>	 <b>T</b>		 <b>MAL</b>	
	 <b>TL</b>	 <b>T45°</b>	 <b>TBE</b>	 <b>TBES</b>
	 <b>T90°</b>	 <b>TT</b>		
	 <b>TPE</b>	 <b>CP</b>		
	 <b>M</b>			
Cross-section (mm <sup>2</sup> )	Ref. dies	Footprint width (mm)	Ref. dies	Footprint width (mm)
10	HD13-07	7	-	-
16	HD13-08		HD13-10	12
25	HD13-10	12	HD13-11	
35	HD13-11		HD13-13	
50	HD13-13		HD13-14	
70	HD13-14	12	HD13-17	12
95	HD13-17		HD13-18	
120	HD13-18		HD13-21	
150	HD13-20		HD13-25	
185	HD13-22	10	HD13-28	10
240	HD13-25		HD13-32	
300	HD13-28	10	HD13-34	7
400	HD13-32	7	-	-

## USE GUIDE FOR **DIES**





### CRIMPING DIES - **SERIES 130**



#### TDT CABLE LUGS

DIE	COPPER	
  <b>HD13</b>	 <b>TDT</b>	
Cross-section (mm²)	Ref. dies	Footprint width (mm)
50	HD13-14	12
70		
95		
120		
150	HD13-22	10
185		
240	HD13-28	7
300	HD13-32	
400	HD13-34	

#### COPPER AND ALUMINIUM CONNECTORS AND CABLE LUGS RJU, BT, RBT, RJA, TBF, AND TBEM




DIE	COPPER		ALUMINIUM / BIMETALLICS	
  <b>HD13</b>	 <b>RJU</b>		 <b>BT    RBT    RJA    TBF    TBEM</b>	
Cross-section (mm²)	Ref. dies	Footprint width (mm)	Ref. dies	Footprint width (mm)
25	HD13-20	12	HD13-20	12
35				
50				
70				
95	HD13-25	7	HD13-25	12
120			HD13-32	
150	HD13-32	-	HD13-20	7
185			HD13-25	
240	-	-	HD13-32	
30			HD13-20	
56			HD13-25	
78			HD13-32	
110				
180				

## USE GUIDE FOR **DIES**





### CRIMPING DIES - **SERIES 130**



#### BIMETALLIC CABLE LUGS TDC/S AND TDC/A HEXAGONAL CRIMPING

DIE			
  <b>HD13</b>	 <b>TDC/S</b>		
Cross-section (mm²)	Ref. dies	Footprint width (mm)	
50	HD13-20	12	
70			
95			
120			
150			
185	HD13-25		
240			
30	HD13-32		
54,6			
56			
78			
80			
110	HD13-20		
145			
180	HD13-25		
	HD13-32	7	

#### COMPRESSION CLAMPS

DIE								
  CD13	 CRC			 CRA                      CRS				
	Reference COPPER	Ref. dies	Footprint width (mm)	Reference ALUMINIUM	Ref. dies	Footprint width (mm)		
	CRC-3	CD13-25	35	CRS-0	CD13-70	35		
	CRC-4			CRA-2	CD13-35			
	CRC-5			CRS-1				
	CRC-6	CD13-35		CRA-1				
	CRC-7			CRS-3	CD13-120 AL			
	CRC-8	CD13-70		CRA-3				
	CRC-9			CRS-8				
	CRC-10			CRA-3A				
	CRC-11	CD13-95		CRS-9	CD13-300			
	CRC-12			CRA-4				
	CRC-13	CD13-150		CRS-10				
	CRC-14			CRS-11				
	CRC-15			CRS-12				
	CRC-16	CD13-300						








## USE GUIDE FOR **DIES**

### DEEP PUNCHING CRIMPING DIES ACCORDING TO UNE 211024-2 AND NF C33-090-1 STANDARDS - **SERIES 130**



#### TDC/S CABLE LUGS

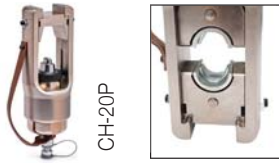
ADAPTER	DIE	PUNCH				
						
			<b>TDC/S</b>			
Cross-section (mm²)			Ref. adapters	Ref. dies	Ref. punches	Ref. brand
16			AD150	MP35L	PP35	0E
25						
35						
50				MP95L	PP95	1E
70						
95						
120			AD240	MP150L	PP150	2E
150						
185				MP240L	PP240	4E
240						





#### ALUMINIUM AND BIMETALLIC CONNECTORS AND CABLE LUGS




ADAPTER	DIES		PUNCH	ALUMINIUM				ALUMINIUM			
											
											
AD	MP-L	MP-S	PP	BT	RBT	TBF	TBEM	RJA			
Cross-section (mm²)				Ref. adapt.	Ref. dies	Ref. punches	Ref. brand	Ref. adapt.	Ref. dies	Ref. punches	Ref. brand
16				AD150	MP95L	PP95	1E	AD150	MP95S	PP95	1E
25											
35											
50											
70											
95											
120				MP150L	PP150	2E	MP150S		PP150	2E	
150											
185											
240				AD240	MP240L	PP240	4E		AD240	MP240S	PP240

## USE GUIDE FOR **DIES**

### HEXAGONAL CRIMPING DIES - **SERIES 200**

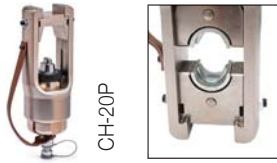







CABLE LUGS AND TUBULAR CONNECTORS			
DIES	ADAPTER	COPPER	
 HD13	 HD20	 AD-20T-13T HEX	 T TL T45° T90° TT TPE CP M
Cross-section (mm <sup>2</sup> )	Ref. adapters	Ref. dies	Footprint width (mm)
10	AD-20T-13T HEX	HD13-07	7
16		HD13-08	12
25		HD13-10	
35		HD13-11	
50		HD13-13	
70		HD13-14	
95		HD13-17	
120		HD13-18	
150		HD13-20	
185		HD13-22	
240		HD13-25	
300		HD13-28	10
400		HD13-32	7
500		HD20-38	17
630	-	HD20-44	





CABLE LUGS AND TUBULAR CONNECTORS			
DIE	ADAPTER	ALUMINIUM	
 HD13	 AD-20T-13T HEX	 MAL TBE TBES	
Cross-section (mm <sup>2</sup> )	Ref. adapters	Ref. dies	Footprint width (mm)
10	-	-	-
16	AD-20T-13T HEX	HD13-10	12
25		HD13-11	
35		HD13-13	
50		HD13-14	
70		HD13-17	
95		HD13-18	
120		HD13-21	10
150		HD13-25	
185		HD13-28	
240		HD13-32	7
300		HD13-34	

## USE GUIDE FOR **DIES**

### HEXAGONAL CRIMPING DIES - **SERIES 200**

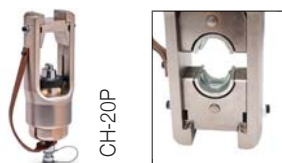


DIN STANDARD				
DIES	ADAPTER	COPPER		
 MK-C	 HD20	 AD-20T-13T HEX	 TCD (DIN 46235)	 MCD (DIN 46267)
Cross-section (mm²)	Ref. adapters	Ref. dies	Footprint width (mm)	
10	AD-20T-13T HEX	MK6-C	7	
16		MK8-C		
25		MK10-C	12	
35		MK12-C	14	
50		MK14-C		
70		MK16-C	12	
95		MK18-C		
120		MK20-C		
150		MK22-C		
185		MK25-C		
240		MK28-C	10	
300		MK32-C	7	
400	-	MK38-200	17	
500		MK42-200		

DIN STANDARD				
DIES	ADAPTER	ALUMINIUM		
 MK-C	 HD20	 AD-20T-13T HEX	 TBE/D (DIN 46329)	
Cross-section (mm²)	Ref. adapters	Ref. dies	Footprint width (mm)	
25	AD-20T-13T HEX	MK12-C	14	
35		MK14-C		
50		MK16-C	12	
70		MK18-C		
95		MK22-C		
120		MK25-C	10	
150		MK28-C		
185		MK32-C		
240		MK34-C	7	
300		MK38-200	17	
400		MK44-200		
500	-			

## USE GUIDE FOR **DIES**






### HEXAGONAL CRIMPING DIES - **SERIES 200**



#### RJU CONNECTOR

DIE	ADAPTER	COPPER		
 HD13	 AD-20T-13T HEX	 RJ45		
Cross-section (mm²)	Ref. adapters	Ref. dies	Compr. width (mm)	
25	AD-20T-13T HEX	HD13-20	12	
35				
50				
70				
95				
120		HD13-25	7	
150				
185				
240		HD13-32		

#### BT, RBT, RJA, TBF, TBEM, AND TDC CONNECTORS AND CABLE LUGS

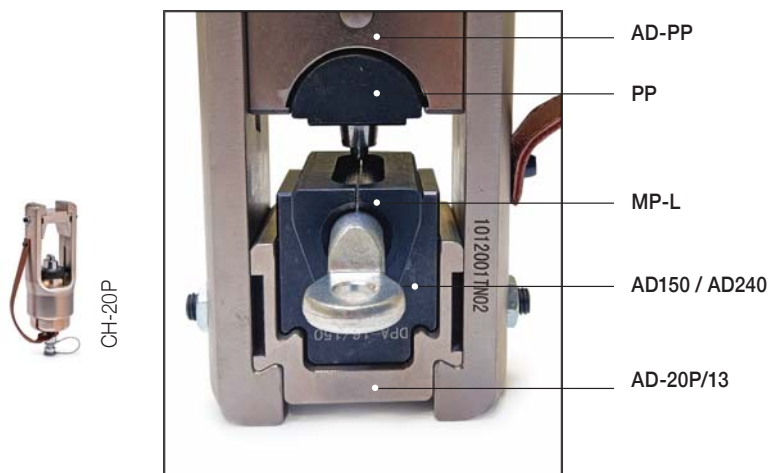
DIES		ADAPTER									
											
HD13	HD20	AD-20T-13T HEX	BT	RBT	RJA	TBF	TBEM		TDC/S	TDC/A	
Cross-section (mm²)			Ref. adapters	Ref. dies	Footprint width (mm)	Cross-section (mm²)	Ref. adapt.	Ref. hexagonal die	Footprint width (mm)		
25			AD-20T-13T HEX	HD13-20	12	25	AD-20T-13T HEX	-	-		
35						35					
50						50					
70						70					
95				95							
120				120							
150			HD13-25	150	HD13-25						
185			HD13-32	7	185	HD13-32	7				
240					240						
300					300						
400			-	17	400	-	HD20-40	17			
500					500	HD20-46					
30					30						
56			AD-20T-13T HEX	12	54,6	AD-20T-13T HEX	HD13-20	12			
78					56						
110					78						
180					80						
					110			HD13-25			
					145			HD13-32	7		
					180						










## USE GUIDE FOR **DIES**

### DEEP PUNCHING CRIMPING DIES

ACCORDING TO UNE 211024-2 AND NF C33-090-1 STANDARDS - **SERIES 200**



#### TDC/S AND TDC/A CABLE LUGS

ADAPTERS			DIE		PUNCH	
						
AD-20P/13	AD	AD-PP	MP-L	DPD	PP	DPP

#### BIMETALLICS



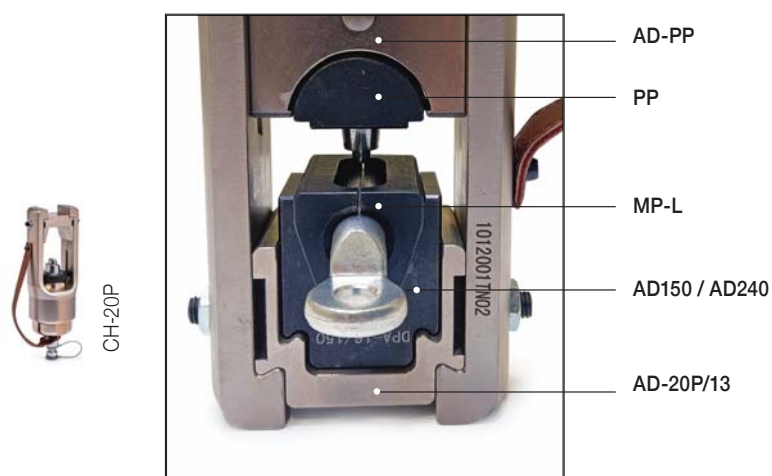
TDC/S

TDC/A

Cross-section (mm²)	Ref. adapters	Ref. adapters	Ref. deep punching dies	Ref. adapters	Ref. punches	Ref. mark
16	AD-20P/13	AD150	MP35L	AD-PP	PP35	0E
25			MP95L		PP95	1E
35						
50		AD240	MP150L	PP150	2E	
70						
95						
120		AD240	MP240L	PP240	4E	
150						
185						
240	-	DPA-300/630	DPD-300/400L	-	PP300/400	5E
300			-		DPP-500/630	6E
400						
500						
630			DPD-500/630L			

## USE GUIDE FOR **DIES**

### DEEP PUNCHING CRIMPING DIES ACCORDING TO UNE 211024-2 AND NF C33-090-1 STANDARDS - **SERIES 200**



#### BT, RBT, BF AND TBEM CONNECTORS AND TERMINALS

ADAPTERS			DIE		PUNCH	
						
AD-20P/13	AD	AD-PP	MP-L	DPD	PP	DPP

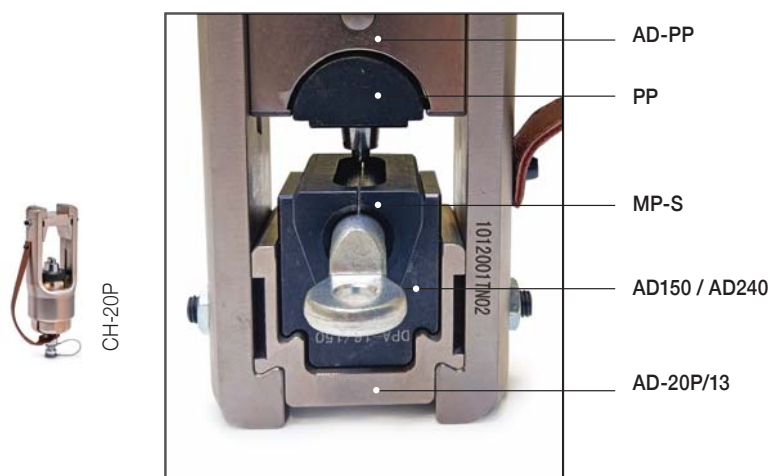
ALUMINIUM









Cross-section (mm²)	Ref. adapters	Ref. adapters	Ref. deep punching dies	Ref. adapters	Ref. punches	Ref. mark
16	AD-20P/13	AD150	MP95L	AD-PP	PP95	1E
25						
35						
50						
70						
95						
120		AD240	MP150L	PP150	2E	
150						
185						
240						
300	-	DPA-300/630	DPD-300/400L	-	PP300/400	5E
400						
500			-	-	-	
630			DPD-500/630L	-	DPP-500/640	

## USE GUIDE FOR **DIES**

### DEEP PUNCHING CRIMPING DIES ACCORDING TO UNE 211024-2 AND NF C33-090-1 STANDARDS - **SERIES 200**



#### RJA CONNECTORS

ADAPTERS			DIE	PUNCH
   				
AD-20P/13	AD	AD-PP	MP-S	PP

ALUMINIUM







#### RJA

Cross-section (mm²)	Ref. adapters	Ref. adapters	Ref. deep punching dies	Ref. adapters	Ref. punches	Ref. mark
16	AD-20P/13	AD150	MP95S	AD-PP	PP95	1E
25						
35						
50		AD240	MP150S	AD-PP	PP150	2E
70						
95						
120		AD240	MP240S	AD-PP	PP240	4E
150						
185						
240	-	DPA-300/630	MP300S	-	PP300/400	5E
300						
400						
500	-	-	-	-	-	-

## USE GUIDE FOR **DIES**

### CIRCULAR DIES - **SERIES 200**














COMPRESSION CLAMPS							
DIE	ADAPTER						
 <b>CD13</b>	 <b>AD-20T-13T HEX</b>	 <b>CRC</b>			 <b>CRA CRS</b>		
Footprint width (mm)		Reference COPPER	Ref. adapters	Ref. dies	Reference ALUMINIUM	Ref. adapters	Ref. dies
35		CRC-3	AD-20T-13T HEX	CD13-25	CRS-0	AD-20T-13T HEX	CD13-70
		CRC-4			CRA-2		CD13-35
		CRC-5			CRS-1		
		CRC-6		CD13-35	CRA-1		
		CRC-7		CD13-70	CRS-3		
		CRC-8			CRA-3		CD13-120 AL
		CRC-9		CD13-95	CRS-8		
		CRC-10			CRA-3A		
		CRC-11			CRS-9		
		CRC-12		CD13-150	CRA-4		
		CRC-13			CRS-10		
		CRC-14			CRS-11		
		CRC-15			CRS-12		
		CRC-16		CD13-300			









## USE GUIDE FOR **DIES**

### HEXAGONAL AND CIRCULAR CRIMPING DIES - **SERIES 250**







CABLE LUGS AND TUBULAR CONNECTORS										
DIES		ADAPTER	COPPER							
										
HD13	HD25	AD-25H-13H	T	TL	T45°	T90°	TT	TPE	CP	M
Cross-section (mm²)			Ref. adapters	Ref. dies			Footprint width (mm)			
10			AD-25H/13H	HD13-07			7			
16				HD13-08						
25				HD13-10						
35				HD13-11						
50				HD13-13						
70				HD13-14						
95				HD13-17			12			
120				HD13-18						
150				HD13-20						
185				HD13-22						
240				HD13-25						
300				HD13-28			10			
400				HD13-32			7			
500			-	HD25-38			17			
630				HD25-44						

CABLE LUGS AND TUBULAR CONNECTORS					
DIE		ADAPTER			
					
HD13	MK	AD-25H-13H	MAL	TBE	TBES
Cross-section (mm²)		Ref. adapters	Ref. dies	Footprint width (mm)	
16		AD-25H/13H	HD13-10	12	
25			HD13-11		
35			HD13-13		
50			HD13-14		
70			HD13-17		
95			HD13-18		
120			HD13-21		
150			HD13-25		
185			HD13-28	10	
240			HD13-32	7	
300			MK34-230	17	

## USE GUIDE FOR **DIES**

### HEXAGONAL AND CIRCULAR CRIMPING DIES - **SERIES 250**







DIN STANDARD				
DIE	ADAPTER	COPPER		
 MK	 AD-25H-13H	 TCD (DIN 46235)	 MCD (DIN 46267)	
Cross-section (mm²)	Ref. adapters	Ref. dies	Footprint width (mm)	
10	AD-25H/13H	MK6-C	7	
16		MK8-C		
25		MK10-C	12	
35		MK12-C	14	
50		MK14-C	12	
70		MK16-C		
95		MK18-C		
120		MK20-C		
150		MK22-C		
185		MK25-C		
240		MK28-C	10	
300		MK32-C	7	
400	-	MK38-250	17	
500		MK42-250		












DIN STANDARD				
DIES	ADAPTER	ALUMINIUM		
  MK      HD25	 AD-25H-13H	 TBE/D (DIN 46329)		
Cross-section (mm²)	Ref. adapters	Ref. dies	Footprint width (mm)	
25	AD-25H/13H	MK12-C	14	
35		MK14-C	12	
50		MK16-C		
70		MK18-C		
95		MK22-C		
120		MK22-C		
150		MK25-C		
185		MK28-C	10	
240		MK32-C	7	
300		MK34-230	17	
400	-	MK38-250		
500		MK44-250		

## USE GUIDE FOR **DIES**

### HEXAGONAL AND CIRCULAR CRIMPING DIES - **SERIES 250**



COPPER RJU CONNECTORS				
DIE	ADAPTER	COPPER		
  <b>HD13</b>	 <b>AD-25H-13H</b>	 <b>RJU</b>		
Cross-section (mm <sup>2</sup> )	Ref. adapters	Ref. dies	Footprint width (mm)	
25	AD-25H/13H	HD13-20	12	
35				
50				
70		HD13-25		
95				
120		HD13-32	7	
150				
185				
240				





BT, RBT, RJA, TBF AND TBEM ALUMINIUM AND BIMETALLIC CONNECTORS AND CABLE LUGS				
DIES	ADAPTER	ALUMINIUM		
   <b>HD13</b>	 <b>AD-25H-13H</b>	 <b>BT</b>		
  <b>HD25</b>		 <b>RBT</b>	 <b>RJA</b>	 <b>TBF</b>
			 <b>TBEM</b>	
Cross-section (mm <sup>2</sup> )	Ref. adapters	Ref. dies	Footprint width (mm)	
25	AD-25H/13H	HD13-20	12	
35				
50				
70		HD13-25		
95				
120		HD13-32	7	
150				
185				
240	-	HD25-40	17	
300				
400		HD25-46		
500	AD-25H/13H	HD13-20	12	
30				
56				
78		HD13-25		
110				
180		HD13-32	7	

## USE GUIDE FOR **DIES**







### HEXAGONAL AND CIRCULAR CRIMPING DIES - **SERIES 250**



#### BIMETALLIC CABLE LUGS TDC/S AND TDC/A

DIES		ADAPTERES	BIMETALLIC		
					
HD13	HD25	AD-25H-13H	TDC/S	TDC/A	
Cross-section (mm²)			Ref. adapters	Ref. dies	Footprint width (mm)
50			AD-25H/13H	HD13-20	12
70				HD13-25	
95				HD13-32	
120					7
150					
185			-	HD25-40	26
240				HD25-46	
300					
400					
500					
30					
54,6					
56			AD-25H/13H	HD13-20	12
78					
80					
110				HD13-25	7
145				HD13-32	
180					

#### COMPRESSION CLAMPS

DIES		ADAPTER						
						 		
CD13	HD25	AD-25H-13H	CRC			CRA	CRS	
Compr. width (mm)			Ref. COPPER	Ref. adapters	Ref. dies	Ref. ALUMINIUM	Ref. adapters	Ref. dies
35			CRC-3	AD-25H/13H	CD13-25	CRS-0	AD-25H/13H	CD13-70
			CRC-4			CRA-2		CD13-35
			CRC-5		CD13-35	CRS-1		
			CRC-6			CRA-1		
			CRC-7		CD13-70	CRS-3		CD13-120 AL
			CRC-8			CRA-3		
			CRC-9			CRS-8		
			CRC-10		CD13-95	CRA-3A		
			CRC-11			CRS-9		
			CRC-12		CD13-150	CRA-4		CD13-300
			CRC-13			CRS-10		
			CRC-14			CRS-11		
			CRC-15			CRS-12		
			CRC-16		CD13-300			



## USE GUIDE FOR **DIES**

### INDEX BY CODES

Code	Ref.	Code	Ref.	Code	Ref.
<b>DIES</b>					
401012	CDC5-25 25-25CU/35-1	402005	HD13-14 70CU/50AL	402026	MK32-C
401013	CDC5-35 35-35CU/AL	402006	HD13-17 95CU/70AL	447159	MK34-230
401014	CDC5-70 70-70CU/70-5	402007	HD13-18 120CU/95AL	20306001	MK42-250
407013	CDC6-25	402008	HD13-20 150CU	406001	MP-35L
407014	CDC6-35	402009	HD13-21 120AL	406003	MP-95L
407015	CDC6-70	402010	HD13-22 185CU/120AL	406004	MP-95S
407016	CDC6-95	402011	HD13-25 240CU/150AL	406006	MP-150L
402015	CD13-25	402012	HD13-28 300CU/185AL	406007	MP-150S
402016	CD13-35	402013	HD13-32 400CU/240AL	406010	MP-240L
402017	CD13-70	402014	HD13-34 300AL	406011	MP-240S
402018	CD13-95 CU	403005	HD20-40		
402019	CD13-150 CU	403006	HD20-46	<b>ADAPTERS</b>	
402020	CD13-120 AL	403001	HD25-38		
402021	CD13-300	447180	HD25-40	375000	AD-13U-13C
406014	DPD-300/400L	403002	HD25-42	406000	AD-150
401000	HD5-07 10CU	403003	HD25-44	406009	AD-240
401001	HD5-08 16CU	403004	HD25-46	406016	AD-20P/13
401002	HD5-10 25CU/16AL	407000	HD6-07	375001	AD-20T-13T HEX
401003	HD5-11 35CU/25AL	407001	HD6-08	403000	AD-25H/13H
401004	HD5-13 50CU/35AL	407002	HD6-10	375002	AD-PP
401005	HD5-14 70CU/50AL	407003	HD6-11	406013	DPA-300/630
401006	HD5-17 95CU/70AL	407004	HD6-13		
401007	HD5-18 120CU/95AL	407005	HD6-14	<b>PUNCHES</b>	
401008	HD5-20 150CU	407006	HD6-17		
401009	HD5-21 120AL	407007	HD6-18	406002	PP-35 0E
401010	HD5-22 185CU/120AL	407008	HD6-20	406005	PP-95 1E
401011	HD5-25 240CU/150AL	407009	HD6-21	406008	PP-150 2E
402000	HD13-07 10CU	407010	HD6-22	406012	PP-240 4E
402001	HD13-08 16CU	407011	HD6-25	406015	PP-400 5E
402002	HD13-10 25CU/16AL	407012	HD6-28		
402003	HD13-11 35CU/25AL	402022	MK12-C		
402004	HD13-13 50CU/35AL	402023	MK22-C		
		402024	MK25-C		
		402025	MK28-C		

sofamel

# sofamei







## INDEX BY CODES

Code	Ref.	Page	Code	Ref.	Page	Code	Ref.	Page
<b>MECHANICAL TOOLS</b>			400006	UCS-25-LV/MV	22	411002	EC-13U	32
316000	TS-50	06	400007	SB UCS-25 blade	22	411004	ET-45	33
316001	TS-70	06	400008	CSSL-40	23	415000	BH-700	46
316002	TS-95	07	400009	CSSL-40 blade	23	415001	BH-700M	46
380010	SF-36A	09	400010	CSNL-54	24	412000	EBC-5	34
380020	SF-60A	09	400011	SB CSNL-54 blade	24	412001	EBC-13C	35
380021	SF-6D	13	400013	CSML-H	26	412002	EBC-13LV	36
380022	SF-16D	13	400014	CSML-I 25	26	412003	EBC-13U	37
380023	SF-35D	13	400015	CSML-I 35	26	412004	EBC-6M	39
380024	SF-70	12	400016	CSML-I 50	26	412006	EBT-54	41
380025	SF-120	12	400017	CSML-I 70	26	412007	EBC-6SM	40
380026	SF-D10	19	400018	CSML-I 95	26	412030	EBT-45	38
380027	SF-D30	20	400019	CSML-I 120	26	413000	CH-13U	42
380028	SF-240	10	400020	CSML-I 150	26	413001	CH-13C	42
380029	SF-500	10	400021	CSML-I 185	26	413002	CH-25	43
380030	PL-6	19	400022	CSML-I 240	26	413003	CH-20P	43
380031	SF-10W	16	400023	CSML-25/240	25	413004	CH-45	44
380032	SF-35W	16	400024	CSML-54	24	413005	CH-60	44
380033	SF-MC4	17	400025	SB CSML-54 blade	24	413008	CH-60A	45
380034	SF-6J	17	400027	TCML-60	26	413006	CH-100	45
380035	SF-C	18	400030	KIT 1 MV-SP	27	413050	Insulated hoses	49
380037	SF-D30 blade	20	400031	KIT 2 MV-SN	28	413100	Insulated hoses	49
380120	SF-21	08	400032	KIT 3 MV-A-SP	28	413150	Insulated hoses	49
380130	SF-30	08	400110	SF-38	20	415002	BHM-7A	47
380140	SF-31	08	405100	SF-39	21	415003	BGD-8	49
385015	SF-P70	11	600165	BP-7/18	07	415004	BHM-7	47
385020	SF-P150	11	20106001	SF-LC	21	430000	KH-120LV	48
390100	SF-6	15				430001	CT-120M	48
390125	SF-42	14	<b>HYDRAULIC TOOLS</b>			620061	SOFABOX	50
390180	SF-55	15				667060	P-TR12-02506	49
395100	SF-5	18	411000	EC-5	30	667150	ER-1Z	50
400005	TCA-76	27	411001	EC-13C	31			

sofamel





