

# intercable

## TOOLS

General Catalog



[www.intercable-tools.com](http://www.intercable-tools.com)

QUALITY MADE IN ITALY AND GERMANY



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سازه گستر

CABLE CUTTING TOOLS



S.G.P

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الكترونيک - مکانیک - ابزار دقیق

PUNCHING TOOLS



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٠٢١-٦٦١٧٢٠٣٢

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## COPPER SHEET CABLE LUGS AND FERRULES



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COPPER SHEET CABLE LUGS DIN 46237 / 46234

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## COMPANY

Intercable Tools is one of the most significant producers of special tools as well as connection material for various sectors. Founded in 1972 as a trade company, the family business continued to develop and began producing insulated tools in 1986. Today, in addition to the headquarter in South Tyrol/Italy, we have branches in Germany, Austria, Central Eastern Europe and the Netherlands.

The Intercable Tools special tools are suitable for live working and are primarily used for processing low, medium and high voltage cables. Our portfolio of tools consists of six different product groups:

- Hand tools
- Stripping tools
- Cutting tools
- Crimping tools
- Punching tools
- Hydraulic pumps

Additionally, Intercable Tools has an extensive range of connection materials such as tubular cable lugs and other connectors.

We place great importance to a high level of vertical integration and produce our products in our own facilities in Italy and Germany. Thus, we

have full control over every single step and can guarantee the highest quality and reliability.

Quality at Intercable is more than a promise, it is a principle that we live by every day. Here, we work according to the "zero-error principle" – with this strategic orientation, we avoid generating rejects or having to rework bad parts. This is the only way we can meet our own requirements and those of our customers. It is a continuous process and requires the full commitment of our highly qualified staff.

We want to be an attractive and competitive family company, which focuses on innovation and customer satisfaction. It is our mission to remain independent, sustainable and humble and we want to keep orienting and aligning ourselves with our employees, suppliers and customers. We are committed to making our customers' work safer, easier and more professional.

The safety aspect is the main priority in our industry. State-of-the-art in-house production facilities ensure that the products that leave our plants, are compliant with the applicable safety standards and guidelines, thus guaranteeing safety for the user.

سازه گستر باي تخت  
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QUALITY

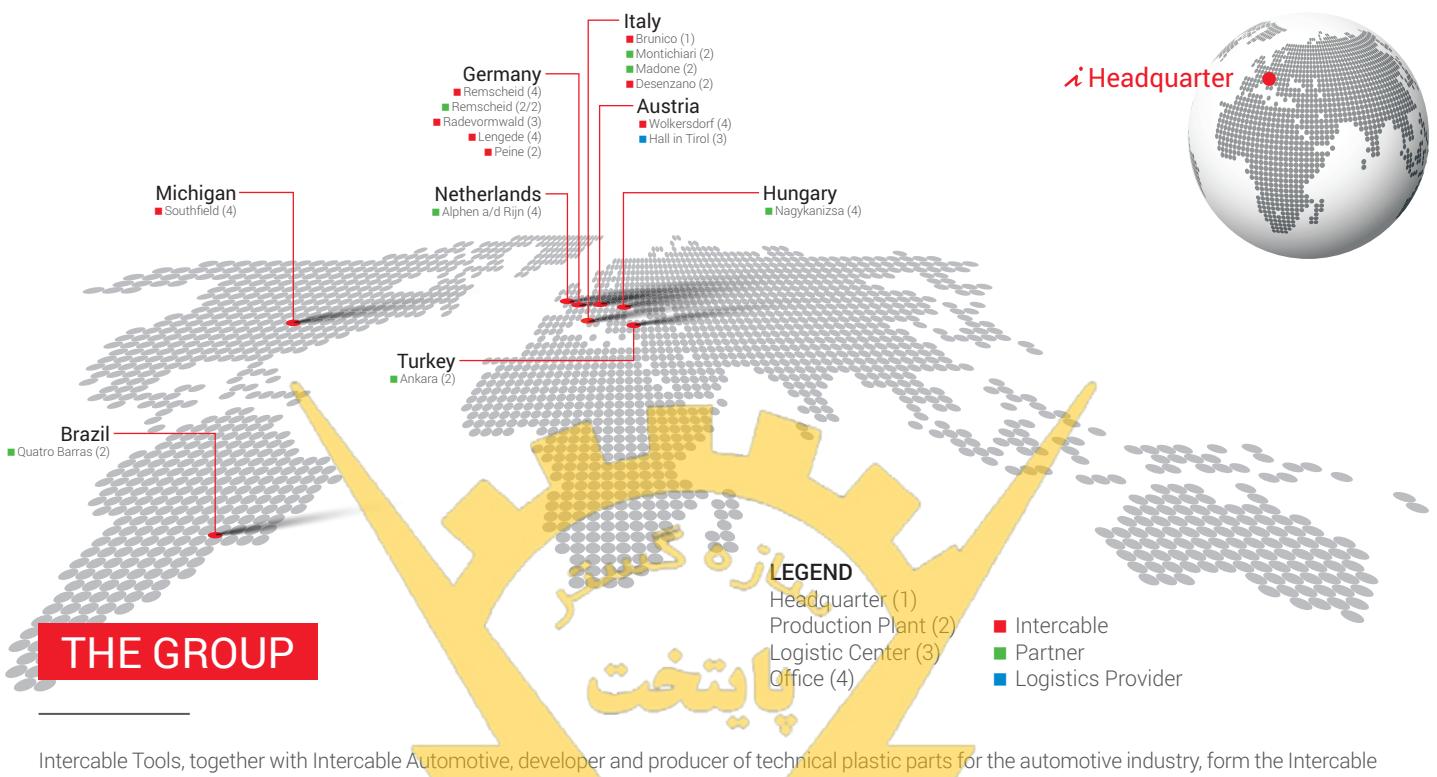


### INTERCABLE STANDS FOR HIGHEST QUALITY

Quality is lived by our employees, our business partners and our suppliers every day. Our products are developed by us and produced in our facilities in Italy and Germany – this distinguishes us and guarantees the highest level of quality. In addition, all our processes are continuously optimized so that we meet our own requirements and those of our customers. In doing so, we rely on efficient organization and quality management in accordance with various standards.

### TECHNOLOGY IS OUR PASSION

Ever since our founding in the 1970s our goal has been to provide workers from different industries with only the best tools and equipment. To ensure this, we have our own development department with highly experienced personnel which produces the most innovative technologies for our customers.



## THE GROUP

Intercable Tools, together with Intercable Automotive, developer and producer of technical plastic parts for the automotive industry, form the Intercable Group. As a modern company group, we strive for an optimal usage of synergies within the group. Intercable is represented globally with many different subsidiaries.



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

Different certificates confirm the quality of our work.

We hold the following quality certificates:

- ISO 9001 (Quality management system)
  - ISO 14001 (Environmental management system)
  - ISO 45001 (Occupational health and safety management system)
- as well as the VDE / IMQ / DGUV-Test / UL / CE / GS – certification.

Additionally, we are proud members of the CEI (Italian Committee for Electrical Engineering), the UNI (Italian Committee for Standardization) and various working groups of the European and International Standards Committee.

Our electrically insulated tools are isolated according to EN60900, which was prescribed by the European Committee for Standardization in 1993

and is mandatory in all countries of the European Union since 1999.

The norm prescribes a series of technical tests that must be performed on all insulated tools. Every single insulated tool that leaves our production facilities is tested for 1000V and 100% suitable for live working.

Insulated hand tools are made fully or partially of conductive material and are covered with insulating material. This protects the user from a possible electric shock.

Insulating hand tools are made entirely or essentially of insulating material, except for inserts made of conductive material (for the purpose of reinforcement), but without exposed conductive parts. This protects the user from a possible electric shock and prevents a short circuit between two parts with different electrical potential.

## MECHANIC CUTTING TOOLS - OVERVIEW

RATCHETING CUTTING TOOLS	1000 V	LENGTH	MAX. CUTTING DIAMETER	APPLICATION RANGE
	1000V	265 mm	Ø 32 mm	• Copper • Aluminium
	1000V	346 mm	Ø 32 mm	• ACSR (Aluminium + Steel)
	1000V	285 mm	Ø 54 mm	• Copper • Aluminium
	1000V	320 mm	Ø 54 mm	• Copper • Aluminium
	non insulated	320 mm	Ø 54 mm	• Copper • Aluminium

SEE PAGE 13

CUTTING HAND TOOLS	1000 V	LENGTH	MAX. CROSS SECTION	APPLICATION RANGE
	1000V	160 mm		• Copper • Aluminium • Hard and soft wires
	1000V	180 mm		• Copper • Aluminium • Hard and soft wires
	1000V	160 mm	50 mm <sup>2</sup>	• Copper • Aluminium
	1000V ISOplus	170 mm	50 mm <sup>2</sup>	• Copper • Aluminium
	1000V	200 mm	70 mm <sup>2</sup>	• Copper • Aluminium

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SCISSORS	www.sazehgostarsgp.com @sazehgostar_paytakht			
16020-F1	<ul style="list-style-type: none"> <li>Cutting Al, Cu cables up to 50 mm<sup>2</sup></li> <li>Stripping cables</li> <li>Crimping end-sleeves up to 4 mm<sup>2</sup></li> </ul>	<ul style="list-style-type: none"> <li>Universal sharp blade</li> <li>Replaceable standard blade</li> </ul>	<ul style="list-style-type: none"> <li>Specially hardened blade</li> <li>Shape of the blade is designed to strip cables without damaging the wires</li> </ul>	<ul style="list-style-type: none"> <li>Special ceramic blade</li> <li>Shape of the blade is designed to strip cables without damaging the wires</li> </ul>
Not suitable for work under voltage	1000V	1000V	1000V	1000V

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## HYDRAULIC CUTTING TOOLS - OVERVIEW

	CUTTING HEADS* SEE PAGE 20	HAND OPERATED SEE PAGE 14	BATTERY OPERATED SEE PAGE 16	CUTTING Ø MAX.	APPLICATION RANGE
SERIES 25	PS25	HS25	STILO-S25	Ø 25 mm	<ul style="list-style-type: none"> <li>• Steel</li> <li>• ACSR</li> <li>• Aluminium</li> <li>• Copper</li> </ul>
SERIES 26			STILO-S26	Ø 26 mm	<ul style="list-style-type: none"> <li>• Steel</li> <li>• ACSR</li> <li>• Aluminium</li> <li>• Copper</li> </ul>
SERIES 40			STILO-S40	Ø 40 mm	<ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Copper</li> </ul>
SERIES 45	PS45	HSI45	AS45	Ø 45 mm	<ul style="list-style-type: none"> <li>• Steel</li> <li>• ACSR</li> <li>• Aluminium</li> <li>• Copper</li> </ul>
SERIES 50	PS50	HSI50	STILO-S50F	Ø 50 mm	<ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Copper</li> <li>• Light armoured cables</li> </ul>
SERIES 54			STILO-S54	Ø 54 mm	<ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Copper</li> </ul>
SERIES 65	PS65		AS65	Ø 65 mm	<ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Copper</li> <li>• Light armoured cables</li> </ul>
SERIES 85	PS85	HSI85	AS85	Ø 85 mm	<ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Copper</li> <li>• Light armoured cables</li> </ul>
SERIES 95	PS95		AS95	Ø 95 mm	<ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Copper</li> <li>• Light armoured cables</li> </ul>
SERIES 120-2	PS120-2		AS120-2	Ø 120 mm	<ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Copper</li> <li>• Light armoured cables</li> </ul>
SERIES 120	PS120 (SK160)			Ø 120 mm	<ul style="list-style-type: none"> <li>• Aluminium</li> <li>• Copper</li> <li>• Heavy armoured cables</li> </ul>

\* Tool heads operated by hydraulic pumps, see page 9

\* Bigger cutting tools on request



## STRIPPING TOOLS - OVERVIEW



**سازه گستاخ**

پايتخت

S.G.P.

**سازه گستاخ پايتخت**

**قابل کنده ملزومات برق**

الکتریکال - مکانیکال - ابزار دقیق

٠٢١-٩٦١٧٢٠٣٢

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Multi tool sets are available too, check the QR code!

STRIPPING TOOLS FOR EXTERNAL INSULATION	STRIPPING TOOLS FOR SEMICONDUCTOR LAYERS	STRIPPING TOOLS FOR PRIMARY INSULATION
<p>AB16 (0,03 - 16 mm<sup>2</sup>)   PTS4 (0,2 - 6 mm<sup>2</sup>)   AV8203 (1,5 - 35 mm<sup>2</sup>)</p>	<p>FBS 17220 (Ø 10 - 52 mm vulcanized, bonded) FBS II (Ø 16 - 58 mm vulcanized) 17250 (17°) 17252 (8°) HLS AV6400 (Ø 16 - 41 mm non vulcanized)</p>	<p>IMS 20kV AV6310 (25 - 240 mm<sup>2</sup>) AV63300 (300 mm<sup>2</sup>), AV63400 (400 mm<sup>2</sup>) IMS II 17230 (Ø 15 - 52 mm) UFS 17240 (Ø 15 - 60 mm) IMS III 17260 (Ø 15 - 58 mm)</p>
<p>AMX 17300 (Ø 16 - 54 mm) AIS 17190 (Ø 16 - 54 mm)</p>	<p>FSI 150 17170 (16 - 150 mm<sup>2</sup>) FSI AE6200 (rigid, single 10 mm<sup>2</sup>, flexi 2,5-4-6 mm<sup>2</sup>)</p>	<p>Multi tool sets are available too, check the QR code!</p>
<p>1609076 (Ø 20 - 76 mm)</p>		

\* AMS 1000V and MAXI sizes versions are available too



Video playlist about the stripping tools



## HYDRAULIC PUMPS - OVERVIEW

Pump	Operation	Set equipment (pump + ...)
FPI70	Foot	<ul style="list-style-type: none"> <li>• Metal case</li> <li>• Pressure gauge</li> </ul>
FPI70S	Foot	<ul style="list-style-type: none"> <li>• Flexible hose 3m</li> <li>• Metal case</li> <li>• Pressure gauge</li> </ul>
FPI70 EC	Foot	<ul style="list-style-type: none"> <li>• Metal case</li> </ul>
FPI70S EC	Foot	<ul style="list-style-type: none"> <li>• Flexible hose 3m</li> <li>• Metal case</li> </ul>
CP700	<p>S.G.P</p> <p>Battery</p> <p>Main adapter available</p>	<ul style="list-style-type: none"> <li>• Battery and charger</li> <li>• Flexible hose 1,5 m</li> <li>• Remote control 1,5 m</li> <li>• USB-cable</li> <li>• Nylon bag with shoulder strap</li> </ul>
CP700 EC	<p>Battery</p> <p>Main adapter available</p>	<ul style="list-style-type: none"> <li>• Battery and charger</li> <li>• Flexible hose 1,5 m</li> <li>• Remote control 1,5 m</li> <li>• USB-Cable</li> <li>• Nylon bag with shoulder strap</li> </ul>
ANP24/220	<p>سازه گستر پایتخت</p> <p>Battery or Mains</p>	<ul style="list-style-type: none"> <li>• Remote control 5 m</li> <li>• Power cord 3 m</li> <li>• Shoulder strap</li> </ul>
NP220	<p>تمامین کنندہ ملزومات برق</p> <p>Mains</p>	<ul style="list-style-type: none"> <li>• Remote control 5 m</li> <li>• Power cord 3 m</li> </ul>
90404	<p>الکتریکال مکانیکال ایندا فیق</p> <p>Mains</p> <p>۰۶۰۱۷۲۰۳۲</p>	<ul style="list-style-type: none"> <li>• Remote control 5 m</li> <li>• Power cord 3 m</li> </ul>
90418	<p>Mains</p> <p>www.sazehgostar-sgp.com</p>	<ul style="list-style-type: none"> <li>• Remote control 5 m</li> <li>• Power cord 3 m</li> </ul>
90415	<p>Mains</p> <p>@sazehgostar_paytakht</p>	<ul style="list-style-type: none"> <li>• Remote control 5 m</li> <li>• Power cord 3 m</li> </ul>
91421	Mains	<ul style="list-style-type: none"> <li>• Remote control 5 m</li> <li>• Power cord 3 m</li> </ul>

SEE PAGE 33

SEE PAGE 32



## MECHANIC CRIMPING TOOLS - OVERVIEW

CRIMPING TOOLS	APPLICATION	CROSS SECTION	CRIMP FORM	FEATURE
MPIQ6	insulated terminals	0,5 - 6 mm <sup>2</sup>		ratcheting mechanic
MPAE16S	end-sleeves	0,08 - 16 mm <sup>2</sup>		ratcheting mechanic
MPAE16T	end-sleeves	0,14 - 16 mm <sup>2</sup>		ratcheting mechanic
PMT50	end-sleeves	10 - 50 mm <sup>2</sup>		ratcheting mechanic
MPAE50R	end-sleeves	10 - 50 mm <sup>2</sup>		ratcheting mechanic
MPAE95R	end-sleeves	50 - 95 mm <sup>2</sup>		ratcheting mechanic
PMCL16	uninsulated terminals	0,5 - 16 mm <sup>2</sup>		ratcheting mechanic
PM-TRE	insulated terminals uninsulated terminals end-sleeves	0,5 - 6 mm <sup>2</sup> 0,5 - 10 mm <sup>2</sup> 0,14 - 10 mm <sup>2</sup>		ratcheting mechanic
MPUSET-2	insulated terminals end-sleeves end-sleeves	0,5 - 6 mm <sup>2</sup> 0,14 - 2,5 mm <sup>2</sup> 4 - 16 mm <sup>2</sup>		ratcheting mechanic
MPR-1	I-series	6 - 50 mm <sup>2</sup>		revolving crimping dies
MPR-2	I-series	25 - 150 mm <sup>2</sup>		revolving crimping dies
MP60-1	depending on the inserted crimping dies *	6 - 240 mm <sup>2</sup>	depending on the inserted crimping dies *	interchangeable crimping dies *
MP60-3	depending on the inserted crimping dies *	6 - 240 mm <sup>2</sup>	depending on the inserted crimping dies *	interchangeable crimping dies *
MP60-2	depending on the inserted crimping dies *	6 - 300 mm <sup>2</sup>	depending on the inserted crimping dies *	interchangeable crimping dies *

\* Crimping dies for the MP60 mechanic presses:

for DIN-series Cu connectors: see page 47, for DIN-series Al (Al-Cu) connectors: see page 49, for I-series connectors see page 45



## HYDRAULIC CRIMPING TOOLS - OVERVIEW

	CRIMPING HEADS* SEE PAGE 28	HAND OPERATED SEE PAGE 22	BATTERY OPERATED SEE PAGE 24	CRIMPING SECTION MAX.	CRIMPING FORCE
SERIES 45				150 mm²	45 kN
SERIES 50				240 mm²	50 kN
SERIES 60-1/3				240 mm²	60 kN
SERIES VD				300 mm²	60 kN
SERIES 60-2/4				300 mm²	60 kN
SERIES 130-C			 head opening: 29 mm	400 mm²	130 kN
SERIE 130-C2			 head opening: 42 mm	400 mm²	130 kN
SERIES 130-H			 کامپکت - مکانیکال - ابزار دقیق	400 mm²	130 kN
SERIES 230	 PP230		 <a href="http://www.sazehgostarsgp.com">www.sazehgostarsgp.com</a>	630 mm²	230 kN
SERIES 520				1.000 mm²	520 kN
SERIES 600				1.600 mm²	600 kN

\* Tool heads operated by hydraulic pumps, see page 9

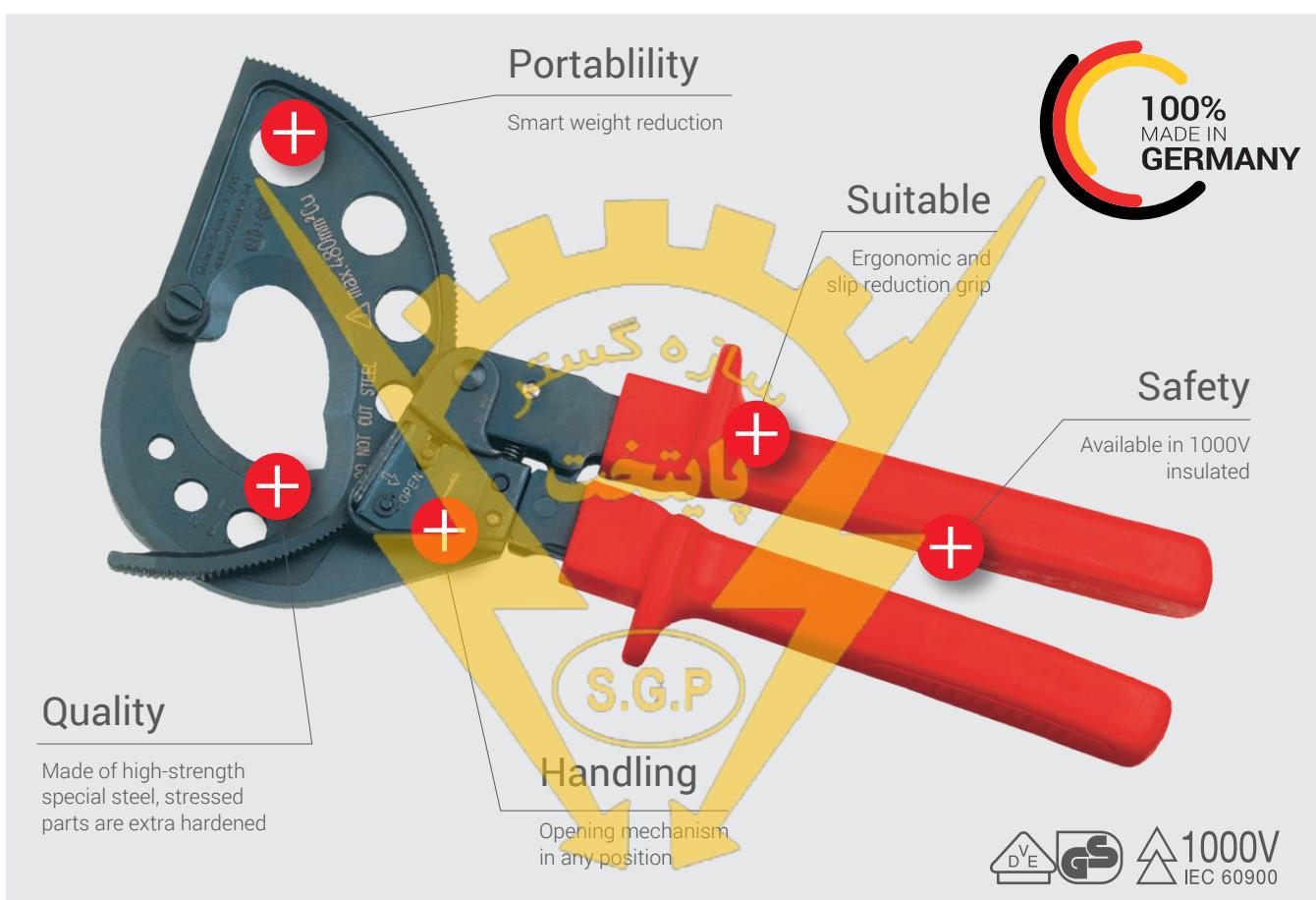
\* Bigger crimping tools on request

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#welovetools ساره و گستاخ پیغامت





Type illustration:  
1605032, 1607054, 1605054

### سازه گستر پایتخت

Ratchet cutter (Al/Cu) D32

APPLICATION RANGE	Ø 32 mm / 240 mm <sup>2</sup>
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SUGGESTED APPLICATION	Al and Cu
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**HS25**

**100% MADE IN ITALY**

**Sazeh Gostar Paytakht**

**Portable / Resistant**

Alu body for low capacity tools to give them lightness  
Steel body for bigger capacity tools

**Light**  
Lightweight body

**Versatile**  
Rotatable head

**Reliable**  
Precise and stable pressure safety valve

**Convenient**  
One hand release operation

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٠٢١-٦٦١٧٢٠٣٢

Hand hydraulic cutting tools - SET equipment:

- Report of the tests made on the concrete tool after the production
- Manual hydraulic cutting tool
- Rigid plastic case



## HAND HYDRAULIC CUTTING TOOLS

Hand hydraulic cutting tool Ø25 mm  
(Steel, ACSR, Aluminium, Copper)

Order No.	Description	Tool weight	Cutting force
HS25	Hand hydraulic cutting tool - set	2,9 kg	60 kN



پایتخت

کسٹر

Hand hydraulic cutting tool Ø45 mm  
(Steel, ACSR, Aluminium)

Order No.	Description	Tool weight	Cutting force
HSI45	Hand hydraulic cutting tool - set	5,7 kg	60 kN



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سازه کسٹر پایتخت

Hand hydraulic cutting tool Ø50 mm  
(Copper, Aluminium)

Order No.	Description	Tool weight	Cutting force
HSI50	Hand hydraulic cutting tool - set	5,1 kg	60 kN



۱۴۰۶-۶۶



HSI50F is available: specially designed to the flexible cable classes 5, 6

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HSI85

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Hand hydraulic cutting tool Ø85 mm  
(Copper, Aluminium)

Order No.	Description	Tool weight	Cutting force
HSI85	Hand hydraulic cutting tool - set	7,3 kg	70 kN

Sector of use:		Tensile strength N/mm <sup>2</sup>	<050 mm	<055 mm	<060 mm	<065 mm	<070 mm	<075 mm	<080 mm	<085 mm	<090 mm
Copper	Rope and cable	<410									
Aluminium	Rope and cable	<200									



### Accurate

Clean and straight cut thanks to new cutting geometry

### Head rotation

Cutting head endlessly rotatable, enables work in any position

### Efficient

Automatic opening after cutting process is completed, protects battery and device

### Intelligent

Readout of the cutting cycles via USB interface, integrated service management (from 20,000 cycles)

### Wear-resistant

Cutting blades in alloyed and hardened tool steel with special coating for wear reduction

### Resistant

Light and compact design  
Housing in impact resistant plastic

### Ergonomic

Effort-saving work  
and easy handling thanks to the balanced 2-component handle

### Multifunction LED

indicates information about the tool and the battery status

### Powerful

Powerful, replaceable 18V / 2,0 Ah Li-Ion battery with integrated battery management for even more work cycles

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Easy change and adjustment of the cutting blades

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To change the blades only and open-end wrench is needed for counterholding, so that you can loosen, remove or tighten the blades with a hexagon socket on the opposite side. Thanks to the soft rubber cover of the blades, you have easy access to the blade screws

### Less service intensive

The new design of the cutting head, in addition to the new internal design of the tool increases the service life and handling for the customer.

Stronger Cutting force

Thanks to the new innovative shape of the cutting blades, the force transmission to the cable is bigger. In addition, a larger piston is installed and generates a bigger Cutting force.

#### Stilo hydraulic cutting tools - SET equipment:

- Report of the tests made on the concrete tool after the production
- Battery-operated hydraulic cutting tool
- Battery 18 V/2,0 Ah Li-Ion (RA20)
- Battery charger (LG8)
- USB-cable
- Software (CD)
- Rigid plastic case



BATTERY OPERATED HYDRAULIC CUTTING TOOLS - STILO



سازه گستر پایتخت

CE

S.G.P



سازه گستر پایتخت

CE



CE



STILO-S50F

CE



STILO-S54

Battery operated hydraulic cutting tool Ø26 mm  
(Steel, ACSR, Aluminium, Copper)

Order No.	Description	Tool weight	Cutting force
STILO-S25	Hydraulic cutting tool S25 - set	3,7 kg	60 kN

Sector of use:		Tensile strength N/mm <sup>2</sup>	Ø 11 mm	Ø 13 mm	Ø 15 mm	Ø 17 mm	Ø 19 mm	Ø 21 mm	Ø 23 mm	Ø 25 mm
Copper	Rope and cable	<410								
	Bar	<250								
	Bar	<300								
Aluminium	Rope and cable	<200								
	Bar	<160								
	Aldrey	<340								
Alu/Steel	Cable	<340								
	Rope	<1800								
	Bar	<2200								
Steel	Rope	<600								
	Bar	<420								
	Rope (>200 wires)	<180								

Battery operated hydraulic cutting tool Ø26 mm  
(Steel, ACSR, Aluminium, Copper)

Order No.	Description	Tool weight	Cutting force
STILO-S26	Hydraulic cutting tool S26 - set	4,4 kg	44 kN

Sector of use:		Tensile strength N/mm <sup>2</sup>	Ø 11 mm	Ø 13 mm	Ø 15 mm	Ø 17 mm	Ø 19 mm	Ø 21 mm	Ø 23 mm	Ø 25 mm
Copper	Rope and cable	<410								
	Bar	<250								
	Bar	<300								
Aluminium	Rope and cable	<200								
	Bar	<160								
	Aldrey	<340								
Alu/Steel	Cable	<340								
	Rope	<1800								
	Bar	<2200								
Steel	Rope	<600								
	Bar	<420								
	Rope (>200 wires)	<180								

Battery operated hydraulic cutting tool Ø40 mm  
(Aluminium, Copper)

Order No.	Description	Tool weight	Cutting force
STILO-S40	Hydraulic cutting tool S40 - set	3,1 kg	29 kN

Sector of use:		Tensile strength N/mm <sup>2</sup>	Ø 20 mm	Ø 25 mm	Ø 30 mm	Ø 35 mm	Ø 40 mm
Copper	Rope and cable	<410					
Aluminium	Rope and cable	<210					

Stilo-S40: cable class 1, 2, 5

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Battery operated hydraulic cutting tool Ø50 mm / Ø54 mm  
(Aluminium, Copper)

Order No.	Description	Tool weight	Cutting force
STILO-S50F	Hydraulic cutting tool S50F - set	3,2 kg	26 kN
STILO-S54	Hydraulic cutting tool S54 - set	3,9 kg	32 kN

Sector of use:		Tensile strength N/mm <sup>2</sup>	Ø 20 mm	Ø 25 mm	Ø 30 mm	Ø 35 mm	Ø 40 mm	Ø 45 mm	Ø 50 mm
Copper	Rope and cable	<410							
Aluminium	Rope and cable	<210							

Stilo-S50F: specially designed to the flexible cable classes 5, 6

Stilo-S54: cable classes 1, 2, 5



CE



CE

### Reliability

Durable exterior and interior

### Head rotation

360° tool head turning

### Lighting

Integrated LED for illuminating the working area in poor light conditions

### Powerful

18V 3Ah Lithium-Ion battery for even more cuts during one battery life

### Service friendly

easily changable due to a modular design



### Comfortable

Attachment for shoulder strap



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### Ergonomic

Effortless working and easy handling due to equilibrated 2-component handle

#### Pistol grip hydraulic cutting tools - SET equipment:

- Report of the tests made on the concrete tool after the production
- Battery-operated hydraulic cutting tool
- Battery 18 V/3,0 Ah Li-Ion (RA50)
- Battery charger (LG8)
- Rigid plastic case
- Shoulder strap (TG2)



## BATTERY OPERATED HYDRAULIC CUTTING TOOLS - PISTOL SHAPE, HEAVY DUTY



AS25



AS45



AS50



AS55



AS85



AS95



AS120-2



### Pistol grip cutting tool Ø25 mm (Steel, ACSR, Aluminium)

Order No.	Description	Tool weight	Cutting force
AS25	Pistol grip hydraulic cutting tool - set	4,2 kg	60 kN

Sector of use:		Tensile strength N/mm <sup>2</sup>	Ø 11 mm	Ø 13 mm	Ø 15 mm	Ø 17 mm	Ø 19 mm	Ø 21 mm	Ø 23 mm	Ø 25 mm
Copper	Rope and cable	<410								
	Bar	<250								
	Bar	<300								
Aluminium	Rope and cable	<200								
	Bar	<160								
	Bar	<340								
Aldrey	Cable	<340								
Alu/Steel	Rope	<1800								
	Rope	<2200								
Steel	Bar	<420								
	Bar	<600								
	Rope (>200 wires)	<180								

### Pistol grip cutting tool Ø45 mm (Steel, ACSR, Aluminium)

Order No.	Description	Tool weight	Cutting force
AS45	Pistol grip hydraulic cutting tool - set	5,4 kg	60 kN

Sector of use:		Tensile strength N/mm <sup>2</sup>	Ø 9 mm	Ø 11 mm	Ø 13 mm	Ø 15 mm	Ø 17 mm	Ø 21 mm	Ø 25 mm	Ø 27 mm	Ø 31 mm	Ø 33 mm	Ø 35 mm	Ø 37 mm	Ø 39 mm	Ø 41 mm	Ø 43 mm	Ø 45 mm
Copper	Rope and cable	<410																
	Bar	<300																
	Bar	<250																
	Bar	<340																
Aluminium	Rope and cable	<200																
	Bar	<160																
Aldrey	Rope and cable	<340																
Alu/Steel	Rope	<1800																
	Rope	<2200																
Steel	Bar	<600																
	Bar	<420																
	Rope (>200 wires)	<180																

### Pistol grip cutting tool Ø50 mm (Aluminium, Copper)

Order No.	Description	Tool weight	Cutting force
AS50	Pistol grip hydraulic cutting tool - set	5,4 kg	60 kN

AS50F is available: specially designed to the flexible cable classes 5, 6

### Pistol grip cutting tool Ø65 mm (Aluminium, Copper)

Order No.	Description	Tool weight	Cutting force
AS65	Pistol grip hydraulic cutting tool - set	7,6 kg	44 kN

### Pistol grip cutting tool Ø85 mm (Aluminium, Copper)

Order No.	Description	Tool weight	Cutting force
AS85	Pistol grip hydraulic cutting tool - set	7,2 kg	70 kN

### Pistol grip cutting tool Ø95 mm (Aluminium, Copper)

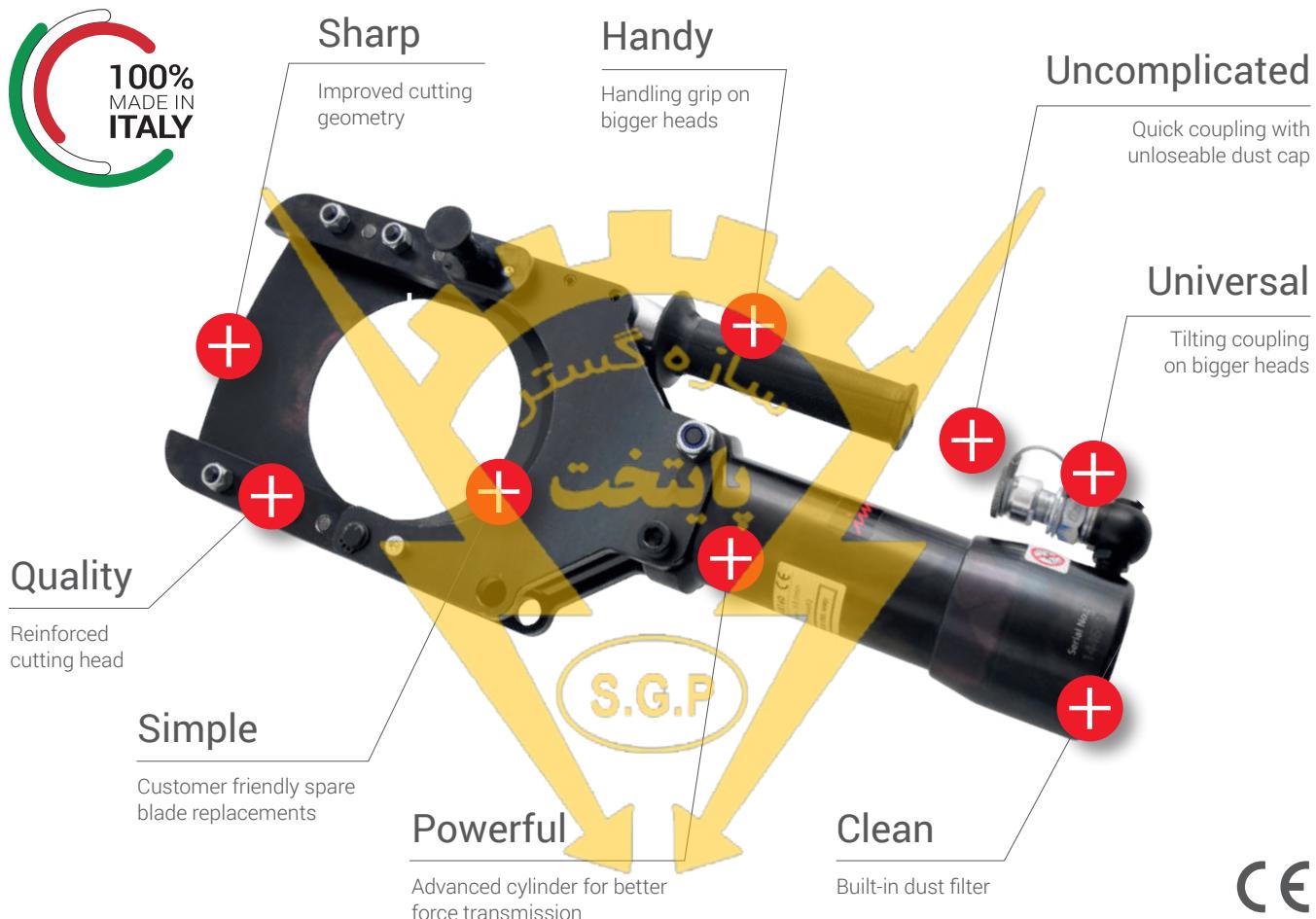
Order No.	Description	Tool weight	Cutting force
AS95	Pistol grip hydraulic cutting tool - set	9,8 kg	65 kN

### Pistol grip cutting tool Ø120 mm (Aluminium, Copper)

Order No.	Description	Tool weight	Cutting force
AS120-2	Pistol grip hydraulic cutting tool - set	10,5 kg	60 kN

Tool weight: the hydraulic cutting tool with the battery

## HYDRAULIC CUTTING HEADS



CE

### Hydraulic cutting heads - SET equipment:

- Hydraulic cutting head
- Rigid plastic / metal or soft nylon case

## سازه گستره پایتخت

### تمامین کننده ملزومات برق



PS25

CE



PS45

CE



### Hydraulic cutting head Ø25 mm (Steel, ACSR, Aluminium)

Order No.	Description	Tool weight	Cutting force
PS25	Hydraulic cutting head - set	1,9 kg	60 kN

Sector of use:		Tensile strength N/mm²	Ø11 mm	Ø13 mm	Ø15 mm	Ø17 mm	Ø19 mm	Ø21 mm	Ø23 mm	Ø25 mm
Copper	Rope and cable	<410								
	Bar	<250								
	Bar	<300								
Aluminium	Rope and cable	<200								
	Bar	<160								
	Bar	<340								
Aldrey	Cable	<340								
Alu/Steel	Rope	<1800								
	Rope	<2200								
	Bar	<420								
	Bar	<600								
Steel	Rope (>200 wires)	<180								

### Hydraulic cutting head Ø45 mm (Steel, ACSR, Aluminium)

Order No.	Description	Tool weight	Cutting force
PS45	Hydraulic cutting head - set	3,7 kg	60 kN

Sector of use:		Tensile strength N/mm²	Ø9 mm	Ø11 mm	Ø13 mm	Ø15 mm	Ø17 mm	Ø19 mm	Ø21 mm	Ø25 mm	Ø27 mm	Ø31 mm	Ø33 mm	Ø35 mm	Ø37 mm	Ø39 mm	Ø41 mm	Ø43 mm	Ø45 mm
Copper	Rope and cable	<410																	
	Bar	<300																	
	Bar	<250																	
Aluminium	Rope and cable	<340																	
	Bar	<200																	
	Bar	<160																	
Aldrey	Rope and cable	<340																	
	Bar	<1800																	
	Rope	<2200																	
Alu/Steel	Rope	<420																	
	Bar	<600																	
	Rope (>200 wires)	<180																	
	Bar	<420																	

## HYDRAULIC CUTTING HEADS



PS50



Hydraulic cutting head Ø50 mm (Aluminium, Copper)

Order No.	Description	Tool weight	Cutting force
PS50	Hydraulic cutting head - set	2,9 kg	60 kN

PS50F is available: specially designed to the flexible cable classes 5, 6



PS65



Hydraulic cutting head Ø65 mm (Aluminium, Copper)

Order No.	Description	Tool weight	Cutting force
PS65	Hydraulic cutting head - set	4,7 kg	44 kN



PS85



Hydraulic cutting head Ø85 mm (Aluminium, Copper)

Order No.	Description	Tool weight	Cutting force
PS85	Hydraulic cutting head - set	4,5 kg	70 kN



PS95



Hydraulic cutting head Ø95 mm (Aluminium, Copper)

Order No.	Description	Tool weight	Cutting force
PS95	Hydraulic cutting head - set	7,5 kg	65 kN

## سازه گسترش پایتخت



PS120-2



Hydraulic cutting head Ø120 mm (Aluminium, Copper)

Order No.	Description	Tool weight	Cutting force
PS120-2	Hydraulic cutting head - set	8,2 kg	60 kN



PS120



Hydraulic cutting head Ø120 mm (Aluminium, Copper)

Order No.	Description	Tool weight	Cutting force
PS120	Hydraulic cutting head - set	9,6 kg	100 kN

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PS120-SK160

Hydraulic cutting head Ø120 mm  
(for wire armoured aluminium and copper cables)

Order No.	Description	Tool weight	Cutting force
PS120-SK160	Hydraulic cutting head - set	11,0 kg	135 kN

## HAND HYDRAULIC CRIMPING TOOLS

### Versatile

Rotatable head



### Secure

Safety die-locking buttons

### Reliable

Precise and stable pressure release valve

### Portable / Resistant

Tough pump body for most kind of crimping applications



### Handy

Grip handle for one handed precise positioning



### Fast

Innovative quick feed with double hydraulic cylinder



### Convenient

One hand release operation



Hand hydraulic crimping tools - SET equipment:

- Report of the tests made on the tool after the production
- Manual hydraulic crimping tool
- Rigid plastic case for the tools and for crimping dies

سازه گسترش پایتخت



HPI130-H

دایمن کنندہ ملزومات برق  
الکتریکال - مکانیکال - ایزاردیجی



Dieless hand hydraulic crimping tool 400 mm<sup>2</sup>

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Order No.	Description	Tool weight
HPI130-C	Hand hydraulic crimping tool - set	6,6 kg
HPI130-C2	Hand hydraulic crimping tool - set	6,5 kg

CRIMPING SECTION	max. 400 mm <sup>2</sup>	CRIMPING FORCE	130 kN
JAW OPENING	C: 29 mm, C2: 42 mm	OPERATING PRESSURE	700 bar (70 MPa)

Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
	see page 47	see page 49	see page 45

Order No.	Description	Tool weight
HPI130-H	Hand hydraulic crimping tool - set	7,6 kg

CRIMPING SECTION	max. 400 mm <sup>2</sup>	CRIMPING FORCE	130 kN
MAXIMUM STROKE	30 mm	OPERATING PRESSURE	700 bar (70 MPa)

Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
	see page 47	see page 49	see page 45

## HAND HYDRAULIC CRIMPING TOOLS

HP50

Hand hydraulic crimping tool 240 mm<sup>2</sup>

Order No.	Description	Tool weight	
HP50	Hand hydraulic crimping tool - set	2,7 kg	
CRIMPING SECTION	max. 240 mm <sup>2</sup>	CRIMPING FORCE	50 kN
MAXIMUM STROKE	16 mm	OPERATING PRESSURE	700 bar (70 MPa)
Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors

series 50  
see page 47

see page 49

see page 45

HP60-3

Hand hydraulic crimping tool 240 mm<sup>2</sup>

Order No.	Description	Tool weight	
HP60-3	Hand hydraulic crimping tool - set	2,7 kg	
CRIMPING SECTION	max. 240 mm <sup>2</sup>	CRIMPING FORCE	60 kN
MAXIMUM STROKE	17 mm	OPERATING PRESSURE	700 bar (70 MPa)
Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors

series 50  
see page 47

see page 49

see page 45

HP60-4



## سازه گستر پایتخت

تمام گزینه های ملزومات برق

التریکال مکانیکال ابزار دقیق

۰۲۱-۶۶۱۷۰۳۲

Hand hydraulic crimping tool 300 mm<sup>2</sup>

Order No.	Description	Tool weight	
HP60-4	Hand hydraulic crimping tool - set	2,8 kg	
CRIMPING SECTION	max. 300 mm <sup>2</sup>	CRIMPING FORCE	60 kN
MAXIMUM STROKE	17 mm	OPERATING PRESSURE	700 bar (70 MPa)
Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors

series 60-2  
see page 47

see page 49

see page 45

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HP60-VD

Dieless hand hydraulic crimping tool 300 mm<sup>2</sup>

Order No.	Description	Tool weight	
HP60-VD	Hand hydraulic crimping tool - set	4,6 kg	
CRIMPING SECTION	16 - 300 mm <sup>2</sup>	CRIMPING FORCE	60 kN
		OPERATING PRESSURE	700 bar (70 MPa)

Removable die housing for easy maintenance

# STILO60



## Manageable

Rotating crimping head for optimal crimping in any position

## Ergonomic

Effortless working and easy handling thanks to equilibrate 2-component handle

## Powerful

18V 2,0 Ah Lithium-Ion battery for even more pressings during one battery life

## Automatic return

At the end of the crimping cycle

## Resistant

Light and compact design, Housing in impact resistant plastic

## Quiet

Extra silent moto

## Intelligent

indicates information about the tool and the battery status.

Readout of the data of the crimping cycles via USB interface, integrated service management

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Video Stilo60

### Stilo hydraulic crimping tools - SET equipment:

- Report of the tests made on the concrete tool after the production
- Battery-operated hydraulic crimping tool
- Battery 18 V/2,0 Ah Li-Ion (RA20)
- Battery charger (LG8)
- USB-cable
- Software (CD)
- Rigid plastic case for the tool and for the crimping dies



Battery operated hydraulic crimping tool 240 mm<sup>2</sup>

Order No.	Description	Tool weight
STILO50	Stilo hydraulic crimping tool - set	2,3 kg

CRIMPING SECTION	max. 240 mm <sup>2</sup>	CRIMPING FORCE	50 kN
MAXIMUM STROKE	16 mm	OPERATING PRESSURE	700 bar (70 MPa)

Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
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see page 47

see page 49

see page 45

Battery operated hydraulic crimping tool 300 mm<sup>2</sup>

Order No.	Description	Tool weight
STILO60	Stilo hydraulic crimping tool - set	3,3 kg

CRIMPING SECTION	max. 300 mm <sup>2</sup>	CRIMPING FORCE	60 kN
MAXIMUM STROKE	17 mm	OPERATING PRESSURE	700 bar (70 MPa)

Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
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see page 47

see page 49

see page 45

## سازه گستر پایتخت

تمامین کننده ملزومات برق

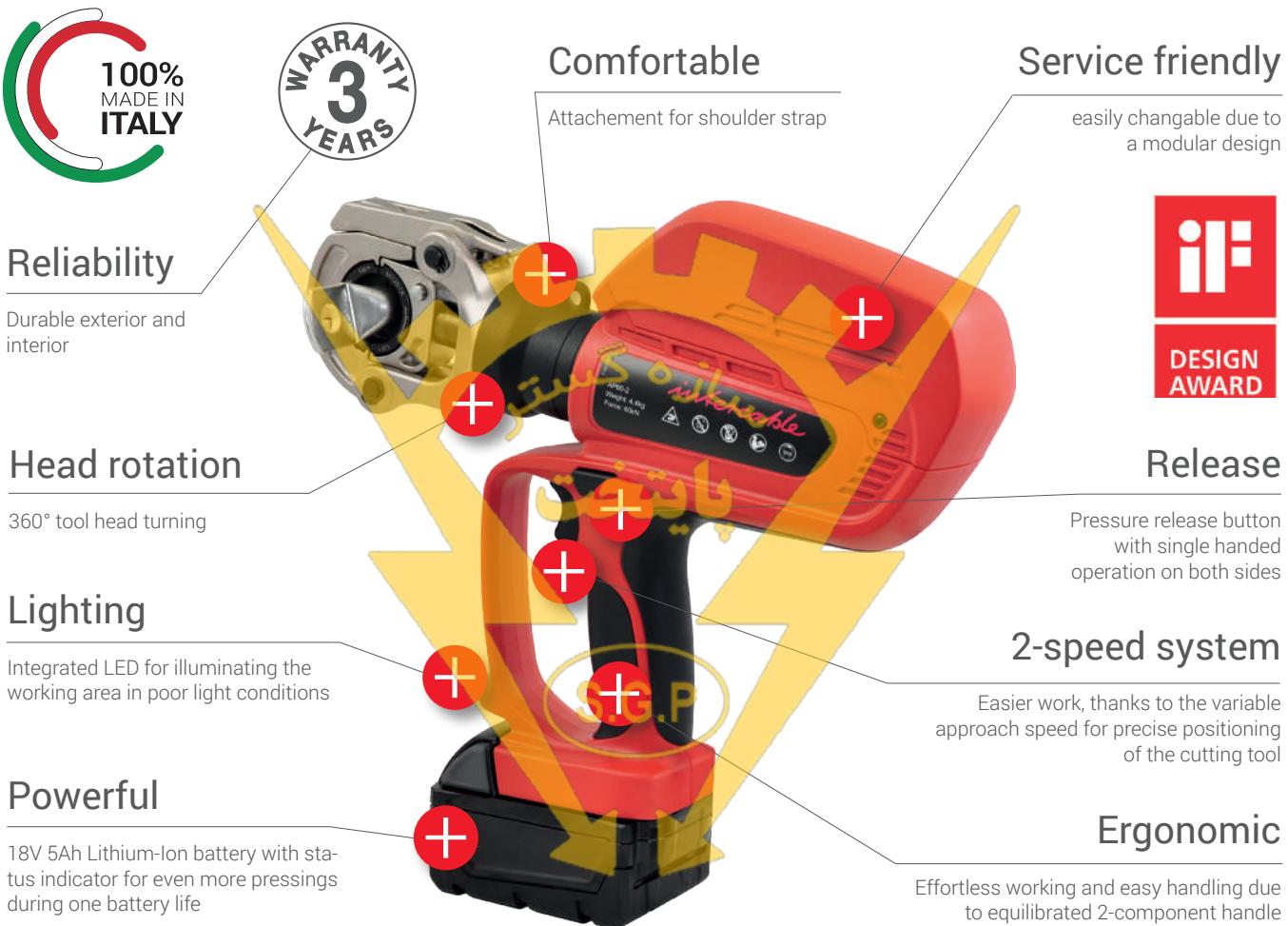
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## BATTERY OPERATED HYDRAULIC CRIMPING TOOLS - PISTOL SHAPE, HEAVY DUTY



### Pistol grip hydraulic crimping tools - SET equipment:

- Report of the tests made on the tool after the production
- Battery-operated hydraulic crimping tool

- Battery 18 V/5,0 Ah Li-Ion (RA50)
- Battery charger (LG8)

- Shoulder strap (TG2)
- Rigid plastic case for the tool and for the crimping dies



Pistol grip crimping tool 240 mm<sup>2</sup>

Order No.	Description	Tool weight
AP60-1	Pistol grip hydraulic crimping tool - set	4,3 kg

CRIMPING SECTION	max. 240 mm <sup>2</sup>	CRIMPING FORCE	60 kN
MAXIMUM STROKE	17 mm	OPERATING PRESSURE	700 bar (70 MPa)

Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
series 60-1	see page 47	see page 49	see page 45

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Pistol grip crimping tool 300 mm<sup>2</sup>

Order No.	Description	Tool weight
AP60-2	Pistol grip hydraulic crimping tool - set	4,4 kg

CRIMPING SECTION	max. 300 mm <sup>2</sup>	CRIMPING FORCE	60 kN
MAXIMUM STROKE	17 mm	OPERATING PRESSURE	700 bar (70 MPa)

Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
series 60-2	see page 47	see page 49	see page 45

BATTERY OPERATED HYDRAULIC CRIMPING TOOLS - PISTOL SHAPE, HEAVY DUTY



Pistol grip crimping tool 400 mm<sup>2</sup>

Order No.	Description	Tool weight	
AP130-C	Pistol grip hydraulic crimping tool - set	6,7 kg	
AP130-C2	Pistol grip hydraulic crimping tool - set	7,4 kg	
CRIMPING SECTION	max. 400 mm <sup>2</sup>	CRIMPING FORCE	130 kN
JAW OPENING	C: 29 mm, C2: 42 mm	OPERATING PRESSURE	700 bar (70 MPa)
Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
	see page 47	see page 49	see page 45



Video



Pistol grip crimping tool 400 mm<sup>2</sup>

Order No.	Description	Tool weight	
AP130-H	Pistol grip hydraulic crimping tool - set	6,2 kg	
CRIMPING SECTION	max. 400 mm <sup>2</sup>	CRIMPING FORCE	130 kN
MAXIMUM STROKE	30 mm	OPERATING PRESSURE	700 bar (70 MPa)
Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
	see page 47	see page 49	see page 45



سازه گسترش پایتخت



Dieless pistol grip crimping tool 300 mm<sup>2</sup>

Order No.	Description	Tool weight	
AP60-VD	Pistol grip hydraulic crimping tool - set	6,2 kg	
CRIMPING SECTION	16 - 300 mm <sup>2</sup>	CRIMPING FORCE	60 kN
	OPERATING PRESSURE	700 bar (70 MPa)	

Removable die housing for easy maintenance



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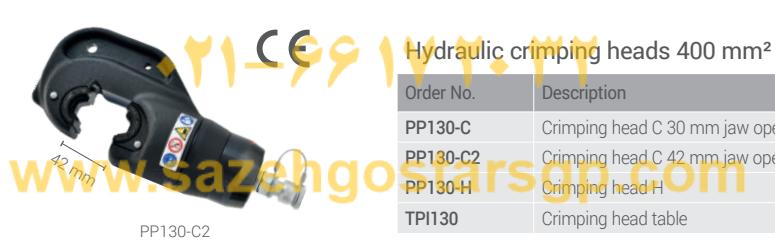
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## HYDRAULIC CRIMPING HEADS



### Hydraulic crimping heads - SET equipment:

- Hydraulic crimping head
- Rigid plastic / metal case for the tool and with places for crimping dies



Order No.	Description	Tool weight
PP130-C	Crimping head C 30 mm jaw opening	4,1 kg
PP130-C2	Crimping head C 42 mm jaw opening	4,4 kg
PP130-H	Crimping head H	3,4 kg
TPI130	Crimping head table	12 kg

CRIMPING SECTION OPERATING PRESSURE	max. 400 mm 700 bar (70 MPa)	CRIMPING FORCE	130 kN 700 bar (70 MPa)
MAXIMUM STROKE PP130-C	30 mm		
MAXIMUM STROKE PP130-C2	42 mm		
MAXIMUM STROKE PP130-H	30 mm		
MAXIMUM STROKE TPI130	36 mm		

Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors	for Cu I-series tubular connectors
series 130	see page 47	see page 49	see page 45

## HYDRAULIC CRIMPING HEADS



### Hydraulic crimping head 240 mm<sup>2</sup>

Order No.	Description	Tool weight
PP60-1	Crimping head	1,6 kg
CRIMPING SECTION	max. 300 mm	CRIMPING FORCE 60 kN
MAXIMUM STROKE	17 mm	OPERATING PRESSURE 700 bar (70 MPa)
Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors
series 60-1	see page 47	see page 49
	for Cu I-series tubular connectors	see page 45



### Hydraulic crimping head 300 mm<sup>2</sup>

Order No.	Description	Tool weight
PP60-2	Crimping head	1,7 kg
CRIMPING SECTION	max. 300 mm	CRIMPING FORCE 60 kN
MAXIMUM STROKE	17 mm	OPERATING PRESSURE 700 bar (70 MPa)
Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors
series 60-2	see page 47	see page 49
	for Cu I-series tubular connectors	see page 45



### Hydraulic crimping head 630 mm<sup>2</sup>

Order No.	Description	Tool weight
PP230	Crimping head	5,5 kg
CRIMPING SECTION	max. 630 mm <sup>2</sup>	CRIMPING FORCE 230 kN
MAXIMUM STROKE	28 mm	OPERATING PRESSURE 700 bar (70 MPa)
Crimping dies	for Cu DIN-series tubular connectors	for Al DIN-series tubular connectors
series 230	see page 47	see page 49
	for Cu I-series tubular connectors	see page 45

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### Hydraulic crimping head 1.000 mm<sup>2</sup>

Order No.	Description	Tool weight
PP520	Crimping head	13,2 kg
CRIMPING SECTION	max. 1.000 mm <sup>2</sup>	CRIMPING FORCE 520 kN
MAXIMUM STROKE	25 mm	OPERATING PRESSURE 700 bar (70 MPa)
Crimping dies	for Cu DIN-series tubular connectors	
series 520	see page 47	



### Hydraulic crimping head 1.600 mm<sup>2</sup>

Order No.	Description	Tool weight
PP600	Crimping head	17,0 kg
CRIMPING SECTION	max. 1.600 mm <sup>2</sup>	CRIMPING FORCE 600 kN
MAXIMUM STROKE	30 mm	OPERATING PRESSURE 700 bar (70 MPa)

\* Bigger Crimping Heads on request



### Control

Punching detection

### Reliable

An integrated pressure sensor increases the service life of the punching tool.

First service after 20.000 cycles

### Intelligent

Readout of the data of the punching cycles via USB interface, integrated service management

### Powerful

Powerful, replaceable 18V Li-Ion battery with integrated battery management for even more work cycles

### Flexible

Balanced centre of gravity for easy handling and effortless operations

### Manageable

High flexibility using 360° rotating head

### Resistant

Light and compact design

Housing in impact resistant plastic

### Ergonomic

Effort-saving work and easy handling thanks to balanced 2-component hand

### Quiet

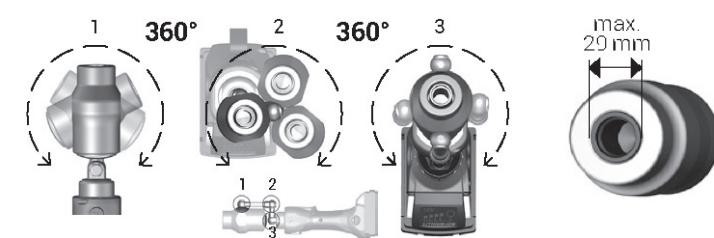
Extra silent motor

### Multifunction LED

indicates information about the tool and the battery status



Video Stilo-BL



**Set equipment:**

- Hand-operated hydraulic hole punching tool
- 1 draw stud 9.5 x 19.0 mm
- 1 draw stud 19.0 x 125.0 mm
- 1 spacer sleeve
- 1 tube of anti-wear paste
- 1 HSS-E step drill
- Operating instructions, safety and maintenance instructions
- Carrying case for the tool and accessories as well as 8 pairs of round hole inserts



HP60-BL

**Hand-operated hydraulic hole punching tool**

Order No.	Description	Tool weight
HP60-BL	Hand-operated hydraulic hole punching tool	4,2 kg
PUNCHING FORCE	60kN	
OPERATING PRESSURE	700 bar	

**Punching capacity (max. sheet thicknesses):**

- Up to Ø 63.5 mm: ..... 3.0 mm steel / 2.5 mm stainless steel
- Up to Ø 68.0 x 68.0 mm: ..... 3.0 mm steel / 1.5 mm stainless steel
- Up to Ø 92.0 x 92.0 mm: ..... 2.5 mm steel / 1.5 mm stainless steel
- Larger than 92.0 x 92.0 mm, up to 138.0 x 138.0 mm 2 mm steel

**Set equipment:**

- Battery-operated hydraulic hole punching tool
- Li-ion battery 18V - 1.5Ah
- Battery charger LG8
- 1 draw stud 9.5 x 19.0 mm
- 1 draw stud 19.0 x 125.0 mm
- 1 spacer sleeve
- 1 tube of anti-wear paste
- 1 HSS-E step drill
- USB cable
- CD-ROM (software)
- Operating instructions, safety and maintenance instructions
- Carrying case for the tool, spare batteries, charger, and 8 pairs of round hole inserts



STILO-BL

**Battery-operated hydraulic hole punching tool**

Order No.	Description	Tool weight
STILO-BL	Battery-operated hydraulic hole punching tool	6,3 kg
PUNCHING FORCE	60kN	
OPERATING PRESSURE	700 bar	

**Punching capacity (max. sheet thicknesses):**

- Up to Ø 63.5 mm: ..... 3.0 mm steel / 2.5 mm stainless steel
- Up to Ø 68.0 x 68.0 mm: ..... 3.0 mm steel / 1.5 mm stainless steel
- Up to Ø 92.0 x 92.0 mm: ..... 2.5 mm steel / 1.5 mm stainless steel
- Larger than 92.0 x 92.0 mm, up to 138.0 x 138.0 mm 2 mm steel

# سازه گستر پایتخت

**Hydraulic hole punching tool**

تمامی کنندہ ملزومات برق

Order No.	Description	Tool weight
PBL60	Hydraulic hole punching tool	2,5 kg
PUNCHING FORCE	60kN	
OPERATING PRESSURE	700 bar	

**Punching capacity (max. sheet thicknesses):**

- Up to Ø 63.5 mm: ..... 3.0 mm steel / 2.5 mm stainless steel
- Up to Ø 68.0 x 68.0 mm: ..... 3.0 mm steel / 1.5 mm stainless steel
- Up to Ø 92.0 x 92.0 mm: ..... 2.5 mm steel / 1.5 mm stainless steel
- Larger than 92.0 x 92.0 mm, up to 138.0 x 138.0 mm 2 mm steel

PBL60

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**Keyway punch**

Order No.	Description	Tool weight
KNZ	Keyway punch	1,4 kg

\* For PUNCHING/STAMPING/ELECTRIC BUS BAR PROCESSING UNITS please download the complete General Catalog Tools



## HYDRAULIC PUMPS

### CP700 - Compact hydraulic pump with battery

Designed to operate hydraulic tools up to 700bar (70MPa).

#### Technical characteristics:

- Light, compact and robust structure
- Body made of polyamide reinforced with fibreglass, completely insulating and shock resistant
- Long lifetime due to a lifting magnet. First service after 20000 cycles
- Possibility of reading all the data of the working cycles and error indications through USB interface
- Double piston technology for rapid high pressure feed
- Individual programs for cutting and crimping
- Freely programmable pump (only model CP700)
- Anti-scratch and shock resistant display protection
- Possibility of reading the curves on PC and on the pump display (only model CP700)

- Operating pressure: 700 bar (70 MPa)
- High performance lithium ion battery 5,0 Ah
- Charge indicator on the battery
- Flow range at low pressures < 100 bar: 1.2 lit./min.
- Flow range at pressures up to 700 bar: 0.2 lit./min.
- Power: 200 W
- Battery voltage: 18,0 V DC
- Range of use: -20°C / +55°C (integrated cooling system)
- Remote control (1,5 m) two buttons and LED indicator
- Possibility to attach the remote control to the unit with the integrated magnet
- A belt or shoulder strap can be added through a clamp support
- Optional transportation bag with pockets, with a shoulder strap or attached to a belt (optional)
- Including software

Tool dimensions: 290 x 190 x 205 mm

Tool weight: 4,5 kg



#### Battery operated hydraulic pump

Order No.	Description	Tool weight
CP700	Battery operated hydraulic pump - set	4,5 kg
CP700EC	Battery operated hydraulic pump - set	4,5 kg



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Battery operated hydraulic pump - set equipment:

- Compact hydraulic pump
- Battery 18 V/5,0 Ah lithium-ion (RA50)
- Battery charger (LG8)
- Flexible high pressure hose – length 1,5 m
- Remote control 1,5 m (CP-F)
- Shoulder strap (TG3)
- USB cable + software
- Comfortable sturdy nylon bag



### FPI70 / FPI70-EC – Foot operated hydraulic pump

Designed to operate hydraulic tools up to 700bar (70MPa).

#### Technical characteristics:

- Compact dimensions
- Lightweight due to use of light alloys and corrosion-resistant materials
- Handy and stable due to a firm fitting pedal and sturdy non slip base
- Automatic two speed device (fast advancing under no-load and slow under load)
- Tilting system for coupler (not on models "EC")
- Pressure monitoring by oil pressure gauge (not on models "EC")
- Manual pressure release at any time
- High mounted quick release coupling with dust cap
- Operating pressure: 700 bar (70 MPa)
- Low pressure pump capacity: 18,3 cm<sup>3</sup>/stroke
- High pressure pump capacity: 2 cm<sup>3</sup>/stroke
- Amount of oil: 1200 ml
- Operating temperature: -20°C to a +40°C

#### Tool dimensions:

- FPI70: 570 x 230 x 209 mm
- FPI70S: 570 x 230 x 209 mm
- FPI70 EC: 545 x 212 x 198 mm
- FPI70S EC: 545 x 212 x 198 mm

#### Foot operated hydraulic pump with pressure gauge

Order No.	Description	Tool weight
FPI70	Foot operated hydraulic pump -set	9,6 kg
FPI70S	Foot operated hydraulic pump with 3 m hose - set	10,9 kg

#### Foot operated hydraulic pump (ECO)

Order No.	Description	Tool weight
FPI70 EC	Foot operated hydraulic pump - set	9,6 kg
FPI70S EC	Foot operated hydraulic pump with 3 m hose - set	10,3 kg

#### تامین کنندہ ملزومات برق

##### Set equipment FPI70:

- Foot operated pump with oil pressure gauge
- Metal case

##### Set equipment FPI70S:

- Foot operated pump with oil pressure gauge
- Flexible hose 3 m
- Metal case

##### Set equipment FPI70 EC:

- Foot operated pump
- Metal case

##### Set equipment FPI70S EC:

- Foot operated pump
- Flexible hose 3 m
- Metal case

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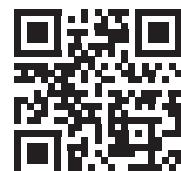
STRIPPING TOOLS

# FBS II

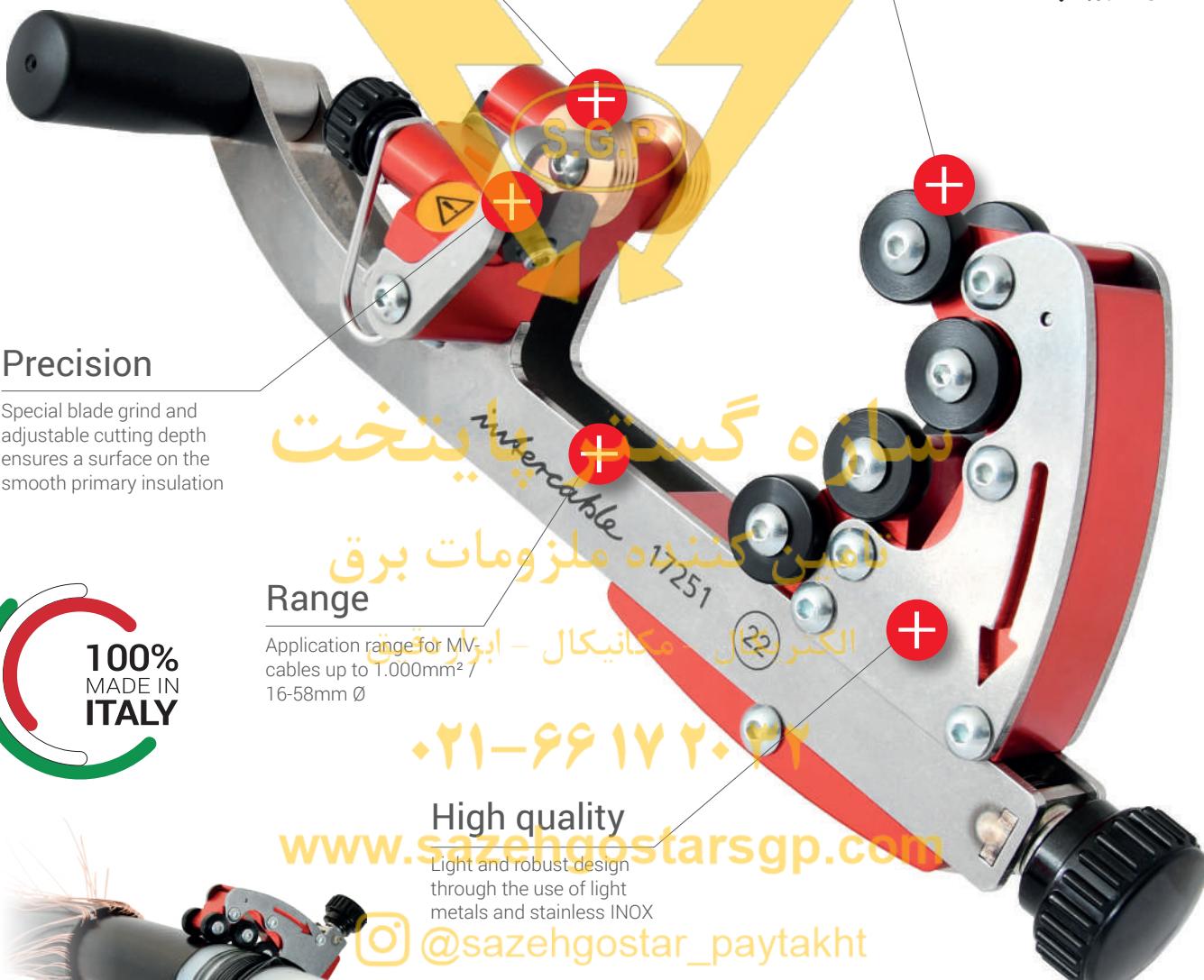
CABLE STRIPPER FOR VULCANIZED SEMICONDUCTIVE LAYER USABLE WITHOUT SILICON

## Handling

Shift lever for activation/deactivation of the axial feed enables an optimal guidance and precise circular cut



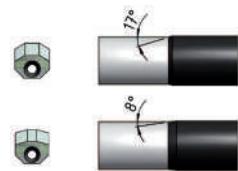
Video FBS II



FBS II: Cable stripper for vulcanized semiconductive layer

Order No.	Description	Weight
17250	Set: FBS II (17°)	0,7 kg
17252	Set: FBS II (8°)	0,7 kg

APPLICATION RANGE	Ø 16 - 58 mm
INSULATION THICKNESS	0 - 1,5 mm
SUGGESTED APPLICATION	Vulcanized, extruded, bonded semiconductive layer



## STRIPPING TOOLS

AB16



PTS4



AV8203



## Self adjustable cable stripper

Order No.	Description	Application range	Length tool
AB16	Universal cable stripper	$\varnothing$ 0,03 - 16 mm <sup>2</sup>	210 mm
PTS4	Universal cable stripper	$\varnothing$ 0,2 - 6 mm <sup>2</sup>	170 mm
AV8203	Universal cable stripper	$\varnothing$ 6 - 16 mm <sup>2</sup>	170 mm

INSULATION THICKNESS	ANY
SUGGESTED APPLICATION	PVC



ABI1



Video



AV6220



AV6240

## ABI1: Self adjustable cable stripper

Order No.	Description	Weight
ABI1	Set: ABI1	0,15 kg
	APPLICATION RANGE	$\varnothing$ 4,5 - 29 mm <sup>2</sup>
	INSULATION THICKNESS	3 mm
	SUGGESTED APPLICATION	PVC / Rubber

## AMS / AMS Maxi:

## Universal cable stripper for external insulation

Order No.	Description	Weight
AV6220	Set: AMS	0,2 kg
AV6240	Set: AMS Maxi	0,8 kg
17130	Set: AMS 1000V	0,2 kg
	APPLICATION RANGE	AMS: $\varnothing$ > 25 mm / AMS MAXI: $\varnothing$ > 45 mm
	INSULATION THICKNESS	0 - 5 mm
	SUGGESTED APPLICATION	PVC / Rubber / Polyethylene (only AMS MAXI)

سازه کستر پایتخت



Video

Set: AMX, 17300



## AMX: Universal cable stripper for heavy duty outer sheaths

Order No.	Description	Weight
17300	Set: AMX	1,3 kg
	APPLICATION RANGE	$\varnothing$ 16 - 54 mm
	INSULATION THICKNESS	0 - 5 mm
	SUGGESTED APPLICATION	Polyethylene / fully bonded aluminium outer insulation



Video

Set: AIS, 17190



CA 1000V IEC 60990

## AIS: Cable stripper for external insulation

Order No.	Description	Weight
17190	Set: AIS	2,0 kg
	APPLICATION RANGE	$\varnothing$ 16 - 54 mm
	INSULATION THICKNESS	0,5 - 5 mm
	SUGGESTED APPLICATION	High density polyethylene

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Set: FSI 150, 17170

CA 1000V IEC 60990



## FSI 150: Insulated wire stripper for overhead cables

Order No.	Description	Weight
17170	Set: FSI 150 (with stripping inserts: 16 - 70 mm <sup>2</sup> )	0,95 kg
	APPLICATION RANGE	$6 - 150$ mm <sup>2</sup>
	INSULATION THICKNESS	Preadjusted stripping inserts
	SUGGESTED APPLICATION	ABC cables (overhead, twisted, insulated)



NEW

# IMS III

CABLE STRIPPER FOR PRIMARY  
INSULATIONS FOR MV/HV CABLES  
**WITHOUT SILICON**



## Precision

Special blade grind and adjustable cutting depth ensures a surface on the smooth primary insulation

## Range

Application range for  
for MV-cables up to  
1.000 mm<sup>2</sup> / 15-58 mm Ø

High quality  
[www.sazehgostarsgp.com](http://www.sazehgostarsgp.com)

IMS III: Cable stripper for primary insulations for MV/HV cables

Order No.	Description	Weight
17260	Set: IMS III	1,10 kg

APPLICATION RANGE	Ø 15 - 58 mm
INSULATION THICKNESS	up to 15 mm
SUGGESTED APPLICATION	Vulcanized, extruded, bonded semiconductive layer



Video IMS III

## Agility

Movable roller system  
adapts optimally to small  
and large diameters,  
no silicon required

سازه گستاخ پایتخت  
نامیون کنندہ ملزومات برق  
الکتریکل مکانیکال - ابزار دقیق

۰۳۰-۲۰۲۷۱-۶۶۹۱

Light and robust design  
through the use of light  
metals and stainless INOX

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## STRIPPING TOOLS



Set: FBS, 17220

FBS: Cable stripper for vulcanized semiconductive layer

Order No.	Description	Weight
17220	Set: FBS	0,8 kg

APPLICATION RANGE	Ø 10 - 52 mm
INSULATION THICKNESS	0 - 1,5 mm
SUGGESTED APPLICATION	Vulcanized, extruded, bonded semiconductive layer

\* alternativ without Silicon - page 34



Set: HLS, AV6400

HLS: Cable stripper for non-vulcanized semiconductive layer

Order No.	Description	Weight
AV6400	Set: HLS	1,3 kg

APPLICATION RANGE	Ø 16 - 41 mm
INSULATION THICKNESS	0 - 2 mm
SUGGESTED APPLICATION	Non vulcanized, peelable semiconductive layer



Set: IMS, AV6310

S.G.P

IMS: Cable stripper for primary insulation

Order No.	Description	Weight
AV6310	Set: IMS 20 kV (with inserts 25 - 240 mm <sup>2</sup> )	0,6 kg

APPLICATION RANGE	25 - 240 mm <sup>2</sup>
INSULATION THICKNESS	Preadjusted stripping inserts
SUGGESTED APPLICATION	Any type of primary insulation



Set: IMS II, 17230

IMSII: Universal cable stripper for primary insulation

Order No.	Description	Weight
17230	Set: IMSII	1,0 kg

APPLICATION RANGE	Ø 15 - 52 mm
INSULATION THICKNESS	0 - 15 mm
SUGGESTED APPLICATION	Any type of primary insulation

\* alternativ without Silicon - page 36

٠٢١-٩٦١٧٢٠٣٢



Set: UFS, 17240

UFS: Tool for chamfering primary insulation

Order No.	Description	Weight
17240	SET: UFS	0,39 kg

APPLICATION RANGE	Ø 15 - 60 mm
SUGGESTED APPLICATION	Any type of primary insulation



1609076

Roller chains cutter for cutting armour wires

Order No.	Description	Weight
1609076	Set: Roller chains cutter	0,8 kg

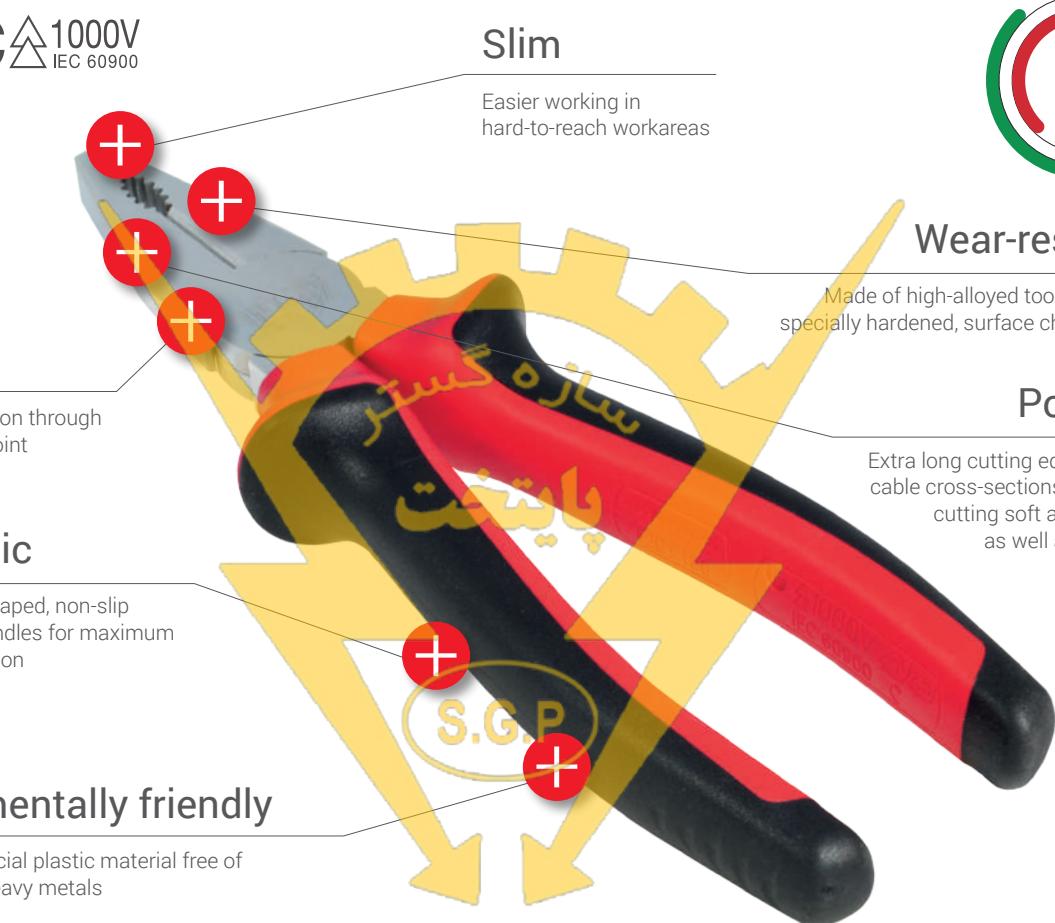
APPLICATION RANGE	Ø 20 - 76 mm <sup>2</sup>
SUGGESTED APPLICATION	Armoured cables



GENERAL HAND TOOLS - PLIERS



ISO 5746  
UNI 9894  
VDE 0682-201



Combination pliers



CA IEC 60900

Order No.	Length	Weight
1201160	160 mm	218 g
1201180	180 mm	250 g
1201200	200 mm	282 g

Flat-nosed pliers



CA IEC 60900

Order No.	Length	Weight
1206160	160 mm	170 g

Telephone pliers, straight



CA IEC 60900

Order No.	Length	Weight
1203160	160 mm	170 g
1203200	200 mm	208 g



CA IEC 60900

Order No.	Length	Weight
1204160	160 mm	164 g
1204200	200 mm	206 g

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Telephone pliers, bent 45°

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## GENERAL HAND TOOLS - PLIERS

Round-nosed pliers



Order No.	Length	Weight
1207160	160 mm	154 g

Side cutting pliers



Order No.	Length	Weight
1202160	160 mm	198 g

Stripping plier



Order No.	Length	Weight
1205160	160 mm	190 g

Water-pump pliers, 7 phases



Order No.	Length	Weight
1110250	240 mm	398 g

Gripping pliers ISOplus insulated 2K



Order No.	Length	Weight
11091	180 mm	140 g

Combination pliers ISOplus insulated 2K



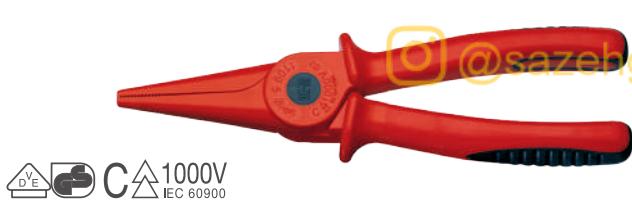
Order No.	Length	Weight
111092	190 mm	147 g

- gripping surface with 8 indentations for various cable diameters
- no exposed metal parts, no blades

- for Cu and Al cables with maximum 16 mm<sup>2</sup>, with extra long blades
- gripping surface with 3 indentations for various cable diameters

Telephone pliers ISOplus insulated 2K

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Order No.	Length	Weight
11095	200 mm	138 g

- toothed gripping surface, slim head
- no exposed metal parts



Order No.	Length	Weight
111094	170 mm	150 g

- for Cu and Al cables with maximum 50 mm<sup>2</sup>

## GENERAL HAND TOOLS - CUTTERS, KNIVES, SCISSORS

Cable cutting VDE D17



C 1000V IEC 60900

Order No.	Length	Weight
1604160	160 mm	220 g

- for Al / Cu cables up to D 17 mm, ~ 50 mm<sup>2</sup> fine stranded cables

Cable cutting VDE D22



C 1000V IEC 60900

Order No.	Length	Weight
1604200	200 mm	360 g

- for Al / Cu cables up to D 22 mm, ~ 70 mm<sup>2</sup> fine stranded cables

Cable knife / standard



- 1000V insulated tool
- With replaceable standard very sharp blade (thickness 0.65 mm)
- Made of shock-proof material

Cable knife / special steel



- 1000V insulated tool
- With replaceable special shaped stripping blade - that cuts the insulation without damaging the conductor wires
- Made of shock-proof material



Description	Order No.	Blade	Length
Cable knife / standard	AV3910	interch. 50 mm	185 mm
Spare blade / standard	AV3911	-	50 mm

Description	Order No.	Blade	Length
Cable knife / special steel	AV3920	interch. 50 mm	185 mm
Spare blade / special steel	AV3921	-	50 mm
Cable knife / special ceramic	AV3930	fixed 46 mm	185 mm

## تامین کنندہ ملزومات برق

Electricians' scissors for cutting, stripping and crimping on cables - F1 style



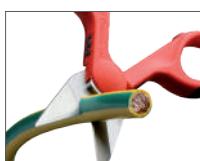
Description	Order No.	Length
F1 Electricians' scissors 3 in 1 with safety box	16020-F1	160 mm

- To cut Cu/Al cables up to 50 mm<sup>2</sup>
- With slot to crimp insulated or non insulated end sleeves from 0,5 to 4 mm<sup>2</sup>
- Blades with optimized teeth
- High cutting performance
- Loose-free screw/pin hinge
- 2 component handle

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Attention: Not suitable for work under voltage!

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it cuts Cu/Al cables up to 50 mm<sup>2</sup>



special hard blade designed for cable cutting and stripping



adjustable tightness of the blades



it crimps end-sleeves up to 4 mm<sup>2</sup>



Product page  
and demo  
*Video*

## THE QUALITY AND THE UNIQUE INTERCABLE DESIGN

These series of SLIM screwdrivers are the result of extensive studies performed in cooperation with numerous electrical installers



Standard:  
VDE 0682 / 201



Identification lens for an easy choice of the proper screwdriver  
Color codification:



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

For slotted head screws  
yellow



For hex-head screws  
violet

For "Phillips"-head screws  
red



For **TORX®** head screws  
blue

For "Pozidriv"-head screws  
green



For combined "Phillips"-head screws  
red / yellow

For hex socket-head screws  
white



For combined "Pozidriv"-head screws  
green / yellow

**TORX®**

registered trademark of CAMCAR TEXTRON,  
Rockford, Illinois, USA

GENERAL HAND TOOLS - SCREWDRIVERS

 CA 1000V IEC 60900

Screwdriver for slotted head screws – FUTUR II

Type	Order No.	mm	mm	mm	mm
	1301025	2,5	75	0,4	175
	1301030	3,0	100	0,5	200
1301035 *		3,5	100	0,6	200
1301040 *		4,0	100	0,8	200
1301045 *		4,5	125	1,0	230
1301055 *		5,5	125	1,0	230
1301065 *		6,5	150	1,2	255
1301080		8,0	175	1,2	290
1301100		10,0	200	1,6	320

 CA 1000V IEC 60900

Screwdriver for "Phillips" screws – FUTUR II

Type	Order No.	mm	mm	mm
	13020	0	60	160
13021 *		1	75	175
13022 *		2	100	205
13023		3	150	265
13024		4	200	320

 CA 1000V IEC 60900

Screwdriver for "Pozidriv" screws – FUTUR II

Type	Order No.	mm	mm	mm
	13030	0	60	160
13031 *		1	75	175
13032 *		2	100	205
13033		3	150	265

## تامین کنندہ ملزومات برق Combination screwdriver "Phillips" – FUTUR II

 CA 1000V IEC 60900

• For combined Slotted-/Intersecting slot screws in electrical systems

Type	Order No.	mm	mm	mm
	13131 *	1	80	180
	13132 *	2	100	205

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Combination screwdriver "Pozidriv" – FUTUR II

 CA 1000V IEC 60900

• For combined Slotted-/Intersecting slot screws in electrical systems

Type	Order No.	mm	mm	mm
	13141 *	1	80	175
	13142 *	2	105	205



\* SLIM types

## GENERAL HAND TOOLS - SCREWDRIVERS

### Screwdriver for hexagon socket screws – FUTUR II

Type	Order No.	mm	mm	mm
	1304020	2	60	160
	1304025	2,5	75	175
	1304030	3	75	180
	1304040	4	75	180
	1304050	5	75	190
	1304060	6	100	215
	1304080	8	100	220

### Screwdriver for hexagon screws – FUTUR II

Type	Order No.	mm	mm	mm
	1306040	4	125	225
	1306050	5	125	225
	1306055	5,5	125	225
	1306060	6	125	230
	1306070	7	125	230
	1306080	8	125	230
	1306090	9	125	230
	1306100	10	125	240
	1306110	11	125	240
	1306120	12	125	240
	1306130	13	125	240

### TORX® Screwdriver – FUTUR II

Type	Order No.	mm	mm	mm
	1307010	10	60	160
	1307015	15	75	175
	1307020	20	75	180
	1307025	25	75	180
	1307030	30	100	215

### تامین کننده مازنماری برق

DKE C A IEC 60900 1000V

Phase screwdriver

Order No.	mm	mm	mm
AV6104	3,0	65	140
AV6105	3,5	105	190

٠٢١-٦٦١٧٢٠٣٢

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91 x 26 x 15 mm

- Designed to use in opening and closing electric panels and the most common systems of closure

Suitable for all common electrical panels and cabinets

- Five different key profiles

- The magnetic attachment gives the possibility to use the key with any type of bit

Order No.	Additional bit	Standard bits			
QUATTRO		11,5 x 6 mm Triangular key			
QUATTRO-D		10 x 7,4 x 2 mm Square key			
QUATTRO-S		10 x 7 mm Daimler Benz key	10 x 6,5 mm 6,3 Bit magnetic attachment	14 x 8 mm Square key insert	14 x 9 mm Triangular key insert
					14 x 9 x 2 mm 2 x 14 key Insert

## I-SERIES - TUBULAR CABLE LUGS AND CONNECTORS & CRIMPING TOOLS

### Made in Germany

Made in the German factory owned by Intercable. Even the tinning processes are done within the company

### Certified

UL-approved

### Highest quality materials

Cu-HCP 99,9% clean electrolytic copper, tinned.  
The base for the long-term highest quality crimped connection

### Inspection hole

With inspection hole from 10mm<sup>2</sup>, to control the perfect connection



### Cost-Efficient

Lighter and shorter compared to DIN lugs without compromising on capabilities

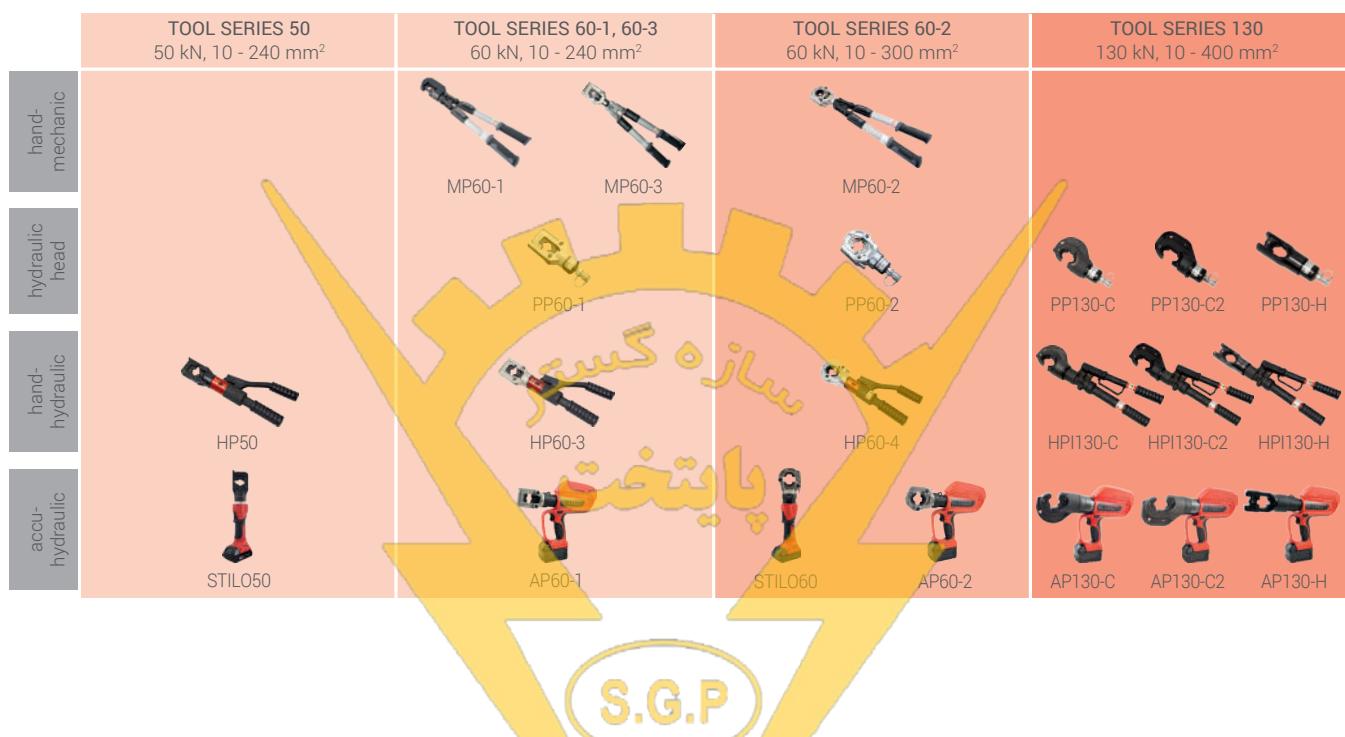
### Variety range of use

For copper cables class 1 and 2 and for flexible cables class 5. Best performance with i-crimping (check the page 51)

Cu I	M3	M4	M5	M6	M8	M10	M12	M14	M16	M20	CTT...
1,5	Cl1.5-M3 ICS1390	Cl1.5-M4 ICS1490	Cl1.5-M5 ICS1590	Cl1.5-M6 ICS1690							CTT-1.5
2,5	Cl2.5-M4 ICS2490	Cl2.5-M5 ICS2590	Cl2.5-M6 ICS2690	Cl2.5-M8 ICS2890							CTT-2.5
4	Cl4-M4 ICS4490	Cl4-M5 ICS4590	Cl4-M6 ICS4690	Cl4-M8 ICS4890							CTT-4
6	Cl6-M4 ICS6490	Cl6-M5 ICS6590	Cl6-M6 ICS6690	Cl6-M8 ICS6890	Cl6-M10 Cl10-M8	Cl6-M10 Cl10-M10	Cl6-M12 Cl10-M10-90	Cl6-M12-90 Cl10-M10-90			CTT-6
10	Cl10-M4	Cl10-M5 Cl10-M5-90 Cl10-M5-45	Cl10-M6 Cl10-M6-90 Cl10-M6-45	Cl10-M8 Cl10-M8-90 Cl10-M8-45	Cl10-M10 Cl10-M10-90	Cl10-M10-90 Cl10-M10-90	Cl10-M12 Cl10-M12-90	Cl10-M12-90 Cl10-M12-90			CTT-10
16	Cl16-M5 Cl16-M5-90	Cl16-M6 Cl16-M6-90 Cl16-M6-45	Cl16-M8 Cl16-M8-90 Cl16-M8-45	Cl16-M10 Cl16-M10-90 Cl16-M10-45	Cl16-M10 Cl16-M10-90	Cl16-M12 Cl16-M12-90	Cl16-M12-90 Cl16-M12-90	Cl16-M12-90 Cl16-M12-90			CTT-16
25	Cl25-M5 Cl25-M5-90 Cl25-M5-45	Cl25-M6 Cl25-M6-90 Cl25-M6-45	Cl25-M8 Cl25-M8-90 Cl25-M8-45	Cl25-M10 Cl25-M10-90 Cl25-M10-45	Cl25-M10 Cl25-M10-90	Cl25-M12 Cl25-M12-90	Cl25-M12-90 Cl25-M12-90	Cl25-M14 Cl25-M14			CTT-25
35	Cl35-M5	Cl35-M6 Cl35-M6-90 Cl35-M6-45	Cl35-M8 Cl35-M8-90 Cl35-M8-45	Cl35-M10 Cl35-M10-90 Cl35-M10-45	Cl35-M10 Cl35-M10-90	Cl35-M12 Cl35-M12-90	Cl35-M12-90 Cl35-M12-90	Cl35-M14 Cl35-M14	Cl35-M16 Cl35-M16		CTT-35
50		Cl50-M6 Cl50-M6-90 Cl50-M6-45	Cl50-M8 Cl50-M8-90 Cl50-M8-45	Cl50-M10 Cl50-M10-90 Cl50-M10-45	Cl50-M10 Cl50-M10-90	Cl50-M12 Cl50-M12-90	Cl50-M12-90 Cl50-M12-90	Cl50-M14 Cl50-M14	Cl50-M16 Cl50-M16-90	Cl50-M20 Cl50-M20	CTT-50
70		Cl70-M6 Cl70-M6-45	Cl70-M8 Cl70-M8-90 Cl70-M8-45	Cl70-M10 Cl70-M10-90 Cl70-M10-45	Cl70-M10 Cl70-M10-90	Cl70-M12 Cl70-M12-90	Cl70-M12-90 Cl70-M12-90	Cl70-M14 Cl70-M14-90	Cl70-M16 Cl70-M16-90	Cl70-M16-90 Cl70-M16-90	CTT-70
95		Cl95-M6	Cl95-M8 Cl95-M8-90 Cl95-M8-45	Cl95-M10 Cl95-M10-90 Cl95-M10-45	Cl95-M10 Cl95-M10-90	Cl95-M12 Cl95-M12-90	Cl95-M12-90 Cl95-M12-90	Cl95-M14 Cl95-M14	Cl95-M16 Cl95-M16-90	Cl95-M20 Cl95-M20-90	CTT-95
120		Cl120-M8 Cl120-M8-90 Cl120-M8-45	Cl120-M10 Cl120-M10-90 Cl120-M10-45	Cl120-M12 Cl120-M12-90	Cl120-M12 Cl120-M12-90	Cl120-M14 Cl120-M12-45	Cl120-M14 Cl120-M12-45	Cl120-M16 Cl120-M16-90	Cl120-M20 Cl120-M20-45	Cl120-M20 Cl120-M20-45	CTT-120
150		Cl150-M8 Cl150-M8-90 Cl150-M8-45	Cl150-M10 Cl150-M10-90 Cl150-M10-45	Cl150-M12 Cl150-M12-90	Cl150-M12 Cl150-M12-90	Cl150-M14 Cl150-M12-45	Cl150-M14 Cl150-M12-45	Cl150-M16 Cl150-M16-90	Cl150-M20 Cl150-M20-90	Cl150-M20 Cl150-M20-90	CTT-150
185		Cl185-M8	Cl185-M10 Cl185-M10-90 Cl185-M10-45	Cl185-M12 Cl185-M12-90	Cl185-M12 Cl185-M12-90	Cl185-M14 Cl185-M12-45	Cl185-M14 Cl185-M12-45	Cl185-M16 Cl185-M16-90	Cl185-M20 Cl185-M20-90	Cl185-M20 Cl185-M20-90	CTT-185
240		Cl240-M8	Cl240-M10 Cl240-M10-90 Cl240-M10-45	Cl240-M12 Cl240-M12-90	Cl240-M12 Cl240-M12-90	Cl240-M14 Cl240-M14-45	Cl240-M14 Cl240-M14-45	Cl240-M16 Cl240-M16-90	Cl240-M20 Cl240-M20-90	Cl240-M20 Cl240-M20-90	CTT-240
300			Cl300-M10	Cl300-M12	Cl300-M14	Cl300-M16	Cl300-M20				CTT-300
400			Cl400-M10	Cl400-M12	Cl400-M14	Cl400-M16	Cl400-M20				CTT-400
500				Cl500-M12		Cl500-M16	Cl500-M20				CTT-500
630						Cl630-M16	Cl630-M20				CTT-630

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## I-SERIES - TUBULAR CABLE LUGS AND CONNECTORS &amp; CRIMPING TOOLS



	CRIMPING DIES SERIES 50, 60-1, 60-3				CRIMPING DIES SERIES 60-2				CRIMPING DIES SERIES 130			
mm <sup>2</sup>	Crimping width	N. of crimps	Order n.	Crimping width	N. of crimps	Order n.	Crimping width	N. of crimps	Order n.	Crimping width	N. of crimps	Order n.
10	7 mm	1	U5-K07M	7 mm	1	U5-I10	7 mm	1	U6-I10	7 mm	1	U13-K07M
16	7 mm	1	U5-K08M	7 mm	1	U5-I16	7 mm	1	U6-I16	7 mm	1	U13-K08M
25	7 mm	1	U5-K10M	9 mm	1	U5-I25	9 mm	1	U6-I25	12 mm	1	U13-K10M
35	7 mm	1	U5-K11M	5 mm	1	U5-I35	5 mm	1	U6-I35	12 mm	1	U13-K11M
50	7 mm	1	U5-K13M	5 mm	2	U5-I50	5 mm	2	U6-I50	12 mm	1	U13-K13M
70	7 mm	2	U5-K14	5 mm	2	U5-I70	5 mm	2	U6-I70	12 mm	1	U13-K14
95	7 mm	2	U5-K17M	5 mm	2	U5-I95	5 mm	2	U6-I95	12 mm	1	U13-K17M
120	7 mm	2	U5-K18	5 mm	2	U5-I120	5 mm	2	U6-I120	12 mm	1	U13-K18
150	5 mm	2	U5-K20D	5 mm	2	U5-I150	5 mm	2	U6-I150	12 mm	1	U13-K20D
185	5 mm	2	U5-K22D	5 mm	2	U5-I185	5 mm	2	U6-I185	14 mm	2	U13-K22D
240	5 mm	3	U5-K25M	5 mm	3	U5-I240	5 mm	3	U6-I240	14 mm	2	U13-K25M
300					5 mm	4	U6-I300	7 mm	3	U13-K28D		
400								7 mm	3	U13-K34D		



CHECK THE PAGE page 51 FOR MORE INFO OF "i-CRIMPING"

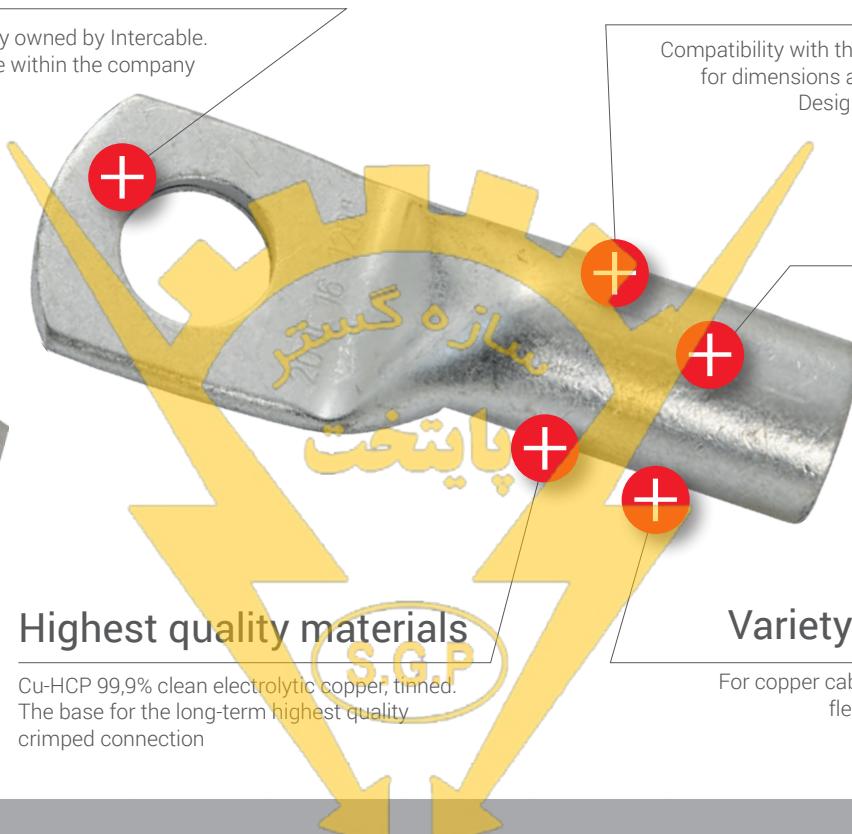
DIN-SERIES - TUBULAR CABLE LUGS AND CONNECTORS & CRIMPING TOOLS

Made in Germany

Made in the German factory owned by Intercable.  
The tinning process is done within the company



100%  
MADE IN  
**GERMANY**



Highest quality materials

Cu-HCP 99,9% clean electrolytic copper, tinned.  
The base for the long-term highest quality  
crimped connection

DIN-series

Compatibility with the crimping dies designed  
for dimensions acc. to DIN 46235, 46267.  
Designed with 2-3 times safety

Marked

Visually marked crimping positions

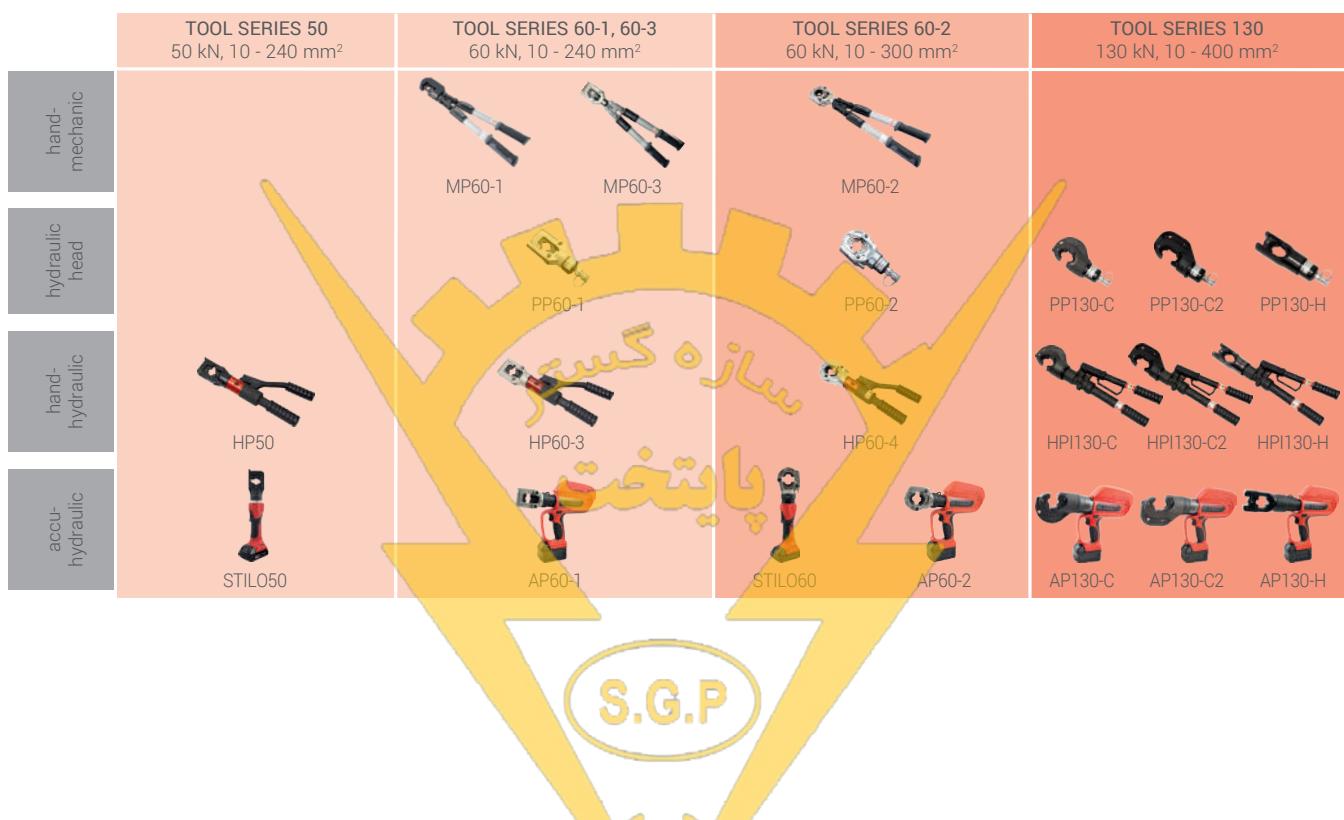
Variety range of use

For copper cables class 1 and 2 and for  
flexible cables from class 5,  
according to VDE0295

Cu DIN	6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	625	800	1000	ICD...V
mm <sup>2</sup>	M5	M6	M8	M10	M12	M14	M16	M20											
6	● ICD65		● ICD66		● ICD68														ICD6V
10	● ICD105		● ICD106	● ICD108	● ICD1090	● ICD1090	● ICD1090	● ICD1010											ICD10V
16	● ICD165		● ICD166	● ICD168	● ICD1690	● ICD1690	● ICD1690	● ICD1610	● ICD1612	● ICD161090	● ICD161290								ICD16V
25			● ICD256	● ICD258	● ICD25890	● ICD25890	● ICD25890	● ICD2510	● ICD2512	● ICD251090	● ICD251290								ICD25V
35			● ICD356	● ICD358	● ICD35890	● ICD35890	● ICD35890	● ICD3510	● ICD3512	● ICD351090	● ICD351290	● ICD3516							ICD35V
50			● ICD506	● ICD508	● ICD5090	● ICD501090	● ICD501290	● ICD5010	● ICD5012	● ICD501290	● ICD5014	● ICD5016	● ICD501690						ICD50V
70				● ICD708	● ICD7090	● ICD7010	● ICD7012	● ICD7010	● ICD7012	● ICD701090	● ICD701290	● ICD7014	● ICD7016	● ICD701690	● ICD7020			ICD70V	
95					● ICD958	● ICD9510	● ICD9512	● ICD9510	● ICD9512	● ICD951090	● ICD951290	● ICD9514	● ICD9516	● ICD951690	● ICD9520				ICD95V
120						● ICD1208	● ICD1210	● ICD1210	● ICD12010	● ICD1201090	● ICD1201290	● ICD12014	● ICD12016	● ICD1201690	● ICD12020	● ICD1202090			ICD120V
150						● ICD1508	● ICD15010	● ICD15012	● ICD15010	● ICD1501090	● ICD1501290	● ICD15014	● ICD15016	● ICD1501690	● ICD15020	● ICD1502090			ICD150V
185						● ICD1858	● ICD18510	● ICD18512	● ICD18510	● ICD1851090	● ICD1851290	● ICD18514	● ICD18516	● ICD1851690	● ICD18520	● ICD1852090			ICD185V
240							● ICD24010	● ICD24012	● ICD24014	● ICD24010	● ICD2401290	● ICD24014	● ICD24016	● ICD2401690	● ICD24020	● ICD2402090			ICD240V
300							● ICD30010	● ICD30012	● ICD30014	● ICD30010	● ICD3001290	● ICD30014	● ICD30016	● ICD3001690	● ICD30020	● ICD3002090			ICD300V
400								● ICD40010	● ICD40012	● ICD40014	● ICD40010	● ICD40014	● ICD40016	● ICD40020					ICD400V
500									● ICD50012	● ICD50014	● ICD50014	● ICD50016	● ICD50020						ICD500V
625												● ICD62516	● ICD62520						ICD625V
800												● ICD80016	● ICD80020						ICD800V
1000													● ICD100020						ICD1000V

Without tin: ICD...BK

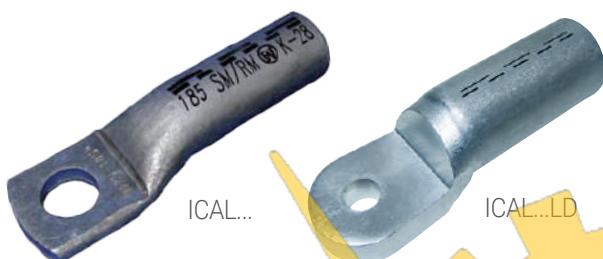
## DIN-SERIES - TUBULAR CABLE LUGS AND CONNECTORS &amp; CRIMPING TOOLS



	SERIES 50, 60-1, 60-3	SERIES 60-2			SERIES 130	SERIES 230	SERIES 520						
mm <sup>2</sup> / dies code	Crimp width	N. of crimps	Order n.	Crimp width	N. of crimps	Order n.	Crimp width	N. of crimps	Order n.	Crimp width	N. of crimps	Order n.	
6 / 5	5 mm	1	MK5-50	5 mm	1	MK5-CK							
10 / 6	5 mm	1	MK6-50	5 mm	1	MK6-CK	5 mm	1	MK6-C				
16 / 8	5 mm	2	MK8-50	5 mm	2	MK8-CK	14 mm	1	MK8-C				
25 / 10	5 mm	2	MK10-50	5 mm	2	MK10-CK	14 mm	1	MK10-C	14 mm	1	MK10-230	
35 / 12	5 mm	2	MK12-50	5 mm	2	MK12-CK	14 mm	1	MK12-C	14 mm	1	MK12-230	
50 / 14	5 mm	3	MK14-50	5 mm	3	MK14-CK	14 mm	1	MK14-C	14 mm	1	MK14-230	
70 / 16	5 mm	3	MK16-50	5 mm	3	MK16-CK	14 mm	1	MK16-C	14 mm	1	MK16-230	
95 / 18	5 mm	4	MK18-50	5 mm	4	MK18-CK	14 mm	2	MK18-C	12 mm	2	MK18-230	
120 / 20	5 mm	4	MK20-50	5 mm	4	MK20-CK	14 mm	2	MK20-C	14 mm	2	MK20-230	
150 / 22	5 mm	4	MK22-50	5 mm	4	MK22-CK	14 mm	2	MK22-C	14 mm	2	MK22-230	
185 / 25	5 mm	4	MK25-50	5 mm	4	MK25-CK	14 mm	2	MK25-C	14 mm	3	MK25-230	
240 / 28	5 mm	4	MK28-50	5 mm	4	MK28-CK	10 mm	2	MK28-C	14 mm	2	MK28-230	
300 / 32				5 mm	4	MK32-CK	7 mm	3	MK32-C	17 mm	2	MK32-230	
400 / 38										17 mm	3	MK38-230	
500 / 42										17 mm	3	MK42-230	
625 / 44										17 mm	3	MK44-230	
800 / 52											25 mm	3	MK52-230
1000 / 58											25 mm	3	MK58-230

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AL DIN-SERIES - TUBULAR CABLE LUGS AND CONNECTORS & CRIMPING TOOLS



- Material: Al 99,5 % / ...LDV: tinned
- DIN 46239 (lugs) / 46267 (joint connectors)
- filled with contact grease / closed
- with oil-stop



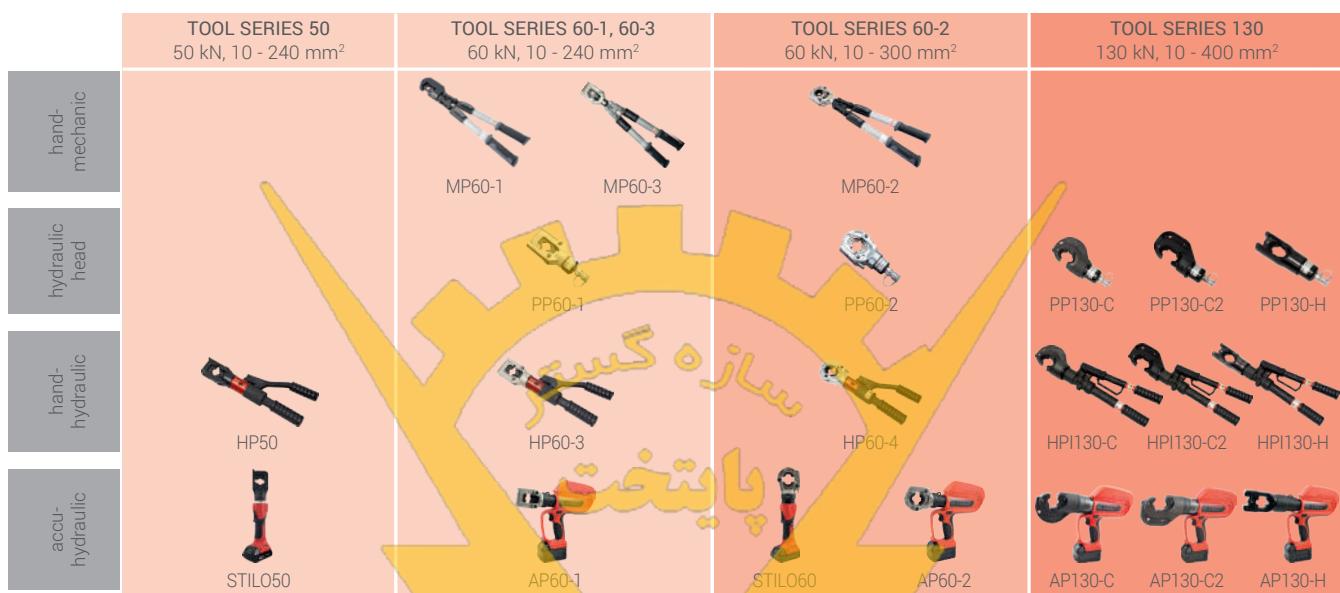
ICAL...LD with tinned surface: ICAL...LDV  
With this special thickness of tinning, these types are also applicable for Al-Cu connections.



- Materials: Al 99,5%, Cu-ETP 99,9%
- DIN 46239
- filled with contact grease / closed
- with oil-stop

AI / AL - CU DIN-series		سازه گستر پايتخت					ICAL...V	
mm <sup>2</sup> stranded Al cable	mm <sup>2</sup> solid Al cable	M8	M10	M12	M16	M20		
16	25	● ICAL168 ● ICAL168LD ● ICALCU168	● ICAL1610 ● ICAL1610LD ● ICALCU1610				ICAL16V	
25	35	● ICAL258 ● ICAL258LD ● ICALCU258	● ICAL2510 ● ICAL2510LD ● ICALCU2510	● ICALCU2512			ICAL25V	
35	50	● ICAL358 ● ICAL358LD ● ICALCU358	● ICAL3510 ● ICAL3510LD ● ICALCU3510	● ICAL3512 ● ICAL3512LD ● ICALCU3512			ICAL35V	
50	70	● ICAL508 ● ICAL508LD ● ICALCU508	● ICAL5010 ● ICAL5010LD ● ICALCU5010	● ICAL5012 ● ICAL5012LD ● ICALCU5012			ICAL50V	
70	95		● ICAL7010 ● ICAL7010LD ● ICALCU7010	● ICAL7012 ● ICAL7012LD ● ICALCU7012	● ICALCU7016		ICAL70V	
95	120		● ICAL9510 ● ICAL9510LD ● ICALCU9510	● ICAL9512 ● ICAL9512LD ● ICALCU9512	● ICAL9516 ● ICAL9516LD ● ICALCU9516		ICAL95V	
120	150		● ICAL12010 ● ICAL12010LD ● ICALCU12010	● ICAL12012 ● ICAL12012LD ● ICALCU12012	● ICAL12016 ● ICAL12016LD ● ICALCU12016		ICAL120V	
150	185		● ICAL15010 ● ICAL15010LD ● ICALCU15010	● ICAL15012 ● ICAL15012LD ● ICALCU15012	● ICAL15016 ● ICAL15016LD ● ICALCU15016	● ICAL15020 ● ICAL15020LD	ICAL150V	
185	240		● ICAL18510 ● ICAL18510LD ● ICALCU18510	● ICAL18512 ● ICAL18512LD ● ICALCU18512	● ICAL18516 ● ICAL18516LD ● ICALCU18516	● ICAL18520 ● ICAL18520LD ● ICALCU18520	ICAL185V	
240	300		● ICAL24010 ● ICAL24010LD ● ICALCU24010	● ICAL24012 ● ICAL24012LD ● ICALCU24012	● ICAL24016 ● ICAL24016LD ● ICALCU24016	● ICAL24020 ● ICAL24020LD ● ICALCU24020	ICAL240V	
300	-		● ICALCU30010	● ICAL30012 ● ICAL30012LD ● ICALCU30012	● ICAL30016 ● ICAL30016LD ● ICALCU30016	● ICAL30020 ● ICAL30020LD ● ICALCU30020	ICAL300V	
400	-		● ICALCU40010	● ICAL40012 ● ICAL40012LD ● ICALCU40012	● ICAL40016 ● ICAL40016LD ● ICALCU40016	● ICAL40020 ● ICAL40020LD ● ICALCU40020	ICAL400V	
500	-		● ICALCU50010	● ICAL50012 ● ICAL50012LD ● ICALCU50012	● ICAL50016 ● ICAL50016LD ● ICALCU50016	● ICAL50020 ● ICAL50020LD ● ICALCU50020	ICAL500V	
630	-			● ICALCU62512	● ICALCU62516	● ICALCU62520		

## AL DIN-SERIES - TUBULAR CABLE LUGS AND CONNECTORS &amp; CRIMPING TOOLS



	SERIES 50, 60-1, 60-3			SERIES 60-2			SERIES 130			SERIES 230		
mm <sup>2</sup> / dies code	Crimping width	N. of crimps	Order n.	Crimping width	N. of crimps	Order n.	Crimping width	N. of crimps	Order n.	Crimping width	N. of crimps	Order n.
16 / 12	7 mm	2	MK12B-50	7 mm	2	MK12B-CK	14 mm	1	MK12-C	14 mm	1	MK12-230
25 / 12		2										
35 / 14	7 mm	3	MK14B-50	7 mm	3	MK14B-CK	14 mm	2	MK14-C	14 mm	2	MK14-230
50 / 16		4	MK16B-50	7 mm	3	MK16B-CK	14 mm	2	MK16-C	14 mm	2	MK16-230
70 / 18	7 mm	5	MK18B-50	7 mm	3	MK18B-CK	14 mm	2	MK18-C	12 mm	2	MK18-230
95 / 22	7 mm	5	MK22B-50	7 mm	3	MK22B-CK	14 mm	2	MK22-C	40 mm	1	MK22B-230
120 / 22												
150 / 25	7 mm	5	MK25B-50	7 mm	3	MK25B-CK	14 mm	3	MK25-C	40 mm	1	MK25B-230
185 / 28	7 mm	5	MK28B-50	7 mm	4	MK28B-CK	14 mm	3	MK28L-C	40 mm	1	MK28B-230
240 / 32	5 mm	5	MK32-50V	7 mm	5	MK32B-CK	17 mm	3	MK32L-C	25 mm	2	MK32B-230
300 / 34				5 mm	4	MK34-CK	17 mm	3	MK34L-C	25 mm	2	MK34B-230
400 / 38										25 mm	2	MK38B-230
500 / 44										17 mm	3	MK44-230
630 / 46										25 mm	3	MK46B-230

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## NICKEL AND STAINLESS STEEL CABLE LUGS

### Nickel-series

- material: pure nickel
- for high temperature operation, T 500°C

Ni	M3	M4	M5	M6	M8	M10	M12	M16	
mm <sup>2</sup>	M3	M4	M5	M6	M8	M10	M12	M16	
0,5 - 1	ICNI13	ICNI14	ICNI15	ICNI16	ICNI18	ICNI20	ICNI22	ICNI24	ICNI1V
1,5 - 2,5		ICNI24	ICNI25	ICNI26					ICNI2V
4 - 6		ICNI64	ICNI65	ICNI66	ICNI68				ICNI6V
10			ICNI105	ICNI106	ICNI108				ICNI10V
16			ICNI165	ICNI166	ICNI168				ICNI16V

### Stainless Steel-series

- material: stainless steel, V4A
- for high temperature operation, T 400°C
- strong and durable
- safe against oxidation and acids, and safe for food

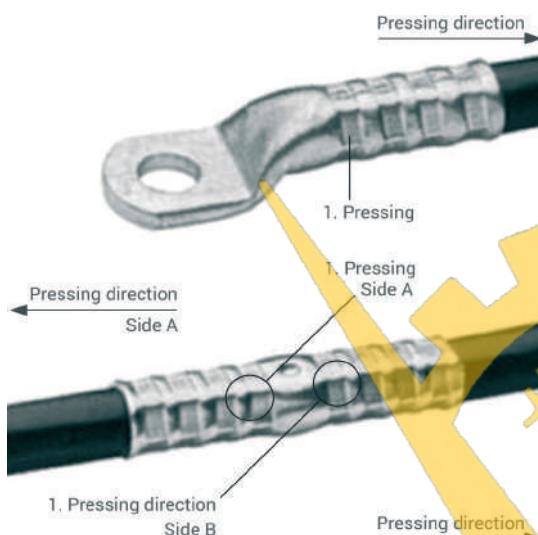


Steel	M3	M4	M5	M6	M8	M10	M12	M16	
mm <sup>2</sup>	M3	M4	M5	M6	M8	M10	M12	M16	
1,5 - 2,5			ICVA24	ICVA25	ICVA26				
4 - 6		ICVA64	ICVA65	ICVA66	ICVA68				
10			ICVA105	ICVA106	ICVA108				
16			ICVA165	ICVA166	ICVA168				
25				ICVA256	ICVA258				
35					ICVA356	ICVA358	ICVA3510		
50					ICVA508	ICVA5010	ICVA5012		
70					ICVA708	ICVA7010	ICVA7012	ICVA7016	
95					ICVA958	ICVA9510	ICVA9512	ICVA9516	

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## GENERAL CRIMPING INSTRUCTIONS, I-CRIMPING



## Processing indications for connection material

Assembly instructions for cable lugs and connectors

Strip the conductor according to the insertion length (+10% due to change in length of ferrule).

The ends of the conductor must be cleaned mechanically before assembly.

Insert the conductor into the cable lug or connector up to the full insertion length.

Press the cable lug or connector with the assigned tools and in compliance with the pressing direction.

The pressing direction for cable lugs and connectors can be seen in the adjacent sketch.

In the case of aluminum cable lugs and aluminum connectors, wipe off any excess pressing compound that has escaped.

بايتخت

For the number of pressings of the individual cross sections we recommend the following:

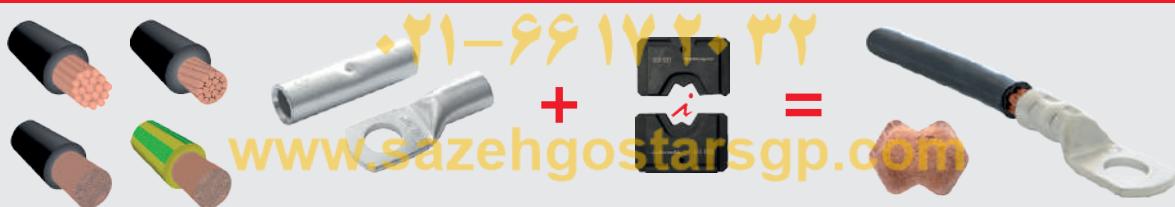
Cross section mm <sup>2</sup>	Tubular cable lugs		Compression cable lugs DIN 46235			Aluminum compression cable lugs		
	5 mm Crimping dies	Width Crimping dies	Index 5 mm Crimping dies	5 mm Crimping dies	Width Crimping dies	Index 7 mm Crimping dies	7 mm Crimping dies	Width Crimping dies
6	1		5	1		10	3	1
10	1		6	2		12	4	2
16	2	1	8	2	1	14	5	2
25	2	1	10	2	1	16	5	2
35	2	1	12	2	1	18	6	3
50	2	1	14	3	1	22	6	3
70	2	1	16	3	1	22	6	3
95	2	1	18	4	2	25	6	3
120	3	1	20	4	2	28	6	3
150	3	1	22	4	2	32	6	3
185	3	2	25	4	2	34	6	3
240	4	2	28	4	2	38	6	3
300	4	2	32	4	2	44	4	
400	4	2	38	3				
500			42	3				
625			44	3				
800			52	3				
1000			58	3				

سازه گسترن پايتخت  
تمامين کننده ملزوفات برق

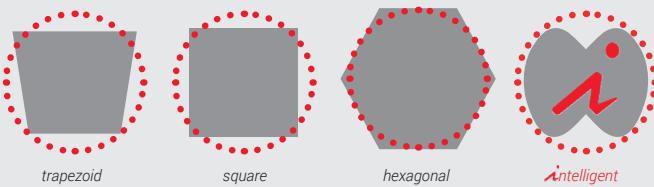


i-crimping الآلة الكهربائية - سازه گسترن - ابزار دقيقه The most advanced intelligent crimping form, using the benefits of the hexagonal and the indent crimping at the same time.

The most advanced intelligent crimping form, using the benefits of the hexagonal and the indent crimping at the same time.



i-crimping



## COPPER SHEET CABLE LUGS



DIN 46237  
Cu-ETP 99,9%, Sn / Copper tinned  
PC / Polycarbonate insulation  
600V max.  
T 125°C max.



mm <sup>2</sup>	M2	M3	M3,5	M4	M5	M6	M8	M10	M12	M16
0,1 - 0,5	ICIQ052	ICIQ053		ICIQ054	ICIQ055					
0,5 - 1	ICIQ12	ICIQ13	ICIQ135	ICIQ14 ICIQ14S	ICIQ15 ICIQ15S	ICIQ16	ICIQ18	ICIQ110		
1,5 - 2,5		ICIQ23	ICIQ235	ICIQ24 ICIQ24S	ICIQ25 ICIQ25S	ICIQ26	ICIQ28	ICIQ210	ICIQ212	
4 - 6				ICIQ64	ICIQ65	ICIQ66	ICIQ68	ICIQ610	ICIQ612	
10					ICIQ105	ICIQ106	ICIQ108	ICIQ1010		
16					ICIQ165	ICIQ166	ICIQ168	ICIQ1610		
25					ICIQ255	ICIQ256	ICIQ258	ICIQ2510	ICIQ2512	
35						ICIQ356	ICIQ358	ICIQ3510	ICIQ3512	
50						ICIQ506	ICIQ508	ICIQ5010	ICIQ5012	
70						ICIQ706	ICIQ708	ICIQ7010	ICIQ7012	ICIQ7016
95							ICIQ958	ICIQ9510	ICIQ9512	ICIQ9516
120							ICIQ1208	ICIQ12010	ICIQ12012	ICIQ12016
150								ICIQ15010	ICIQ15012	ICIQ15016

....S: NARROW TYPE



DIN 46234  
Cu-HCP  
99,9%, Sn / Copper tinned

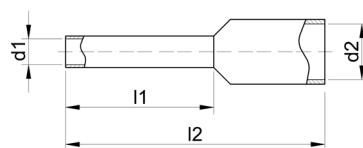
## تامین کنندہ مانیومات برے

## الکتریکال مکانیکال ابزار دقیق

mm <sup>2</sup>	M2, M2,5	M3	M3,5	M4	M5	M6	M8	M10	M12	M16	M20
0,5 - 1	ICQ12, ICQ125	ICQ13	ICQ135	ICQ14	ICQ15	ICQ16	ICQ18	ICQ110			
1,5 - 2,5		ICQ23	ICQ235	ICQ24	ICQ25	ICQ26	ICQ28	ICQ210	ICQ212		
4 - 6				ICQ64	ICQ65	ICQ66	ICQ68	ICQ610	ICQ612		
10				ICQ104	ICQ105	ICQ106	ICQ108	ICQ1010	ICQ1012		
16					ICQ165	ICQ166	ICQ168	ICQ1610	ICQ1612		
25					ICQ255	ICQ256	ICQ258	ICQ2510	ICQ2512	ICQ2516	
35					ICQ356	ICQ358	ICQ3510	ICQ3512	ICQ3516	ICQ3520	
50					ICQ506	ICQ508	ICQ5010	ICQ5012	ICQ5016	ICQ5020	
70					ICQ706	ICQ708	ICQ710	ICQ7012	ICQ7016	ICQ7020	
95						ICQ958	ICQ9510	ICQ9512	ICQ9516	ICQ9520	
120						ICQ1208	ICQ12010	ICQ12012	ICQ12016	ICQ12020	
150							ICQ15010	ICQ15012	ICQ15016	ICQ15020	
185							ICQ18510	ICQ18512	ICQ18516	ICQ18520	
240							ICQ24010	ICQ24012	ICQ24016		



## CABLE END-SLEEVES



Cu-EPT 99,9%, Sn / Copper tinned  
PP (Polipropilene insulation)  
T 105°C max.  
Halogen Free



mm <sup>2</sup>	Color 1	Color 2	DIN 46228/4	d1	d2	I2	I1	Pack
0,14	● ICIAE0146	● ICIAE0146BR		0,7	1,6	10	<b>6</b>	100
	● ICIAE0148	● ICIAE0148BR		0,7	1,6	12	<b>8</b>	100
0,25	● ICIAE0256	● ICIAE0256HGE		0,75	1,8	10	<b>6</b>	100
	● ICIAE0258	● ICIAE0258HGE		0,75	1,8	12	<b>8</b>	100
0,34	● ICIAE0346	● ICIAE0346HGRÜ		0,8	2,0	10	<b>6</b>	100
	● ICIAE0348	● ICIAE0348HGRÜ		0,8	2,0	12	<b>8</b>	100
0,5	● ICIAE0560R*	● ICIAE056*	● ICIAE056*	1,0	2,6	12	<b>6</b>	100
	● ICIAE0580R*	● ICIAE058*	● ICIAE058*	1,0	2,6	14	<b>8</b>	100
	● ICIAE05100R*	● ICIAE0510*	● ICIAE0510*	1,0	2,6	16	<b>10</b>	100
0,75	● ICIAE0756WE*	● ICIAE0756B*	● ICIAE0756*	1,2	2,8	12	<b>6</b>	100
	● ICIAE0758WE*	● ICIAE0758B*	● ICIAE0758*	1,2	2,8	14	<b>8</b>	100
	● ICIAE07510WE*	● ICIAE07510BL*	● ICIAE07510*	1,2	2,8	16	<b>10</b>	100
	● ICIAE07512WE*	● ICIAE07512BL*	● ICIAE07512*	1,2	2,8	18	<b>12</b>	100
	● ICIAE16GE*	● ICIAE16*	● ICIAE16*	1,4	3,0	12	<b>6</b>	100
1	● ICIAE18GE*	● ICIAE18*	● ICIAE18*	1,4	3,0	14	<b>8</b>	100
	● ICIAE110GE*	● ICIAE110*	● ICIAE110*	1,4	3,0	16	<b>10</b>	100
	● ICIAE112GE*	● ICIAE112*	● ICIAE112*	1,4	3,0	18	<b>12</b>	100
	● ICIAE158RO*	● ICIAE158*	● ICIAE158*	1,7	3,5	14	<b>8</b>	100
1,5	● ICIAE1510RO*	● ICIAE1510*	● ICIAE1510*	1,7	3,5	16	<b>10</b>	100
	● ICIAE1512RO*	● ICIAE1512*	● ICIAE1512*	1,7	3,5	18	<b>12</b>	100
	● ICIAE1518RO*	● ICIAE1518*	● ICIAE1518*	1,7	3,5	24	<b>18</b>	100
	● ICIAE28*	● ICIAE28GR*	● ICIAE28*	2,2	4,2	14	<b>8</b>	100
2,5	● ICIAE212*	● ICIAE212GR*	● ICIAE212*	2,2	4,2	18	<b>12</b>	100
	● ICIAE218*	● ICIAE218GR*	● ICIAE218*	2,2	4,2	24	<b>18</b>	100
	● ICIAE410*	● ICIAE4100R*	● ICIAE410*	2,8	4,8	17	<b>10</b>	100
4	● ICIAE412*	● ICIAE4120R*	● ICIAE412*	2,8	4,8	20	<b>12</b>	100
	● ICIAE418*	● ICIAE418R*	● ICIAE418*	2,8	4,8	26	<b>18</b>	100
	● ICIAE612SCH*	● ICIAE612GRÜ*	● ICIAE612*	3,5	6,3	20	<b>12</b>	100
6	● ICIAE618SCH*	● ICIAE618GRÜ*	● ICIAE618*	3,5	6,3	26	<b>18</b>	100
	● ICIAE1012ELF*	● ICIAE1012BR*	● ICIAE1012*	4,5	7,6	22	<b>12</b>	100
10	● ICIAE1018ELF*	● ICIAE1018BR*	● ICIAE1018*	4,5	7,6	28	<b>18</b>	100
	● ICIAE1612GRÜ*	● ICIAE1612ELF*	● ICIAE1612*	5,8	8,8	24	<b>12</b>	100
16	● ICIAE1618GRÜ*	● ICIAE1618ELF*	● ICIAE1618*	5,8	8,8	28	<b>18</b>	100
	● ICIAE2516BR*	● ICIAE2516SCH*	● ICIAE2516*	7,3	11,2	30	<b>16</b>	50
25	● ICIAE2518BR*	● ICIAE2518SCH*	● ICIAE2518*	7,3	11,2	32	<b>18</b>	50
	● ICIAE2522BR*	● ICIAE2522SCH*	● ICIAE2522*	7,3	11,2	36	<b>22</b>	50
	● ICIAE3516BE*	● ICIAE3516*	● ICIAE3516*	8,3	12,7	30	<b>16</b>	50
35	● ICIAE3518BE*	● ICIAE3518*	● ICIAE3518*	8,3	12,7	32	<b>18</b>	50
	● ICIAE3525BE*	● ICIAE3525*	● ICIAE3525*	8,3	12,7	39	<b>25</b>	50
	● ICIAE50200L*	● ICIAE5020*	● ICIAE5020*	10,3	15,0	36	<b>20</b>	50
50	● ICIAE50250L*	● ICIAE5025*	● ICIAE5025*	10,3	15,0	40	<b>25</b>	50
	● ICIAE7021			13,5	16,0	37	<b>21</b>	25
95	● ICIAE9525			14,5	18,0	44	<b>25</b>	25
120	● ICIAE12027			16,5	20,0	48	<b>27</b>	10
150	● ICIAE15032			19,5	23,0	58	<b>32</b>	10

\* UL certificated

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