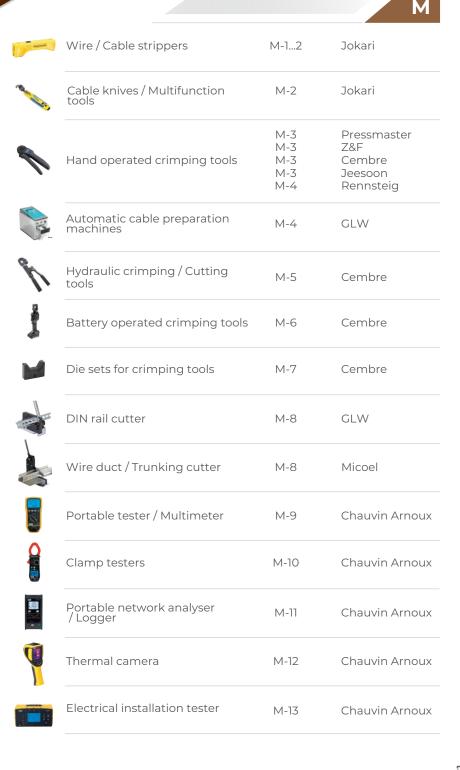
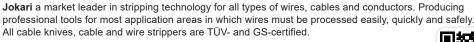
M TOOLS



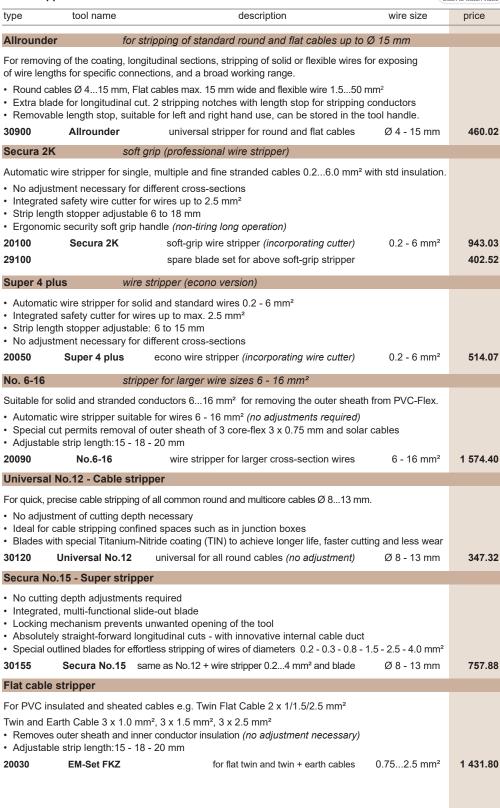






- · Highest standards of workmanship and material
- Durable, reliable performance guaranteed
- Complete quality assurance

Wire strippers























Specialised wire strippers

- · Highest standards of workmanship and material durable, reliable performance guaranteed
- Blades with special Titanium-Nitride coating (TIN) to achieve longer life, faster cutting and less wear

type	tool name		description	wire Ø	price			
Cable kr	nives	cable knife	contains spare blade (inside	e handle)				
For stri	pping outer sheath fr	om all standard r	ound cables					
• Automa	Automatic swivel blade (screw adjustable for cutting depth)							
10160	Secura No.16		ole knife (adjustable blade depth)	4 - 16 mm	318.56			
10280 10281	Secura No.28H Secura No.28G		nife with additional hooked blade nife with additional straight blade	8 - 28 mm 8 - 28 mm	347.32 347.32			
10261	No.35		ble knife <i>(adjustable blade depth)</i>	27 - 35 mm	533.62			
19000	_		are blade for above cable knives	(3 pc set)	328.92			
Cable kr	nife system 4-70	with newly dev	reloped hook blade protection me	echanism				
	change system perm ergonomic design e	11 0	es from Ø 470 mm diameter with ju fortable handling	st one tool				
70000	System 4-70	knife with protec	ted hook blade with bracket No. 28	8 - 28 mm	1 152.34			
79016	Bracket No. 16	bracket for syst	em 4 - 70 for cables with diameter	4 - 16 mm	305.91			
79035	Bracket No. 35	,	em 4 - 70 for cables with diameter	27 - 35 mm	349.62			
79050 79070	Bracket No. 50 Bracket No. 70	•	em 4 - 70 for cables with diameter	35 - 50 mm 50 - 70 mm	349.62			
19000	– Bracket No. 70	•	em 4 - 70 for cables with diameter are blade for above cable knives	(3 pc set)	349.62 328.92			
	ble strippers	for coaxial cab		(0 p0 000)				
			easy and quick motions, striping the damage to the wires or essential sh					
	,		TV antenna cables, RG58/59, PVC- the inner metal shield	-Flex 3 x 0.75 mm ²				
30600	Coaxi No. 1	Coax/RG59/59, C	CAT and PVC cables 3 x 0.75 mm ²	Ø 4.8 - 7.5 mm	379.52			
PC-Strip)	for PVC-insula	ted data communications and co	ontrol cables				
Special sh	neathing and insulation	n stripping tool for	PVC-insulated data communications	and control cables.				
No adju	ustment of cutting de	pth necessary	(wire stripping range 0.2 - 4.0 m	m²)				
30160	PC-Strip	data/network/p	orinter/control cables 0.24 mm²	Ø 5 - 15 mm	863.68			
PC-CAT		for CAT5, CAT	6, CAT7, Twisted-Pair-Cable					
For PVC-insulated data communications and control cables Cat5, Cat6, Cat7, twisted-pair, network and thinly insulated cables. Also for stripping individual wires (0.20.8 mm²)								
,	ustment of cutting de ted, multi-functional		(wire stripping range: 0.20.8 r	nm²)				
30161	PC-CAT		cable or twisted pair 0.24 mm²	Ø 4.5 - 10 mm	691.18			
SE-Strip		for standard e	nergy and security cables, doubl	e shielded solar ca	ables			

For all common security, energy cables and double shielded solar cables with convenient pocket clip.

- No adjustment of cutting depth necessary
- Included wire stopper / length scale 8 10 12 mm

 30190
 SE-Strip 2.5-6
 energy/double shielded solar cable Ø7.5...9.5 mm
 2.5/4/6 mm²
 668.18

 30200
 SE-Strip 10/16
 energy/double shielded solar cable Ø 11...13 mm
 10 - 16 mm²
 668.18

Quadro Plus 4 functions in one - cutting - twisting - stripping - crimping

Ergonomic, automatic wire stripper and crimping pliers for wires from 0.5...2.5 mm² wire stopper for perfect length, for quick precise stripping and crimping on insulated sleeves.

- · Self adjusting blades cause no damage to conductors
- Integrated twisting device prevents splaying of wire strands
- Trapezium crimping to VDE 0609
- Cartridge accepts insulated ferrules (in strips) 0.5...2.5 mm²
- Incorporated side cutter for wires up to 2.5 mm²

62000	Quadro	insulated carrying case with 2 spare cartridges	0.5 - 2.5 mm ²	5 813.44
60100	-	spare quick-change cartridges for Quadro tool	-	244.96















Manual crimping tools for wire ferrules (bootlace terminals)

· Ergonomically designed non-slip moulded plastic grips

insulated

insulated

insulated

uninsulated

end sleeves

end sleeves

end sleeves

HP3

HNN3

HNN4

HN-A25

HNKE4

HNKE16

HNKE50

• Emergency release lever (releases jaws before completion of crimp)

0.25 to 6

1.5 to 10

10 to 16

10 to 25

0.5 to 4

4 to 16

25 to 50

• Factory-set ratchet for crimping control (automatic release on completion of crimping operation)

side

side

side

side

side

side

side

Proteus 10S - Professional self-adjusting crimping tool providing a square crimp cross section suitable for wire ferrules 0.14...10 mm². Ergonomically shaped handles with selected surface textures for comfortable, frequent use.

- Professional self-adjusting crimping tool providing a square crimp profile on wire ferrules
- Full cycle ratchet mechanism ensuring consistent, reliable crimp (release on completion of crimping operation)
- · Ergonomic handles, light weight, low handle force and optimum opening for comfortable crimping
- Release lever to clear miscrimps and obstructions (releases jaws before completion of crimp)

	ubber grip pad for			releases jaws before completion of crimp) st a surface	
type	for terminals	conductor (mm²)	cable entry	description	price
Pressmast	ter - Profession	al self-adjustin	g crimp	ping tool	
• .	ision die geometr s self-adjustment t	•		uare crimp shape of the ferrule	
4300-4661	ferrules	0.1410	side	professional self-adjusting crimping tool	3 167.20
Mobile fra	me system - wit	h interchangea	able die	s for various terminals	
				st types of mechanical, electrical and electronic ogether with a special pin to simplify handling.	
				rate with a parallel action stroke. imp dies (no special tools required)	
4300-3149	die dependant		side	MCT frame only for interchangeable dies	826.88
A wide rai	geable die sets to nge of crimp dies kept in pairs and c	to cover all appli	cations i	n just one tool frame. usable box.	
4300-3129 4300-3128 4300-3137 4300-3139 4300-3127 4300-3153 4300-3154	insulated insulated uninsulated uninsulated end sleeves end sleeves end sleeves	0.5 to 2.4 4 to 6 0.75 to 2.5 4 to 10 0.25 to 10 16 to 25 35 to 50	side side side side side side	red/blue insulated terminal crimping die set yellow insulated terminal crimping die set cable lug crimping die set cable lug crimping die set wire end sleeve crimping die set	592.27 592.27 507.17 507.17 507.17 1 645.71 507.17
4300-3146 4300-3136	open barrel coaxial	0.5 to 6 RG58/59/62/71	side side	open barrel connector crimping die set coaxial connector crimping die set	2 472.58 1 645.71
Z&F - Crim	nping tools (for i	nsulated and u	ninsulate	ed ferrules)	
Crimpit 2.4 Crimping t	end sleeves	0.5 to 2.4		economic crimping tool (front and side entry)	1 024.69
Crimpit F6I Crimpit F16 Crimpit F25		0.5 to 6 6 to 16 6 to 25 35 to 50	side side side side	crimping tool for wire end ferrules (5 profiles) crimping tool for wire end ferrules (3 profiles) crimping tool for wire end ferrules (4 profiles) crimping tool for wire end ferrules (2 profiles)	1 637.66 1 637.66 1 741.16 1 741.16
Crimpit IT6L (for pre-insulated cable lugs) Crimping tool for PVC, PC and DPA insulated lugs, with ratchet closing control Crimping profiles for different wire cross-sections (red/blue/yellow) Crimpit IT6L insulated 0.5 to 6 side crimping tool for pre-insulated lugs (3 profiles)					
Jeesoon -	Crimping tool f	or pre-insulate	d termi	nals	
• Crimping	net closing control profiles for differe	nt wire cross-sec	•	•	
JSL 1305-1	insulated	0.5 to 6	side	crimping tool for pre-insulated terminals	856.78
Cembre - 0	Crimpstar range	- Ratchet crin	ping to	ools	

1 906.76

2 141.37

2 037.87

3 455.86

2 455.33

2 455.33

3 785.92

red/blue/yellow ratchet crimping tool

manual indent ratchet crimping tool

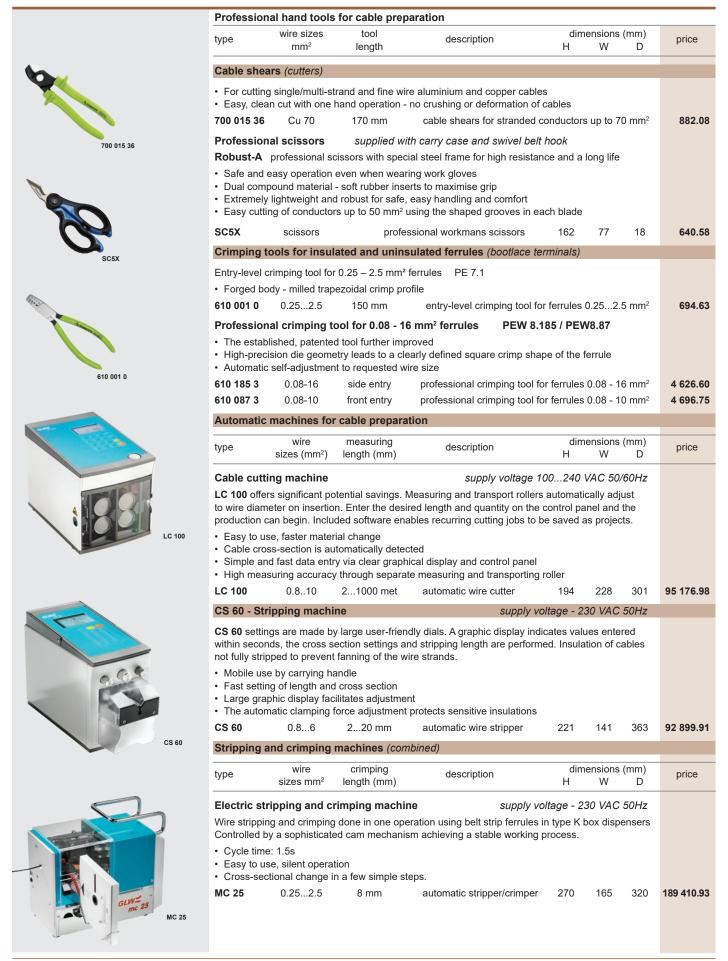
manual indent ratchet crimping tool

wire end sleeve crimping tool

wire end sleeve crimping tool

wire end sleeve crimping tool

manual hexagona ratchet crimping tool





lightweight and compact









Hydraulic crimping / cutting tools

type	for	conductor	crimping	description	price
турс	terminals	(mm ²)	force (kN)	description	price

HT and TC series - Hydraulic tools

Spring loaded handles, dies can be advanced using only one hand

- Pressure release system can easily be operated at any stage of compression
- For ease of operation and comfort of operator, tool head can be fully rotated 180°
- Supplied with sturdy plastic carrying case for tool with compartments. (for dies, see page M-7)

HT45 compact hydraulic crimping tool

HT45-E die dependant max. 150 50 kN hydraulic crimping tool 17 791.06

HT51 -2 speed hydraulic crimping tool

Supplied with sturdy plastic carrying case for tool and (included) die sets:
 ME 5-50, 7-50, 10-50, 14-50, 19-50, 24-50, 30-50, 37-50

KITHT51-1 die dependant max. 240 50 kN hydraulic crimping tool 29 302.92

HT131 hydraulic crimping tool for semi-circular slotted dies

 Supplied with sturdy plastic carrying case for tool and (included) die sets: ME 10-C, 14-C, 19-C, 24-C, 30-C, 37-C, 48-C

KITHT131-C-1 die dependant max. 400 130 kN hydraulic crimping tool 40 975.79

RH series - Hydraulic presshead

Hydraulic presshead complete with quick automatic coupler

for connection to a hydraulic pump with a working pressure of 700 bar max.

RHC131 die dependant max. 400 130 kN hydraulic presshead only 17 756.56

TC series - Hydraulic cutting tool

Hand operated hydraulic tool specifically designed to cut Copper, Alluminium-Steel cables. Double speed action: a fast advancing speed for rapid approach of blades to cable and a slower more powerful speed for cutting.

 $\bullet \ \ \text{HT-TC...} \ \text{can cut copper, aldrey, aluminium, aluminium-steel cables and steel ropes and steel rods}$

type	/pe max. cutting diameter Ø		width	description	price			
TC026 compac	t hydraulic cutting t	ool s	supplied with car	nvas carrying bag for tool				
HT-TC026	Ø 25 mm	382 mm	129 mm	hydraulic cutting tool	26 048.32			
TC series -2 speed hydraulic cutting tool supplied with plastic carrying case for tool								
HT-TC041N	Ø 45 mm	550 mm	144 mm	hydraulic cutting tool	35 099.10			
TC series hydra	aulic cutting head	5	supplied with car	nvas carrying bag for tool				
Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max.								
TC050	Ø 50 mm	325 mm	112 mm	hydraulic cutting head	29 509.93			
Larger sizes available on request.								

Hydraulic foot operated pump

- Pressure release can easily be operated at any stage of compression
- · Supplied with 3 meter long high pressure flexible hose with self-lock quick coupler

PO - Foot operated double speed pump develops a maximum pressure of 700 bar

Supplied with solid shaped stand providing stability during operation
 Supplied with sturdy plastic carrying case for tool

PO7000 700 BAR 680 mm 200 mm hydraulic foot operated pump 32 385.02

Manual crimping tool

- · Heat treated steel crimp jaws
- · Handles of anti-slip plastic with hilt

TN series (indent crimp) adjustable for different conductor sizes

• Easily adjustable die positioning by knurled screw and reference vernier scale

TN70SE uninsulated 6 to 70 indent adjustable manual crimping tool 7 to 120 indent adjustable manual crimping tool 7 424.64













Battery operated crimping tools

Cordless hydraulic crimping tools (18.0 V Li-lon high power batteries)

- · Pressure release button
- · Extremely quiet, minimal vibration
- · One hand operation, improved balance for better handling
- · Tool head rotates 180° for ease of operation in confined spaces
- · Durable moulded body with high resistance to wear and damage in all operating conditions

typo	for	conductor	crimping	description	price
type	terminals	(mm²)	force (kN)	description	price

B450ND-BV series - "Inline" type crimping tool

B450ND-BV is a new generation of hand-held cordless tool suitable for crimping electrical connectors onto conductor cross sections up to 150 mm². Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality.

- · LED light illuminating working area
- Wide opening head, ideal for derivations from running conductors
- One Li-Ion 18.0V 2.0Ah batteries and charger included (indication of remaining battery life)
- · Supplied with:

Plastic carrying case for tool, battery, charger and space for die sets

B450ND-BV die dependant max. 150 35 kN battery operated crimping tool 66 380.08

B500 series - "Pistol grip" type crimping tool

Designed with less weight and improved balance, B500 is easily manageable during the crimping process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage.

- LED light illuminating working area
- · Li-Ion 18.0V 5.2Ah high power battery
- · Crimping cycle data stored (up to 200.000 events) in memory for later transfer to PC
- · Digital display indicating: crimp pressure, available battery life, service/maintenance info
- · Supplied with:

Plastic carrying case for tool, 2 x battery, charger and (included) die sets:

ME 5-50, 7-50, 10-50, 14-50, 19-50, 24-50, 30-50, 37-50

KITB500-1 die dependant max. 300 60 kN battery operated crimping tool 68 588.15

B1300 series - Portable crimping tool

- · LED light illuminating working area
- · Li-Ion 18.0V 5.2Ah high power battery
- Crimping cycle data stored (up to 200.000 events) in memory for later transfer to PC
- · Digital display indicating: crimp pressure, available battery life, service/maintenance information
- · Supplied with:

Plastic carrying case for tool, 2 x battery, charger and (included) die sets:

ME 10-C, 14-C, 19-C, 24-C, 30-C, 37-C, 48-C

KITB1300-C-1 die dependant max. 400 132 kN battery operated crimping tool 91 427.87

Die sets for crimping - see page M-7

Hydraulic pump (supplied with sturdy plastic carrying case for pump accessories)

- Pressure release can easily be operated at any stage of compression
- · Supplied with:

0.9 meter long high pressure flexible hose with self-lock quick coupler

Li-Ion 18V 4 Ah battery (supplied) B1300 -battery operated hydraulic pump

- · Supplied with pump, battery and charger, 0.9m flexible hose with quick connector
- · Plastic carrying case suitable for storing the pump, battery and charger and all accessories.

B1300PL 700 BAR 354 mm 240 mm battery operated pump 54 132.20

Die sets for crimping - see page M-7

Universal key for switchboards

Equipped with: triangular shape 7 - 8 mm double notch 3 - 5 mm

5 - 6 / 7 - 8 mm square shape screwdriver bit (flat and star) and hexagonal holder

UKC4 universal panel key square/triangle/double notch for switchboards (+ screwdriver) 723.38



Die sets for hydraulic and battery operated crimping tools								
		for	conductor	crimping		for	prico	
	type	terminals	(mm²)	type		crimping tool	price	
	Die sets for un	ninsulated terminals						
	ME1	cable lugs	46	hexagonal		HT45-E	1 023.54	
Gr. • ME1	ME2	cable lugs	10	hexagonal		HT45-E	805.03	
ME1	ME3	cable lugs	16	hexagonal		HT45-E	805.03	
	ME5	cable lugs	25	hexagonal		HT45-E	805.03	
	ME7	cable lugs	35	hexagonal		HT45-E	805.03	
	ME10	cable lugs	50	hexagonal		HT45-E	805.03	
	ME14	cable lugs	70	hexagonal		HT45-E	805.03	
	ME19	cable lugs	95	hexagonal		HT45-E	805.03	
	ME24 ME30	cable lugs cable lugs	120 150	hexagonal		HT45-E HT45-E	805.03 805.03	
		•		hexagonal 				
	ME1-50	cable lugs	46	hexagonal		HT51/B450ND/B500	1 116.69	
O 9 15 1	ME2-50	cable lugs	10	hexagonal	$ \langle \ \rangle $	HT51/B450ND/B500	805.03	
ME7	ME3-50 ME5-50	cable lugs	16	hexagonal		HT51/B450ND/B500 HT51/B450ND/B500	805.03 805.03	
	ME7-50	cable lugs cable lugs	25 35	hexagonal hexagonal		HT51/B450ND/B500	805.03	
	ME10-50	cable lugs	50	hexagonal		HT51/B450ND/B500	805.03	
	ME14-50	cable lugs	70	hexagonal		HT51/B450ND/B500	805.03	
	ME19-50	cable lugs	95	hexagonal		HT51/B450ND/B500	805.03	
	ME24L-50	cable lugs	120	hexagonal		B450ND	970.64	
	ME30L-50	cable lugs	150	hexagonal		B450ND	970.64	
	ME24-50	cable lugs	120	hexagonal		HT51/B500	970.64	
@MAI-50	ME30-50	cable lugs	150	hexagonal		HT51/B500	970.64	
	ME37-50	cable lugs	185	hexagonal		HT51/B500	970.64	
MA1-50	ME48-50	cable lugs	240	hexagonal		HT51/B500	3 020.00	
	MA1-50	nest	46	indent		HT51/B450ND/B500	731.43	
	MA2.3-50	nest	10	indent		HT51/B450ND/B500	731.43	
	MA5-50 PA5-50	nest indentor	25 425	indent indent		HT51/B450ND/B500 HT51/B450ND/B500	731.43 2 177.02	
	MA7-50	nest	35	indent		HT51/B450ND/B500	713.03	
ml. Am	MA10-50	nest	50	indent	D 7	HT51/B450ND/B500	713.03	
	PA10-50	indentor	3550	indent		HT51/B450ND/B500	2 177.02	
	MA14-50	nest	70	indent		HT51/B450ND/B500	759.03	
Φ MA19-50	MA19-50	nest	95	indent		HT51/B450ND/B500	759.03	
MA19-50	PA19-50	indentor	7095	indent		HT51/B450ND/B500	2 177.02	
IVIA 19-30	MA24-50	nest	120	indent		HT51/B450ND/B500	713.03	
	PA24-50	indentor	120	indent		HT51/B450ND/B500	2 177.02	
	ME7-C	cable lugs	35 50	hexagonal		HT/RHC131/B1300	1 855.01	
	ME10-C ME14-C	cable lugs cable lugs	50 70	hexagonal hexagonal		HT/RHC131/B1300 HT/RHC131/B1300	1 855.01 1 855.01	
	ME19-C	cable lugs	95	hexagonal		HT/RHC131/B1300	1 855.01	
	ME24-C	cable lugs	120	hexagonal		HT/RHC131/B1300	1 855.01	
	ME30-C	cable lugs	150	hexagonal	$ \langle \ \rangle $	HT/RHC131/B1300	1 855.01	
	ME37-C	cable lugs	185	hexagonal		HT/RHC131/B1300	1 855.01	
MA7-C	ME48-C	cable lugs	240	hexagonal		HT/RHC131/B1300	1 855.01	
	ME60-C	cable lugs	300	hexagonal		HT/RHC131/B1300	1 855.01	
	ME80-C	cable lugs	400	hexagonal		HT/RHC131/B1300	1 855.01	
	MA7-C	nest	35	indent		HT/RHC131/B1300	1 007.44	
	MA10-C	nest	50	indent		HT/RHC131/B1300	1 007.44	
	PA10-C	indentor	1050	indent		HT/RHC131/B1300	2 219.57	
	MA14-C MA19-C	nest nest	70 95	indent indent		HT/RHC131/B1300 HT/RHC131/B1300	1 007.44 1 007.44	
	MA24-C	nest	120	indent		HT/RHC131/B1300	1 007.44	
46-482051 (2)	PA24-C	indentor	70120	indent	\sim	HT/RHC131/B1300	2 219.57	
	MA30-C	nest	150	indent		HT/RHC131/B1300	1 007.44	
MN2RF-50	MA37-C	nest	185	indent		HT/RHC131/B1300	1 007.44	
	MA48-C	nest	240	indent		HT/RHC131/B1300	1 007.44	
	PA48-C	indentor	150240	indent		HT/RHC131/B1300	2 219.57	
	MA60-C	nest	300	indent		HT/RHC131/B1300	1 718.16	
	PA60-C	indentor	300	indent		HT/RHC131/B1300	2 219.57	
		sulated terminals					4.6	
MOLNINO	MN2RF-50	cable lugs	10	radial		HT51/B450ND/B500	1 097.14	
09.30	MN3RF-50	cable lugs	16	radial		HT51/B450ND/B500	1 097.14	
MN10RF-50	MN5RF-50	cable lugs cable lugs	25 35	radial		HT51/B450ND/B500	1 097.14 1 097.14	
	MN7RF-50 MN10RF-50	cable lugs	50	radial radial		HT51/B450ND/B500 HT51/B450ND/B500	1 097.14	
	131XI -30	oabic lugs	50	rauiai		111017001401000	1 337.14	





DIN rail cutter (professional)

DIN rail cutter (for steel mounting rail only)

DIN rail is often cut by saw or angle grinder creating dust, noise and a considerable risk of injury. The RC200 is a high quality, professional DIN rail cutter designed for high output, offering "burr-free" precision cutting and trimming of standard DIN rails.

- · Increased work safety and quiet operation
- · Quick and professional burr-free processing
- Metric scale plate and table clamp (optional)
- Incorporates two cut profiles (7.5 x 35 and 15 x 35 mm) DIN rails.
- · Precision "burr-free" cut and trim of DIN rail to length without waste

type	rail cutter	for rail depth (mm)	description	price			
DIN rail cutt	DIN rail cutter (professional)						
RC200 DIN rail cutter for DIN 35 rail 7.5 and 15 mm deep							
008328	cutter	7.5 + 15	DIN rail cutter <i>(2 profiles)</i> for 7.5/15 mm high x 35 mm rail	18 941.10			
Accessories for above RC200 DIN rail cutter							
009465 009102	scale clamp	metric scale	plate and length stop for above DIN rail cutter RC200 table clamp for above DIN rail cutter RC200	3 223.56 1 250.09			



Made in Italy



type	duct	max.	max.	description	price
type	cutter	cut width	lenath stop	description	price

Bench mounting wiring duct (slotted trunking) cutter

VTC125 provides fast, precise and burr-free cutting of wiring ducts, without leaving chips behind. It enables low-noise and emission-free working. The scale with length stop ensures the wiring ducts are cut to length quickly and with millimetre precision

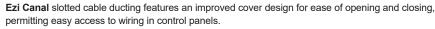
For fast, accurate cutting of wiring ducts to lengths, without burrs and with very little force

- · Blade guard guarantees secure operation
- · Burr-free cut edges No noise, no chips or dust
- · Quick and easy cutting ducts cut precisely to the millimetre
- Supplied with a 1 meter graduated dimension rule with length stop
- Hardened (replaceable) cutting blade max. cutting width 125 mm

VTC125 cutter 125 mm 1000 mm precision slotted wiring duct cutter 20 367.14







- · Simple open/close cover design for easy access to wiring in control panel
- Double score-line permits finger/slot or complete sidewall removal
- Coining process for burr-free edges to protect hands and wiring from abrasion

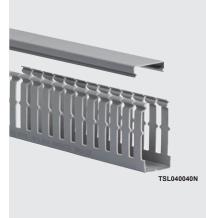
Standard colour: Grey - others available on request (volume dependant) Standard length: Supplied in two meter lengths, complete with covers

				slot	finger	carton	
type	dimensions (mm)	colour	description	Α	В	qty	price
	(W) (H)			(mm)	(mm)	(L - 2 m)	each

Narrow s	lotted trunki	ng	Finger: 6	mm / Slot - 4 mm	(10 mr	n pitch))	
-71-	(W)	(H)		шттири	(mm)	(mm)	(L - 2 m)	
type	dimensio	ons (mm)	colour	description	Α	В	atv	price

Narrow slotted trunking			Finger:	Finger: 6 mm / Slot - 4 mm			(10 mm pitch)		
Narrow slot/finger design to closely fit spacing of high density terminal blocks and I/O modules									
KKC1518	15	18	grey	PVC slotted cable trunking	5	7.5	112	see page	
TSL025025N	25	25	grey	PVC slotted cable trunking	4	6	48	L-11 for	
TSL025040N	25	40	grey	PVC slotted cable trunking	4	6	40	pricing.	
TSL040040N	40	40	grey	PVC slotted cable trunking	4	6	24		
TSL060040N	60	40	grey	PVC slotted cable trunking	4	6	24		
TSL080040N	80	40	grey	PVC slotted cable trunking	4	6	18		



















Installations connected to an electricity distribution network, require measurements to be performed with power off to avoid electrical hazards (EN 50110-1 standard, DIN VDE 0682-401, NF C 18-510, etc.) Securing the installation to ensure that it is non-current-carrying, requires the use of a Voltage Absence Tester.

- Comprehensive integrated autotest indication of type of fault also displays a text message for information.
- IP65 protection for indoor and outdoor use, significantly higher than the IP54 rating required by the standard.
- Audible and visual continuity indication up to 100 Ω , in compliance with standards recommendations.
- Removable test probes to meet specific requirements in certain applications (various models available)

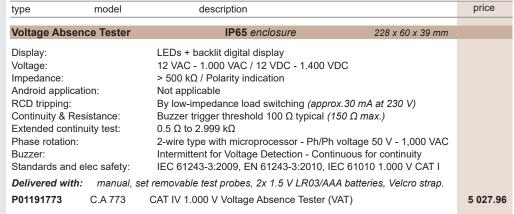
AC and DC voltage testing Voltage detection takes priority, is automatic and indicated by distinct visual (bargraph) and intermittent beep. Stray voltages can be detected by pressing two buttons simultaneously to switch to low impedance mode.

2-wire phase rotation with microprocessor Simple and quick, the 2-wire phase rotation function with microprocessor is useful in all circumstances, including installations powered by an electrical generator set or behind an isolating transformer.

Continuity and resistance testing Checks that conductors are correctly connected. Continuity (R < 100 Ω) is indicated by a continuous audio signal whilst the resistance value is displayed directly.

Residual Current Device (RCD) trip test up to 30 mA By simultaneously pressing the double command, you can cause a fault current sufficient to trip the RCD to flow through a low-impedance load.

Ergonomics specially designed for use in the field Digital display, removable test probes ensure excellent handling. A built-in torch illuminates the point of measurement.



Digital multimeter (CAT IV 600 V)

General-purpose professional measuring instrument with TRMS measurements (sinusoidal, distorted and DC signals) measurement accuracy, rugged design, reliability of an on-site instrument.

- Double backlit display
- Min/Max memorization
- Large 6000-count display
- Temperature and capacitance measurements

Display: 2 x 6000 counts, backlit

(63 elements) Bi-mode (full scale / central zero) Bargraph:

Acquisition: TRMS AC / DC

Measurement rate: 5 measurements per second

Automatic / manual ranges: Yes / Yes

AC/DC voltage: 600 mV / 6 / 60 / 600 / 1.000 V - accuracy 0.2% - 40Hz to 3kHz

LowZ AC voltage: Low-impedance setting with Low-pass Filter

AC/DC current: 6.000 A / 10.00 A (20 A/30s)

Resistance measurement: 600 / 6.000 Ω / 60 / 600 $k\Omega$ / 6 / 60 $M\Omega,$ Audible continuity, Diode test

600 Hz / 6 kHz / 50 kHz Frequency: 8 cal.: 6.000 nF to 60.00 mF Capacitance: Temperature: -59.6 to +1.200°C / -4 to +2.192°F Min / MAX (100 ms) Hold facility: Yes

Min / MAX (100 ms): Yes

Automatic power-off: Yes (can be deactivated)

IEC 61010-1, IEC 61010-2-033 CAT IV 600 V / CAT III 1000V Safety

Power supply: 1x 9 V 6LR61 battery Dimensions / weight: 90 x 190 x 45 / 400 a

Delivered with: Set leads, set test probes, 1x 9V 6LR61 battery, K thermocouple temp sensor

P01196773 C.A5273 digital multimeter hand held for all applications 6 930.12

Accessories for above C.A5273 multimeter

P01298076 carrying bag with MultiFix multi-position mounting accessory





P01196773



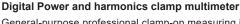
1 114.39







Volt DC



General-purpose professional clamp-on measuring instrument with True RMS measurement accuracy, reliable and particularly resistant to falls.

Clamping diameter: Ø34 mm

Large 6000-count, backlit LCD screen Display:

Amp (RMS) AC 600 A DC, AC+DC 900 A

1000 V - 1% Volt AC (RMS) AC DC, AC+DC 1400 V - 1% Automatic AC/DC detection: Yes (V and A)

Frequency for V/I: Yes / Yes Resistance measurement: $60 \text{ k}\Omega$

Audible continuity: Yes (< 1 Ω...599Ω) Diode test: (semi-conductor junction) -60.0 to +1000 °C Temperature (type K):

Power: W, var, VA, PF Yes - single-phase and total three-phase

Harmonic analysis: THDf / THDr Phase rotation: (2-wire method)

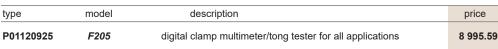
Motor-inrush function: Yes True-inrush function' Yes "Min / Max" / Peak function: Yes / Yes Auto Power off / "Hold" function: Yes Low battery indication: Yes

Electrical safety as per: IEC 61010 CAT IV 600V, CAT III 1000 V

Dimensions / weight: 78 x 222 x 42 / 340g

1 set of PVC leads (black/red) with insulated elbowed male banana plug / insulated Delivered with:

straight male banana plug, 2 test probes / insulated female plug (black/red) 1 safety crocodile clip (black) 1 x 9 V 6LR61 battery, 1 Multifix shoulder bag, mini-CD containing the User Manual.



Power and harmonics clamp multimeter IP54

Current 1000 A, Voltage 1000 V, power, harmonics and recorder

Clamping diameter: Ø48 mm

Large triple 10 000 count, backlit screen Display:

Amp (RMS) AC 150mA to 1000 A - 1% DC, AC+DC 150mA to 1500 A - 1%

Volt AC (RMS) 100 mV to 1000 V - 1% AC Volt DC DC, AC+DC 100 mV to 1000 V - 1%

Automatic AC/DC detection: Yes (V and A) Resistance measurement: 100 kΩ

(continuity buzzer) Audible continuity: Yes (< 40 Ω)

Frequency: 15Hz to 20kHz

Power: W, VA, var Yes - single-phase and total three-phase

PF and cos φ (DPF): Yes THDf % / THDr %Total Harmonic Distortion:

Yes - up to 25th order Harmonic decomposition: Crest factor (CF) / Motor InRush: Yes

Current surge (True InRush): Yes "Min Max" / Peak function: Yes / Yes Auto power off / "Hold" function: Yes

REC storage function: Yes - (up to 3000 measurements)

Yes Data logging: PC / Bluetooth interface: Yes

IEC 61010 CAT IV 1000V, CAT III 1000 V Electrical safety as per:

Multifix shoulder bag, Power Analyser Transfer (PAT) software, 2 voltage Delivered with:

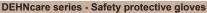
leads (red/black), 2 test probes (red/black), 2 crocodile clips (red/black), 4x 1.5 V AA

alkaline batteries, operating manual.

P01120947 digital clamp multimeter/tong tester for all applications 14 490.46

P01102100Z hands free mounting clip

Accessories for above F205\F407 multimeters



· Size (international): 8 - medium

IEC 61482-1-2 /1-1, DIN EN 388 / 407

· Direct incident energy (after box test: class 2) (Eio): 427 kJ / m²

· Good touch sensitivity due to soft leather glove palm (breathable materials maximise wearing comfort)

785796 medium Arc-fault tested protective gloves





P01120925



2 971.70

462.32























Chauvin Arnoux - PEL103 Power & Energy Loggers IP54 casing

Portable, advanced yet simple to use Power and Energy logger, designed for energy audits (ISO 50001 standard) or one-off measurements of the Power and Energy values in low-voltage electrical networks (1000 V CAT III)

PEL100 series Power and Energy loggers provide a complete solution to measuring and identifying energy consumption in any industry, they can be used handsfree, remotely without interruption to the mains power.

The logger tracks even the slightest consumption in an electrical network, providing all Power and Energy measurement recording on the internal 2GB SD card, while simultaneously permitting real-time monitoring on its backlit 4 line LCD display.

Recordings are time/date stamped for ease of comparing measured gains achieved before and after installation modification. Easily transfer recorded data to a PC via the free PEL data transfer software and SD card with USB adaptor (included).

Designed to fit inside most electrical cabinets thanks to its magnetic base or hook for easy mounting.

Key Features of the PEL103 include:

Measurements and display of:

- RMS frequency, voltage and current measurements
- Voltage measurement ranges 10 to 1000V AC/DC +/- 0.2 % + 0.5 V
- Current measurement ranges 5 mA to 10 kA AC / 50 mA to 1.4 kA DC ±0.5 %
- VA, W and var power values
- Power Factor (PF), $\cos \varphi$, $\tan \varphi$ and crest factor
- Total Harmonic Distortion (THD) for currents and voltages
- DC, 50 Hz, 60 Hz and 400 Hz measurements
- Phase rotation indication and MIN/MAX indication of all parameters
- VAh, Wh (source, load) and varh (4 quadrant) energy values, total energy
- Harmonics: up to the 50th order for currents and voltages (an essential feature to help identify problems)
- Three phase (with or without neutral), split phase, single phase Network types include:
- Automatic recognition: Of the type of sensor connected
- Communication / Data transfer: USB, Ethernet and Bluetooth / PEL transfer PC software (included)
- Records: Measurements and calculation results on SD card (included)
- Acquisition rate: 128s/period

PEL 103 Power and Energy logger (KIT) (created as a complete kit with following accessories)

1 x PEL103 Power and Energy Logger: Analyser with backlit LCD screen

3 x MA193 (200 mm) flexible current clamps: MINIFLEX MA193 flexible current sensors - 200mA to 10 kA 4 x Measurement leads and crocodile clips: Robust high quality test leads for frequent use/built to last

1 x Set of coloured rings and Inserts: For easy identification of connections and leads

1 x 2GB SD card (internal): SD card to USB adaptor

SD card to USB adapter, USB cable, mains cable, MultiFIX mounting system, operating manual (on CD) PEL transfer PC software enabling data to be transferred to PC, all in a convenient canvas carrying bag.

to one o		de a colodia o	dimensions (mm)			price		
type	model	description	(H)	(W)	(D)	(ea)		
PEL 103 Power and Energy logger (KIT)								
P01157151 P01157150	PEL103 (KIT) PEL102 (KIT)	portable power and energy logger/analyser as above, but without LCD display screen	256 256	125 125	37 37	61 883.44 38 514.71		
Accessories for PEL103 Power and Energy logger								
P01120434B P01120323B P01120580 P01120526B* P01101959	MN 93A C193 MA193-250 A193-450 CA833X-F	compact tong clamps for PEL102/3 compact tong clamps for PEL102/3 Ampflex 250 mm flexible current sensor Ampflex 450 mm flexible current sensor for reading from 5A secondary CT's	Ø20 mm Ø52 mm Ø70 mm Ø140 mm	0.005 - 1 - 10 200mA - 100mA - 5A ada	00A 10kA 10kA	6 930.12 10 000.72 5 835.29 5 896.24 33 374.05		
P01102134 P01295174* P01295476* P01102080* P01298078*	self-power mains lead test leads set bag no.23	mains adaptor for self powering PEL from supmains power cable - (2P EUR) spare measurement leads (3m) with croco ID rings and inserts (for ends of leads and canvas carrying bag for PEL analyser and	odile clips sensors)	mains ad KIT (bl diff. col	ack)	4 349.55 355.37 3 233.91 924.63 1 875.71		
* Items supplied with standard PEL KIT.								
Data processing software nower quality & installation supervision								

Data processing software

power quality & installation supervision

Automatically recognizes the instrument connected to the PC and opens the corresponding menu, providing direct access to the configuration and saved data. Includes many predefined report templates for quick generation in compliance with applicable standards. Users can create personalised models to fit their requirements and add comments directly.

- Configuration of all the functions of instruments connected to a PC or via Bluetooth
- Recovery of the recorded measurement data and backup of measurement files
- Opening of saved files / processing and creation of reports (EN50160)
- Export into an Excel spreadsheet or PDF format / Database management

P01102095 **DataView** powerful configuration/transfer/measurement data processing software 15 249.48

DIACAM 2 is a high performance thermal camera making it simple to perform thermal inspections for energy audits, ensuring trouble-free industrial, electrical or mechanical maintenance.

The wide 2.8-inch screen with auto brightness adjustment provides comfortable reading with a field of view of 38° x 28° and the camera is focus-free. A built-in sliding cover protects the highly sensitive lens. Contextual help guides users step-by-step, limiting the risk of errors. Particularly rugged, with IP54 ingress protection, the camera can withstand falls from 2 metres.

Industrial maintenance For electrical maintenance, can detect electrical equipment malfunctions, particularly abnormal overheating before a fault occurs, avoiding the considerable cost of halting production to carrying out repairs.

Report creation The supplied CAmReport® software, used to create automatic reports can be exported in Word or PDF format, simplifying printing and archiving.

Features:

- Flexible use thanks to its Laser pointer and focus-free capability with 38° x 28° field of view
- Exceptional 9-hour continuous use
- · Recovery of data from other measuring instruments (current, humidity, dew point, etc.)
- · Recording and storage in memory of the configurations for each application
- · Allows you to record voice comments directly on the image
- · Comfortable grip, perfect balance with direct access to all functions with just one hand
- Wide 2.8-inch screen with automatic or manual brightness control
- · Slide-down protective lens cover
- · Quick start-up

Detector:

Type: UFPA microbolometer, 8 \sim 14 μm

Frequency: 9 Hz

Sensitivity (N.E.T.D): 80 mK @ 30°C (0.08 °C @ 30 °C)

Temperature Measurement:

Temperature range: -20 °C to +250 °C Accuracy: ± 2 °C or ± 2 % of reading

Image Performance:

Thermal image: -20 °C to +250 °C

Field of view: 38° x 28°
IFOV (spatial resolution): 4.1 mrad
Focus: Fixed
Minimum focal distance: 30 cm

Real image: Yes (320 x 240 pixels)

Display mode: Thermal image, real image with automatic parallax compensation

(merging of both images possible with PC software)

Analytical Functions:

Measuring Tools: Manual cursor + automatic detection + Min Max Avg on adjustable area

+ temperature profile + isotherm

Parameter settings: Emissivity, environmental temperature, distance, relative humidity

Vocal comments: Yes via Bluetooth (earphones provided)

Data storage: On 2 GB micro SD card (approx. 4.000 images) replaceable up to 32 GB

Image format: PNG - thermal and real images recorded simultaneously

Laser pointer: Yes

Image Display:

Settings: Automatic or manual adjustment of the min max for the palette

Freezing of image: Animated or fixed image

Display of image: Multi-palette Screen: 2.8 inch

Power Supply:

Type: NiMH rechargeable batteries with low self-discharge

Recharging method: External charger (supplied)

Battery life: 9 hrs (typical) / 50 % brightness and Bluetooth deactivated

Dimensions / weight: 225 x 125 x 83 / 700 g

Delivered with: C.A 1954 thermal camera in a site-proof case with 4 NiMH batteries and battery charger, micro SD HC card, USB cable, Bluetooth earpiece, specimen measurement report, CAm Report® software

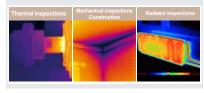
Thermal Camera - DIACAM 2	IP54

type model description price

P01651904 C.A 1954 high performance thermal camera 48 646.53























Electrical installation tester

Designed for checking safety on electrical installations, the **C.A 6133** tester can be used to test new before powering up, installations check existing installations whether in operation or not, and troubleshoot malfunctions. For certification organizations, these portable instruments are simple, effective and, above all, compliant with applicable standards.

The C.A 6133 is designed to be exceptionally simple to use. All measurements and functions are accessible directly on the front panel of these compact, lightweight instruments. Explicit markings on terminals prevent any risk of connection errors.

- · Earth measurement by stake and loop methods
- · Continuity measurement at 0.2A
- · Insulation testing
- RCD testing: Current and trip time
- Automatic test sequences
- Storage of test results
- ANDROID application for report generation
- · Power supply by mains-rechargeable batteries, USB socket or vehicle cigarette lighter

The C.A 6133 is equipped with a cable compensation function to ensure reliable measurements and can be used for Voltage, Continuity, Resistance, Insulation and Loop measurements. Current can be measured with *(optional)* MN73A external clamp. The tester also checks the phase rotation and can test type A & AC RCDs in ramp or pulse mode. To save time the C.A6133 can automatically run test sequences and store the results. For example, it is possible to store a sequence such as AUTO LOOP - RCD - $M\Omega$ to speed up work in the field.

Ergonomics:

- · Stand for positioning on a bench or table
- · Magnetized casing for magnetic mounting
- · 4-point strap for effortless hands-free use
- Backlit screen for easy reading, even in low light conditions
- Terminals with explicit markings (L, N, PE, H, S, E, +, com connections) prevent connection errors
- · Remote-control probe for starting tests remotely
- A three-pole cable for direct measurements on 2P + E sockets

The "IT Report" dedicated to electrical installation testing enables users to download test results via Bluetooth and to generate and view the measurement report.

Voltage measurement: 550 VAC / 800 VDC Continuity: At 200mA, Resistance: From 1 to 99.99 k Ω

Insulation: test voltage 250V, 500V or 1.000 V (0.01 - 999.9 M Ω / 10 k Ω or 100 k Ω / \pm (3% R + 3 cts)

Type AC & A RCDs: 30mA, 100mA, 300 mA, 500 mA, 650 mA

RCD in pulse mode: Tripping time
RCD in ramp mode (30 mA): Tripping current
Phase rotation: 45 to 550V; 45 to 65 Hz
Frequency measurement: 30 Hz to 999.9 Hz

Insulation: Additional 1.000 V test voltage

3P earth (stakes): Up to $2.000~\Omega$ Automatic RCD test sequence: No trip - pulse - ramp Automatic test sequence: Loop - RCD - $M\Omega$ Data storage: 30 sites with 99 tests each

Power supply: By rechargeable batteries with built-in charger

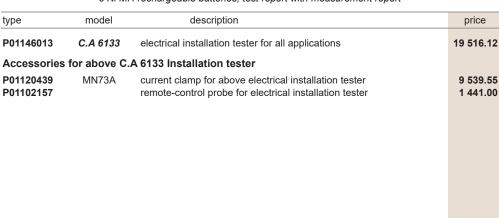
Bluetooth communication: Yes

Recharging possible via the mains, USB socket or vehicle cigarette lighter socket

Automatic recognition of the optional MN73A external clamp

Delivered with: Carrying bag containing: 1 neck strap, 1 three-pole EURO mains cable, 3 safety cables

with crocodile clips, 1 test probe, USB 2A power supply + USB cable, 6 Ni MH rechargeable batteries, test report with measurement report





P01146013

Notes

