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25
LAT

Overhead line construction equipment

Presses for electrical connections and traction hangers
Rope and cable cutting Djp
Tension holders
Conductor and cable reels
Grounding kits

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Mechanical eyelet press model with rotating dies



Model P05

Mechanical press rotating dies

Weight 1.4 kg

Working range : 6-50 ^{mm²}

Pressure 14 kN

Height 390 mm

Model P06

Mechanical press with rotating dies

Working range 10-120 ^{mm²}

Pressure 14 kN

Height 600 mm

Model P07

Mechanical press with rotating dies

Working range 25-150 ^{mm²}

Pressure 14 kN

Height 600 mm

Model P08

Mechanical press with rotating dies

Working range 70-240 ^{mm²}

Pressure 14 kN

Height 600 mm

* yellow

Traction hanger press model P82



Two-handed lever mechanism Copper cord connection

Material : Tool steel

Model P82 with fixed handles ,
Composite handles

Approach from the front of the prairie

Three notches in one press

Connection in accordance with the railway catalogue

Weight 2.05 kg

Length 560 mm Handle

width 140 mm

Handle width when opened 840 mm



E28/E82 Electro-hydraulic press for traction hangers



Electro-hydraulic press for traction hangers Type C head

Weight 2.7 kg
Piston stroke 15 mm

Operating range
Pressing 2-5 seconds
Operating pressure 700 bar
Pressure 40 kN
360 degree rotatable head
Biodegradable oil
Operating range -20 to +40 degrees C

Height 90x50x37 mm

Power supply :

Makita Li-Ion 18.0 V, 1.5 Ah battery charger with active cooling system:
cools down the battery during charging thanks to the built-in fan
Battery type: Lithium Ion/Li-Ion
Battery capacities: 1.5-5.0 (1.5 Ah standard battery)
Charging time: approx. 22 min
Charger supply 230 V

LED indication of battery charge status LED panel with battery data and number of pressings Automatic pressure fuse
Manual / automatic piston return Stop scissor operation / piston return - immediate
Optional workplace illumination (Night mode) Two-stage pump (idle, high pressure) Composite handle
Handle for attaching to belt or suspension

The set includes :

E28 cordless drill press Makita
charger
Rechargeable battery E18/2.0 - capacity 2.0 Ah , Plastic carrying case
Operating instructions

Options :

Additional battery
Choice of matrix

Description of photographs

1. Handy handle to hold the tool
2. Composite handle
3. Metal piston return button
4. Display with battery status and number of pressings performed
5. Night mode - workplace lighting standard
6. Clip-on swivel head





Hangar wire, cable and wire cutters



Hand shears for cutting Cu-wires and cables
hangar wire and aluminium cables . Crane
cutting allows easy cutting Single-handed shears
Single (C03) double (C05) cutting blade Not suitable for
cutting steel wire

weight	length	Ø	mm ²
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C03/1	rubber handle	215 g	165 mm	15	50
C03/2	composite handle	250 g	165 mm	15	50
C05/1	rubber handle	283 g	200 mm	20	70
C05/2	composite handle	324 g	200 mm	20	70

Cable and wire cutters with ratchet system



Cu rope



Hand shears for cutting Al and Cu cables and wires
Cutting with ratchet system .
Step by step allows for easy cutting of thick cables .
One-hand shears
Made of high quality chrome vanadium steel ,
blackened with rust protection .
Hardened handles finished with comfortable
extended handles for better grip in the hand .
Precision hardened blades
Possibility to open the blade at any stage of cutting.
Blades lockable on cable or wire

weight	length	Ø	mm ²
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C37	800 gr	297 mm	62	400
C34	600 gr	261 mm	34	300

Cable and wire cutters with ratchet system



Cu rope



Hand shears for cutting Al and Cu cables and wires
Cutting with ratchet system .
Step by step allows for easy cutting of thick cables .
One-hand shears
Made from high quality chrome vanadium steel ,
blackened with rust protection .
Hardened handles finished with comfortable
extended handles for a better grip in the hand .
Precision hardened blades Cable approach from
the front

weig	length	Ø	mm ²
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C35	820 gr	298 mm	34	300
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Crane shears for Cu-wires



Hand shears for cutting Cu-wires and Cu-strands in overhead lines
Crane cutting allows easy cutting of Cu-wires Two-handed shears
Made of high quality chrome vanadium steel, blackened and rust-proofed Hardened handles with comfort handles
Precision, hardened blades shaped to prevent cables and wires from slipping out during operation

Cu rope



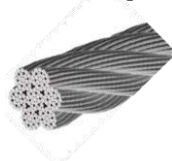
	weight	length	Ø	mm ²
C29	2600 gr	800 mm	38mm	Cu 240/ AL. 240

Wire and cable shears



For cutting steel cables and rods as well as copper and aluminium wires .
Also suitable for cutting Cu-wires, Cu-wires of overhead conductors
Angled blades allow you to cut single wire ropes . High cutting performance thanks to optimum leverage ratio
Very light
Blade head: special high-quality tool steel, oil-hardened in several stages
Shear body: heavy-duty aluminium

St rope



	weight	length	Ø	mm ²
C77	2700 g	710mm	16	150



Selection table for suspension wire and cable holder Djp

Hit	Model	Maximum load	bare multi-stranded copper wire Cu-rope for overhead contact lines								Profile running cable Djp (DjpS)	
			L25	L35	L50	L70	L95	L120	L150		100	150
●	L53	1600 kg						●	●	●	●	●
●	L43	2000 kg						●	●	●	●	●
	L44	4000 kg						●	●	●	●	●
	L23/1	1000 kg	●	●	●			●	●	●		
	L23/2	2000 kg						●	●	●		
	L23/3	3000 kg						●	●	●		
	L54	1700 kg	●	●	●	●	●	●	●	●		
●	L55	3000 kg	●	●	●	●	●	●	●	●		
	L63	3200 kg						●	●	●	●	●
	L63/2	4700 kg						●	●	●	●	●

Contact wire tensioning lugs Djp



The holder is used to grip contact wires during the construction or renovation of overhead lines.
Djp 100 - 150 can be mounted in the holder



Symbol

Mesh size

 Maximum load
WL working

 Maximum load
safe

 Maximum load
ripping

 Working range mm
min max

Weight

L53

32x67 mm

1600 kg

2000 kg

4000 kg

12,0

16,5

4.0 kg

Contact wire and catenary tensioning lugs

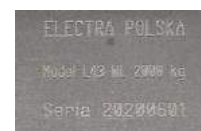


The holder is used to grip the contact wire Djp 100 and Djp 150 as well as the supporting wire L-Cu , L2-Cu during construction or repair of the overhead contact line.

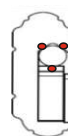
Handles made of acid-resistant steel



All construction from acid resistant steel 1.4303
(Cr 18,0 , Ni 12,0 , C ≤ 0.06 , Mn ≤ 2,0)



Handle identification in the form of a production batch number



Prismatic shape of jaws .
Gripping of wire , cable in three points



Large pulling eye under the hook of 3.2 t winches

Symbol

Mesh size

Working load

 Working range mm
min max

Weight

L43

32x67 mm

2000 kg

10,0

16,0

2.6 kg

L44

32x67 mm

4000 kg

15,0

22,0

6.0 kg

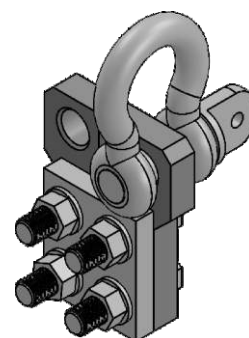
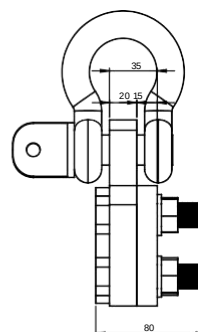
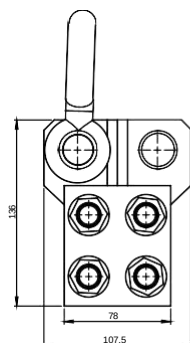


Twisted lugs for tensioning the Djp contact wire and supporting cable



The holder is used to grip contact wires and catenary wire during construction or overhaul of the overhead line. Djp 100 - 150 and all supporting cables can be fixed in the holder

The gripping material is installed between the components of the holder and secured with a screw connection.
Single version



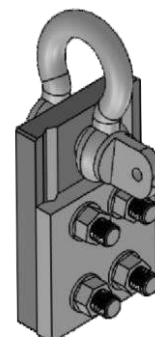
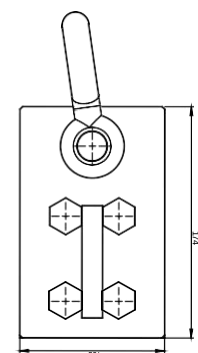
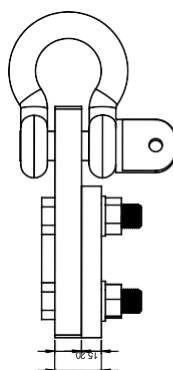
Symbol	Mesh size	Maximum load safe	Maximum load ripping	Working range mm		Weight
				min	max	
L63	shackle 4.75 t	3200 kg	4400 kg	10,0	16,5	6.0 kg

Twisted double clamps for tensioning the Djp contact wire and supporting cable



The holder is used to grip contact wires and catenary wire during construction or overhaul of the overhead line. Djp 100 - 150 and all supporting cables can be fixed in the holder

The gripping material is installed between the components of the holder and secured with a screw connection.
Double version



Symbol	Mesh size	Maximum load safe	Maximum load ripping	Working range mm		Weight
				min	max	
L63/2	shackle 4.75 t	4700 kg	5600 kg	10,0	16,5	8.0 kg



Clamps for tensioning non-insulated wires and steel cables



Universal holder for pulling wires and steel cables during the execution of the main tension overhead line or catenary line
 The chuck has jaws with a clamping system specially designed for pulling non-insulated lines .
 The handle is very lightweight and has a ratchet to prevent the cable slipping out during tensioning.

Symbol	Mesh size	Pulling	Cu rope	Working range		Weight
L90	37x23 mm	1000 kg (9.8 kN)	25-120	2,6	15,0	0.7 kg
L91	42x24 mm	2000 kg (19.6 kN)	25-150	4,0	22,0	1.3 kg
L93	50x30 mm	3000 kg (29.4 kN)		16,0	32,0	2.3 kg

L-Cu , L2-Cu copper cable tensioning clamps



The holder is used to grip the copper catenary wire during construction or overhaul of the overhead line.
 L-Cu , L2-Cu rope can be clamped in the holder

Symbol	Working load	Working range mm		Weight
		min	max	
L23/1	1000 kg	5,0	10,0	1.6 kg
L23/2	2000 kg	10,5	14,0	2.6 kg
L23/3	3000 kg	15,0	21,0	5.4 kg

Grips for tensioning Cu-wires and wire ropes



Grips used for gripping non-insulated conductors during the tensioning of an overhead or catenary main line .
 The chuck has jaws with a clamping system specially designed for pulling ropes, Cu-wires and other cables.

Working range
mm min max

Symbol	Mesh size	Working tension force	L (Cu rope)	Working range		Weight
L54/1	20x20 mm	500 kg (4.9 kN)		1,0	5,0	0.3 kg
L54	27x27 mm	1700 kg (16.7 kN)	25-70	4,0	12,0	1.2 kg
L55	25x38 mm	3000 kg (29.4 kN)	25-150	6,0	18,0	1.8 kg
L56	30x40 mm	3500 kg (34.3 kN)	70-150	10,0	28,0	3.8 kg
L56/1	30x40 mm	4000 kg (39.2 kN)		20,0	40,0	6.2 kg

* The entire range of tensioning clamps for cables and wires can be found in catalogue B.



Trolley spanner model T11



Mechanical tool for axial straightening and holding of cable DJP

T11 Dedicated for Djp 100-150 cable

Trolley spanner model T13



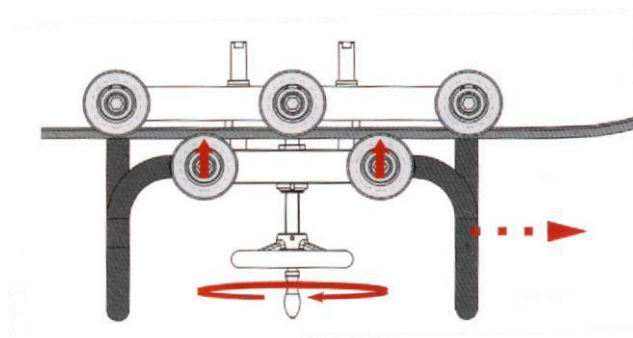
Mechanical tool for axial straightening and holding of cable DJP
Width adjustment
Dedicated to the installation of connectors with the T80 series tool

T13 Dedicated for Djp 100-150 cable

Mechanical tool for straightening Djp cable along the cable axis



Mechanical straightening tool along the centreline of the profiled ducts allowing easy continuous straightening of most duct sizes
e.g. Djp 100-150
Straightening force from 10-20 kN Cable levelling from 30 degrees Manual tool without additional devices



T30 Dedicated for Djp 100-150 cable

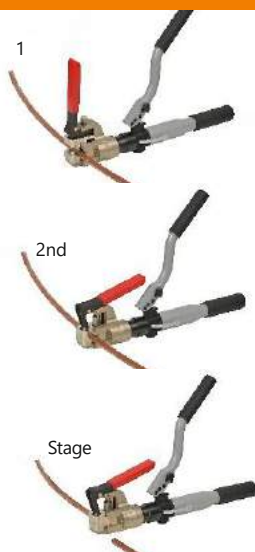
690mm

Weight

6.0 kg



T51 Hydraulic cable cutter Djp

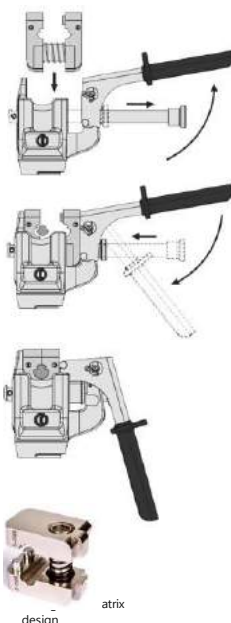


Hydraulic shears with interchangeable heads
Clip-on head with interchangeable inserts for Djp 100 and 150 cable dimensions (heads not included)
Simply replace the cutting dies, smooth cutting surface and no deformation
Easy handling and fast cutting speed improves the efficiency of overhead line work
Operating pressure 700 bar Weight 4.5 kg
Pressure 60 kN Manual piston return
Two-stage pump (idle, high pressure)

Set contains: scissors , metal case , instruction manual

Option: interchangeable heads for cable Djp
T51/100 - dedicated for cable Djp 100 **T51/150** - dedicated for cable Djp 150

T52 Cordless cable cutter Djp



Cordless shears with interchangeable heads Clip-on head with interchangeable cable inserts Djp 100 and 150
Simply replace the cutting dies, smooth cutting surface and no deformation
Easy handling and fast cutting speed improves the efficiency of overhead line work
Operating pressure 700 bar
Weight 5.5 kg
Pressure 60 kN
Makita 18.0 V , 5.0 Ah battery Manual / automatic piston return
Two-stage pump (idle, high pressure)

The set includes: scissors, carrying case, instruction manual

Option: interchangeable heads for cable Djp
T51/100 - dedicated for cable Djp 100 **T51/150** - dedicated for cable Djp 150

Straightening matrix for Djp cable



Straightening matrix for Djp cable
Compatible with G25 hydraulic head and pump Parallel point straightening of the contact line



T31 Cable straightening matrix Djp 100
T32 Cable straightening matrix Djp 150



Hydraulic travel wire straightening head



Hydraulic travel wire straightening head T20 Working range
Djp - 100 - 150
Head designed to work with all kinds of hydraulic
pumps (manual , foot pedal , electric , petrol)
Pressure 45 kN

T20

Djp

100-150

700 bar

Cordless travel wire straightening tool



Djp cordless travel wire straightening tool
Operating range Djp - 100 - 150
Working pressure 700 bar
Pressure 45 kN
18.0 V battery

T21

Djp

100-150

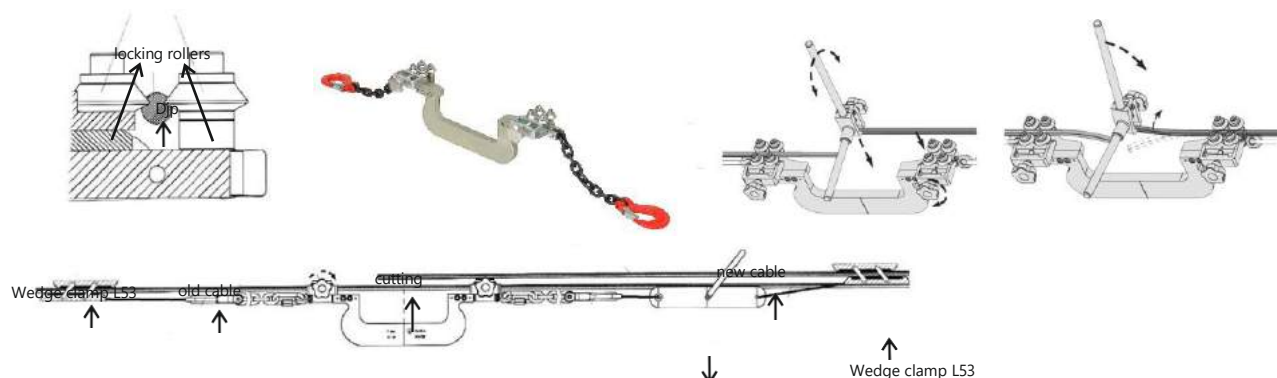
700 bar

Tool for fitting connectors to the contact wire



Installation tool for fitting connectors to the overhead
contact line T80 The tool supports the work of replacing
and fitting a new contact wire to the overhead contact
line

Two sets of profile wheels are used to hold the old
contact wire for cutting After the cutting process, the
new wire is profiled with the help of trolley spanners
before being connected to the wire used on the
overhead line by means of a connector



T80 Fitting set for couplings
Set supplied in a steel case



Mechanical-hydraulic train sets for electric wire-rope connection , wire rope



HP3 hydraulic pump with foot pedal
Weight 8.6 kg
Operating pressure 700 bar
Two-speed system (idle , high pressure)
High pressure 2.26 cc, low pressure 12.26 cc
Biodegradable oil
Operating range -20 to +40 degrees C
Packaging: metal box



Hydraulic throttling gauge **G25**

Die series 25 "U" series
head Weight 5.6 kg
Operating pressure 700 bar

Pressure 250 kN
Required oil capacity 88 cc
Biodegradable oil
Operating range -20 to +40 degrees C

Height 320 mm

Available dies : M25/L185
base M25/L120 - rope 120
M25/L150 - rope 150
M25/P100 - cable Djp 100
M25/P150 - cable Djp 150



Hydraulic press head **G26**

Die series 26 Die series
"U" Weight 10.6 kg
Operating pressure 700 bar

Pressure 450 kN
Required oil capacity 226 cc
Biodegradable oil
Operating range -20 to +40 degrees C

Height 285 mm

Available dies : M26/L185
base M26/L120 - rope 120
M26/L150 - rope 150
M26/P100 - cable Djp 100
M26/P150 - cable Djp 150

Rail kit SK 25 M Foot
hydraulic pump HP3 Hydraulic
head G25 Hydraulic hose 2 m.
M25/L185 base Matrix
M25/L120 - rope 120 Matrix
M25/L150 - rope 150
M25/P100 matrix - Djp 100 cable M25/P150
matrix - Djp 150 cable

Rail kit SK 26 M Foot
hydraulic pump HP3 Hydraulic
head G26 Hydraulic hose 2 m.
M26/L185 base Matrix
M26/L120 - rope 120 Matrix
M26/L150 - rope 150
M26/P100 matrix - Djp 100 cable M26/P150
matrix - Djp 150 cable

* possibility to purchase individual items of your choice from catalogue A



Battery-hydraulic railway cable electrification kits rope-rope , wire rope



HP6 rechargeable hydraulic pump
 Weight 5.9 kg
 Operating pressure 700 bar
 Oil volume required 1.0 l
 Two-speed system (idle, high pressure)
 Biodegradable oil
 Operating range -20 to +55 degrees C
 Dimensions 338x 172 x 266 mm
 Construction : carrying handle , shoulder strap
 Housing : impact-resistant composite
 Powerful Makita lithium-ion battery 18 V , 5.1 Ah
 * other parameters in the product data sheet



Hydraulic throttling gauge G25
 Die series 25 "U" series
 head Weight 5.6 kg
 Operating pressure 700 bar
 Pressure 250 kN
 Required oil capacity 88 cc
 Biodegradable oil
 Operating range -20 to +40 degrees C

Height 320 mm

Available dies : M25/L185
 base M25/L120 - rope 120
 M25/L150 - rope 150
 M25/P100 - cable Dj 100
 M25/P150 - cable Dj 150



Hydraulic press head G26
 Die series 26 Die series "U"

Weight 10.6 kg
 Operating pressure 700 bar

Pressure 450 kN
 Required oil capacity 226 cc
 Biodegradable oil
 Operating range -20 to +40 degrees C

Height 285 mm

Available dies : M26/L185
 base M26/L120 - rope 120
 M26/L150 - rope 150
 M26/P100 - cable Dj 100
 M26/P150 - cable Dj 150

Rail set SK 25 C

Hydraulic accumulator pump HP6 Hydraulic head G25
 Hydraulic hose 2 m.
 M25/L185 base Matrix
 M25/L120 - rope 120 Matrix
 M25/L150 - rope 150
 M25/P100 matrix - Dj 100 cable M25/P150 matrix - Dj 150 cable

Rail set SK 26 C

Hydraulic accumulator pump HP6 Hydraulic head G26
 Hydraulic hose 2 m. Matrix
 M26/L185 base Matrix
 M26/L120 - rope 120 Matrix
 M26/L150 - rope 150
 M26/P100 matrix - Dj 100 cable M26/P150 matrix - Dj 150 cable

* possibility to purchase individual items of your choice from catalogue A



Battery-hydraulic railway cable electrification kits rope-rope , wire rope



HP8 rechargeable hydraulic pump
Weight 7.7 kg
Operating pressure 700 bar
Oil volume required 1.0 l
Two-speed system (idle, high pressure)
Biodegradable oil
Operating range -20 to +55 degrees C
Dimensions 480 x 250 x 250 mm
Construction : carrying handle , shoulder strap
Housing : impact-resistant composite
Battery: Lithium-ion 18V , 3.0 Ah
* other parameters in the product data sheet



Hydraulic throttling gauge **G25**
Die series 25 "U" series head Weight 5.6 kg
Operating pressure 700 bar

Pressure 250 kN
Required oil capacity 88 cc
Biodegradable oil
Operating range -20 to +40 degrees C

Height 320 mm

Available dies : M25/L185
base M25/L120 - rope 120
M25/L150 - rope 150
M25/P100 - cable Djp 100
M25/P150 - cable Djp 150



Hydraulic press head **G26**
Die series 26 Die series "U" Weight 10.6 kg
Operating pressure 700 bar

Pressure 450 kN
Required oil capacity 226 cc
Biodegradable oil
Operating range -20 to +40 degrees C

Height 285 mm

Available dies : M26/L185
base M26/L120 - rope 120
M26/L150 - rope 150
M26/P100 - cable Djp 100
M26/P150 - cable Djp 150

Rail set SK 25 A

Hydraulic accumulator pump HP8 Hydraulic head G25
Hydraulic hose 2 m.
M25/L185 base Matrix
M25/L120 - rope 120 Matrix
M25/L150 - rope 150
M25/P100 matrix - Djp 100 cable M25/P150 matrix - Djp 150 cable

Rail set SK 26 A

Hydraulic accumulator pump HP8 Hydraulic head G26
Hydraulic hose 2 m. Matrix
M26/L185 base Matrix
M26/L120 - rope 120 Matrix
M26/L150 - rope 150
M26/P100 matrix - Djp 100 cable M26/P150 matrix - Djp 150 cable

* possibility to purchase individual items of your choice from catalogue A



Electric rail kits for electrically connecting rope-rope , rope-cable



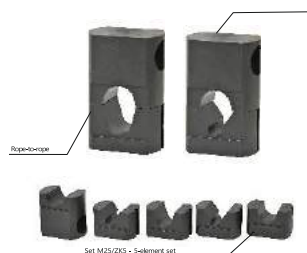
Electric hydraulic pump model **HP13/1**
Electric motor 0,37 kW 230 V motor
Flow rate 0.32 - 3.31 l/min
Max hydraulic oil pressure 700 bar Oil tank capacity 3.8 litres Weight 15.4 kg
Dimensions 368x309x373
Release valve - manual



Hydraulic throttling gauge **G25**
Die series 25 "U" series
head Weight 5.6 kg
Operating pressure
700 bar Pressure 250 kN
Required oil capacity 88 cc
Biodegradable oil
Operating range -20 to +40 degrees C

Height 320 mm

Available dies : M25/L185 base
M25/L120 - rope 120
M25/L150 - rope 150
M25/P100 - cable Djp 100
M25/P150 - cable Djp 150



Hydraulic press head **G26**
Die series 26 Die series
"U" Weight 10.6 kg
Operating pressure
700 bar Pressure 450 kN
Required oil capacity 226 cc
Biodegradable oil
Operating range -20 to +40 degrees C Height 285 mm

Available dies : M26/L185 base
M26/L120 - rope 120
M26/L150 - rope 150
M26/P100 - cable Djp 100
M26/P150 - cable Djp 150

Rail set SK 25 E

Electric hydraulic pump HP13/1 Hydraulic head G25
Hydraulic hose 2 m.
M25/L185 base Matrix
M25/L120 - rope 120 Matrix
M25/L150 - rope 150
M25/P100 matrix - Djp 100 cable M25/P150 matrix - Djp 150 cable

Rail set SK 26 E

Electric hydraulic pump HP13/1 Hydraulic head G26
Hydraulic hose 2 m. Matrix
M26/L185 base Matrix
M26/L120 - rope 120 Matrix
M26/L150 - rope 150
M26/P100 matrix - Djp 100 cable M26/P150 matrix - Djp 150 cable

* possibility to purchase individual items of your choice from catalogue A



Other available heads for the train set

G33 Hydraulic head for cutting contact wire Djp



Type C head
Weight 4.5 kg
Cutting cable Djp 100 , 150
Pressure 60 KN
Required oil capacity 70 cc
Biodegradable oil
Operating range -20 to +40 degrees C



G02/1 Hydraulic cutting head



Pin head lockable Weight 4.5 kg
Operating range
Al./Cu/AFL 45 mm
Wire rope 6x7 , 6x12 , 6x19 max 25 mm
Working pressure 700 bar
Pressure 60 KN
Required oil capacity 70 cc
Biodegradable oil
Operating range -20 to +40 degrees C
Height 346 mm

G04 Hydraulic cutting head



Closed type head
Weight 4.8kg
Operating range
Al./Cu/ max 85 mm
Operating pressure 700 bar
Pressure 60 KN
Required oil capacity 95 cc
Biodegradable oil
Operating range -20 to +40 degrees C
Height 395 mm

G08/2 Hydraulic cutting head for Al/Cu cable - max Ø 85 mm - open version



Open type head
Scope of work
Al / Cu max 85 mm
65 mm reinforced
Operating pressure 700 bar
Pressure 60 KN
Required oil capacity 66 cc
Biodegradable oil
Operating range -20 to +40 degrees C



Mounting roller nylon



Assembly rollers Roll
material : Nylon
Ball-bearing mounted rollers with interchangeable parts
Frame made of galvanised steel with hook

Symbol	Outer diameter [mm]	Roll width [mm]	Roll material	Working load kN	Weight (kg)
13001N	120	35	nylon	5	1,5
13002N	160	40	nylon	10	2,5
13004N	200	60	nylon	15	3,6
13005N	270	60	nylon	20	5,6
13006N	320	60	nylon	20	6,7
13007N	408	80	nylon	20	13,0

Aluminium assembly roller

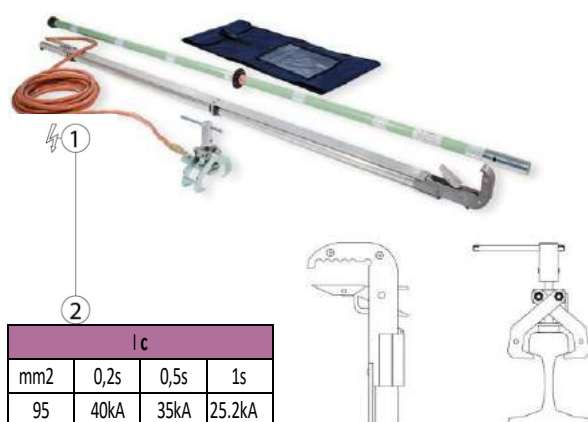


Mounting rollers Roll
material: aluminium
Ball-bearing mounted rollers with interchangeable components
Frame made of galvanised steel with hook

Symbol	Outer diameter [mm]	Roll width [mm]	Roll material	Working load kN	Weight (kg)
13001A	120	35	aluminium	5	2,1
13002A	160	40	aluminium	10	3,1
13004A	200	60	aluminium	15	4,1
13005A	270	60	aluminium	20	6,7
13006A	320	60	aluminium	20	10,4
13007A	408	80	aluminium	20	11,9



Railway earthing set - 3 kV dc lines



Mod. CCLC-SDN / 95 / 2-5 m

- 1 alloy clamp with folding jaw and tightening screw with aluminium torque limiter for the 2.1 M active part.
- 1 epoxy resin isolation rod in one section 2.5 m long fitted with hand protection and cap with reinforced connector for bonding to aluminium pipe . Total length 4.6 M.
- 1 95 mm² 4.95 m. flexible copper conductor with transparent silicone sheath.
- 1 terminal for connection to a rail equipped with torque limiter for tightening the clamp on the rails.

Optional:

- Nylon carrying bag with shoulder strap In accordance with STD IEC 61230
- Ref./Conf. STF RFI DMA IM TE SP IFS 083 - Cat.817 / 600
- Note: also available with 10 m cable, our mod. CCLC-SDN / 95 / 2-10 m cat. 817/601

Railway earthing set - 3 kV dc lines



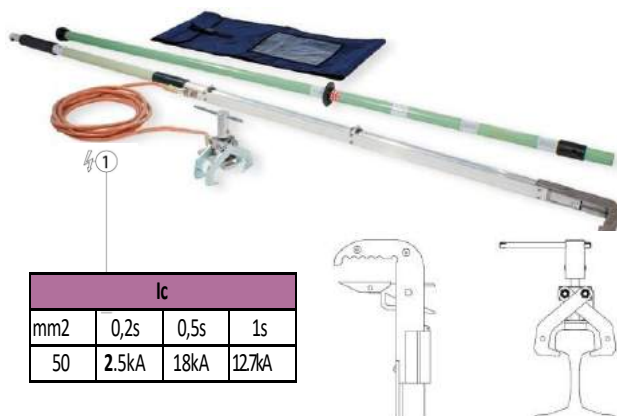
Mod. CCLC-SDN / 95 / 3-5.5 m

- 1 alloy clamp with folding jaw and tightening screw with aluminium torque limiter for active part 1.53 M.
- 2 epoxy resin insulating rods, each 1.53 in length , fitted with hand protection and cap with reinforced connector for bonding to aluminium pipe . Total length of the unit 4.6 M.
- 1 95 mm² 5.51 m. flexible copper conductor with transparent silicone sheath.
- 1 terminal for connection to a rail equipped with torque limiter for tightening the clamp on the rails.

Optional:

- Nylon carrying bag with shoulder strap In accordance with STD IEC 61230
- R

Railway earthing set - 25 kV ac lines



Mod. CCLC-SDN / 50 / 2-6.1 m

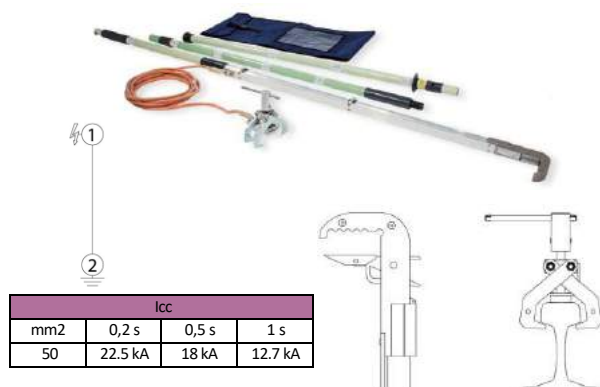
- 1 alloy clamp with folding jaw and tightening screw with aluminium torque limiter for the 2.1 M active part.
- 1 epoxy resin isolation rod in one section 2.35 m long fitted with hand protection and cap with reinforced connector for bonding to aluminium pipe . Total length 4.6 M.
- 1 flexible copper conductor, cross section 50 mm² 6.1 m. with transparent silicone sheath.
- 1 terminal for connection to a rail equipped with torque limiter for tightening the clamp on the rails.

Optional:

- Nylon carrying bag with shoulder strap In accordance with STD IEC 61230



Railway grounding set 25 kV ac lines



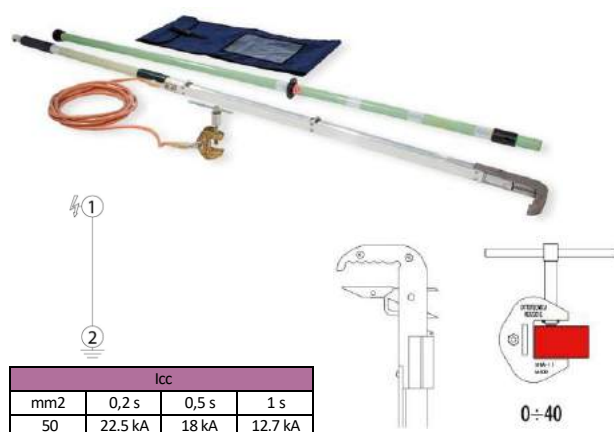
Mod. CCLC-SDN / 50 / 3-6.1 m. LN

- 1 alloy clamp with folding jaw and tightening screw with aluminium torque limiter for the 1.6 M active part.
- 2 epoxy resin isolation rods in 1.5 sections each fitted with hand protection and a cap with reinforced connector for tying to aluminium tubing . Total device length 4.6 M.
- 1 flexible copper conductor, cross section 50 mm² 6.1 m. with transparent silicone sheath.
- 1 terminal for connection to a rail equipped with torque limiter for tightening the clamp on the rails.

Optional:

- Nylon carrying bag with shoulder strap In accordance with STD IEC 61230

Railway grounding set 25 kV ac lines



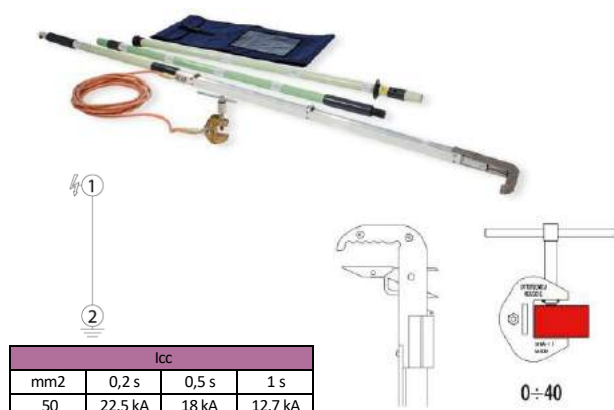
Mod. CCLC-SDN / 50 / 2-8.1 m. AV FD

- 1 alloy clamp with folding jaw and tightening screw with aluminium torque stop for the 2.25 m active part.
- 1 epoxy resin isolation rod, 2.35 m long, equipped with hand protection and cap with reinforced connector for tying to aluminium tubing . Total device length 4.6 M.
- 1 flexible copper conductor, cross section 50 mm² 8.1 m. with transparent silicone sheath.
- 1 brass self-tapping clamp with thickness 0 ÷ 35 mm and fixed spherical points ø 20/25 mm equipped with torque stop

Optional:

- Nylon carrying bag with shoulder strap In accordance with STD IEC 61230

Railway grounding set 25 kV ac lines



Mod. CCLC-SDN / 50 / 3-8.1 m

- 1 alloy clamp with folding jaw and tightening screw with aluminium torque limiter for the 1.6 M active part.
- 2 epoxy resin isolation rods length of 1.53 m is equipped with hand protection and a cap with a reinforced connector for tying to aluminium tubing . Total device length 4.6 M.
- 1 flexible copper conductor, cross section 50 mm² 8.1 m. with transparent silicone sheath.
- 1 brass self-tapping clamp with thickness 0 ÷ 35 mm and fixed spherical points ø 20/25 mm equipped with torque stop

Optional:

- Nylon carrying bag with shoulder strap In accordance with STD IEC 61230



DC voltage DETECTOR 25 kVAC for installation on insulated sections and shunting poles



Riv model. 3 kVcc / F RFI

Operating range: 19-27.5 kV

Warnings: optical / acoustic

Self-test: at the start and automatically repeated every three seconds by an 'OK' signal.

Switch-off: automatic, preset (within 3 minutes) or by pressing a button.

Electrode: hook type

Installation : via a shaped spring Power

supply: 1 x 9 V battery

Housing: painted sheet metal

To be installed on the bar from the previous page

In accordance with STD 61243-1

Ref./Conf. STF RFI DIT STF IFS TE 84 1 Cat. 817/0010

Voltage detector 25 kV ac



Riv model. 25 kVac / P RFI

Operating range: 19 ÷ 27.5 kV

Maximum operating voltage: 40 kV

Installation: ~ 5 seconds

Warnings: optical/acoustic

Self-test: at the beginning and automatically repeated every 3 seconds by an "OK" check signal

Power supply: 1 x 9 V battery

Switching off: automatic, preset (within 3 minutes) or by pressing a button

Electrode: elongated forked frame:

by form spring Housing: painted sheet metal

In accordance with STD 61243-1

Ref./Conf. STF

Voltage detector 3 kVdc



Riv model. 3 kVcc / F RFI

Operating range: 2000 ÷ 5000 Vdc

Warnings: optical / acoustic

Self-test: at the beginning and automatically repeated every 3 seconds by an "OK" check signal

Shutdown: automatic, preset

(within 3 minutes) or by the following button press.

Electrode: flexible, eyelets

Mounting: via shaped spring Power

supply: 1 x 9 V battery Installation:

~ 5 seconds

Housing: painted sheet metal

For use with insulating wire on page 33 In accordance with STD 61243-2

Ref./Conf. STF RFI DIT STF IFS TE 084 1 Cat. 817/0020