



CEMBRE

RAILWAY CATALOGUE



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CEMBRE AT A GLANCE

INNOVATION IS IN OUR DNA



211

Patents and filled applications

71

Registered trademarks



MAIN MANUFACTURING SITE, ITALY

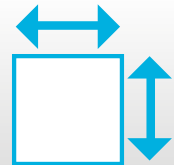


60,000

m² of space dedicated to offices, factories, laboratories

121,000

m² of site



OUR PRODUCT CODES



21,500

different product codes sold each year

21,800

product codes are available for immediate despatch



AUTOMATED WAREHOUSE



60,000

bins capacity

10,000

order lines per working day



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 **CEMBRE**

 **Cembre**

Crimpstar

 **mg3**
MARKINGENIUS

ROLLY

ROLLY TR2

MAXIblock

MAXIbrass



ELECTRICAL CONNECTION SYSTEMS

| | |
|---|----|
| contact rail for return traction and grounding applications | 6 |
| electrical permanent contact | 11 |
| signalling solutions for copper cables | 12 |
| battery hydraulic tool for rail web electrical connection | 13 |
| hydraulic tool for rail web electrical connection | 14 |
| hydraulic head for rail web electrical connection | 15 |
| accessories for extrusion tools | 16 |
| torque wrenches for connection to rails | 18 |
| sockets and drives for connection to rail | 19 |
| temporary connection system | 20 |
| kits for fixing cables to rails | 22 |

TRACK MAINTENANCE SOLUTIONS

RAIL DRILLING

| | |
|--------------------------------------|----|
| rainproof ecodrill | 26 |
| two cycles rail drilling machine | 27 |
| four cycles rail drilling machine | 28 |
| rail drilling accessories | 29 |
| vignole rail solutions | 30 |
| girder rail solutions | 31 |
| counter rail UIC33 (U69) solutions | 32 |
| special solutions | 33 |
| positioning connecting plates | 35 |
| positioning solutions | 36 |
| cutters rail drill solutions | 38 |
| case and accessories for rail drills | 40 |

CUTTING-OFF

| | |
|---------------------------|----|
| automatic rail disc saw | 44 |
| manual rail disc saw | 45 |
| cutting discs | 46 |
| rail disc saw accessories | 47 |
| rail disc saw case | 49 |

SCREWING/UNSCREWING

| | |
|---|----|
| battery-powered portable rail impact wrench | 52 |
| petrol engined impact wrench | 53 |
| electric portable rail impact wrench | 54 |
| impact wrench sockets | 55 |
| accessories & case | 56 |

SLEEPER DRILL

| | |
|--------------------------------------|----|
| rainproof sleeper drilling machine | 60 |
| two cycles sleeper drilling machine | 61 |
| sleeper drilling machine accessories | 63 |

SUPPORT TROLLEY

| | |
|-----------------------------|----|
| support trolley | 66 |
| support trolley accessories | 67 |

NUT SPLITTING

| | |
|---|----|
| hydraulic nut splitting heads | 68 |
| 18.0 v battery hydraulic nut splitting tool | 69 |

INSERTION/EXTRACTION CLIPS

| | |
|-------------------------------------|----|
| insertion/extraction e-clip machine | 70 |
|-------------------------------------|----|

LIGHTING

| | |
|---------------------|----|
| portable LED lights | 72 |
|---------------------|----|

OVERHEAD CATENARY SOLUTIONS

| | |
|--|----|
| connecting joints for profiled contact wires | 74 |
| hydraulic cutting tools for profiled contact wires | 75 |
| hydraulic cutting tools for profiled contact wires | 76 |
| cutting dies set | 77 |
| profiled contact wire alignment device | 78 |

ELECTRICAL CONNECTORS AND CABLE GLANDS

| | |
|---|----|
| reinforced pa 6.6 insulated terminals | 82 |
| pa6 insulated end sleeves | 84 |
| cast resin joints | 85 |
| copper tube crimping lugs | 86 |
| heavy duty copper tube terminals | 88 |
| heavy duty copper tube terminals double hole fixing | 89 |
| cable glands pa6.6 | 90 |
| cable glands nickel plated brass | 91 |

HYDRAULIC CRIMPING AND CUTTING TOOLS

| | |
|---|-----|
| 18.0 v cordless hydraulic crimping tool | 94 |
| hydraulic crimping tool | 99 |
| hydraulic presshead | 102 |
| 18.0 v cordless hydraulic cutting tool | 107 |
| hydraulic cutting tool | 111 |
| hydraulic cutting head | 114 |
| portable electro-hydraulic pumps | 116 |
| hydraulic pump | 122 |
| battery accessories | 123 |

MECHANICAL TOOLS

| | |
|---------------------------|-----|
| scissors - cable cutters | 126 |
| cable stripping | 127 |
| crimping mechanical tools | 128 |
| professionals tools | 130 |

IDENTIFICATION FOR RAILWAY APPLICATIONS

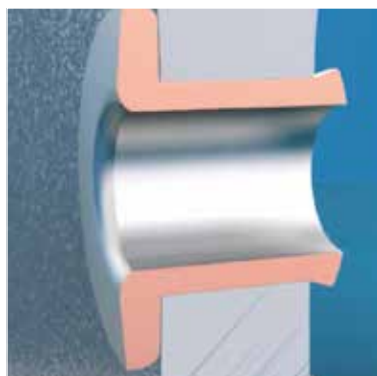
| | |
|--|-----|
| thermal transfer printer for roll media | 132 |
| solutions for thermal transfer for roll media | 133 |
| consumables on roll | 134 |
| thermal transfer printer for sheet media | 132 |
| solutions for thermal transfer for sheet media | 133 |
| consumables on sheet | 134 |
| consumables accessories | 138 |
| signs | 144 |
| general terms and conditions of sale | 154 |



ELECTRICAL CONNECTION SYSTEMS



ELECTRICAL CONNECTION



**Easy and quick to install:
less than a minute!
Lowest installation costs**

Can be installed in any weather condition

The AR-type electrical contact to the rail was developed by CEMBRE in 1988 to provide the **best solution to the needs of connecting conductors to the rail in both signalling and traction current return circuits.**

Since its introduction, it has made it possible to resolve and eliminate long-standing situations of malfunctions and disservices attributable to the various systems used up to then, defining **new levels of quality and safety to refer to.**

Thanks to the experience gained in the field of electrical connections and in the development of the hydraulic equipment necessary for their execution, CEMBRE has established the state of the art in rail connection.

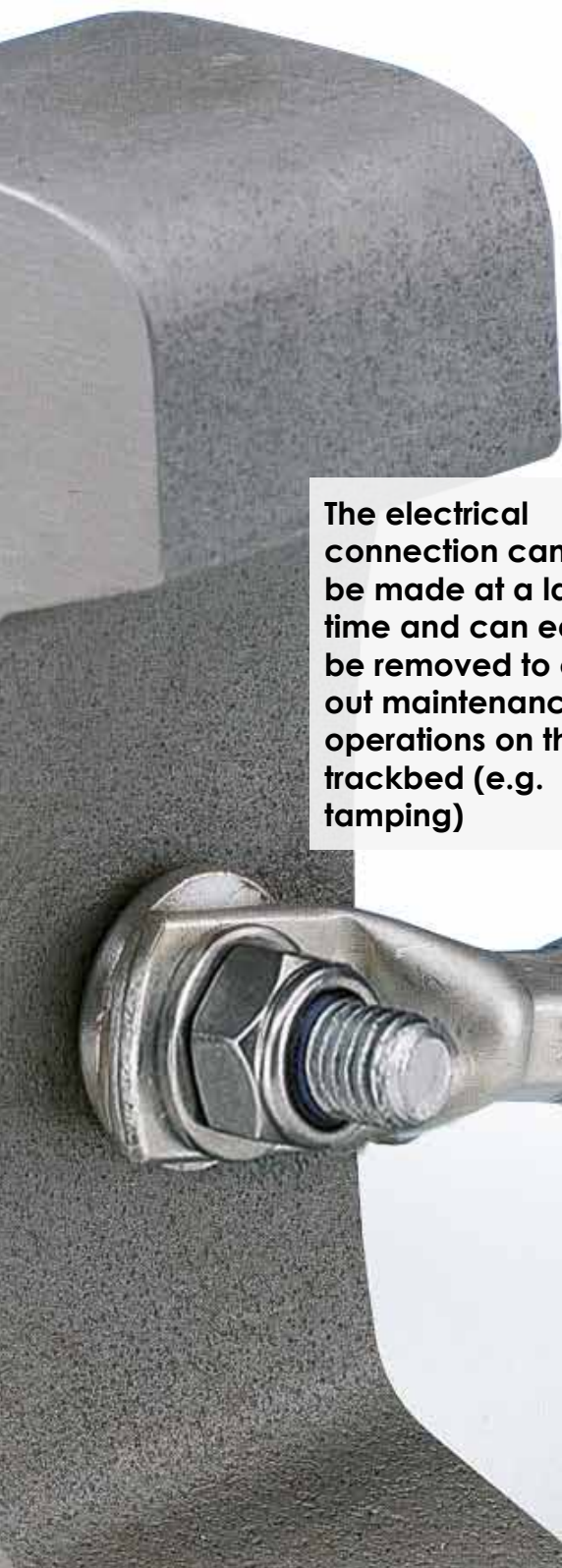
The AR electrical contact creates a very low resistance electrical interface between the rail web and the electrical connector to be associated with it, while ensuring **incomparable contact stability** in the most varied environmental conditions.

Tested and approved by major railway organizations, the CEMBRE AR-type electrical rail connection system is currently used on **high-speed and high-capacity lines** in over 60 countries, with more than 20 million pieces installed.

During installation, the lack of heat generation ensures the absence of structural alterations to the rail

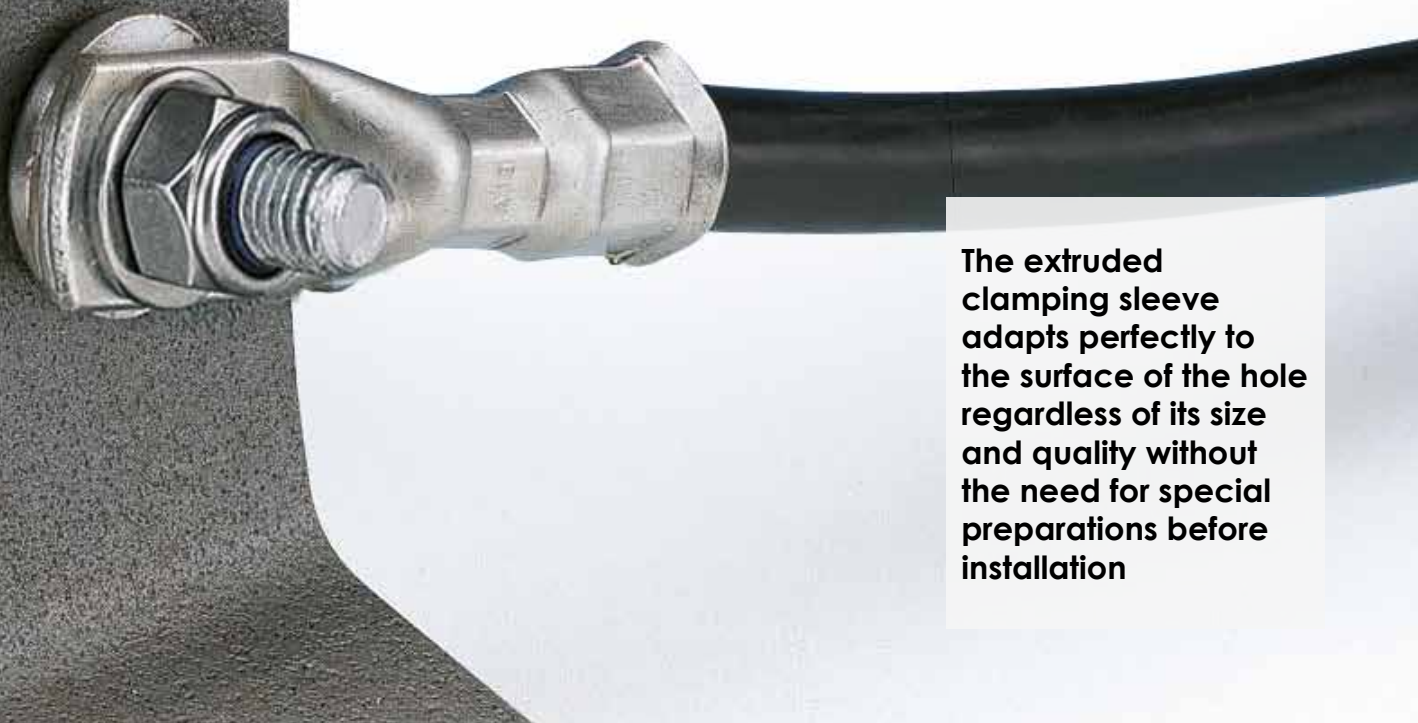
The flanged clamping sleeve can accommodate numerous types of power and signalling electrical connectors, specifically designed and approved to work with railway-specific cables





Available in the double version for installation on both sides

The electrical connection can also be made at a later time and can easily be removed to carry out maintenance operations on the trackbed (e.g. tamping)



The extruded clamping sleeve adapts perfectly to the surface of the hole regardless of its size and quality without the need for special preparations before installation



Very low resistance, constant over time, mechanical seal, protection from atmospheric agents

SIMPLE FACE

- traction return bonding
- continuity bonding
- ground bonding
- substation connection
- electrical drainage
- signal track circuit continuity
- signal track circuit connection

AR60D

FEATURES

| | |
|-------------------------|--------------|
| rail web thickness | 14 ÷ 16.5 mm |
| suitable for rail holes | Ø 19 mm |

SALE SETUP

| | |
|--|----------------|
| A - electrolytically tin-plated copper bush type | AR60-1 |
| B - steel M12 screw with hollow hex head | AR60-3X |
| C - M12 stainless steel self-locking nut | ✓ |
| D - M12 flat steel washer | ✓ |

INSTALLATION TOOLS

| | |
|------------------------|-----------------|
| hydraulic tool | HTEP |
| hydraulic head | RHTEP |
| battery hydraulic tool | B1300TEP |

AR60DF

FEATURES

| | |
|-------------------------|--------------|
| rail web thickness | 14 ÷ 16.5 mm |
| suitable for rail holes | Ø 19 mm |

SALE SETUP

| | |
|--|----------------|
| A - electrolytically tin-plated copper bush type | AR60-1 |
| B - M12 steel screw with hollow hex head | AR60-3X |
| C - M12 stainless steel self-locking nut | ERM.M12 |

INSTALLATION TOOLS

| | |
|------------------------|-----------------|
| hydraulic tool | HTEP |
| hydraulic head | RHTEP |
| battery hydraulic tool | B1300TEP |

AR65

FEATURES

| | |
|-------------------------|--------------|
| rail web thickness | 14 ÷ 16.5 mm |
| suitable for rail holes | Ø 22 mm |

SALE SETUP

| | |
|--|-----------------|
| A - electrolytically tin-plated copper bush type | AR65-1 |
| B - M12 steel screw with hollow hex head | AR61-31X |
| C - M12 stainless steel self-locking nut | ✓ |
| D - M12 flat steel washer | ✓ |

INSTALLATION TOOLS

| | |
|------------------------|-----------------|
| hydraulic tool | HTEP |
| hydraulic head | RHTEP |
| battery hydraulic tool | B1300TEP |



SIMPLE FACE



AR66D

FEATURES

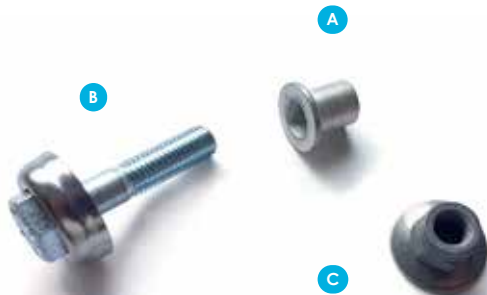
| | |
|-------------------------|--------------|
| rail web thickness | 14 ÷ 16.5 mm |
| suitable for rail holes | Ø 13.5 mm |

SALE SETUP

| | |
|--|---------|
| A - electrolytically tin-plated copper bush type | AR66-1 |
| B - steel M10 screw with hollow hex head | AR66-3X |
| C - M10 stainless steel self-locking nut | ✓ |
| D - M10 flat steel washer | ✓ |

INSTALLATION TOOLS

| | |
|------------------------|-----------|
| hydraulic tool | HTEPF |
| hydraulic head | RHTEPF |
| battery hydraulic tool | B1300TEPF |



AR66F

FEATURES

| | |
|-------------------------|--------------|
| rail web thickness | 14 ÷ 16.5 mm |
| suitable for rail holes | Ø 13.5 mm |

SALE SETUP

| | |
|--|---------|
| A - electrolytically tin-plated copper bush type | AR66-1 |
| B - M10 steel screw with hollow hex head | AR66-3X |
| C - M10 stainless steel self-locking nut | ERM.M10 |

INSTALLATION TOOLS

| | |
|------------------------|-----------|
| hydraulic tool | HTEPF |
| hydraulic head | RHTEPF |
| battery hydraulic tool | B1300TEPF |

DOUBLE FACE

- traction return bonding
- continuity bonding
- signal track circuit connection
- ground bonding



AR260D

FEATURES

| | |
|-------------------------|--------------|
| rail web thickness | 14 ÷ 16.5 mm |
| suitable for rail holes | Ø 19 mm |

SALE SETUP

| | |
|---|----------------|
| A - electrolytically tin-plated copper bush | AR260-1 |
| B - electrolytically tin-plated copper alloy washer | AR260-2 |
| C - M12 stainless steel bolt | M12x70 |
| D - M12 stainless steel flat steel washers | ✓ |
| E - M12 stainless steel self-locking nut | ✓ |

INSTALLATION TOOLS

| | |
|------------------------|-----------------|
| hydraulic tool | HTEP |
| hydraulic head | RHTEP |
| battery hydraulic tool | B1300TEP |

AR260DF

FEATURES

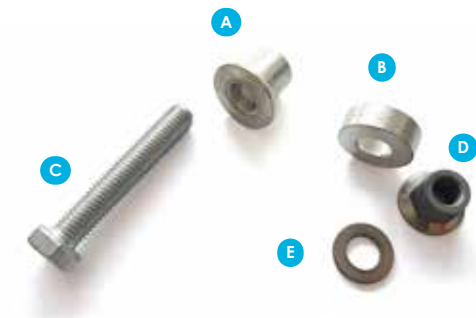
| | |
|-------------------------|--------------|
| rail web thickness | 14 ÷ 16.5 mm |
| suitable for rail holes | Ø 19 mm |

SALE SETUP

| | |
|---|----------------|
| A - electrolytically tin-plated copper bush | AR260-1 |
| B - electrolytically tin-plated copper alloy washer | AR260-2 |
| C - M12 stainless steel bolt | M12x70 |
| D - M12 stainless steel self-locking nut | ERM.M12 |
| E - M12 stainless steel flat steel washer | ✓ |

INSTALLATION TOOLS

| | |
|------------------------|-----------------|
| hydraulic tool | HTEP |
| hydraulic head | RHTEP |
| battery hydraulic tool | B1300TEP |



AR260NF

FEATURES

| | |
|-------------------------|------------|
| rail web thickness | 12 ÷ 14 mm |
| suitable for rail holes | Ø 19 mm |

SALE SETUP

| | |
|---|-----------------|
| A - electrolytically tin-plated copper bush type | AR260N-1 |
| B - electrolytically tin-plated copper alloy washer | AR260-2 |
| C - M12 stainless steel bolt | M12x70 |
| D - M12 stainless steel self-locking nut | ERM.M12 |
| E - M12 flat steel washer | ✓ |

INSTALLATION TOOLS

| | |
|------------------------|-----------------|
| hydraulic tool | HTEP |
| hydraulic head | RHTEP |
| battery hydraulic tool | B1300TEP |



DOUBLE FACE



AR260LG

FEATURES

| | |
|-------------------------|--------------|
| rail web thickness | 16.5 ÷ 19 mm |
| suitable for rail holes | Ø 19 mm |

SALE SETUP

| | |
|---|----------|
| A - electrolytically tin-plated copper bush type | AR260L-1 |
| B - electrolytically tin-plated copper alloy washer | AR260-2 |
| C - M12 stainless steel bolt | M12x70 |
| D - M12 stainless steel self-locking nut | ✓ |
| E - M12 flat steel washers | ✓ |

INSTALLATION TOOLS

| | |
|------------------------|----------|
| hydraulic tool | HTEP |
| hydraulic head | RHTEP |
| battery hydraulic tool | B1300TEP |

AR266DF-16.5

FEATURES

| | |
|-------------------------|--------------|
| rail web thickness | 15 ÷ 16,5 mm |
| suitable for rail holes | Ø 13.5 mm |

SALE SETUP

| | |
|---|--------------|
| A - electrolytically tin-plated copper bush type | AR266-16.5-1 |
| B - electrolytically tin-plated copper alloy washer | AR266-2 |
| C - M10 stainless steel bolt | M10x60 |
| D - M10 stainless steel self-locking nut | ERM.M10 |
| E - M10 flat steel washer | ✓ |

INSTALLATION TOOLS

| | |
|------------------------|-----------|
| hydraulic tool | HTEPF |
| hydraulic head | RHTEPF |
| battery hydraulic tool | B1300TEPF |

AR266-16.5 (SNCF APPROVED)

FEATURES

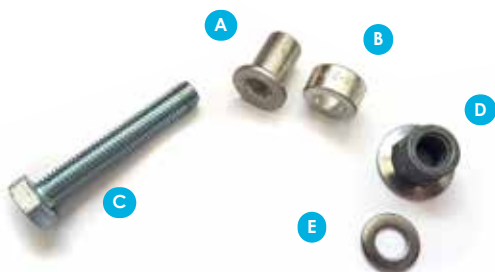
| | |
|-------------------------|--------------|
| rail web thickness | 15 ÷ 16.5 mm |
| suitable for rail holes | Ø 13.5 mm |

SALE SETUP

| | |
|---|--------------|
| A - electrolytically tin-plated copper bush type | AR266-16.5-1 |
| B - electrolytically tin-plated copper alloy washer | AR266-2 |
| C - M10 stainless steel bolt | M10x60 |
| D - M10 stainless steel self-locking nut | ERM.M10 |
| E - M10 antifriction flat steel washers | ✓ |

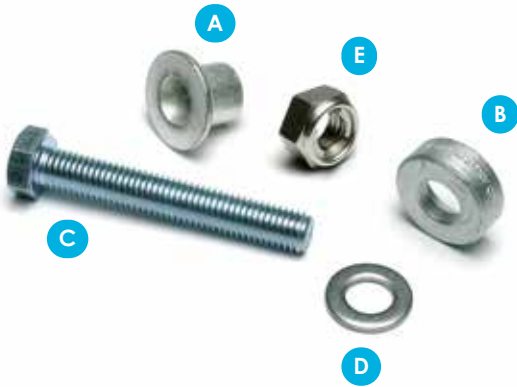
INSTALLATION TOOLS

| | |
|------------------------|-----------|
| hydraulic tool | HTEPF |
| hydraulic head | RHTEPF |
| battery hydraulic tool | B1300TEPF |



AR60A-29

- TE return connections
- Connections for track circuits

**FEATURES**

| | |
|-------------------------|------------|
| rail web thickness | 28 ÷ 33 mm |
| suitable for rail holes | Ø 19 mm |

SALE SETUP

| | |
|---|---------------|
| A - electrolytically tin-plated copper bush type | AR60-1 |
| B - electrolytically tin-plated copper alloy washer | AR62-2 |
| C - M12 stainless steel bolt | M12x80 |
| D - stainless steel self-locking nut | ✓ |
| E - flat steel washer | ✓ |

INSTALLATION TOOLS

| | |
|------------------------|-----------------|
| hydraulic tool | HTEP |
| hydraulic head | RHTEP |
| battery hydraulic tool | B1300TEP |

ACCESSORIES NEEDED ON REQUEST

| | |
|------------------|---------------------|
| installation kit | AR60.29-INST |
|------------------|---------------------|

AR67

- Signal track circuit connection
- Signal track circuit continuity

**FEATURES**

| | |
|-------------------------|--------------|
| rail web thickness | 14 ÷ 16,5 mm |
| suitable for rail holes | Ø 8 mm |

SALE SETUP

| | |
|--|----------------|
| A - electrolytically tin-plated copper bush type | AR67-1 |
| B - steel M6 screw with hollow hex head | AR67-3X |
| C - flat steel washer M6 | ✓ |
| D - stainless steel self-locking nut M6 | ✓ |

INSTALLATION TOOLS

| | | |
|------------------------|-----------------|------------------|
| hydraulic tool | HTEP | HTEPF |
| hydraulic head | RHTEP | RHTEPF |
| battery hydraulic tool | B1300TEP | B1300TEPF |

ACCESSORIES NEEDED ON REQUEST

| | | |
|------------------|------------------|--------------------|
| installation kit | AR67-INST | AR67-INST-F |
|------------------|------------------|--------------------|

AR61E



- Running rail with check rail in situ
- Switches and crossings
- Circular hollow section stanchions
- Blind holes in thick rail web

FEATURES

| | |
|-------------------------|--------------|
| rail web thickness | 12.5 ÷ 22 mm |
| suitable for rail holes | Ø 22 mm |

SALE SETUP

| | |
|--|----------------|
| A - electrolytically tin-plated copper bush type | AR61E-1 |
| B - steel expansion bolt | M12 |
| C - flat steel washer | ✓ |
| D - stainless steel self-locking nut | ✓ |

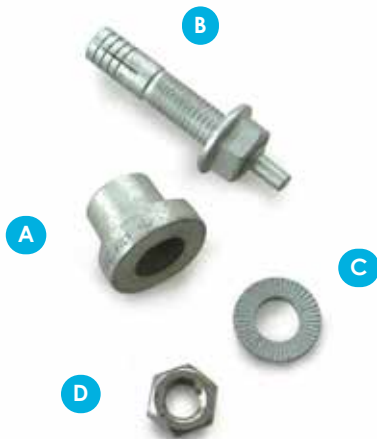
INSTALLATION TOOLS

| | |
|----------------|--------------------|
| hydraulic head | RHTEPE-12-E |
|----------------|--------------------|

ACCESSORIES NEEDED ON REQUEST

| | |
|------------------|---------------|
| installation kit | BAS-19 |
|------------------|---------------|

AR61DE



- Running rail with check rail in situ
- Switches and crossings
- Circular hollow section stanchions
- Blind holes in thick rail web

FEATURES

| | |
|-------------------------|-------------|
| rail web thickness | 8 ÷ 12.5 mm |
| suitable for rail holes | Ø 22 mm |

SALE SETUP

| | |
|--|-----------------|
| A - electrolytically tin-plated copper bush type | AR61DE-1 |
| B - steel expansion bolt | M12 |
| C - flat steel washer | ✓ |
| D - stainless steel self-locking nut | ✓ |

INSTALLATION TOOLS

| | |
|----------------|--------------------|
| hydraulic head | RHTEPE-12-E |
|----------------|--------------------|

ACCESSORIES NEEDED ON REQUEST

| | |
|------------------|---------------|
| installation kit | BAS-19 |
|------------------|---------------|



CCS



CCS cable lugs for various types of copper and copper-steel conductors.

The cable insulation is compressed inside the connector, ensuring protection against oxidation and avoiding the use of heat shrink tubing.

| CABLE | TYPE | QUANTITY BAG/BOX |
|--------------------------------------|------------------|------------------|
| 16 mm ² Cu flexible | CCS16-M6 | 50/200 |
| | CCS16-M8 | 50/200 |
| | CCS16-M12 | 50/200 |
| 25 mm ² Cu flexible/steel | CCS25-M6 | 50/150 |
| | CCS25-M8 | 50/150 |
| | CCS25-M12 | 50/150 |

2A-M12



Copper terminals with special barrel.

To make a sealed crimping between the cable and the terminal.

| COPPER CABLE | TYPE | QUANTITY BAG/BOX |
|---------------------|--------------------|------------------|
| 70 mm ² | 2A14.16-M12 | 50/100 |
| 95 mm ² | 2A19.19-M12 | 25/50 |
| 240 mm ² | 2A48.29-M12 | 5/25 |

CCC



Copper terminals to make a sealed crimping between the cable and the terminal.

| COPPER CABLE | TYPE | QUANTITY BAG/BOX |
|---------------------|---------------------|------------------|
| 35 mm ² | CCC35-M10/1 | 25/75 |
| | CCC35-M12/1 | 25/75 |
| 95 mm ² | CCC95-M12 | 15/30 |
| 150 mm ² | CCC150-M12/1 | 5/25 |

2A24.21-M



Flared cable lugs for various types and sections of copper and mixed copper/steel cables, for various applications.

| COPPER CABLE | TYPE | QUANTITY BAG/BOX |
|---------------------|--------------------|------------------|
| 120 mm ² | 2A24.21-M10 | 25/50 |
| | 2A24.21-M12 | 25/50 |
| | 2A24.21-M16 | 25/50 |

ASED110.22-M-ST



Flared cable lugs for various types and sections of Aluminium cables, for various applications.

| ALUMINIUM CABLE | TYPE | QUANTITY BAG/BOX |
|---------------------|--------------------------|------------------|
| 100 mm ² | ASED110.22-M12-ST | 3/30 |
| | ASED110.22-M16-ST | 3/30 |

B1300TEP

| TYPE | |
|--|------------------|
|  PLUG EU | B1300TEP |
|  PLUG UK | B1300TEPE |
|  PLUG USA | B1300TEPA |



Hydraulic portable battery tool with the head directly connected to the body through a 900 mm flexible hose which allows the tool to be used also with other hydraulic heads, such as RHC131 for the compression of connectors and TC025 for cutting cables and lines.

Supplied with a gauge to be used both for checking the drilling of the rail web and for screwing the calibrated plunger to the head, and with a washer suitable for extruding double faces contacts.

| RAIL WEB CONNECTION | AR CONTACTS | INSTALLATION TOOLS | |
|---|--------------|--------------------|-------------------|
| | | B1300TEP | B1300TEPF |
| SIMPLE FACE | AR60D | ✓ | |
| | AR65 | ✓ | |
| | AR66D | | ✓ |
| | AR66F | | ✓ |
| DOUBLE FACES | AR60DF | ✓ | |
| | AR260LG | ✓ | |
| | AR260DF | ✓ | |
| | AR266DF-16.5 | | ✓ |
| | AR266-16.5 | | ✓ |
| SPECIAL APPLICATIONS | AR260NF | ✓ | |
| | AR260D | ✓ | |
| | AR60A-29 | ✓ | |
| | AR67 | ✓ | ✓ |
| FEATURES | | B1300TEP | B1300TEPF |
| nominal pressure | | 700 bar | 700 bar |
| tool dimensions (LxLxH) | | 353 x 83 x 239 mm | 353 x 83 x 239 mm |
| tool weight | | 5.8 kg | 5.8 kg |
| head dimensions | | 106 mm | 106 mm |
| weight | | 5.7 kg | 5.7 kg |
| SALE SETUP | | B1300TEP | B1300TEPF |
| tool | | B1300TEP | B1300TEPF |
| flexible hose 900 mm | | ✓ | ✓ |
| gauge | | CAL19.20 | CAL135.145 |
| plunger x2 | | OG13.2 | OG10.5 |
| washer Ø 38 mm for double faces contact | | ✓ | - |
| battery x2 | | CB1852L | CB1852L |
| battery charger | | ASC55-EU | ASC55-EU |
| shoulder strap | | ✓ | ✓ |
| plastic case | | VAL-P51 | VAL-P51 |
| ON REQUEST | | B1300TEP | B1300TEPF |
| special plunger | | OG13.2T | OG10.5L |
| installation kit for AR67 contact | | AR67-INST | AR67-INST-F |
| installation kit for AR60A-29 contact | | AR60.29-INST | - |
| extraction kit for AR67 contact | | ECR8 + ECR1 | ECR8F + ECR1 |
| extraction kit for AR60D contact | | ECR19 + ECR1 | - |
| extraction kit for AR65 contact | | ECR22 + ECR2 | - |
| extraction kit for AR66D contact | | - | ECR13.5 + ECR1 |
| trolley | | TRL01 | TRL01 |

HTEP



HTEP type hydraulic tool, manually operated, with head for extrusion of **AR** contacts connected to the pumping body through a 900 mm long flexible hose.

Supplied with a gauge to be used both for checking the drilling of the railweb and for screwing the calibrated plunger to the head, and with a washer suitable for extruding double faces contacts.

| RAIL WEB CONNECTION | AR CONTACT | INSTALLATION TOOLS | | |
|---|--------------|--------------------|----------------|-------------------|
| | | HTEP | HTEPF | HTEPE-12-E |
| SIMPLE FACE | AR60D | ✓ | | |
| | AR65 | ✓ | | |
| | AR66D | | ✓ | |
| | AR66F | | ✓ | |
| DOUBLE FACES | AR60DF | ✓ | | |
| | AR260LG | ✓ | | |
| | AR260DF | ✓ | | |
| | AR266DF-16.5 | | ✓ | |
| | AR266-16,5 | | ✓ | |
| | AR260NF | ✓ | | |
| SPECIAL APPLICATIONS | AR260D | ✓ | | |
| | AR60A-29 | ✓ | | |
| | AR67 | ✓ | ✓ | |
| | AR61E | | | ✓ |
| | AR61DE | | | ✓ |
| FEATURES | | HTEP | HTEPF | HTEPE-12-E |
| tool dimensions (LxL) | | 275 x 130 mm | 275 x 130 mm | 275 x 130 mm |
| head dimensions | | 106 mm | 106 mm | 106 mm |
| weight | | 3 kg | 3 kg | 3 kg |
| SALE SETUP | | HTEP | HTEPF | HTEPE-12-E |
| tool | | ✓ | ✓ | ✓ |
| flexible hose 900 mm | | ✓ | ✓ | ✓ |
| gauge | | CAL19.20 | CAL135.145 | CAL22.23 |
| plunger x2 | | OG13.2 | OG10.5 | OG13.2 |
| washer Ø 38 mm for double faces contact | | ✓ | - | - |
| metal case | | VAL-HTEP | VAL-HTEP | VAL-HTEP |
| ON REQUEST | | HTEP | HTEPF | HTEPE-12-E |
| special plunger | | OG13.2T | OG10.5L | OG13.2T |
| installation kit for AR67 contact | | AR67-INST | AR67-INST-F | - |
| installation kit for AR60A-29 contact | | AR60.29-INST | - | - |
| installation kit for AR61E contact | | - | - | BAS19 |
| extraction kit for AR67 contact | | ECR8 + ECR1 | ECR8F + ECR1 | - |
| extraction kit for AR60D contact | | ECR19 + ECR1 | - | - |
| extraction kit for AR65 contact | | ECR22 + ECR2 | - | - |
| extraction kit for AR66D contact | | - | ECR13.5 + ECR1 | - |

RHTEP


Hydraulic head for the extrusion of **RHTEP** AR contacts to be applied to hydraulic pumps developing a nominal pressure of 700 bar.

Supplied with a gauge to be used both for checking the drilling of the railweb and for screwing the calibrated plunger to the head, and with a washer suitable for extruding double faces contacts.

| RAIL WEB CONNECTION | AR CONTACT | INSTALLATION TOOLS | | |
|---|--------------|--------------------|----------------|--------------------|
| | | RHTEP | RHTEPF | RHTEPE-12-E |
| SIMPLE FACE | AR60D | ✓ | | |
| | AR65 | ✓ | | |
| | AR66D | | ✓ | |
| | AR66F | | ✓ | |
| | AR60DF | ✓ | | |
| DOUBLE FACES | AR260LG | ✓ | | |
| | AR260DF | ✓ | | |
| | AR266DF-16.5 | | ✓ | |
| | AR266-16,5 | | ✓ | |
| | AR260NF | ✓ | | |
| | AR260D | ✓ | | |
| SPECIAL APPLICATIONS | AR60A-29 | ✓ | | |
| | AR67 | ✓ | ✓ | |
| | AR61E | | | ✓ |
| | AR61DE | | | ✓ |
| FEATURES | | RHTEP | RHTEPF | RHTEPE-12-E |
| dimensions | length | 106 mm | 106 mm | 106 mm |
| weight | | 1,1 kg | 1,1 kg | 1,1 kg |
| SALE SETUP | | RHTEP | RHTEPF | RHTEPE-12-E |
| head | | | | |
| gauge | | CAL19.20 | CAL135.145 | CAL22.23 |
| plunger x2 | | OG13.2 | OG10.5 | OG13.2 |
| washer Ø 38 mm for double faces contact | | ✓ | - | - |
| metal case | | VAL-RHTEP | VAL-RHTEP | VAL-RHTEP |
| ON REQUEST | | RHTEP | RHTEPF | RHTEPE-12-E |
| special plunger | | OG13.2T | OG10.5L | OG13.2T |
| installation kit for AR67 contact | | AR67-INST | AR67-INST-F | - |
| installation kit for AR60A-29 contact | | AR60.29-INST | - | - |
| installation kit for AR61E contact | | - | - | BAS19 |
| extraction kit for AR67 contact | | ECR8 + ECR1 | ECR8F + ECR1 | - |
| extraction kit for AR60D contact | | ECR19 + ECR1 | - | - |
| extraction kit for AR65 contact | | ECR22 + ECR2 | - | - |
| extraction kit for AR66D contact | | - | ECR13.5 + ECR1 | - |
| USED WITH | | PUMPS | | |
| hydraulic pump | | PO7000 | | |
| battery operated hydraulic pump | | B1300PL | | |
| portable electro-hydraulic pump | | B68M-P18 | | |
| portable electro-hydraulic pump | | B70M-P36 | | |

CAL

The CAL series gauges are designed to quickly and easily check the diameter of a hole before installing the rail contact, and facilitate the screwing of the OG ogive into the extrusion heads.



| GAUGE | INSTALLATION TOOLS | | |
|------------|-----------------------|--------------------------|-------------------------|
| | B1300TEP, HTEP, RHTEP | B1300TEPF, HTEPF, RHTEPF | HTEPE-12-E, RHTEPE-12-E |
| CAL8.85 | AR67-INST | AR67-INST-F | |
| CAL135.145 | | ✓ | |
| CAL19.20 | ✓ | | |
| CAL22.23 | | | ✓ |

OG

OG plungers have a special thread that allows screwing onto the extrusion heads to be speeded up.



| PLUNGER | INSTALLATION TOOLS | | |
|---------|-----------------------|--------------------------|-------------------------|
| | B1300TEP, HTEP, RHTEP | B1300TEPF, HTEPF, RHTEPF | HTEPE-12-E, RHTEPE-12-E |
| OG6.5 | AR67-INST | AR67-INST-F | |
| OG10.5 | | ✓ | |
| OG10.5L | | ✓ | |
| OG13.2 | ✓ | | ✓ |
| OG13.2T | ✓ | | ✓ |

ECR

In order to remove AR bushes from the rail, available as an optional accessory the **ECR** kit (punch + puller) with positioner.



ECR1 positioner

ECR2 positioner

| RAIL WEB CONNECTION | INSTALLATION TOOLS | |
|---------------------|-----------------------|--------------------------|
| | B1300TEP, HTEP, RHTEP | B1300TEPF, HTEPF, RHTEPF |
| AR60D | ECR19 + ECR1 | - |
| AR60N | - | - |
| AR66D | - | ECR13.5 + ECR1 |
| AR66F | - | - |
| AR65 | ECR22 + ECR2 | - |
| AR67 | ECR8 + ECR1 | ECR8F + ECR1 |

KIT

Kit for the installation of the electrical contact AR67.



| KIT | INSTALLATION TOOLS | |
|-------------|-----------------------|--------------------------|
| | B1300TEP, HTEP, RHTEP | B1300TEPF, HTEPF, RHTEPF |
| AR67-INST | ✓ | |
| AR67-INST-F | | ✓ |

TWC

Torque wrenches with adjustable torque, for the correct tightening of the screws in the contacts on the rail.



| FEATURES | | | | | | | USE | |
|---------------------|---------------------|----------------|---------------|-------|------------|-----------|-------------------|--------------------------|
| type | adjustment range Nm | drive size in. | dimensions mm | | | weight gr | with sockets | need adapter |
| | | | length | width | head width | | | |
| TWC10.50-14 | 10-50 | ¼ | 328 | 35 | 28 | 660 | family DSC | KA14-38 + KA38-12 |
| TWC20.100-38 | 20-100 | ⅜ | 435 | 45 | 35 | 1300 | | KA38-12 |
| TWC40.200-12 | 40-200 | ½ | 510 | 45 | 40 | 1506 | | - |

DSC

Deep hexagonal sockets ½" drive.



| FEATURES | | | | | | | |
|-------------------|-------------------------|--------------|---------------|----------------|--------------|-----------|--|
| type | for AR connections | hexagonal mm | dimensions mm | | | weight gr | |
| | | | length | Ø ext. hexagon | Ø ext. drive | | |
| DSC12-170L | AR66 | 17 | 77 | 23.8 | 22 | 120 | |
| DSC12-190L | AR60D, AR60A-29, AR260D | 19 | 77 | 25.7 | 24 | 134 | |
| DSC12-240L | - | 24 | 77 | 31.8 | 27.8 | 210 | |
| DSC12-300L | - | 30 | 77 | 39.9 | 34 | 300 | |
| DSC12-320L | - | 32 | 77 | 41.8 | 35.8 | 336 | |

KA

Socket's adapters.



| FEATURES | | | | | |
|----------------|--------|---------------|--------|----------|-----------|
| type | length | dimensions mm | | | weight gr |
| | | □ female | ■ male | Ø female | |
| KA14-38 | 26,5 | 1/4 | 3/8 | 13,9 | 21 |
| KA38-14 | 26,3 | 3/8 | 1/4 | 18,8 | 25 |
| KA38-12 | 36,1 | 3/8 | 1/2 | 19,2 | 52 |
| KA12-38 | 35,99 | 1/2 | 3/8 | 21,7 | 52 |

CRH12



1/2" Reversible ratchet wrench:

- Mechanism with 72 teeth and a recovery angle of 5°
- Reversible ratchet system
- Ergonomic handle in dual-compound material
- Satin chrome finish
- Chromium-vanadium steel
- Standards: UNI ISO 3315 - DIN 3122

FEATURES

| | |
|------------------|-------------|
| dimensions (LxH) | 260 x 38 mm |
| head width | 40 mm |
| weight | 547 gr |

EBC12-250



1/2" Drive extension 250 mm long:

- Socket quick release system
- Chromium-vanadium steel
- Satin chrome finish
- Standards: UNI ISO 3315 - DIN 3123

FEATURES

| | |
|--------|--------|
| length | 250 mm |
| weight | 441 gr |

STBC12-300



1/2" Drive T bar with sliding handle

- Chromium-vanadium steel
- Satin chrome finish
- Standards: UNI ISO 3315 - DIN 3122

FEATURES

| | |
|------------------|-------------|
| dimensions (LxH) | 300 x 25 mm |
| head width | 24 mm |
| weight | 365 gr |

TEMPORAIL

The Temporail system of connections and tooling provides a quick and reliable means to guarantee continuity of conductivity in rails during maintenance, repair and new installations.

Essential for maintaining return current connections, the Temporail system is also ideal for temporary signaling applications and earthing between the line and adjacent track side structures.

CEMBRE Temporail system applies to most of rail types with 125, 140 and 150 mm foot

For suitability verification please contact CEMBRE.

- Easy installation /removal using CEMBRE patented tool HT-TRC
- Safer working without the risks associated with alternative systems
- Connection without any drilling or welding
- No grinding or cleaning from previous operations
- High vibration resistance
- Accurate location on rail foot
- Re-usability due to controlled use of force



| TYPE | COMPRISING |
|----------------------|---|
| RTC1AL10-2000 | 2 m 120 mm ² insulated Aluminium flexible conductor cl.5 terminated both ends with Aluminium lugs and fixed with M10 Steel bolts and plain washers |
| RTC1AL10-V | TEMPORAIL clamp, supplied with screw and washer, to be used in combination with other conductors of different lengths already terminated with cable lugs. |



HT-TRC

- Specifically designed to insert and extract CEMBRE Temporail clamp
- Works on all rail types with foot up to 150 mm
- Patented tool with safety feature protects against ejection of metal pieces during extraction



FEATURES

| | |
|--------------------|-------------------|
| crimping force | 50 kN |
| nominal pressure | 700 bar |
| dimensions (LxLxH) | 715 x 177 x 70 mm |
| weight | 7.5 kg |



Temporail requires no preliminary preparation to ensure good electrical connection as the clamp deeply scores the surface of the rail foot during installation.

CSF

At the transition between ground and rail foot, a cable must be correctly supported to avoid damaged, for example, during surface work. The CSF support is designed for simple fixing to the rail foot and requires no drilling.

CSF1 and **CSF2** consist of the following components:

- Cable support in 30% Glass fibre reinforced PA6.6
- 1 clips in Stainless Steel AISI302 for fixing on rail foot
- 2 cable ties in PA12 180x9 mm; black; Type 1618.90
- 2 Stainless Steel cable ties *GX200x4,5

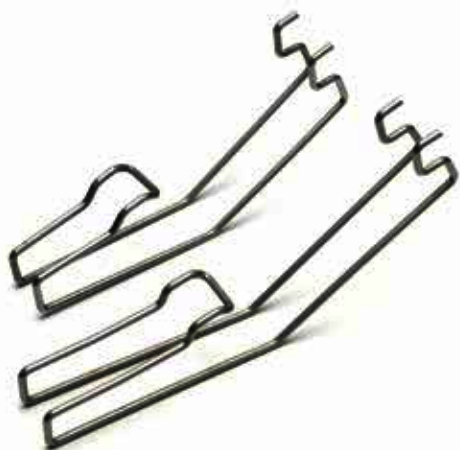
* Fixing requires cable tie tool type 5527030079



| TYPE | Ø MAX CABLE mm | RAIL FOOT WIDTH mm | RAIL |
|------|----------------|--------------------|-----------------------|
| CSF1 | 30 | 150 | 60E1 (UIC 60) |
| CSF2 | 30 | 125 | 49E1 (S49) 54E3 (S54) |

SFK

Designed for the secure and durable fixing of cable max. Ø 22 mm to the rail foot without the need for tools.



| TYPE | Ø MAX CABLE mm | RAIL FOOT WIDTH mm | RAIL |
|--------|----------------|--------------------|-----------------------|
| SFK125 | 22 | 125 | 49E1 (S49); 54E3(S54) |
| SFK150 | 22 | 150 | 60E1 (UIC60); R65 |



TRACK MAINTENANCE SOLUTIONS



THE BEST SOLUTION FOR RAIL DRILLING

The **LD** family of drills, manufactured by CEMBRE for over 40 years, is the solution for safe and correct rail drilling in a wide variety of railway applications.

Ergonomics, attention to detail, and tool-free set-up, enable fast, precise and quality operations.

The robustness and materials that distinguish CEMBRE machines significantly extend tool life and reduce maintenance requirements.

The special mechanical transmission makes it possible to achieve the best weight/power trade-off.

All this results in time savings without neglecting any safety-related details.



Lightweight, to facilitate transport to the work area

Compact, to accommodate use in very confined spaces



High-efficiency oil-bath gear transmission



Adjustable feed lever to best suit the height of the operator or application



Double-profile jig with quick-release coupling to reduce the accessories and tools you need to carry with you





Chuck with quick-release coupling for quick cutter replacement



Quick locking and unlocking thanks to return springs on the rail fastener



LD-16B-RP

LD is the best solution for rail drilling in all respects: no emission of harmful gases, low noise and vibration impact, high battery efficiency and very high execution speed.





These features make it ideal for working in closed environments, such as tunnels and underground lines, and for night work.

The smart power-reading system acts as a drilling assistant by telling the operator, via the colour of the LED, how to modulate the thrust on the drive lever.

The battery is compatible with the **SD-19BR-RP** sleeper drill and **B70M-P36** pump.



- Complete drilling in less than 60 seconds
- 40 x 19mm holes with one charge
- Battery charging time 60 minutes
- Ingress Protection IP44M
- 36V CEMBRE system
- Brushless motor
- Electronic drill assistant with coloured LED

| TYPE | |
|--|------------|
|  PLUG EU | LD-16B-RP |
|  PLUG UK | LD-16B-RPE |
|  PLUG 230 | LD-16B-RPA |
|  PLUG 255 | LD-16B-RPT |

FEATURES

| | |
|--|--------------------|
| drilling range | Ø 7 ÷ 33 mm |
| with special spiral bits on rail up to 45 mm thick | Ø 7 ÷ 33 mm |
| with broach cutters on rail up to 50 mm thick | Ø 13 ÷ 33 mm |
| max. rail web thickness | 50 mm |
| speed of the shaft without load | 260 U/min |
| power supply | 36 V --- |
| dimensions (LxWxH) | 489 x 271 x 485 mm |
| weight with batteries and over rail clamp DBG-F2 | 18.9 kg |

SALE SETUP

| | |
|--|------------------|
| drilling machine | LD-16B-RP |
| battery x2 | CB3662L |
| battery charger | ASC145-EU |
| canvas bag for batteries and battery charger | CVB-032 |
| over rail clamp | DBG-F2 |
| accessories kit | ✓ |
| coolant unit | SR5000 |

see ACCESSORIES LD for more details

CASE ON REQUEST

| | |
|----------------------|-------------------|
| plastic case | VAL-P24 |
| wheeled plastic case | VAL-P24-CS |
| metal case | VAL-LD |

see CASES LD



LD-1P-ECO

Thanks to the power of the KAWASAKI TJ045 motor and the high efficiency ratio of the mechanical transmission, the LD-1P-ECO is the version of the CEMBRE 2-stroke drill that is always ready for use.

- KAWASAKI TJ045 2-stroke motor
- Automatic air opening system on the carburettor
- high power, immediately available
- can be used in all positions



FEATURES

| | |
|--|---|
| drilling range | Ø 7 ÷ 40 mm |
| with special spiral bits on rail up to 45 mm thick | Ø 7 ÷ 27.5 mm |
| with broach cutters on rail up to 50 mm thick | Ø 13 ÷ 40 mm |
| engine | |
| petrol | 2 cycles |
| displacement | 45.4 cc |
| fuel mixture ratio | synthetic oil 2% (1:50) |
| start | by pull chord |
| clutch | centrifugal with automatic intervention |
| power | 1.4 KW |
| dimensions (LxWxH) | 489 x 261 x 485 mm |
| weight with over rail clamp DBG-F2 | 18.9 kg |

SALE SETUP

| | |
|-----------------------|-----------|
| rail drilling machine | LD-1P-ECO |
| over rail clamp | DBG-F2 |
| accessories kit | ✓ |
| coolant unit | SR5000 |

see ACCESSORIES LD for more details

CASE ON REQUEST

| | |
|----------------------|------------|
| plastic case | VAL-P24 |
| wheeled plastic case | VAL-P24-CS |
| metal case | VAL-LD |

see CASES LD



LD-41P

The HONDA GX035 4-stroke power drill is the green petrol-powered solution. The efficiency of the mechanical transmission enables full power to be transmitted to the cutter shaft. The HONDA GX035 motor can be used in all positions thanks to its special engine oil draining system.

- HONDA GX035 4-stroke motor
- Can be used in all positions
- Limited environmental impact
- Easy motor starting thanks to the automatic decompression system



FEATURES

| | |
|--|---|
| drilling range | Ø 7 ÷ 40 mm |
| with special spiral bits on rail up to 45 mm thick | Ø 7 ÷ 27,5 mm |
| with broach cutters on rail up to 50 mm thick | Ø 13 ÷ 40 mm |
| engine | |
| petrol | 4 cycles |
| displacement | 35.8 cc |
| fuel oil/gasoline | unleaded regular grade petrol |
| start | by rope pull |
| clutch | centrifugal with automatic intervention |
| power | 1 KW |
| dimensions (LxWxH) | 489 x 261 x 485 mm |
| weight with over rail clamp DBG-F2 | 19.5 kg |

SALE SETUP

| | |
|-----------------------|---------------|
| rail drilling machine | LD-41P |
| over rail clamp | DBG-F2 |
| accessories kit | ✓ |
| coolant unit | SR5000 |

see ACCESSORIES LD for more details

CASE ON REQUEST

| | |
|----------------------|-------------------|
| plastic case | VAL-P24 |
| wheeled plastic case | VAL-P24-CS |
| metal case | VAL-LD |

see CASES LD



ACCESSORIES KIT

The accessory kits supplied with the drills contain the following items:



| | CODE | DESCRIPTION | KIT ACCESSORIES | | |
|---|---------|---|-----------------|-------|--------|
| | | | LD-16B-RP | LD-1P | LD-41P |
|  | 6001131 | guide bit PP1 | ✓ | ✓ | ✓ |
|  | 6001130 | guide bit PP2 | ✓ | ✓ | ✓ |
|  | 6001132 | guide bit PPL1 | ✓ | ✓ | ✓ |
|  | 6001133 | guide bit PPL2 | ✓ | ✓ | ✓ |
|  | 6001140 | spacer DPE | ✓ | ✓ | ✓ |
|  | 6001222 | external coolant connection adapter ARE | ✓ | ✓ | ✓ |
|  | 6001361 | gear oil bottle (100 ml) | ✓ | ✓ | ✓ |
|  | 6134010 | 4 mm T-handle Allen key | ✓ | ✓ | ✓ |
|  | 6134020 | 5 mm Allen key | ✓ | ✓ | ✓ |
|  | 6134030 | 6 mm Allen key | ✓ | ✓ | ✓ |
|  | 6261310 | brush | ✓ | ✓ | ✓ |
|  | 6900316 | screws M6x16 (4 pcs) | ✓ | ✓ | ✓ |
|  | 6900330 | screws M6x25 (4 pcs) | ✓ | ✓ | ✓ |
|  | 6134057 | spark plug key 16 | | | ✓ |
| | 6134040 | spark plug key 19 | | ✓ | |
|  | 6261300 | calibrated measure | | ✓ | |
|  | 6004389 | grab screw QUICK (2 pcs) | ✓ | ✓ | ✓ |
|  | 6004388 | transverse threaded pin QUICK | ✓ | ✓ | ✓ |
|  | 6003346 | wing nut for inserts KPAF M8 (2 pcs) | ✓ | ✓ | ✓ |
|  | 6640194 | washer Ø 8 mm HLS (2 pcs) | ✓ | ✓ | ✓ |

DBG-F2

Over rail clamp for clamping drilling machine to rail web and track fittings. Complete with four terminations:

- **TDB1** for switch blades and confined spaces
- **TDB3** for re-drilling existing holes in rails for subsequent application of electrical connections and for additional special applications
- **TDB6** for UIC60 rail

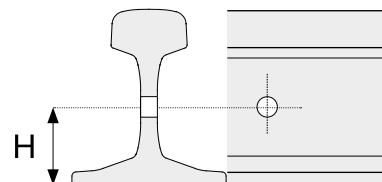


MPAF

Templates for positioning rail drills **MPAF** on rails and contragons.

Easy to install thanks to a design that facilitates correct positioning on the drill. They interface with the **SPA** positioning brackets.

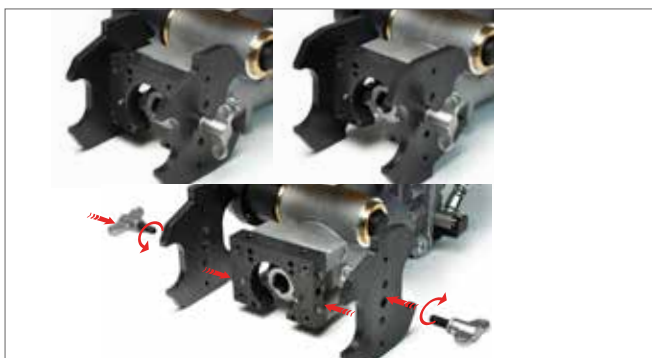
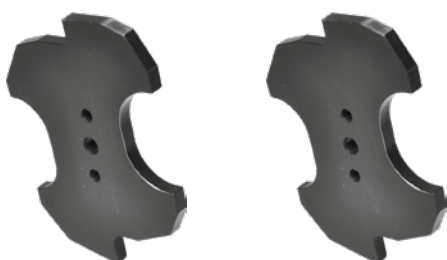
MPAF



| TYPE | RAIL | H mm |
|--------------------|-------------------------------|-------|
| MPAF-46UNI | 46E4 (ex 46 UNI) | 62,5 |
| MPAF-48SA | 48 kg/m South Africa | 66 |
| MPAF-5D | 45E2 (ex DSB45) | 61 |
| MPAF-50E2T1 | 50E2T1 (ex EB63T) | 67,5 |
| MPAF-50UNI | 50E5 (ex 50UNI)+49E1 (ex S49) | 62,5 |
| MPAF-57SA | 57 kg/m South Africa | 70 |
| MPAF-EB50 | 50E2 (ex EB50) | 67,5 |
| MPAF-R65 | R65 Germany | 78,5 |
| MPAF-S41 | 40E1, 41E1 (ex S41 R10 & R14) | 59,5 |
| MPAF-S54 | 54E3 (ex S54) | 64 |
| MPAF-STR40 | Str40 (conductor rail) | 42 |
| MPAF-SJ50 | 50E3 (ex BV50) | 67 |
| MPAF-U33 | 46E2 (ex U33) | 62,5 |
| MPAF-U50 | 50E6 (ex U50)+50E1 (ex U50E) | 66 |
| MPAF-UIC60 | 60E1 (ex UIC60) | 76,25 |
| MPAF-UIC54 | 54E1 (ex UIC54) | 70 |
| MPAF-VST36 | VST36 | 55 |

KPAF

Unlike standard templates for positioning rail drills, **KPAF** kits have a double profile that enables positioning of the drill on two different types of rail by simply rotating the inserts fixed on the sides of the front plate.



Consult us for other applications.

GUIDE BITS AND ADAPTERS

Accessories required for drilling vignoles rails.

| GUIDE BIT | ACCESSORIES NEEDED |
|------------|--|
| | guide bit PPL1, PPL2* |
| CYL | |
| | adapter PPDF2 + guide bit PFA1 |
| CY | |
| | adapter PFAD2 for U33 rail |
| PE | |

*supplied with LD drills

DBG-LF2

Over rail clamp for clamping the drill to girder rails. Use the **DBG-LF2** device in place of the DBG-F2 supplied with the drilling machine, for positioning the machine on girder rails. Complete with the termination **TDB7**.

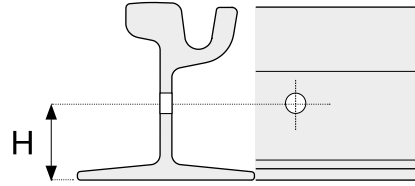
It also allows the correct securing of the drill:

- in a horizontal position for drilling holes for mechanical and electrification joints
- in a vertical position for drilling drainage holes



MPAF

Positioning jigs on groove rails for drilling at a fixed height on both sides of the rail:



| TYPE | RAIL | H mm |
|-------------------------|-------------------------------|------|
| MPAF-35G | 54G1, 54G2, 55G1, 55G2 (35GP) | 59 |
| MPAF-NP4AM | 62R1, 62R2 (NP4AM) | 73 |
| MPAF-RI55NK-56.5 | RI55 | 56,5 |
| MPAF-RI60N | RI60N | 73 |

CYL long cutters must be used with these jigs.



GUIDE BITS AND ADAPTERS

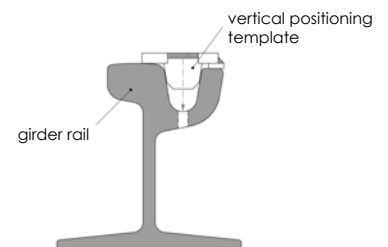
Accessories required for drilling groove rails.

| GUIDE BIT | ACCESSORIES NEEDED |
|-----------|--|
| CYL | guide bit PPL1, PPL2* |
| CY | adapter PPDF2 + guide bit PFA1 |
| PE | adapter PFAD2 for U33 rail |

*supplied with LD drills

MPAS

This template allows the correct vertical positioning to drill girder rails for water discharge.



| TYPE | RAIL |
|--------------------|--------------------------------|
| MPAS-35G-GP | 54G1, 54G2, 55G1, 55G2 (35GP) |
| MPAS-41GP13 | 41GP13 |
| MPAS-SEI70G | SEI70G |
| MPAS-RI60N | 59R1, 59R2, 60R1, 60R2 (RI60N) |

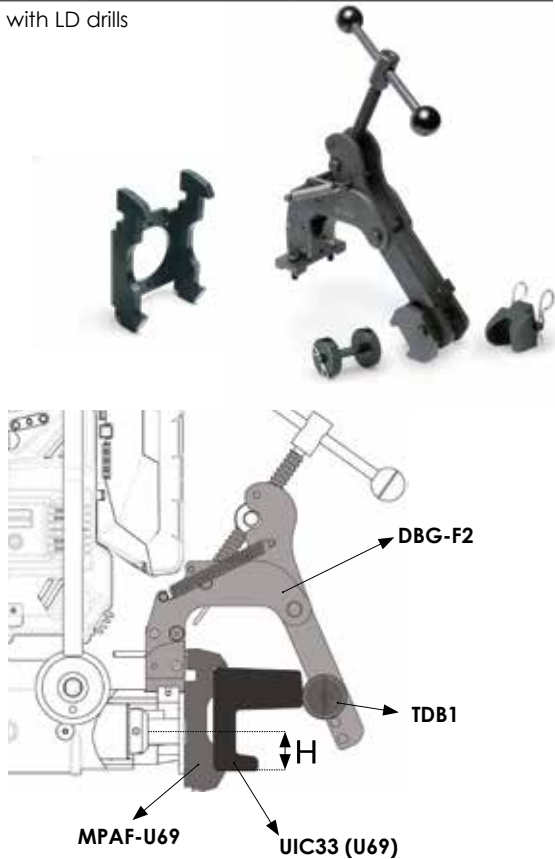


DBG-F2 + MPAF-U69

Solution for boring the rail free from constraints.

| TYPE | RAIL | H mm |
|----------|-------------|------|
| DBG-F2* | | - |
| MPAF-U69 | U69 (UIC33) | 35 |
| TDB1* | U69 (UIC33) | - |

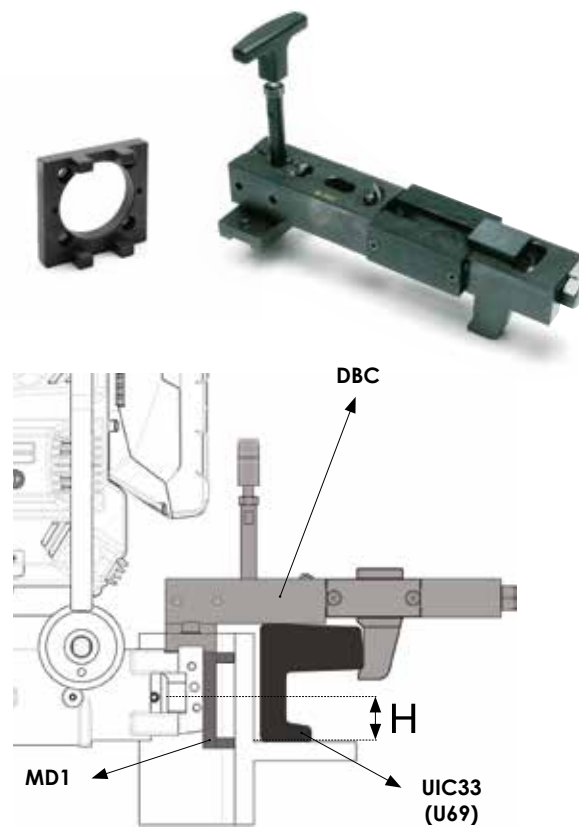
*supplied with LD drills



DBC + MD1

Rail drilling solution already installed on-site.

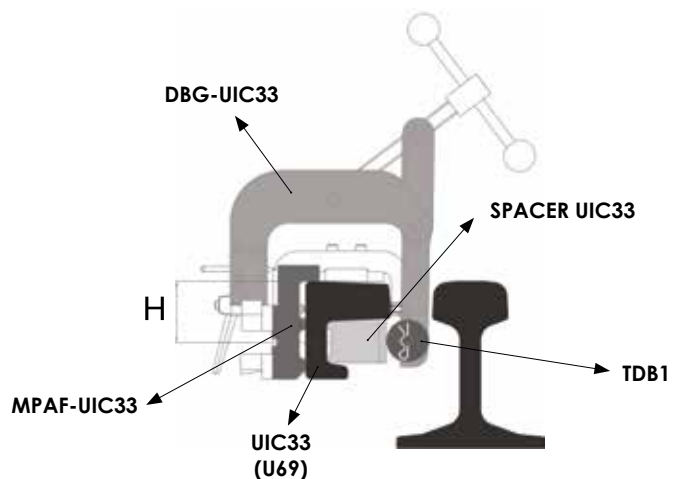
| TYPE | RAIL | H mm |
|------|-------------|------|
| DBC | | - |
| MD1 | U69 (UIC33) | 35 |



DBG-UIC33 + MPAF-UIC33

Solution for drilling the rail in situ in the presence of installed rail.

| TYPE | RAIL | H mm |
|--------------|-------------|------|
| DBG-UIC33 | | - |
| MPAF-UIC33 | U69 (UIC33) | 35 |
| SPACER UIC33 | U69 (UIC33) | - |



DBG-AY + MPAF-CRO

The solution to positioned the drill on the crocodile rail.

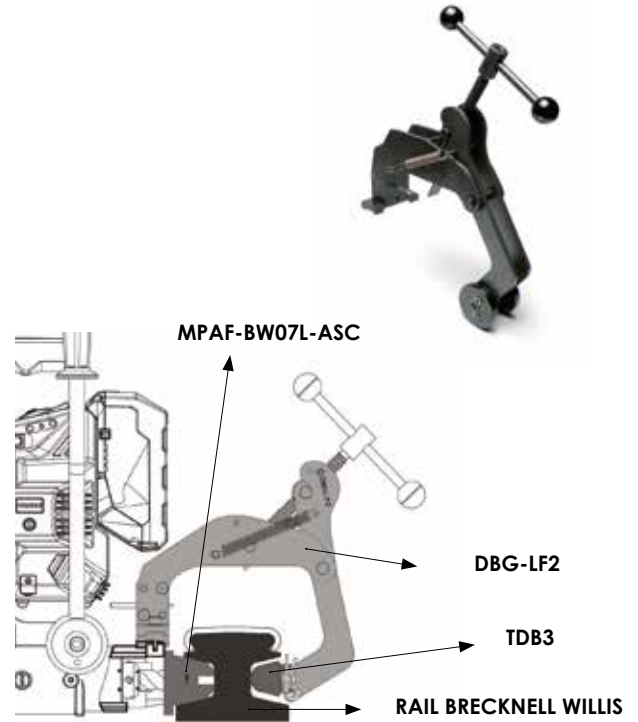
| TYPE | RAIL | H mm |
|----------|-----------|------|
| DBG-AY | - | - |
| MPAF-CRO | crocodile | 26 |
| TDB2 | - | - |



MPAF-BW07L-ASC

The solution to positioned the drill on the conductor rail.

| TYPE | RAIL | H mm |
|----------------|------------------|------|
| DBG-LF2 | - | - |
| MPAF-BW07L-ASC | Brecknell Willis | 42.5 |
| TDB3 | - | - |

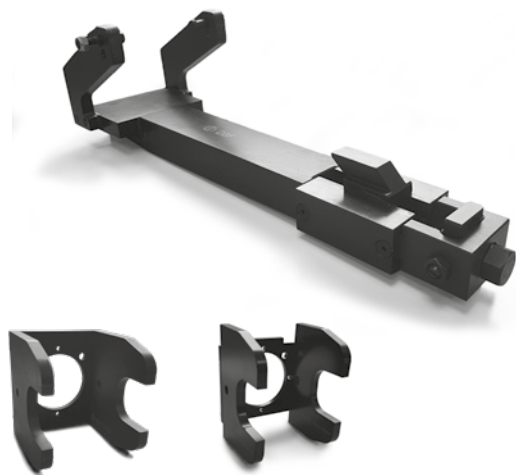


DBF

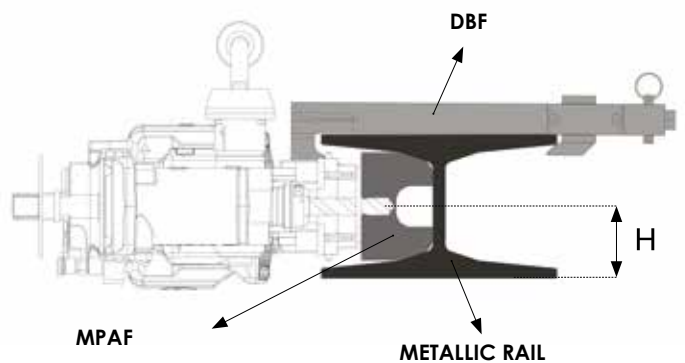
Track blocking support for drilling metal bearing tracks with gauges:

- MPAF-230X140** for rail 230x140
- MPAF-250X120** for rail 250x120

Add **PFAD2** drill extension for track 250x120.

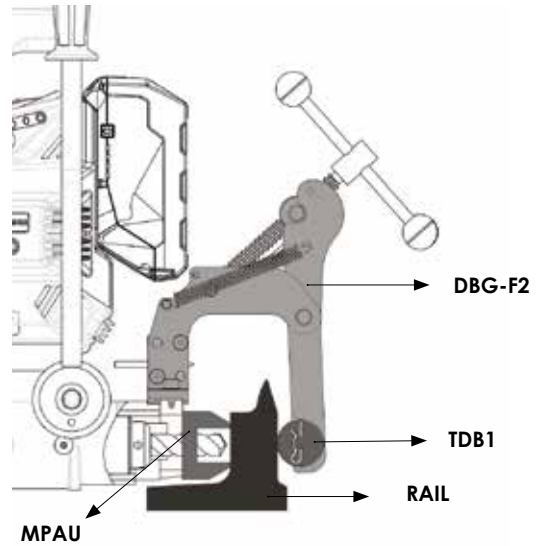
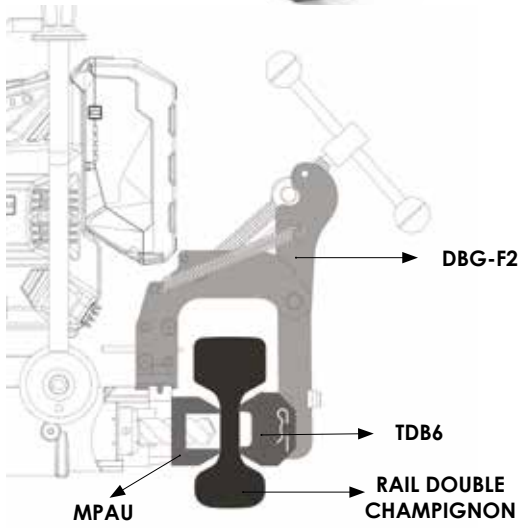


| TYPE | METALLIC RAIL | H mm |
|--------------|---------------|------|
| DBF | - | - |
| MPAF-230X140 | 230 x 140 | 70 |
| MPAF-250X120 | 250 x 120 | 60 |
| PFAD2 | - | - |



MPAU

Universal templates for other kinds of rails or for special applications (positioning not automatic).



SPA/2-HSB

Suitable to adjust the drilling height to be used in combination with **MPAU** template.



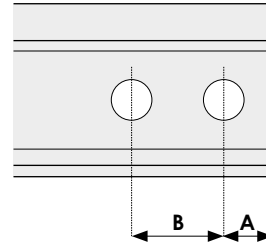
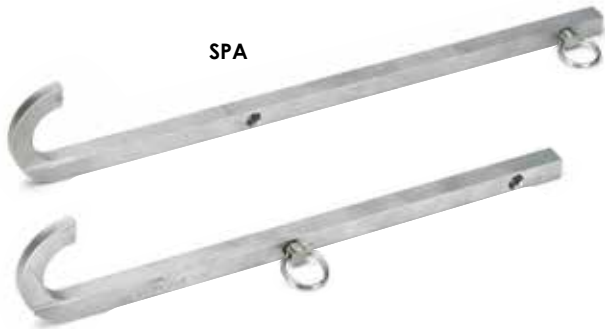
MPDU

Universal templates for other kinds of rails (adjustable positioning).



SPA + MRF

Positioning connecting plates to be used in conjunction with the **MPAF** positioning templates for a centre-to-centre distance, established in the Railway board standards.

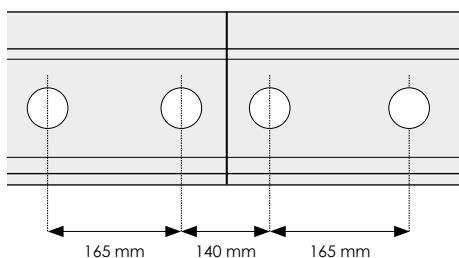


| TYPE | APPLICATION | A mm | B mm |
|------------------|------------------------|------|-------|
| SPA/1FR/U50UIC60 | UIC60 + U50 | 60 | 230 |
| SPA/1FR/V52 | V52 | 68 | 128 |
| SPA/2-55E1 | 55E1 | 57,5 | 217,5 |
| SPA-EST46 | 46UNI | 67,5 | 207,5 |
| SPA-S4954UIC60CF | S49 + S54 + UIC60 | 46 | 211 |
| SPA-UIC54E-60 | UIC54 | 65 | 265 |
| SPA-UIC60-EB50 | UIC60 + 50E2 (ex EB50) | 75 | 215 |
| SPA-V52 | V52 | 128 | 268 |

Consult us for other applications.

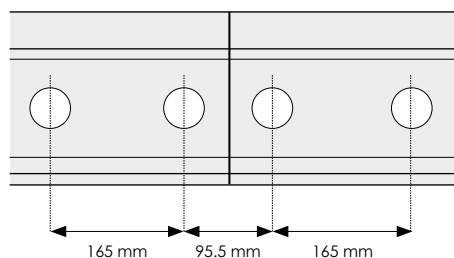
MRF-DB-UIC60-V

Positioning clamp for mechanical joints.
Allows easy positioning thanks to the marking of the centre line, for drilling 4 holes at predetermined distances.



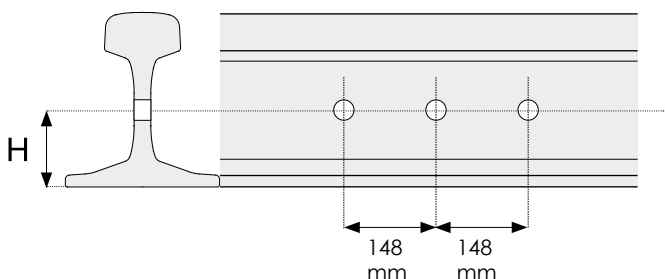
MRF-DB-UIC60-N

Positioning clamp for mechanical joints.
Allows easy positioning thanks to the marking of the centre line, for drilling 4 holes at predetermined distances.



MRFT-SR-A

Positioning jig for axle counter gauge fixing holes, with hole centre distances of 148 mm.
Rail foot clamping allows the jig to remain in place during train passage.
Compatible with CEMBRE MPAF and MPSR jigs.
Check with CEMBRE which one is most suitable for your application.



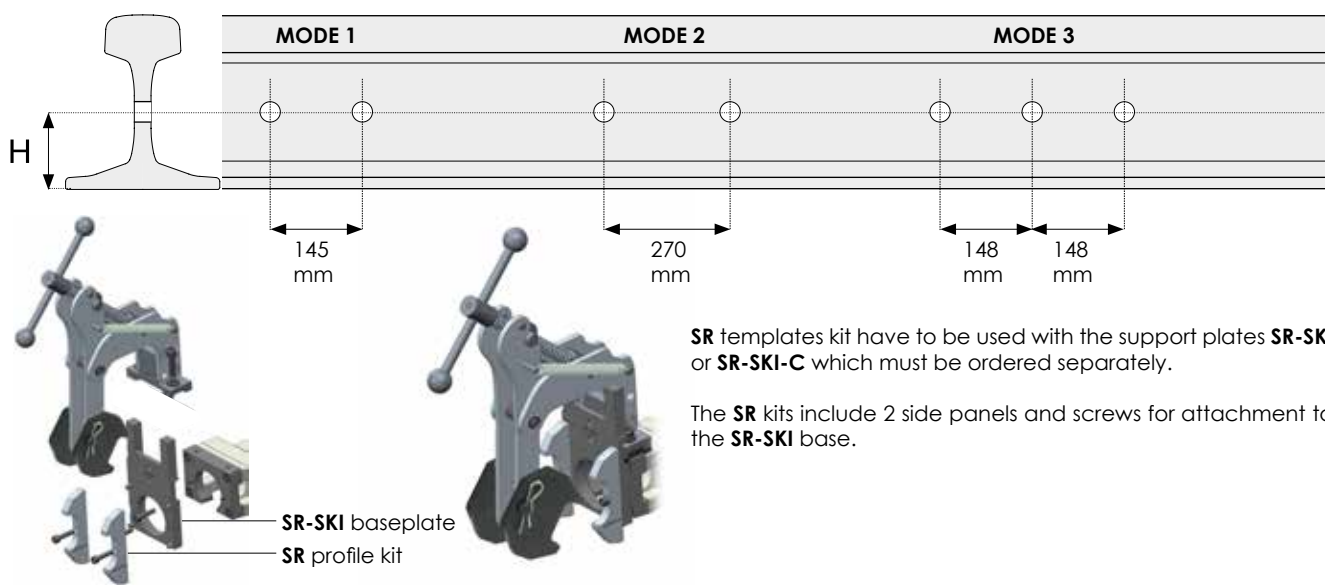
| TYPE | RAIL | H mm |
|-------------------------|--------------|------|
| MPSR-50T-64 | 50E2 (50T) | 64 |
| MPSR-UIC60-85 | 60E1 (UIC60) | 85 |
| MPSR-BS70A-53 | BS70A | 53 |
| MPSR-UIC54-63 | 54E1 (UIC54) | 63 |
| MPSR-46UNI-64 | 46E4 (46UNI) | 64 |
| MPSR-UIC54-68 | 54E1 (UIC54) | 68 |
| MPSR-UIC54-72 | 54E1 (UIC54) | 72 |
| MPSR-UIC60-74 | 60E1 (UIC60) | 74 |
| MPSR-UIC60-68 | 60E1 (UIC60) | 68 |
| MPSR-S54-63 | 54E3 (S54) | 63 |
| MPSR-S54-68 | 54E3 (S54) | 68 |
| MPSR-S49-64 | 49E1 (S49) | 64 |
| MPSR-37JP-53 | JIS 37KG | 53 |
| MPSR-50JP-63 | JIS 50KG N | 63 |
| MPSR-100LB-RE-64 | 100LB RE | 64 |
| MPSR-R65-94 | R65 | 94 |
| MPSR-AS60-68 | AS60 | 68 |
| MPSR-AS53-64 | AS53 | 64 |
| MPSR-50JP-70 | JIS 50KG N | 70 |
| MPSR-50JP-82 | JIS 50KG N | 82 |
| MPSR-40JP-65 | JIS 40KG N | 65 |
| MPSR-40JP-69 | JIS 40KG N | 69 |

MRF-SR-SFA + SR-SKI + SR

Positioning clamp for drilling holes for the installation of wheel sensors.

This clamp is installed on the rail head and can be used in 3 modes, which correspond to 3 different sensor models:

- **MODE 1:** 2 holes at a distance of 145 mm
- **MODE 2:** 2 holes at a distance of 270 mm
- **MODE 3:** 3 holes at a distance of 148 mm



SR templates kit have to be used with the support plates **SR-SKI** or **SR-SKI-C** which must be ordered separately.

The **SR** kits include 2 side panels and screws for attachment to the **SR-SKI** base.

| PROFILE KIT | RAIL | H mm |
|-----------------|------------------|-------|
| SR-UIC60-74 | 60E1 (ex UIC60) | 74 |
| SR-UIC60-85 | 60E1 (ex UIC60) | 85 |
| SR-S49 | 49E1 (ex S49) | 62,5 |
| SR-S54-67.5 | 54E3 (ex S54) | 67,5 |
| SR-BS95RBH-58.5 | BS95RBH | 58,5 |
| SR-S49-64 | 49E1 (ex S49) | 64 |
| SR-S41 | 40E1 (ex S41) | 59,5 |
| SR-S41-58 | 40E1 (ex S41) | 58 |
| SR-UIC54-72.5 | 54E1 (ex UIC54) | 72,5 |
| SR-UIC54 | 54E1 (ex UIC54) | 70 |
| SR-UIC54-71.5 | 54E1 (ex UIC54) | 71,5 |
| SR-UIC54-74.5 | 54E1 (ex UIC54) | 74,5 |
| SR-BS113A-72.25 | 56E1 (ex BS113A) | 72,25 |
| SR-XA-52.5 | 35E1 (ex Xa) | 52,5 |
| SR-46UNI-58.5 | 46E4 (ex 46UNI) | 58,5 |
| SR-46UNI-64 | 46E4 (ex 46UNI) | 64 |
| SR-S41-51.5 | 40E1 (ex S41) | 51,5 |
| SR-UIC60-85.5 | 60E1 (ex UIC60) | 85,5 |
| SR-S41-62.5 | 40E1 (ex S41) | 62,5 |
| SR-VA71B-74 | VA71B | 74 |
| SR-VA71B-85 | VA71B | 85 |
| SR-UIC60-81 | 60E1 (ex UIC60) | 81 |
| SR-50E2T1-64 | 50E2T1 | 64 |
| SR-50E2-64 | 50E2 | 64 |
| SR-R50 | R50 / (P50) | 68,5 |
| SR-S60CN-89 | S60 (Cina) | 89 |
| SR-UIC60-68 | 60E1 (ex UIC60) | 68 |
| SR-S54-63 | 54E3 (ex S54) | 63 |
| SR-AS60-83.5 | AS60 | 83,5 |

| PROFILE KIT | RAIL | H mm |
|----------------|------------------|-------|
| SR-UIC54-68 | 54E1 (ex UIC54) | 68 |
| SR-60E1T2-85 | 60E1T2 | 85 |
| SRT-UIC60 | 60E1 (ex UIC60) | 85,9 |
| SRT-S49 | 49E1 (ex S49) | 63 |
| SRT-S54 | 54E3 (ex S54) | 68 |
| SRT-115RE-86.5 | 115 RE | 82,5 |
| SRT-132RE-86.5 | 132 RE | 95 |
| SRT-119RE | 119 RE | 87 |
| SRT-136RE | 136 RE | 100 |
| SRT-141AB-86.5 | 141 AB | 103 |
| SRT-127DY | 127 DY | 92 |
| SRT-133RE | 133 RE | 93,5 |
| SRT-100ASCE | 100 ASCE | 60,5 |
| SRT-105DY | 105 DY | 66,5 |
| SRT-112RE | 112 RE | 82,5 |
| SRT-140RE | 140 RE | 100 |
| SRT-100RE | 100 RE | 66,5 |
| SRT-100ARA-A | 100ARA-A | 66,5 |
| SR-S49-73.3 | 49E1 (ex S49) | 73,3 |
| SR R65-86.5 | R65 | 86,5 |
| SR R65-2-93.5 | R65 | 93,5 |
| SR-60KG/M-89 | - | 89 |
| SR-U33-57 | 46E2 (ex U33) | 57 |
| SR-U50-61 | 50E6 (ex U50) | 61 |
| SR-UIC54-63 | 54E1 (ex UIC54) | 63 |
| SR-BS113A-65 | 56E1 (ex BS113A) | 65 |
| SR-JIS50-71.5 | JIS50N | 71,5 |
| SR-NP46-62.25 | NP46 | 62,25 |

CY



The new **CY** broach cutter family is made by CEMBRE and has been specifically designed for optimum use with CEMBRE rail drilling machines. CY type cutters are suitable for drilling Steel rail quality grades 700-900-1100 (UIC 860.0).

Fitted with a Quick push/turn shank, the CY family has an original cutting geometry and an additional coating of Titanium Nitride (TiN) with high hardness and low friction to improve both the cut surface finish and corrosion resistance, while staying sharper for longer. With these characteristics, the performance of CEMBRE CY broach cutters easily surpasses that of the previous A and A-L types, by providing:

- more holes per single broach cutter
- drilling time definitively lower
- better cut surface finish



| TIN COATED SHORT BROACH CUTTERS | | GUIDE BIT* |
|---------------------------------|--------------|------------|
| Ø mm | TYPE | TYPE |
| 13 | CY130 | PP1 |
| 13,5 | CY135 | |
| 16 | CY160 | |
| 17 | CY170 | |
| 18 | CY180 | |
| 19 | CY190 | |
| 20 | CY200 | |
| 21 | CY210 | |
| 22 | CY220 | |
| 23 | CY230 | |
| 24 | CY240 | |
| 25 | CY250 | |
| 26 | CY260 | |
| 27 | CY270 | |
| 28 | CY280 | |
| 29 | CY290 | |
| 30 | CY300 | |
| 32 | CY320 | |
| 33 | CY330 | |

max. drilling thickness 25 mm



| TIN COATED LONG BROACH CUTTERS | | GUIDE BIT* |
|--------------------------------|---------------|------------|
| Ø mm | TYPE | TYPE |
| 14 | CY140L | PPL1 |
| 16 | CY160L | |
| 17 | CY170L | |
| 18 | CY180L | |
| 19 | CY190L | |
| 20 | CY200L | |
| 21 | CY210L | |
| 22 | CY220L | |
| 23 | CY230L | |
| 24 | CY240L | |
| 25 | CY250L | |
| 26 | CY260L | |
| 27 | CY270L | |
| 28 | CY280L | |
| 29 | CY290L | |
| 30 | CY300L | |
| 32 | CY320L | |
| 33 | CY330L | |

max. drilling thickness 50 mm

*supplied with LD drills


PE

Using **PE** bits guarantees optimum performance during the drilling operation. The semi-automatic lubrocooling system, reduces friction and eliminates heat build up during the drilling operation.

All bits allow drilling of thicknesses up to 45 mm.



| TiN COATED BITS | | ADAPTER |
|-----------------|--------|--------------|
| Ø mm | TYPE | TYPE |
| 7 | PE70 | APED70 |
| 8 | PE80 | APED80 |
| 9 | PE90 | APED90 |
| 9,5 | PE95 | APED95 |
| 10 | PE100 | APED100 |
| 12 | PE120 | APED120 |
| 13 | PE130 | APEDW130 |
| 13,5 | PE135 | APEDW135/165 |
| | PE135C | |
| 14 | PE140 | |
| 16 | PE160 | |

| BITS | | ACCESSORIES |
|------|-------|---|
| Ø mm | TIPO | TIPO |
| 17 | PE170 | |
| 18 | PE180 | DPE* |
| 19 | PE190 |  |
| 21 | PE210 | |
| 22 | PE220 | |

*supplied with LD drills


PE-AR

Twist drill bit for steel rails with minimum tensile strength up to 1100 N/mm² (UIC 860.0).

All PEAR twist drill bits are designed for use with the SR5000 cooling system and will drill a wall thickness of up to 45 mm.



APED adapter,
to be ordered separately

| TiAlN COATED BITS | | ADAPTER |
|-------------------|---------|---|
| Ø mm | TYPE | TYPE |
| 13 | PE130AR | APEDW130 |
| 13,5 | PE135AR | APEDW135/165 |
| 17 | PE170AR | |
| 19 | PE190AR | DPE* |
| 21 | PE210AR |  |
| 24 | PE240AR | |
| 27,5 | PE275AR | |

*supplied with LD drills

VAL-P24

Plastic carrying case for rail drills. Accommodates the complete drill together with the clamping device and accessories.



FEATURES

| | |
|--------------------|------------------------|
| dimensions (LxWxH) | 754 x 458.5 x 484.5 mm |
| weight | 9.2 kg |

SR5000/CS-P24

Support for coolant unit **SR5000**.



VAL-P24-CS

Case with wheels and folding handle.



FEATURES

| | |
|--------------------|------------------------|
| dimensions (LxWxH) | 754 x 458.5 x 484.5 mm |
| weight | 9.2 kg |

VAL-LD

Metal case for holding both the drill fitted with the **DBG-F2** clamping device and the **DBSN** clamping device and the **VAL-MPA-E** accessory case.



FEATURES

| | |
|--------------------|--------------------|
| dimensions (LxWxH) | 595 x 345 x 467 mm |
|--------------------|--------------------|

VAL-LD-L

Metal case for holding the drill fitted with the **DBG-LF2** clamping device (for groove rails).



FEATURES

| | |
|--------------------|--------------------|
| dimensions (LxWxH) | 653 x 366 x 455 mm |
|--------------------|--------------------|

VAL-MPA

Suitable for storage of drilling templates, cutters and accessories



FEATURES

| | |
|--------------------|-------------------|
| dimensions (LxWxH) | 390 x 355 x 52 mm |
|--------------------|-------------------|

VASCO5000-3LT



Lubrocooler concentrate 3 litre.

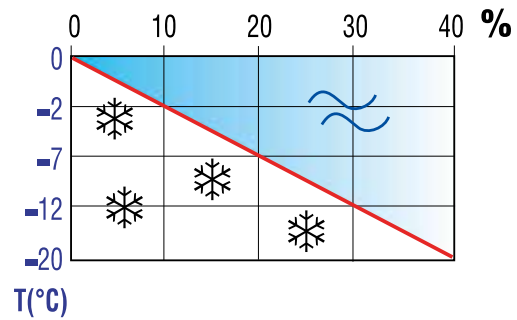
Biodegradable product of vegetable origin, to be watered down in the percentage 95% water, 5% oil, will provide a white colour mixture very effective for drilling operations with no heating of the rail or the drilling machine.

V11



Antifreeze concentrate 3 litres.

Added to the lubro cooling mixture with the right percentage will maintain the lubrocooling mixture fluid (see table) in negative temperature conditions.



MSC

Tool for collecting metallic swarf following drilling operations.



SK9038



Countersink conical flaring for unalloyed steels, with ergonomic handle in two component material.

- Ø max. 38 mm
- 90° head angle
- 6-edged head

THE ONLY AUTOMATIC CUTTING-OFF MACHINE IN THE WORLD!

ROBOKATTA® enables automatic rail cutting thanks to the **innovative oscillation system integrated in the arm**.


Once started, the cut-off machine moves autonomously until it switches off automatically at the end of the rail cut.

The electronic control system stops the machine in the event of an overload and notifies the operator to clean/replace the filters and drive belt.


The radio-controlled stopping device increases the **safety** of this cut-off machine .

With this product, CEMBRE confirms its focus on **risk reduction to protect rail maintenance workers**.


CEMBRE RDS cut-off machines are the only ones that accept both 350 mm and 400 mm abrasive cutting discs thanks to their innovative variable speed drive system.



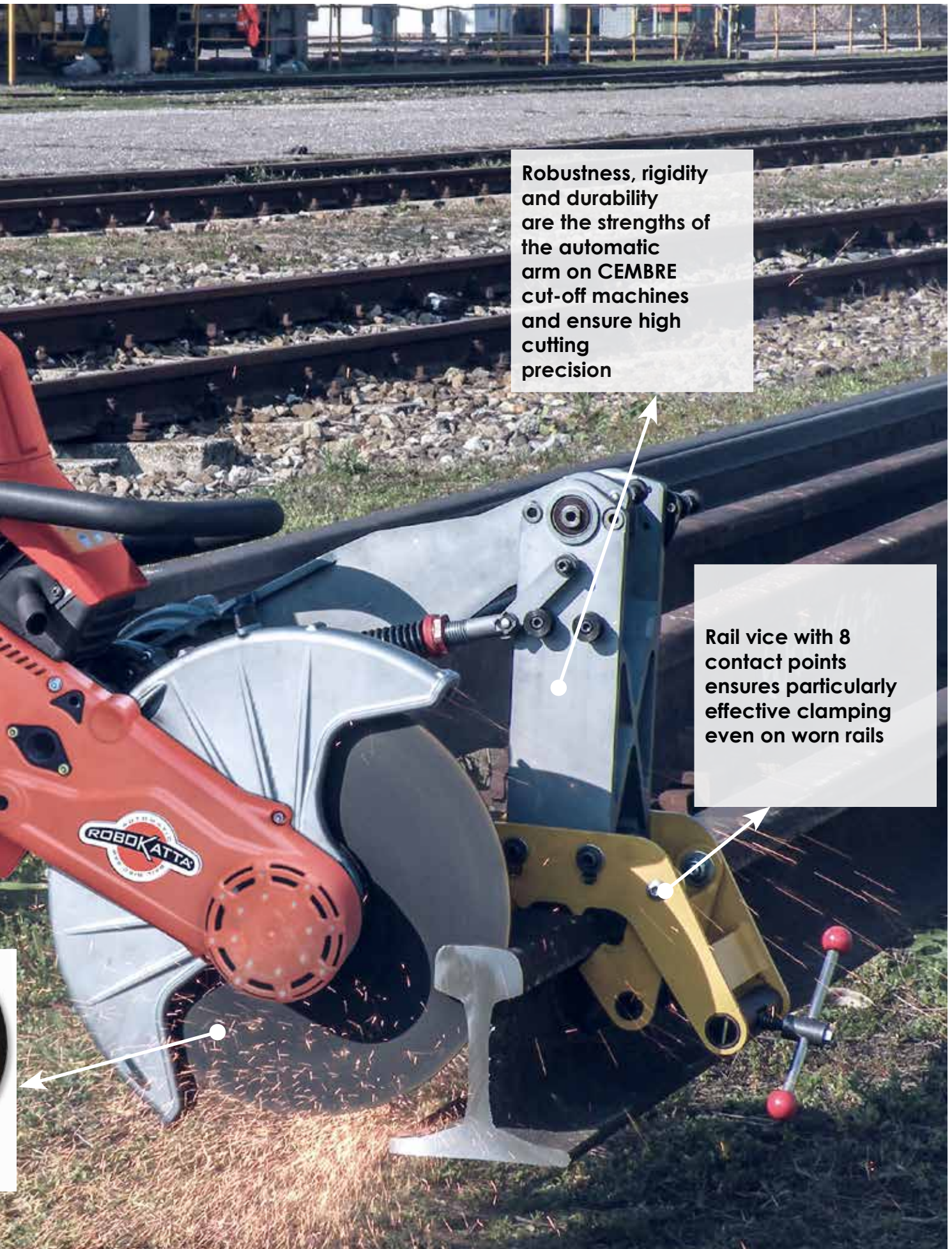
Dual air filtration system to limit the ingress of micro-dust and keep the engine running efficiently at all times



Speed control device that optimises disk performance for lower power consumption



Compatible with 350 mm and 400 mm high-performance discs with 1" and 7/8" centring



Robustness, rigidity and durability are the strengths of the automatic arm on CEMBRE cut-off machines and ensure high cutting precision

Rail vice with 8 contact points ensures particularly effective clamping even on worn rails

RDS-14PN-AA

- For VIGNOLE rails
- Equipped with an accelerator lock to enable automatic cutting
- Automatic remote shut-down by radio control at the end of the cut
- Variable speed drive and pulley for automatic speed setting during cutting to optimise cutting time and disc consumption
- Automatic arm with mechanical transmission for correct oscillation and load management on the rail
- Compatible with **SA-RDS** manual arm
- Available in the CUT-OFF version with automatic arm **RDSC-14PN-AA**

**FEATURES RDS-14PN**

| | |
|--------------------|----------------------------|
| cutting disc | Ø 350/400 mm |
| disc support shaft | Ø 25.4 mm |
| engine | |
| petrol HUSQVARNA | 2 cycles |
| tank capacity | 1.25 l |
| electronic start | 5 stage air filter |
| power supply | 7.9 HP (5,8 kW) / 8400 rpm |
| dimensions (LxWxH) | 790 x 280 x 460 mm |
| weight | 21.7 kg |

SALE SETUP

| | |
|----------------------------|-----------------|
| rail disc saw | RDS-14PN |
| automatic support arm | AA-RDS |
| 1x cutting disc (355 1") | CRDL4181 |
| auxiliary switching device | ✓ |
| accessories | ✓ |

see ACCESSORIES RDS

CASE ON REQUEST

| | |
|--|-------------------|
| robust wooden case for the rail saw | VAL-RDS |
| robust wooden case for the automatic arm | VAL-AA-RDS |

see CASES RDS

RDS-20PN-SA

- Can be used with 350 mm and 400 mm discs without the need for adjustment
- Robust and high temperature resistant drive belt
- Not compatible with automatic arms
- Available in the CUT-OFF version with manual arm **RDSC-20PN-SA**

**FEATURES RDS-20PN**

| | |
|--------------------|----------------------------|
| cutting disc | Ø 350/400 mm |
| disc support shaft | Ø 25.4 mm |
| engine | |
| petrol HUSQVARNA | 2 cycles |
| fuel tank capacity | 1.25 l |
| electronic start | 5 stage air filter |
| power supply | 7.9 HP (5,8 kW) / 9750 rpm |
| dimensions (LxWxH) | 790 x 280 x 460 mm |
| weight | 19.6 kg |

SALE SETUP

| | |
|--------------------------|-----------------|
| rail disc saw | RDS-20PN |
| automatic support arm | SA-RDS |
| 1x cutting disc (355 1") | CRDL4181 |

CASE ON REQUEST

| | |
|-------------------------------------|----------------|
| robust wooden case for the rail saw | VAL-RDS |
|-------------------------------------|----------------|

see CASES RDS



C-REX

C-REX

For ROBOKATTA® best performance use CEMBRE **C-REX** cutting discs. Fibreglass reinforced abrasive disc specifically designed for cutting all types of rail in railway applications.



| CENTERIGN SHAFT DIAMETER | Ø DISC | TYPE |
|--------------------------|--------------|----------|
| 25,4 mm (1") | 355 mm (14") | CRDL4381 |
| | 406 mm (16") | CRDL6401 |
| 22,2 mm (7/8") | 355 mm (14") | CRDL4387 |
| | 406 mm (16") | CRDL6407 |

Consult us for ROBOKATTA® version equipped with 22.2 mm (7/8") diameter disc support shaft

SA-RDS



Support arm for cutting rails in manual mode for VIGNOLES rails. Consisting of two strong and rigid aluminium connecting rods, it allows cutting precision and longevity. The vice is equipped with 8 points to allow firm clamping to the rail even when the rail head is worn. Support arm for cutting rails in manual mode



SAY1-RDS



Support arm for cutting rails in manual mode for GROOVE rails. Consisting of two strong and rigid aluminium connecting rods, it allows cutting precision and longevity. The vice is equipped with 8 points to allow firm clamping to the rail even when the rail head is worn. Support arm for cutting rails in manual mode



KY1-RDS



Replacement vice for **AA-RDS** and **SA-RDS** arms, suitable for fixing on groove rails.



SSR1

Stabiliser suitable for safely cutting short lengths of rail or stabilising the end of rails that are not supported during cutting.



VAL-RDS

Robust wooden case for storage of the CEMBRE rail saw **RDS-14PN** or **RDS-20PN**.

To facilitate transport and protect the rail saw, support arms **SA-RDS** or **SAY1-RDS** and accessories from accidental knocks and dirt.



| | |
|--------------------|------------------|
| dimensions (LxWxH) | 1.000x390x550 mm |
| weight | 12 kg |

VAL-AA-RDS

Robust wooden case for storage of the automatic arms **AA-RDS** or **AAY1-RDS**.



| | |
|--------------------|----------------|
| dimensions (LxWxH) | 910x434x428 mm |
| weight | 7.2 kg |

VERTICAL AND HORIZONTAL WORK



Dual accelerator for convenient use in both vertical and horizontal positions



Reverse gear with easy engagement

CEMBRE **NR** impact wrenches feature an ergonomic handle that balances the weight of the tool on the operator's arms, either horizontally or vertically.

The power generated by the motor is efficiently converted by the reduction gear to provide high torque to the ram.

Particularly suitable for all **railway applications requiring fast screwing/unscrewing** of mechanical parts, even those damaged by atmospheric agents.



Shock absorber bearings between handlebars and machine and between motor and machine



Rollbar for motor protection in case of accidental falls



Extremely compact oil-bath gearbox for efficiency and mechanical strength



High-inertia ram capable of releasing any mechanical grip

NR-25B



The CEMBRE **NR-25B** impact wrench expands the range of **battery-operated equipment for permanent way applications**, thus offering a valid alternative to petrol-driven machines.




An **extremely practical and eco-friendly choice**, specifically designed for railway applications.

It can be used both in portable mode and in combination with the **CS-EU** support trolley with the aid of the specific interface KIT.

The double charger allows you to charge both batteries at the same time in 120 minutes.

With **2700 Nm of torque** and **dual drive** for vertical and horizontal use, the NR-25B is the most powerful and versatile impact wrench in the industry.

The **IP44M rain proofing** and **vibration damping** system make it a safe solution that guarantees high performance.

| TYPE | |
|--|----------------|
|  PLUG EU | NR-25B |
|  PLUG UK | NR-25BE |
|  PLUG 230 | NR-25BA |

FEATURES

| | |
|--------------------------------|--------------------|
| maximum torque | 2700 Nm |
| power supply (brushless motor) | 36 V \equiv |
| dimensions (LxWxH) | 728 x 437 x 307 mm |
| weight with batteries | 21.1 kg |

SALE SETUP

| | |
|-------------------------------|---------------------|
| impact wrench | NR-25B |
| 2x 36V - 8 Ah batteries | CB3680L |
| battery charger | ASC145DUO-UE |
| 3x retaining springs 47-57 mm | CLIP-NR |
| retaining spring 57-67 mm | CLIP-NR57 |

ACCESSORIES ON REQUEST FOR CS-EU

| | |
|----------------------------------|------------------|
| interface kit for vertical use | KCS-NR25 |
| interface kit for horizontal use | KHOR-NR25 |

CASE ON REQUEST

| | |
|-----------------------------------|-------------------|
| metal for bolt tightening machine | VAL-NR-25B |
| plastic for bushing with mould | VAL-P20 |
| protective cover | 027-NR |

see CASES NR



NR-11P

Equipped with a powerful and easy-to-maintain 2-stroke motor. The shape of the tank makes the best use of space, ensuring a higher than standard capacity and, consequently, range. The accelerator is equipped with a safety system so that it can only be used if it is firmly gripped. The decompression valve allows the motor to be started easily. The ram unit is immersed in shock-absorbing grease which protects against impact wear, while the lip seal perfectly retains the grease inside the body. Equipped with 5-level power reducer.



SCREWING/UNSCREWING

FEATURES

| | | |
|------------------------------|--|--------------|
| engine | 2 cycles, forced-air cooled, single cylinder | |
| displacement | 55 cc | |
| fuel tank capacity | 1.2 l | |
| fuel mixture ratio | Synthetic oil 1:50 | |
| revolution (idle) | 2800 U/min ± 200 | |
| revolution (loaded, impact) | 7000 U/min | |
| revolution (non loaded, max) | 11500 U/min | |
| ignition | digital | |
| spark plug type | ACTIVE MR80 | |
| carburettor | diaphragm | |
| impact unit | square driver size | 25.4 mm (1") |
| | fastening torque range | 2500 Nm |
| mandrel speed | bolt Ø up to 33 mm | 1300 U/min |
| dimensions (LxWxH) | 640 x 431 x 274 mm | |
| weight | 19.2 kg | |

SALE SETUP

| | |
|-------------------------------|------------------|
| impact wrench | NR-11P |
| 3x retaining springs 47-57 mm | CLIP-NR |
| retaining spring 57-67 mm | CLIP-NR57 |
| accessories kit | ✓ |

ACCESSORIES ON REQUEST FOR CS-EU

| | |
|----------------------------------|----------------|
| interface kit for vertical use | KCS-NR |
| interface kit for horizontal use | KHOR-NR |

see CASES NR

CASE ON REQUEST

| | |
|-----------------------------------|----------------|
| metal for bolt tightening machine | VAL-NR |
| plastic for bushing with mould | VAL-P20 |
| protective cover | 027-NR |

see CASES NR

NR-13E

Equipped with electric motor. The accelerator is equipped with a safety system so that it can only be used if it is firmly gripped. A filter is mounted on the power cable to protect the machine and the operator from possible electrical shocks caused by disturbances in the mains to which it is connected.

The ram unit is immersed in shock-absorbing grease which protects against impact wear, while the lip seal perfectly retains the grease inside the body.

**FEATURES**

| | | |
|----------------|-----------------------|--|
| motor | single phase electric | |
| supply voltage | 220 ÷ 230 V / 50 Hz | |
| power rating | 3 kW | |

| | | |
|-------------|------------------------|--------------|
| impact unit | square driver size | 25,4 mm (1") |
| | fastening torque range | 2500 Nm |

| | | |
|--------------------|--------------------|--|
| dimensions (LxWxH) | 640 x 431 x 274 mm | |
| weight | 21 kg | |

SALE SETUP

| | |
|-------------------------------|------------------|
| impact wrench | NR-13E |
| 3x retaining springs 47-57 mm | CLIP-NR |
| retaining spring 57-67 mm | CLIP-NR57 |

ACCESSORIES ON REQUEST FOR CS-EU

| | |
|----------------------------------|------------------|
| interface kit for vertical use | KCS-NR25 |
| interface kit for horizontal use | KHOR-NR25 |

see ACCESSORIES NR

CASE ON REQUEST

| | |
|-----------------------------------|---------------|
| metal for bolt tightening machine | VAL-NR |
|-----------------------------------|---------------|

see CASES NR



SOCKETS

The sockets **W** for CEMBRE impact wrench are designed for typical applications in the railway sector. Thanks to the 1" interface, they are compatible with all commonly used portable impact wrench for rail maintenance.



SQUARE SOCKETS

| TYPE | DIMENSION mm |
|--------|------------------|
| W21X21 | 21 x 21 (20 UNI) |
| W24X24 | 24 x 24 (22 UNI) |
| W26X26 | 26 x 26 |



RECTANGULAR SOCKETS

| TYPE | DIMENSION mm |
|---------|---|
| W21X28 | 21 x 28 (24 UNI) |
| WR21X28 | 21 x 28 (24 UNI) with reduced external diameter |



HEXAGONAL SOCKETS

| TYPE | DIMENSION mm |
|------|--------------|
| W32 | 32 |
| W36 | 36 |
| W46 | 46 |
| WL38 | 38 long |
| WL39 | 39 long |
| WL41 | 41 long |
| WL44 | 44 long |

EXTENSION

| TYPE | DIMENSION mm |
|-------|--------------|
| XT100 | 100 mm |

JOINT

| TYPE | DIMENSION mm |
|------|--------------|
| SJ1" | 1" |



RETAINING SPRINGS

| TYPE | DIMENSION mm |
|-----------|---------------------------|
| CLIP-NR | retaining spring 47-57 mm |
| CLIP-NR57 | retaining spring 57-67 mm |

KCS-NR

KCS-NR interface kit for **vertical** use of the impact wrenches **NR-11P & NR-13E** with support trolley **CS-EU**.



KCS-NR25

KCS-NR25 interface kit for **vertical** use of the battery impact wrench **NR-25B** with support trolley **CS-EU**.



KHOR-NR

KCS-NR interface kit for **horizontal** use of the impact wrenches **NR-11P & NR-13E** with support trolley **CS-EU**.



KHOR-NR25

KCS-NR25 interface kit for **horizontal** use of the battery impact wrench **NR-25B** with support trolley **CS-EU**.



VAL-NR

Metal case for storage of the impact wrenches **NR-11P & NR-13E** and **VAL-P20** accessories box.

**VAL-NR-25B**

Metal case for storage of the battery impact wrench **NR-25B** and **VAL-P20** accessories box.

**VAL-P20**

Plastic box for storage of sockets and accessories.

**027-NR**

Protection cover for impact wrench.



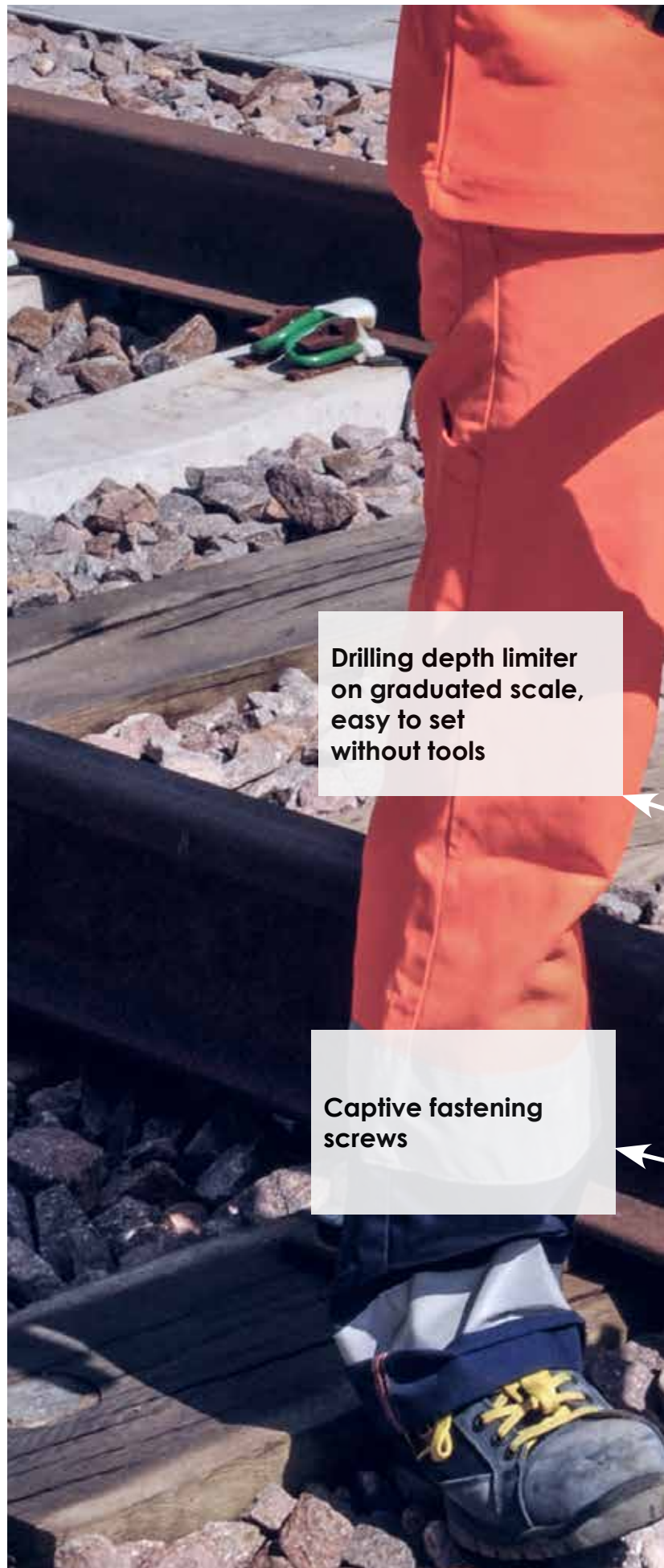
SLEEPER DRILL

CEMBRE **SD** sleeper drills feature an ergonomic and balanced handle, which ensures a firm, yet comfortable and balanced grip during use and transport.

The quick bit release allows the operator to instantly disconnect the tool from the sleeper in an emergency.

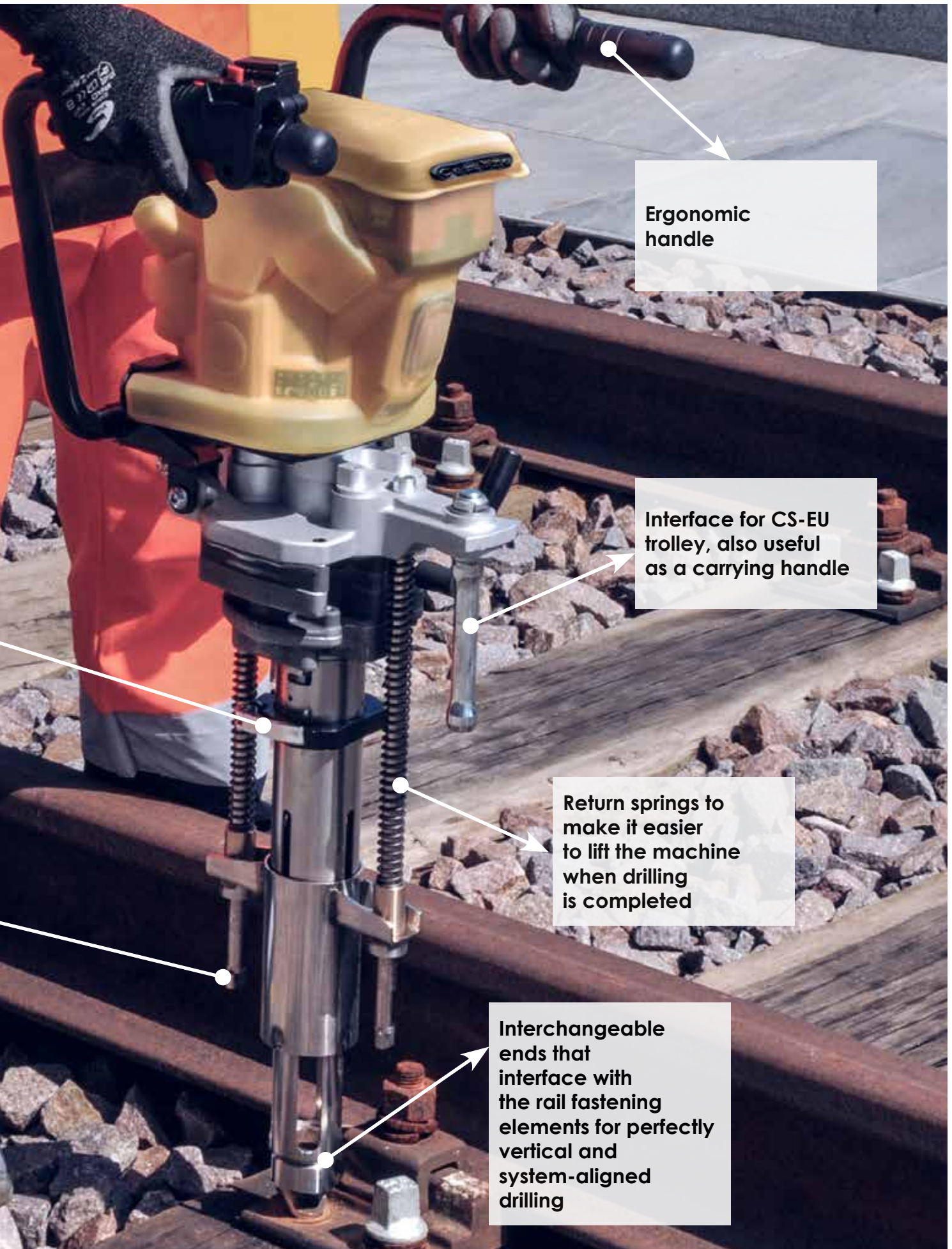
The bit is fully protected, providing maximum safety for the operator.

SD sleeper drills are suitable for even intensive drilling of various wood materials, such as spruce and tropical woods, commonly used in the railway industry.



Drilling depth limiter on graduated scale, easy to set without tools

Captive fastening screws



Ergonomic handle

Interface for CS-EU trolley, also useful as a carrying handle

Return springs to make it easier to lift the machine when drilling is completed

Interchangeable ends that interface with the rail fastening elements for perfectly vertical and system-aligned drilling

SD-19BR-RP





Designed to have the best power-to-weight ratio when drilling wooden sleepers, the **SD-19BR-RP** has a low acoustic impact, low vibration level and, above all, no harmful gas emissions, making it ideal for working in closed environments (tunnels, under-ground lines, ...) and for night work.

The electronic reverse function makes it easy to release the bit if it should accidentally become jammed during drilling.

Electronic power control prevents overloads, optimises consumption and preserves the battery by extending its life. The battery is compatible with the **LD-16B-RP** drill and the **B70M-P36** pump.

- 100 holes with one battery
- Electronic reverse function
- 60 minutes to fully charge the battery
- Brushless motor
- 2 batteries supplied
- Ingress Protection IP44
- CEMBRE 36V system
- Compatible with **CS-EU** trolley



| TYPE | |
|---|-------------|
|  | SD-19BR-RP |
|  | SD-19BR-RPE |
|  | SD-19BR-RPA |
|  | SD-19BR-RPT |



FEATURES

| | |
|-------------------------------------|--------------------|
| max drilling range | 200 mm |
| rated no load speed n_0 (spindle) | 700 rpm |
| brushless electric motor | 36 V = |
| dimensions (LxWxH) | 412 x 320 x 935 mm |
| weight | 17.4 kg |

SALE SETUP

| | |
|--------------------------|-------------------|
| sleeper drilling machine | SD-19BR-RP |
| 2x 36V - 6.2Ah batteries | CB3662L |
| battery charger | ASC145-EU |
| mobile guard | PRM-UN |
| guard nozzle | TPM200-26N |
| canvas bag | CVB-032 |

ACCESSORIES & CASE ON REQUEST

| | |
|------------------|---------------|
| spindle | MND1 |
| metal case | VAL-SD |
| protection cover | 026-SD |



SD-9P-ECO

Equipped with a KAWASAKI TJ045 2-stroke motor, **SD-9P-ECO**.

- Easy-start KAWASAKI TJ045 2-stroke motor
- Compatible with **CS-EU** trolley



| FEATURES | |
|-------------------------------------|------------------------------------|
| max drilling range | 200 mm |
| rated no load speed n_0 (spindle) | 700 rpm |
| displacement | 45.4 cc |
| power | 1.4 kW |
| fuel | 2% mixture (1:50) |
| starting | rope pull with automatic rewind |
| dimensions (LxWxH) | 413,5 x 316 x 892 mm |
| weight | 19.1 kg |

| SALE SETUP | |
|--------------------------|-------------------|
| sleeper drilling machine | SD-9P-ECO |
| mobile guard | PRM-UN |
| guard nozzle | TPM200-26N |
| accessories kit | ✓ |

| ACCESSORIES & CASE ON REQUEST | |
|-------------------------------|---------------|
| spindle | MND1 |
| metal case | VAL-SD |
| protection cover | 026-SD |



SD-15PR-ECO

The KAWASAKI TJ053 2-stroke motor on the **SD-15PR-ECO** drill offers great power, making it suitable for use in heavy-duty applications such as drilling tropical woods or composite sleepers.

The reverse rotation function makes it easy to release the bit if it should accidentally become jammed during drilling.

- Easy-start KAWASAKI TJ053 2-stroke motor
- Mechanical reverse function
- Compatible with **CS-EU** trolley

**FEATURES**

| | |
|-------------------------------------|------------------------------------|
| max drilling range | 200 mm |
| rated no load speed n_0 (spindle) | 700 rpm |
| displacement | 53.2 cc |
| power | 2 kW |
| fuel | 2% mixture (1:50) |
| starting | rope pull with automatic rewind |
| forward/reverse selector | enables easy |
| dimensions (LxWxH) | 413.5 x 316 x 892 mm |
| weight | 19.1 kg |

SALE SETUP

| | |
|--------------------------|--------------------|
| sleeper drilling machine | SD-15PR-ECO |
| mobile guard | PRM-UN |
| guard nozzle | TPM200-26N |
| accessories kit | ✓ |

ACCESSORIES & CASE ON REQUEST

| | |
|------------------|---------------|
| spindle | MND1 |
| metal case | VAL-SD |
| protection cover | 026-SD |



DRILL BITS



PV drill bits are designed to achieve high performance in combination with the CEMBRE sleeper drill.

The sharpness of the cutting edge and the shape of the threaded lead nut ensure efficiency and range for the machines and encourage the drill to advance during drilling.

| Ø mm | TYPE |
|------|--------------|
| 10 | PV100 |
| 13 | PV130 |
| 14 | PV140 |
| 16 | PV160 |
| 17 | PV170 |
| 18 | PV180 |
| 19 | PV190 |
| 20 | PV200 |
| 21 | PV210 |
| 22 | PV220 |
| 25 | PV250 |
| 28 | PV280 |

MND1



Optional chuck with quick coupling and automatic drill bit locking.

Interchangeable with the standard **MND** chuck, it is suited to fit DIS. FS 7874 bits, with coupling shank Ø16 mm and length 325 mm according to: CAT. 744 / PROG. 490 - 491 - 492 - 493

PRM-UN

Compatible with CEMBRE sleeper drills engine and battery powered



PRM-U/TPM-N

Adaptor suitable to use new TPM-N on PRM-U previous version.



TPMN

Ends compatible with SD sleeper drills equipped with standard PRM-UN protection. The left-handed thread prevents unscrewing of the end cap during use and transport.



| TYPE | DRILL BIT Ø mm | HOLE PLATE Ø mm |
|--------------|----------------|-----------------|
| TPM100-18N | 10 | 18 |
| TPM170-24N | 17 | 24 |
| TPM190-24N | 19 | 24 |
| TPM190-26N | 19 | 26 |
| TPM200-26N | 20 | 26 |
| TPM200-26LN* | 20 | 26 |
| TPM220-26N | 22 | 26 |
| TPM250-31N | 25 | 31 |
| TPM280-34N | 28 | 34 |

* long type

VAL-P6

Plastic case (214 x 382 mm) for storing the drill bits and standard accessories supplied with the machine.
This case can be stored inside the drilling machine case **VAL-SD**.



026-SD

Protection cover for sleeper drilling machine.



CS-EU



Designed to provide maximum support for operators when drilling sleepers and/or tightening or loosening mechanical elements such as tree-nails or bolts.

The **CS-EU** trolley enables the safe support of **NR** impact wrenches and **SD** sleeper drills during use or transport.

The insulated wheels do not interfere with the track circuits while their shape allows the trolley to run on turnouts and switches without hindrance.

The adjustable gas spring allows very precise adjustment of the support arm.

Lightweight, can be dismantled into 4 pieces, easily transportable and suitable for moving other equipment on the **PSCS-EU** support surface.

- Self-braking wheels
- Equipped with braked wheels
- Adjustable gas spring
- 360° rotating arm
- Can be dismantled into 4 pieces



FEATURES

dimensions

| | |
|----------------|---------|
| length | 1561 mm |
| minimum height | 568 mm |
| maximum height | 900 mm |

weight

| | |
|--------------------------------|--------|
| without counterweight carriage | 18 kg |
| of counterweight carriage | 8.5 kg |
| bar | 3.5 kg |



FLANGED WHEEL

allowing the trolley to operate on level crossing.



BALANCING CARRIAGE

with two dedicated housing:

- for impact wrench sockets and drill bits of the sleeper drilling machine
- to counterbalance any extensions

KLE

Extensions allow the impact wrench or sleeper drilling machine to be used in areas further away from the rail-mounted trolley. Extensions must be used with **KPC-CS1** counterweight on balancing carriage to maintain stability and operator safety.

**EXTENSIONS**

| | |
|-----------------|----------------|
| KLE6-CS | length 15 cm |
| KLE32-CS | length 32 cm |
| KLE43-CS | length 58.5 cm |

PSCS-EU

support base

**KPC-CS1**

Weights kit. is positioned on the counterweight carriage to balance the weight of drills or impact wrench mounted on the support trolley (we recommend the use of these when the extensions are mounted).







RHTD270



Hydraulic nut cutting head for cutting hexagonal nuts from 16 mm to 27 mm; equipped with a quick coupling for connection to a pump with 700 bar operating pressure. The head is very useful in Electric Traction re-placement work as it can be easily used on the following contact line parts:

- normal I 621 isolator bracket for load-bearing cables
- attachments for registration arms to the bracket
- attachment of the bracket to the pole
- attachment of the tie rod to the bracket
- u-bolt clamps for track ropes and shaped wire

| APPLICATION RANGE OF TOOLS TYPE RHTD & B-TD | | | | |
|---|---|---|---|---|
| TOOLS | HEXAGONAL NUTS | | SQUARE NUTS | |
| |  |  |  |  |
| RHTD270 B-TD270 | 16 | M 10 | 17 | M 10 |
| | 17 | M 10 | 19 | M 12 |
| | 18 | M 12 | 22 | M 14 |
| | 19 | M 12 | 24 | M 16 |
| | 21 | M 14 | 27 | M 18 |
| | 22 | M 14 | | |
| | 24 | M 16 | | |
| | 27 | M 18 | 27 | M 18 |

FEATURES

| | |
|--------------------------|-------------|
| hexagonal splitting nuts | 16 mm (M10) |
| to | 27 mm (M18) |
| working pressure | 700 bar |
| weight | 1,76 kg |

SALE SETUP

| | |
|--------------|----------------|
| head | RHTD270 |
| plastic case | VAL-P4 |

RHTD410T







Hydraulic nut cutting head for cutting hexagonal nuts from 27 mm to 41 mm; equipped with a quick coupling for connection to a pump with 700 bar operating pressure. The head is particularly useful in track maintenance work as it can release severely oxidised fasteners on 'K' rail couplings in a single operation and in a matter of seconds.

FEATURES

| | |
|--------------------------|-------------|
| hexagonal splitting nuts | 27 mm (M10) |
| to | 41 mm (M18) |
| working pressure | 700 bar |
| weight | 4.9 kg |

SALE SETUP





| | |
|--------------|-----------------|
| head | RHTD410T |
| plastic case | VAL-P4 |

| APPLICATION RANGE OF TOOLS TYPE RHTD & B-TD | | | | |
|---|--|---|---|---|
| TOOLS | HEXAGONAL NUTS | | SQUARE NUTS | |
| |  |  |  |  |
| RHTD410T B-TD410T | 27 | M 18 | 27 | M 18 |
| | 30 | M 20 | 30 | M 20 |
| | 32 | M 22 | 32 | M 22 |
| | 34 | M 22 | 34 | M 24 |
| | 36 | M 24 | 36 | M 27 |
| | 41 | M 27 | | |

B-TD270

Battery-powered hydraulic tool, suitable for cutting hexagonal nuts from 16 mm to 27 mm.



| TYPE | |
|--|-----------------|
|  PLUG EU | B-TD270 |
|  PLUG UK | B-TD270E |
|  PLUG 230 | B-TD270A |
|  PLUG 230 | B-TD270T |

FEATURES

| | |
|--------------------------|----------------|
| hexagonal splitting nuts | 16 mm (M10) |
| | to 27 mm (M18) |
| working pressure | 700 bar |
| weight | 5,5 kg |





SALE SETUP

| | |
|-----------------|-----------------|
| tool | B-TD270 |
| batteries x2 | CB1852L |
| battery charger | ASC55-EU |
| shoulder strap | ✓ |
| canvas bag | CVB-030 |

B-TD410T

Battery-powered hydraulic tool, suitable for cutting hexagonal nuts from 27 mm to 41 mm.



| TYPE | |
|--|-------------------|
|  PLUG EU | B-TD410T |
|  PLUG UK | B-TD410TE |
|  PLUG 230 | B-TD410TA |
|  PLUG 230 | B-TD410T-T |

FEATURES

| | |
|--------------------------|----------------|
| hexagonal splitting nuts | 27 mm (M18) |
| | to 41 mm (M27) |
| working pressure | 700 bar |
| weight | 8,8 kg |

SALE SETUP

| | |
|-----------------|-----------------|
| tool | B-TD410T |
| batteries x2 | CB1852L |
| battery charger | ASC55-EU |
| shoulder strap | ✓ |
| canvas bag | CVB-030 |



PCM-2P

The **PCM-2P** machine allows the easy insertion or removal of two **Pandrol E-CLIP*** clips simultaneously, thanks to the powerful Honda 4-stroke motor that feeds the hydraulic pump. The machine consists of four components that can be easily assembled without tools and is therefore always ready for use.

Consists of:

- pump unit
- clamp unit
- trolley
- balancing rod

Only the operator, by means of the mechanical control, can operate the machine cycle, thus guaranteeing completely controlled and safe work during all operational phases.

Thanks to the hydraulic system that can be split and shared between versions, the machine is also compatible with the Pandrol E-CLIP* clip removal clamp unit.

- Can be put together without tools
- Intuitive and quick adjustments
- HONDA GX200 4-stroke motor



FEATURES

| | |
|----------------------------------|--|
| application range | suitable for insertion/extraction of the PANDROL E-CLIP* on standard gauge sleepers (1435 mm) |
| developed force (single clamp) | 29.000 N |
| engine HONDA GX200 UT-SMCR OH | 4 cycles, overhead valve, single cylinder |
| displacement | 196 cm ³ |
| power | 4.3 kW |
| fuel | unleaded regular grade petrol |
| dimensions (LxWxH) | 1400 x 850 x 1900 mm |
| weight complete machine | 123 kg |
| weight pump unit | 55 kg |
| weight clamp unit | 48 kg |
| weight carriage | 15 kg |
| weight 3 rd wheel bar | 5 kg |

SALE SETUP

| | |
|-----------------|---------------|
| machine | PCM-2P |
| accessories kit | ✓ |

ON REQUEST

| | |
|------------------|----------------|
| protective cover | 019-PCM |
| manometer | MPC6 |

*Pandrol E-CLIP is a trademark of Pandrol

insertion



extraction

PCM-2P/FC

The **PCM-2P/FC** machine allows the easy insertion or removal of two **Pandrol FASTCLIP*** clips simultaneously, thanks to the powerful Honda 4-stroke motor that feeds the hydraulic pump. The machine consists of four components that can be easily assembled without tools and is therefore always ready to use.

Consists of:

- pump unit
- clamp unit
- trolley
- balancing rod



Only the operator, by means of the mechanical control, can operate the machine cycle, thus guaranteeing completely controlled and safe work during all operational phases.

Thanks to the hydraulic system that can be split and shared between versions, the machine is also compatible with the Pandrol FASTCLIP* clip removal clamp unit.

- Can be put together without tools
- Intuitive and quick adjustments
- HONDA GX200 4-stroke motor

FEATURES

| | |
|----------------------------------|--|
| application range | suitable for insertion/extraction of the PANDROL FASTCLIP* on standard gauge sleepers (1435 mm) |
| developed force (single clamp) | 29.000 N |
| engine HONDA GX200 UT-SMCR OH | 4 cycles, overhead valve, single cylinder |
| displacement | 196 cm ³ |
| power | 4,3 kW |
| fuel | unleaded regular grade petrol |
| dimensions (LxWxH) | 1470 x 875 x 2000 mm |
| weight complete machine | 140 kg |
| weight pump unit | 55 kg |
| weight clamp unit | 65 kg |
| weight carriage | 15 kg |
| weight 3 rd wheel bar | 5 kg |

SALE SETUP

| | |
|-----------------|------------------|
| machine | PCM-2P/FC |
| accessories kit | ✓ |

ON REQUEST

| | |
|------------------|----------------|
| protective cover | 019-PCM |
| manometer | MPC6 |

*Pandrol FASTCLIP is a trademark of Pandrol

insertion



extraction

CBL02-W



Head torch ideal for any indoor or outdoor activity requiring localised lighting and freedom of action, the **CBL02-W** head torch is equipped with a touch sensor allowing operation even whilst wearing gloves. The light intensity can be modulated via the dimmer function helping to preserve battery life. The **CBL02-W** is a versatile head torch adjustable by means of an elastic band to fit work helmets of various sizes. Supplied with USB charging cable and charger.

FEATURES

| type | lumen Front / Flashlight | duration Front / Flashlight | energy class | magnetic support | charging method | degree of protection | operating temperature range | body material | lamp material | dimensions (LxWxH) mm | weight gr |
|----------------|--------------------------|-----------------------------|--------------|------------------|-----------------|----------------------|-----------------------------|---------------|---------------|-----------------------|-----------|
| CBL02-W | 400/80 | 3/5 h | A++ | No | USB/Wirless | IP54 | -10/+40°C | ABS+PC | PC | 78x39x36 | 105 |

CBL07



Portable spotlight for large work environments. The diffused light emitted by the CBL07 spotlight enables the illumination of large areas. Light, practical and sturdy, this spotlight is quick to install. The power bank function allows small devices to be charged via the USB output, useful for emergency situations. Supplied with charger.

FEATURES

| type | lumen Front / Flashlight | duration Front / Flashlight | energy class | magnetic support | charging method | degree of protection | operating temperature range | body material | lamp material | dimensions (LxWxH) mm | weight gr |
|--------------|--------------------------|-----------------------------|--------------|------------------|-----------------|----------------------|-----------------------------|---------------|---------------|-----------------------|-----------|
| CBL07 | 3000/1500 | 3/6 h | A+ | No | power plug | IP65 | -10/+40°C | ABS | PC | 277x213x86 | 1400 |

FOR OTHER TYPES AND SIZES OF LAMPS ASK CEMBRE FOR THE COMPLETE CATALOGUE

OVERHEAD CATENARY SOLUTIONS



FTGW

The innovative connector is unique in that it allows a new contact wire to be attached and, at the same time, joined to a worn one.

This is possible thanks to the specific profile of the connector, which avoids the time-consuming and difficult manual operation of tapering the new wire, providing the train pantograph with a uniform and seamless running area. The use of these connectors also minimises working times.

In addition to laboratory tests, operational trials have shown that the connector made with **FTGW** performs well both on lines up to 180 km/h and on lines at lower speeds with high current draw (lines on slopes).



| TYPE | TORQUE RATIO | GROOVED CONTACT WIRE | | | |
|----------------|--------------|-------------------------|---------------------|---------------------|---------------|
| | | SECTION mm ² | Ø mm | REFERENCE STANDARD | MATERIAL |
| FTGW100 | 65 Nm | 100 | 12 | EN50149 type AC-100 | Cu |
| FTGW120 | | 120 | 12.9 | UNEL 70611-71 | Cu |
| | | | 13.2 | EN50149 type AC-120 | Cu - CuAg 0.1 |
| FTGW150 | 150 | 14.5 | EN50149 type BC-150 | Cu | |




B500-TFC



The **B500-TFC** is a cordless tool that can be operated with one hand. Suitable for cutting profiled contact wires, on electrified traction systems.

The tool in combination with **MFC** series cutting dies ensures a perfectly perpendicular wire cut without deforming the profile, allowing for correct and easy installation of full traction connectors.

- balanced tool for greater control
- Head rotates 180° for ease of operation in confined spaces.
- Fitted with a maximum pressure valve.
- Automatic return of dies after completion of the cut.
- Automatic return can be stopped at any time to ease positioning.
- Extremely quiet, minimal vibration.
- Durable moulded body offering high resistance to wear and damage in all operating conditions.
- New Li-Ion 18V 2Ah High Power battery.
- The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.
- Supplied in a robust plastic case to accommodate the tool and all the accessories.
- Operating temperature: -15 to +50°C

| TYPE | |
|--|------------------|
|  PLUG EU | B500-TFC |
|  PLUG UK | B500-TFCE |
|  PLUG USA | B500-TFCA |

FEATURES

| | |
|-------------------------------|-------------------|
| dimensions (LxWxH) | 298 x 93 X 382 mm |
| width (locking handle closed) | 382 mm |
| width (locking handle open) | 93 mm |
| weight | 5 kg |

SALE SETUP

| | |
|-----------------|-----------------|
| tool | B500-TFC |
| batteries x2 | CB1852L |
| battery charger | ASC55-EU |
| USBCable | ✓ |
| should strap | ✓ |
| plastic case | VAL-TFC |

FOR THE CORRECT CHOICE OF CUTTING DIES TO USE, SEE PAGE 77

HT-TFC

Two-speed manually operated hydraulic tool suitable for cutting shaped wires for overhead contact lines.

The tool in combination with **MFC** series cutting dies ensures a perfectly perpendicular wire cut without deforming the profile, allowing for correct and easy installation of full traction connectors.



FEATURES

| | |
|-------------------------------|--------|
| dimensions | |
| length | 373 mm |
| width (locking handle closed) | 159 mm |
| width (locking handle open) | 257 mm |
| weight | 3,6 kg |

SALE SETUP

| | |
|--------------|----------------|
| tool | HT-TFC |
| plastic case | VAL-P17 |

RH-TFC



Hydraulic contact wire cutting head suitable for cutting shaped wires for overhead contact lines.

The head in combination with **MFC** series cutting dies ensures a perfectly perpendicular wire cut without deforming the profile, allowing for correct and easy installation of full traction connectors.

To operate it, it must be combined with a 700 bar hydraulic pump.

FEATURES

| | |
|-------------------------------|---------|
| operating pressure | 700 bar |
| dimensions | |
| length | 196 mm |
| width (locking handle closed) | 159 mm |
| width (locking handle open) | 257 mm |
| weight | 3,1 kg |

SALE SETUP

| | |
|--------------|----------------|
| head | RH-TFC |
| plastic case | VAL-P15 |

FOR THE CORRECT CHOICE OF CUTTING DIES TO USE, SEE PAGE 77

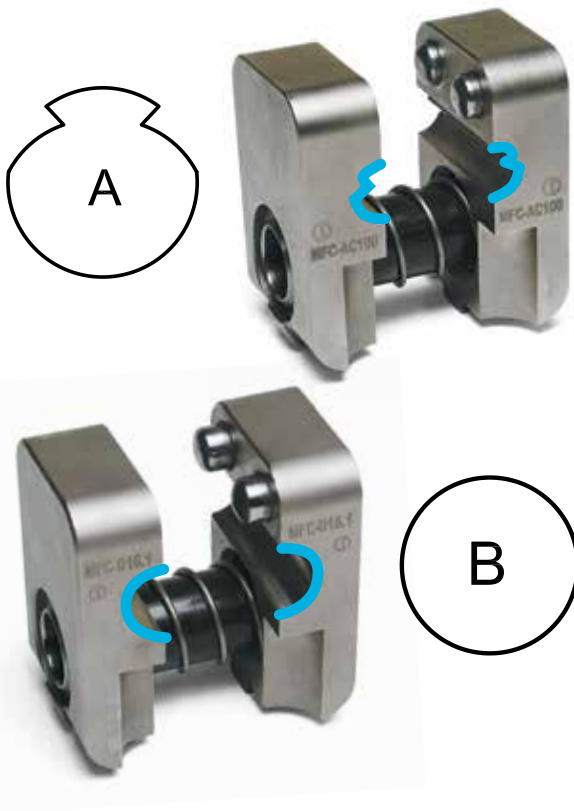
MFC

A wide range of dies is available to cut most profiled contact wires or stranded conductors. In combination with the TFC series of tools, these cutting dies ensure a perfectly perpendicular wire cut without deforming the profile, allowing for correct and easy installation of full traction connectors.

Contact wire cut with a traditional cutter



Contact wire cut with the CEMBRE hydraulic tools



| PROFILE | TYPE | CONTACT WIRE TYPE |
|---------|-------------------|----------------------------------|
| A | MFC-AC80 | AC80-EN50149 |
| A | MFC-AC100 | AC100-EN50149 |
| A | MFC-AC107 | AC107-EN50149 |
| A | MFC-AC120 | AC120-EN50149 |
| A | MFC-BC107 | BC107-EN50149 |
| A | MFC-BC120 | BC120-EN50149 |
| A | MFC-BC150 | BC150-EN50149 |
| A | MFC-BF100 | BF100-EN50149 |
| A | MFC-BF107 | BF107-EN50149 |
| A | MFC-BF120 | BF120-EN50149 |
| A | MFC-BF150 | BF150-EN50149 |
| A | MFC-137BS | 137-BS23 |
| A | MFC-161BS | 161-BS23 |
| A | MFC-193BS | 193-BS23 |
| A | MFC-FD100 | FD100-OBB |
| A | MFC-FD120 | FD120-OBB |
| A | MFC-100RUS | 100 mm ² GOST R 55647 |
| B | MFC-D7.5-S | Cu/Steel conductor |
| B | MFC-D10.8 | Cu or Al Round rod Ø 10.8 mm |
| B | MFC-D14.5 | Cu or Al Round rod Ø 14.5 mm |
| B | MFC-D16.1 | Cu or Al Round rod Ø 16.1 mm |



AD-GW

The **AD-GW** device speeds up Electric Traction technicians' in-line work when applying full traction connectors to the contact wire (wire joint clamps) and eliminates the "snags" associated with this type of work.

It is supplied complete with the **HC-GW** device for adjusting grooved contact wire.



SALE SETUP

| | |
|------------------|--------------|
| device | AD-GW |
| adjusting device | HC-GW |



MSGW

The mechanical straightening device for profiled contact wires allows the easy and continuous straightening of the most common sizes of wires for example: 100 - 120 - 150 mm².



FEATURES

| | |
|--------------------|--------------------|
| dimensions (LxWxH) | 431 x 234 x 290 mm |
| weight | 6.8 kg |

ON REQUEST

| | |
|----------------------------|----------------|
| bracket for fixing to pole | KA-MSGW |
|----------------------------|----------------|

MSGW-3D

Straightening die sets to be used with **ECW-H3D** hydraulic head. By a combination of the calibrated profile of these dies and the high compression force of the press head, good results in correcting localised misshaping of the wire may be obtained, with only one operation. The head can be connected to a hydraulic pump with a working pressure of 700 bar max.



| TYPE | CONDUCTOR SIZE mm ² |
|-------------------------|--------------------------------|
| MSGW-100-3D | 100 |
| MSGW-120-3D | 120 |
| MSGW-BC150-3D | 150 |
| MSGW-110CN4/0-3D | 110 - 4/0 AWG |
| MSGW-2/0AWG-3D | 2/0 AWG |
| MSGW-335MCM-3D | 335 MCM |



N/1

N/1

ELECTRICAL CONNECTORS AND CABLE GLANDS

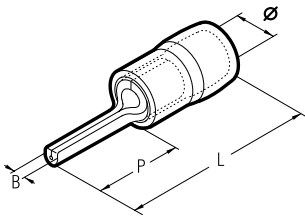


RKY BKY GKY

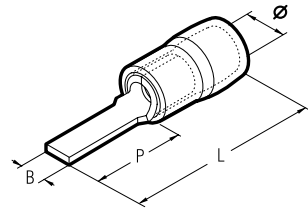


'KY' type terminals are designed to offer improved mechanical and electrical integrity under heavy-duty application. This is achieved via a Copper sleeve located between the Copper barrel and Polyamide insulation of the terminal. Then, during crimping, the insulation of the conductor is integrated around the crimp due to the Copper sleeve being deformed around it to maintain the level of 'grip' required in applications subject to continuous mechanical vibrations (e.g: mobile plant, vehicles, moving components). The operating temperature range is - 20 to + 105°C (Surge + 110°C).

pin terminals



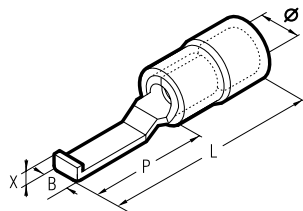
blade terminals



| Conductor Size sqmm (AWG) | Type | Dimensions mm | | | | Quantity Box/Bag |
|---------------------------|---------|---------------|-----|------|------|------------------|
| | | Ø | B | P | L | |
| 0,25÷1,5 (22÷16) | RKY-P8 | 4,5 | 1,9 | 9,0 | 19,8 | 3.000/100 |
| | RKY-P10 | 4,5 | 1,9 | 10,0 | 20,8 | 3.500/100 |
| | RKY-P12 | 4,5 | 1,9 | 12,0 | 22,8 | 3.000/100 |
| 1,5÷2,5 (16÷14) | BKY-P8 | 5,2 | 1,9 | 9,0 | 19,8 | 3.000/100 |
| | BKY-P10 | 5,2 | 1,9 | 10,0 | 20,8 | 3.000/100 |
| | BKY-P12 | 5,2 | 1,9 | 12,0 | 22,8 | 3.000/100 |
| 4÷6 (12÷10) | GKY-P14 | 7,0 | 2,8 | 14,0 | 27,0 | 1.000/100 |

| Conductor Size sqmm (AWG) | Type | Dimensions mm | | | | Quantity Box/Bag |
|---------------------------|-------------|---------------|-----|------|------|------------------|
| | | Ø | B | P | L | |
| 0,25÷1,5 (22÷16) | RKY-PP12 | 4,5 | 3,0 | 13,0 | 23,8 | 3.000/100 |
| | RKY-PP12/19 | 4,5 | 2,0 | 18,0 | 28,8 | 3.000/100 |
| | RKY-PP16/23 | 4,5 | 2,2 | 18,0 | 28,8 | 2.500/100 |
| 1,5÷2,5 (16÷14) | BKY-PP12 | 5,2 | 3,0 | 13,0 | 23,8 | 2.500/100 |
| | BKY-PP12/25 | 5,2 | 2,4 | 13,0 | 23,8 | 2.000/100 |
| | BKY-PP16/23 | 5,2 | 2,2 | 18,0 | 28,8 | 2.500/100 |
| 4÷6 (12÷10) | GKY-PP12 | 7,0 | 4,0 | 14,0 | 27,0 | 1.000/100 |
| | GKY-PP17 | 7,0 | 2,0 | 18,0 | 31,0 | 1.000/100 |

hooked blade terminals

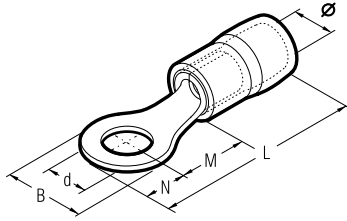


| Conductor Size sqmm (AWG) | Type | Dimensions mm | | | | | Quantity Box/Bag |
|---------------------------|-----------|---------------|-----|------|------|-----|------------------|
| | | Ø | B | P | L | X | |
| 0,25÷1,5 (22÷16) | RKY-PPL30 | 4,5 | 3,0 | 16,8 | 28,2 | 2,1 | 3.000/100 |
| | RKY-PPL46 | 4,5 | 4,6 | 16,8 | 28,2 | 2,1 | 3.000/100 |
| 1,5÷2,5 (16÷14) | BKY-PPL30 | 5,2 | 3,0 | 16,8 | 28,2 | 2,1 | 2.500/100 |
| | BKY-PPL46 | 5,2 | 4,6 | 16,8 | 28,2 | 2,1 | 2.500/100 |
| 4÷6 (12÷10) | GKY-PPL46 | 7,0 | 4,6 | 17,2 | 30,2 | 2,4 | 1.000/100 |

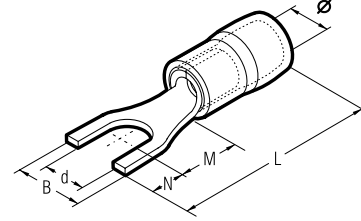
Consult CEMBRE for a wider range of pin and blade dimensions.



ring terminals



fork/spade terminals



| Cond. Size sqmm (AWG) | Ø Stud mm | Type | Dimensions mm | | | | | | Quantity Box/Bag | | |
|-----------------------|-----------|-----------------|---------------|----------------|------|------|---------|------|------------------|-----|-----------|
| | | | Ø | B | M | N | L | d | | | |
| 0,25÷1,5 (22÷16) | | 3 RKY-M3 | 4,5 | 5,5 | 5,0 | 2,5 | 18,5 | 3,2 | 3.000/100 | | |
| | | 3,5 RKY-M3.5 | 4,5 | 5,5 | 5,0 | 2,5 | 18,5 | 3,7 | 3.000/100 | | |
| | | 3,5 RKY-M3.5/1 | 4,5 | 6,6 | 6,3 | 3,1 | 20,4 | 3,7 | 3.000/100 | | |
| | | 4 RKY-M4 | 4,5 | 6,6 | 6,3 | 3,1 | 20,4 | 4,3 | 3.000/100 | | |
| | | 5 RKY-M5 | 4,5 | 8,0 | 7,0 | 3,8 | 21,8 | 5,3 | 2.500/100 | | |
| | | 6 RKY-M6/1 | 4,5 | 11,6 | 11,0 | 5,8 | 27,8 | 6,4 | 2.000/100 | | |
| | | 8 RKY-M8 | 4,5 | 11,6 | 11,0 | 5,8 | 27,8 | 8,4 | 2.500/100 | | |
| | | 10 RKY-M10 | 4,5 | 13,6 | 13,9 | 6,6 | 31,5 | 10,5 | 1.500/100 | | |
| | | 12 RKY-M12 | 4,5 | 19,6 | 16,0 | 9,4 | 36,4 | 13,0 | 1.500/100 | | |
| | | 1,5÷2,5 (16÷14) | | 3 BKY-M3 | 5,2 | 6,6 | 4,8 | 3,0 | 18,8 | 3,2 | 2.500/100 |
| | | | | 3,5 BKY-M3.5 | 5,2 | 6,6 | 4,8 | 3,0 | 18,8 | 3,7 | 2.500/100 |
| | | | | 3,5 BKY-M3.5/1 | 5,2 | 6,6 | 6,3 | 3,1 | 20,4 | 3,7 | 2.500/100 |
| 4 BKY-M4 | 5,2 | | | 8,5 | 7,8 | 4,0 | 22,8 | 4,3 | 2.500/100 | | |
| 5 BKY-M5 | 5,2 | | | 8,5 | 7,8 | 4,0 | 22,8 | 5,3 | 2.500/100 | | |
| 6 BKY-M6/1 | 5,2 | | | 12,0 | 11,0 | 5,8 | 27,8 | 6,4 | 2.000/100 | | |
| 8 BKY-M8 | 5,2 | | | 12,0 | 11,0 | 5,8 | 27,8 | 8,4 | 1.500/100 | | |
| 10 BKY-M10 | 5,2 | | | 13,6 | 13,9 | 6,6 | 31,5 | 10,5 | 1.500/100 | | |
| 12 BKY-M12 | 5,2 | | | 19,2 | 16,0 | 9,4 | 36,4 | 13,0 | 1.000/100 | | |
| 4÷6 (12÷10) | | | | 3,5 GKY-M3.5 | 7,0 | 7,2 | 6,1 | 3,6 | 22,7 | 3,7 | 1.000/100 |
| | | | | 4 GKY-M4 | 7,0 | 9,5 | 9,1 | 4,5 | 26,6 | 4,3 | 1.000/100 |
| | | | | 5 GKY-M5 | 7,0 | 9,5 | 9,1 | 4,5 | 26,6 | 5,3 | 1.000/100 |
| | | 6 GKY-M6 | 7,0 | 12,0 | 10,5 | 6,0 | 29,5 | 6,4 | 1.000/100 | | |
| | | 8 GKY-M8 | 7,0 | 15,0 | 13,5 | 7,5 | 34,0 | 8,4 | 1.000/100 | | |
| | | 10 GKY-M10 | 7,0 | 15,0 | 13,5 | 7,5 | 34,0 | 10,5 | 1.000/100 | | |
| | | 12 GKY-M12 | 7,0 | 19,2 | 16,0 | 9,6 | 38,6 | 13,0 | 1.000/100 | | |
| | | 14 GKY-M14 | 7,0 | 32,0 | 25,2 | 16,0 | 54,2 | 15,0 | 500/100 | | |
| 16 GKY-M16 | 7,0 | 32,0 | 25,2 | 16,0 | 54,2 | 17,0 | 500/100 | | | | |

| Cond. Size sqmm (AWG) | Ø Stud mm | Type | Dimensions mm | | | | | | Quantity Box/Bag | | |
|-----------------------|-----------|-----------------|---------------|--------------|------|------|------|-----|------------------|-----|-----------|
| | | | Ø | B | M | N | L | d | | | |
| 0,25÷1,5 (22÷16) | | 3 RKY-U3 | 4,5 | 5,7 | 6,5 | 4,5 | 22,0 | 3,2 | 2.500/100 | | |
| | | 3,5 RKY-U3.5 | 4,5 | 5,7 | 6,5 | 4,5 | 22,0 | 3,7 | 2.500/100 | | |
| | | 4 RKY-U4 | 4,5 | 6,4 | 6,5 | 4,5 | 22,0 | 4,3 | 3.000/100 | | |
| | | 5 RKY-U5 | 4,5 | 8,1 | 6,5 | 4,5 | 22,0 | 5,3 | 3.000/100 | | |
| | | 6 RKY-U6 | 4,5 | 9,5 | 6,5 | 4,5 | 22,0 | 6,4 | 2.000/100 | | |
| | | 6 RKY-U6/1 | 4,5 | 12,0 | 11,0 | 6,0 | 28,0 | 6,4 | 2.000/100 | | |
| | | 1,5÷2,5 (16÷14) | | 3 BKY-U3 | 5,2 | 5,7 | 6,5 | 4,5 | 22,0 | 3,2 | 2.500/100 |
| | | | | 3,5 BKY-U3.5 | 5,2 | 6,0 | 6,5 | 4,5 | 22,0 | 3,7 | 2.500/100 |
| | | | | 4 BKY-U4 | 5,2 | 6,4 | 6,5 | 4,5 | 22,0 | 4,3 | 2.500/100 |
| | | | | 5 BKY-U5 | 5,2 | 7,9 | 6,5 | 4,5 | 22,0 | 5,3 | 2.000/100 |
| | | | | 6 BKY-U6 | 5,2 | 9,3 | 6,5 | 4,5 | 22,0 | 6,4 | 2.000/100 |
| | | | | 6 BKY-U6/1 | 5,2 | 12,0 | 11,0 | 6,0 | 28,0 | 6,4 | 2.000/100 |
| 4÷6 (12÷10) | | | | 3,5 GKY-U3.5 | 7,0 | 7,2 | 7,5 | 3,9 | 24,4 | 3,7 | 1.000/100 |
| | | | | 4 GKY-U4 | 7,0 | 7,2 | 7,5 | 3,9 | 24,4 | 4,3 | 1.000/100 |
| | | | | 5 GKY-U5 | 7,0 | 9,0 | 7,0 | 5,5 | 25,5 | 5,3 | 1.000/100 |
| | | | | 6 GKY-U6 | 7,0 | 12,0 | 12,0 | 6,5 | 31,5 | 6,4 | 1.000/100 |
| | | | | 8 GKY-U8 | 7,0 | 14,0 | 10,5 | 7,0 | 30,5 | 8,4 | 1.000/100 |

| Cond. Size sqmm (AWG) | Ø Stud mm | Type | Dimensions mm | | | | | | Quantity Box/Bag |
|-----------------------|-----------|---------|---------------|-----|------|-----|------|-----|------------------|
| | | | Ø | B | M | N | L | d | |
| 0,25÷1,5 (22÷16) | | 7 RK-M7 | 4,1 | 9,4 | 8,1 | 4,7 | 22,8 | 7,2 | 2.500/100 |
| 1,5÷2,5 (16÷14) | | 7 BK-M7 | 4,6 | 10 | 7,8 | 5 | 22,8 | 7,2 | 2.000/100 |
| 4÷6 (12÷10) | | 7 GK-M7 | 6,6 | 11 | 11,1 | 5,5 | 30,6 | 7,2 | 1.000/100 |

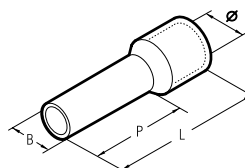


Consult CEMBRE for a wider range of pin and blade dimensions.

PKD



The PK.. range of end sleeves is manufactured from Tin plated electrolytic Copper with a purity greater than 99.9%. Designed and developed to reinforce fine wire strands when terminating a cable into a connector block. The PKD series of insulated end sleeves comply with specification DIN 46228/4. The operating temperature range is - 20 to + 115°C (Surge + 130°C).



| Conductor Size sqmm | Type | Dimensions mm | | | | Insulation Colour | Quantity Box/Bag |
|---------------------|----------|---------------|------|------|------|-------------------|------------------|
| | | Ø | B | P | L | | |
| 0,3÷0,5 | PKD506 | 2,6 | 1,4 | 6,0 | 12,0 | ○ white | 10.000/500 |
| | PKD508 | 2,6 | 1,4 | 8,0 | 14,0 | | 10.000/500 |
| | PKD510 | 2,6 | 1,4 | 10,0 | 16,0 | | 10.000/500 |
| 0,75 | PKD7506 | 2,8 | 1,6 | 6,0 | 12,0 | ○ grey | 10.000/500 |
| | PKD7508 | 2,8 | 1,6 | 8,0 | 14,0 | | 10.000/500 |
| | PKD7510 | 2,8 | 1,6 | 10,0 | 16,0 | | 10.000/500 |
| 1 | PKD7512 | 2,8 | 1,6 | 12,0 | 18,0 | ● red | 10.000/500 |
| | PKD106 | 3,0 | 1,8 | 6,0 | 12,0 | | 10.000/500 |
| | PKD108 | 3,0 | 1,8 | 8,0 | 14,0 | | 10.000/500 |
| 1,5 | PKD110 | 3,0 | 1,8 | 10,0 | 16,0 | ● black | 10.000/500 |
| | PKD112 | 3,0 | 1,8 | 12,0 | 18,0 | | 8.000/500 |
| | PKD1508 | 3,5 | 2,1 | 8,0 | 14,0 | | 5.000/500 |
| 2,5 | PKD1510 | 3,5 | 2,1 | 10,0 | 16,0 | ● blue | 5.000/500 |
| | PKD1512 | 3,5 | 2,1 | 12,0 | 18,0 | | 5.000/500 |
| | PKD1518 | 3,5 | 2,1 | 18,0 | 24,0 | | 5.000/500 |
| 4 | PKD2508 | 4,2 | 2,6 | 8,0 | 14,0 | ● yellow | 5.000/500 |
| | PKD2512 | 4,2 | 2,6 | 12,0 | 18,0 | | 4.000/500 |
| | PKD2518 | 4,2 | 2,6 | 18,0 | 24,0 | | 5.000/500 |
| 6 | PKD410 | 4,8 | 3,3 | 10,0 | 18,0 | ○ grey | 3.000/200 |
| | PKD412 | 4,8 | 3,3 | 12,0 | 20,0 | | 3.000/200 |
| | PKD418 | 4,8 | 3,3 | 18,0 | 26,0 | | 3.000/200 |
| 10 | PKD612 | 6,3 | 4,0 | 12,0 | 20,0 | ● red | 1.500/100 |
| | PKD618 | 6,3 | 4,0 | 18,0 | 26,0 | | 1.500/100 |
| 16 | PKD1012 | 7,6 | 5,0 | 12,0 | 22,0 | ● blue | 1.000/100 |
| | PKD1018 | 7,6 | 5,0 | 18,0 | 28,0 | | 1.000/100 |
| 25 | PKD1612 | 8,8 | 6,4 | 12,0 | 24,0 | ● yellow | 800/100 |
| | PKD1618 | 8,8 | 6,4 | 18,0 | 28,0 | | 1.000/100 |
| 35 | PKD25016 | 11,2 | 7,9 | 16,0 | 30,0 | ● red | 400/50 |
| | PKD25022 | 11,2 | 7,9 | 22,0 | 36,0 | | 500/50 |
| 50 | PKD35016 | 12,7 | 8,9 | 16,0 | 30,0 | ● blue | 300/50 |
| | PKD35025 | 12,7 | 8,9 | 25,0 | 39,0 | | 200/50 |
| 50 | PKD50020 | 15,0 | 11,0 | 20,0 | 36,0 | ● red | 200/50 |
| | PKD50025 | 15,0 | 11,0 | 25,0 | 41,0 | | 200/50 |

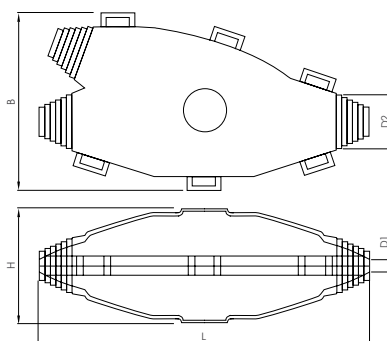
JOINTS



Shells manufactured from transparent synthetic material which allows a visual check of the connections before and after casting.

The halves of the shell are joined by snap closures which avoid further fixing or sealing.

Shells are left on after casting to provide additional protection against mechanical abrasion, chemical agents and severe weather conditions.

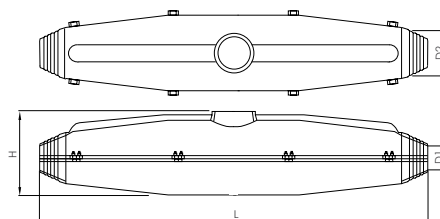


BRANCH JOINTS

| TYPE | DIMENSIONS mm | | | | | DIMENSIONS CABLE | | |
|-------------|---------------|----|-----|-------------------|-------------------|------------------|--|----------|
| | L | H | B | D1 ⁽¹⁾ | D2 ⁽¹⁾ | Ø mm | SECTION ⁽²⁾ mm ² | |
| | | | | | | | RUN | TAP |
| NY00 | 150 | 47 | 70 | 11 | 20 | 11 - 20 | 4C x 1,5 ÷ 2,5 | 4C x 1,5 |
| NY0 | 175 | 60 | 94 | 6 | 22 | 6 - 21 | 4C x 4 ÷ 10 | 4C x 4 |
| NY1 | 225 | 75 | 110 | 9 | 26 | 9 - 24 | 4C x 6 ÷ 25 | 4C x 16 |

⁽¹⁾ Internal dimension of the shell

⁽²⁾ Indicative cable sections are approximate and concern only harmonised, PVC or Rubber insulated cables at a working voltage of 0,6/1 kV



STRAIGHT JOINTS

| TYPE | DIMENSIONS mm | | | | DIMENSIONS CABLE | | |
|------------|---------------|-----|-------------------|-------------------|------------------|--|--|
| | L | H | D1 ⁽¹⁾ | D2 ⁽¹⁾ | Ø mm | SECTION ⁽²⁾ mm ² | |
| N11 | 200 | 50 | 8 | 26 | 8 - 25 | 4C x 1,5 ÷ 10 | |
| N12 | 260 | 67 | 16 | 32 | 16 - 31 | 4C x 10 ÷ 25 | |
| N13 | 360 | 75 | 21 | 38 | 21 - 36 | 4C x 35 ÷ 50 | |
| N14 | 400 | 100 | 26 | 41 | 26 - 39 | 4C x 50 ÷ 70 | |
| N15 | 530 | 130 | 35 | 56 | 35 - 54 | 4C x 95 ÷ 150 | |
| N16 | 700 | 150 | 47 | 74 | 45 - 72 | 4C x 185 ÷ 300 | |

⁽¹⁾ Internal dimension of the shell

⁽²⁾ Indicative cable sections are approximate and concern only harmonised, PVC or Rubber insulated cables at a working voltage of 0,6/1 kV





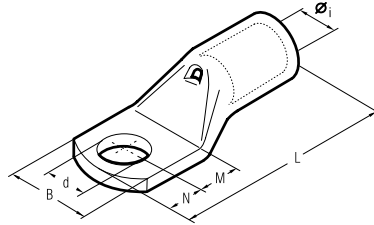
A-M series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%.

The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.

The presence of an inspection hole facilitates full insertion of the conductor, whilst the barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.

Lugs are electrolytically Tin plated to avoid oxidation.

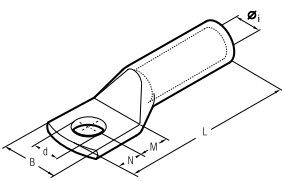
| Conductor Size sqmm | Ø Stud mm | Type | Dimensions mm | | | | | | | Quantity Box/Bag | Mechanical Tools | Hydraulic Tools |
|------------------------|-----------------|-----------|---------------|------|------|------|------|-----------|-----------|---------------------|---------------------|--------------------|
| | | | Øi | B | M | N | L | d | | | | |
| 0,25÷1,5 | 3 | A03-M3* | 1,8 | 6,0 | 4,5 | 3,5 | 16,0 | 3,2 | 5.000/100 | HN1 | B15MD | |
| | 3,5 | A03-M3.5* | 1,8 | 6,5 | 4,5 | 3,5 | 16,0 | 3,7 | 5.000/100 | | | |
| | 4 | A03-M4* | 1,8 | 6,5 | 5,0 | 4,0 | 17,0 | 4,3 | 5.000/100 | | | |
| | 5 | A03-M5* | 1,8 | 7,5 | 5,5 | 4,5 | 18,0 | 5,3 | 5.000/100 | | | |
| | 6 | A03-M6* | 1,8 | 9,0 | 6,0 | 5,0 | 19,0 | 6,4 | 5.000/100 | | | |
| | 3 | A06-M3* | 2,4 | 6,0 | 4,5 | 3,5 | 17,0 | 3,2 | 4.000/100 | | | |
| 1,5÷2,5 | 3,5 | A06-M3.5* | 2,4 | 6,5 | 4,5 | 3,5 | 17,0 | 3,7 | 4.000/100 | HN5 | B15MD | |
| | 4 | A06-M4* | 2,4 | 7,5 | 5,0 | 4,0 | 18,0 | 4,3 | 4.000/100 | | | |
| | 5 | A06-M5* | 2,4 | 8,5 | 5,5 | 4,5 | 19,0 | 5,3 | 4.000/100 | | | |
| | 6 | A06-M6* | 2,4 | 9,0 | 6,0 | 5,0 | 20,0 | 6,4 | 4.000/100 | | | |
| | 8 | A06-M8* | 2,4 | 12,0 | 9,0 | 8,0 | 26,0 | 8,4 | 2.500/100 | | | |
| | 3 | A1-M3 | 3,6 | 7,5 | 4,5 | 3,5 | 20,5 | 3,2 | 2.000/100 | | | HN-A25 |
| 3,5 | A1-M3.5 | 3,6 | 7,5 | 4,5 | 3,5 | 20,5 | 3,7 | 2.000/100 | | | | |
| 4 | A1-M4 | 3,6 | 8,0 | 5,0 | 4,0 | 21,5 | 4,3 | 2.000/100 | | | | |
| 5 | A1-M5 | 3,6 | 9,0 | 6,5 | 6,0 | 25,0 | 5,3 | 2.000/100 | | | | |
| 6 | A1-M6 | 3,6 | 11,0 | 7,0 | 6,0 | 25,5 | 6,4 | 1.500/100 | | | | |
| 8 | A1-M8 | 3,6 | 14,0 | 9,0 | 8,0 | 29,5 | 8,4 | 1.500/100 | | | | |
| 4÷6 | 10 | A1-M10 | 3,6 | 16,5 | 11,0 | 10,0 | 34,0 | 10,5 | 1.000/100 | TN70SE | B15MD | |
| | 4 | A2-M4 | 4,6 | 10,0 | 5,0 | 4,0 | 22,5 | 4,3 | 1.500/100 | | | |
| | 5 | A2-M5 | 4,6 | 10,0 | 6,5 | 6,0 | 26,0 | 5,3 | 1.000/100 | | | |
| | 6 | A2-M6 | 4,6 | 11,0 | 7,0 | 6,0 | 26,5 | 6,4 | 1.000/100 | | | |
| | 8 | A2-M8 | 4,6 | 15,0 | 9,0 | 8,0 | 30,5 | 8,4 | 1.000/100 | | | |
| | 10 | A2-M10 | 4,6 | 18,0 | 11,0 | 10,0 | 34,5 | 10,5 | 500/100 | | | |
| 10 | 12 | A2-M12 | 4,6 | 19,0 | 14,0 | 12,0 | 39,5 | 13,2 | 500/100 | TN120SE | B15MD | |
| | 4 | A3-M4 | 5,8 | 11,5 | 5,0 | 4,0 | 25,5 | 4,3 | 1.000/100 | | | |
| | 5 | A3-M5 | 5,8 | 11,5 | 6,5 | 6,0 | 29,0 | 5,3 | 1.000/100 | | | |
| | 6 | A3-M6 | 5,8 | 11,5 | 7,0 | 6,0 | 29,5 | 6,4 | 1.000/100 | | | |
| | 8 | A3-M8 | 5,8 | 15,0 | 9,0 | 8,0 | 33,5 | 8,4 | 500/100 | | | |
| | 10 | A3-M10 | 5,8 | 18,0 | 11,0 | 10,0 | 37,5 | 10,5 | 500/100 | | | |
| 16 | 12 | A3-M12 | 5,8 | 20,0 | 14,0 | 12,0 | 44,0 | 13,2 | 500/100 | TN120SE | B15MD | |
| | 4 | A5-M4 | 7,0 | 14,0 | 5,0 | 4,0 | 28,0 | 4,3 | 500/100 | | | |
| | 5 | A5-M5 | 7,0 | 14,0 | 6,5 | 6,0 | 31,5 | 5,3 | 500/100 | | | |
| | 6 | A5-M6 | 7,0 | 14,0 | 7,0 | 6,0 | 32,0 | 6,4 | 500/100 | | | |
| | 8 | A5-M8 | 7,0 | 15,0 | 9,0 | 8,0 | 36,0 | 8,4 | 500/100 | | | |
| | 10 | A5-M10 | 7,0 | 18,0 | 11,0 | 10,0 | 40,0 | 10,5 | 500/100 | | | |
| 25 | 12 | A5-M12 | 7,0 | 21,0 | 14,0 | 12,0 | 45,0 | 13,2 | 400/100 | TN120SE | B15MD | |
| | 5 | A7-M5 | 8,9 | 17,0 | 6,5 | 6,0 | 34,0 | 5,3 | 400/100 | | | |
| | 6 | A7-M6 | 8,9 | 17,0 | 7,0 | 6,0 | 34,5 | 6,4 | 400/100 | | | |
| | 8 | A7-M8 | 8,9 | 17,0 | 9,0 | 8,0 | 38,5 | 8,4 | 400/100 | | | |
| | 10 | A7-M10 | 8,9 | 19,0 | 11,0 | 10,0 | 42,5 | 10,5 | 300/100 | | | |
| | 12 | A7-M12 | 8,9 | 21,0 | 14,0 | 12,0 | 47,5 | 13,2 | 200/50 | | | |
| 35 | 6 | A10-M6 | 10,0 | 19,0 | 8,0 | 7,0 | 38,5 | 6,4 | 200/50 | TN120SE | B15MD | |
| | 8 | A10-M8 | 10,0 | 19,0 | 9,0 | 8,0 | 40,5 | 8,4 | 200/50 | | | |
| | 10 | A10-M10 | 10,0 | 20,0 | 11,5 | 9,5 | 44,5 | 10,5 | 200/50 | | | |
| | 12 | A10-M12 | 10,0 | 21,0 | 12,0 | 12,0 | 47,5 | 13,2 | 200/50 | | | |
| | 14 | A10-M14 | 10,0 | 25,0 | 16,0 | 14,0 | 55,5 | 15,0 | 200/50 | | | |
| | 16 | A10-M16 | 10,0 | 26,0 | 18,0 | 16,0 | 59,5 | 17,0 | 100/50 | | | |
| 50 | 6 | A14-M6 | 11,3 | 21,0 | 8,0 | 7,0 | 44,0 | 6,4 | 200/50 | TN120SE | B15MD | |
| | 8 | A14-M8 | 11,3 | 21,0 | 9,0 | 8,0 | 46,0 | 8,4 | 200/50 | | | |
| | 10 | A14-M10 | 11,3 | 21,0 | 11,0 | 10,0 | 50,0 | 10,5 | 200/50 | | | |
| | 12 | A14-M12 | 11,3 | 22,0 | 14,0 | 12,0 | 55,0 | 13,2 | 150/50 | | | |
| | 14 | A14-M14 | 11,3 | 25,0 | 16,0 | 14,0 | 59,0 | 15,0 | 100/50 | | | |
| | 16 | A14-M16 | 11,3 | 26,0 | 18,0 | 16,0 | 63,0 | 17,0 | 100/50 | | | |
| 70 | 6 | A14-M6 | 11,3 | 21,0 | 8,0 | 7,0 | 44,0 | 6,4 | 200/50 | TN120SE | B15MD | |
| | 8 | A14-M8 | 11,3 | 21,0 | 9,0 | 8,0 | 46,0 | 8,4 | 200/50 | | | |
| | 10 | A14-M10 | 11,3 | 21,0 | 11,0 | 10,0 | 50,0 | 10,5 | 200/50 | | | |
| | 12 | A14-M12 | 11,3 | 22,0 | 14,0 | 12,0 | 55,0 | 13,2 | 150/50 | | | |
| | 14 | A14-M14 | 11,3 | 25,0 | 16,0 | 14,0 | 59,0 | 15,0 | 100/50 | | | |
| | 16 | A14-M16 | 11,3 | 26,0 | 18,0 | 16,0 | 63,0 | 17,0 | 100/50 | | | |



| Conductor Size sqmm | | Ø Stud mm | Type | Dimensions mm | | | | | | Quantity Box/Bag | Mechanical Tools | Hydraulic Tools | |
|---------------------|-------------|-----------|-----------|---------------|------|------|------|-------|------|------------------|------------------|------------------|--|
| Low Str. | Flex* | | | Øi | B | M | N | L | d | | | | |
| 95 | 70 95 | 6 | A19-M6 | 13,5 | 25,0 | 8,0 | 7,0 | 50,5 | 6,4 | 100/25 | TNI 20SE** | HT45-E B450ND-BV | |
| | | 8 | A19-M8 | 13,5 | 25,0 | 9,0 | 8,0 | 52,5 | 8,4 | 100/25 | | | |
| | | 10 | A19-M10 | 13,5 | 25,0 | 11,0 | 10,0 | 56,5 | 10,5 | 100/25 | | | |
| | | 12 | A19-M12 | 13,5 | 25,0 | 14,0 | 12,0 | 61,5 | 13,2 | 100/25 | | | |
| | | 14 | A19-M14 | 13,5 | 25,0 | 16,0 | 14,0 | 65,5 | 15,0 | 100/25 | | | |
| | | 16 | A19-M16 | 13,5 | 27,0 | 18,0 | 16,0 | 69,5 | 17,0 | 50/25 | | | |
| 20 | A19-M20 | 13,5 | 29,5 | 22,0 | 20,0 | 77,5 | 21,0 | 50/25 | | | | | |
| 120 | 95 120 | 8 | A24-M8 | 15,2 | 28,5 | 9,0 | 8,0 | 54,0 | 8,4 | 75/25 | | | |
| | | 10 | A24-M10 | 15,2 | 28,5 | 11,0 | 10,0 | 58,0 | 10,5 | 75/25 | | | |
| | | 12 | A24-M12 | 15,2 | 28,5 | 14,0 | 12,0 | 63,0 | 13,2 | 75/25 | | | |
| | | 14 | A24-M14 | 15,2 | 28,5 | 16,0 | 14,0 | 67,0 | 15,0 | 50/25 | | | |
| | | 16 | A24-M16 | 15,2 | 28,5 | 18,0 | 16,0 | 71,0 | 17,0 | 50/25 | | | |
| | | 20 | A24-M20 | 15,2 | 30,0 | 22,0 | 20,0 | 79,0 | 21,0 | 50/25 | | | |
| 150 | 120 150 | 8 | A30-M8 | 16,7 | 31,5 | 13,0 | 11,0 | 69,0 | 8,4 | 50/25 | | | |
| | | 10 | A30-M10 | 16,7 | 31,5 | 13,0 | 11,0 | 69,0 | 10,5 | 50/25 | | | |
| | | 12 | A30-M12 | 16,7 | 31,5 | 16,0 | 14,0 | 75,0 | 13,2 | 50/25 | | | |
| | | 14 | A30-M14 | 16,7 | 31,5 | 18,0 | 16,0 | 79,0 | 15,0 | 50/25 | | | |
| | | 16 | A30-M16 | 16,7 | 31,5 | 19,0 | 17,0 | 81,0 | 17,0 | 50/25 | | | |
| | | 20 | A30-M20 | 16,7 | 31,5 | 22,0 | 20,0 | 87,0 | 21,0 | 50/25 | | | |
| 185 | 150 185 | 8 | A37-M8 | 19,2 | 35,5 | 13,0 | 11,0 | 76,0 | 8,4 | 30/15 | | | |
| | | 10 | A37-M10 | 19,2 | 35,5 | 13,0 | 11,0 | 76,0 | 10,5 | 30/15 | | | |
| | | 12 | A37-M12 | 19,2 | 35,5 | 16,0 | 14,0 | 82,0 | 13,2 | 30/15 | | | |
| | | 14 | A37-M14 | 19,2 | 35,5 | 18,0 | 16,0 | 86,0 | 15,0 | 30/15 | | | |
| | | 16 | A37-M16 | 19,2 | 35,5 | 19,0 | 17,0 | 88,0 | 17,0 | 30/15 | | | |
| | | 20 | A37-M20 | 19,2 | 35,5 | 22,0 | 20,0 | 94,0 | 21,0 | 30/15 | | | |
| 240 | 185 240 | 8 | A48-M8 | 21,1 | 39,0 | 13,0 | 11,0 | 77,5 | 8,4 | 20/10 | | | |
| | | 10 | A48-M10 | 21,1 | 39,0 | 13,0 | 11,0 | 77,5 | 10,5 | 20/10 | | | |
| | | 12 | A48-M12 | 21,1 | 39,0 | 14,0 | 12,0 | 79,5 | 13,2 | 20/10 | | | |
| | | 14 | A48-M14 | 21,1 | 39,0 | 18,0 | 16,0 | 92,0 | 15,0 | 20/10 | | | |
| | | 16 | A48-M16 | 21,1 | 39,0 | 19,0 | 17,0 | 94,0 | 17,0 | 20/10 | | | |
| | | 20 | A48-M20 | 21,1 | 39,0 | 22,0 | 20,0 | 100,0 | 21,0 | 20/10 | | | |
| 300 | 240 300 | 10 | A60-M10 | 23,7 | 44,0 | 20,0 | 11,0 | 96,0 | 10,5 | 20/10 | | | |
| | | 12 | A60-M12 | 23,7 | 44,0 | 20,0 | 14,0 | 99,0 | 13,2 | 20/10 | | | |
| | | 14 | A60-M14 | 23,7 | 44,0 | 22,0 | 16,0 | 103,0 | 15,0 | 20/10 | | | |
| | | 16 | A60-M16 | 23,7 | 44,0 | 22,0 | 19,0 | 106,0 | 17,0 | 20/10 | | | |
| | | 20 | A60-M20 | 23,7 | 44,0 | 24,0 | 23,0 | 112,0 | 21,0 | 20/10 | | | |
| | | 12 | A80-M12 | 27,0 | 51,0 | 22,0 | 19,0 | 113,0 | 13,2 | 15/5 | | | |
| 400 | 300 400 | 14 | A80-M14 | 27,0 | 51,0 | 22,0 | 19,0 | 113,0 | 15,0 | 15/5 | | | |
| | | 16 | A80-M16 | 27,0 | 51,0 | 22,0 | 19,0 | 113,0 | 17,0 | 15/5 | | | |
| | | 20 | A80-M20 | 27,0 | 51,0 | 24,0 | 23,0 | 119,0 | 21,0 | 15/5 | | | |
| | | 16 | A100-M16 | 30,3 | 56,5 | 22,0 | 19,0 | 117,0 | 17,0 | 10/1 | | | |
| 500 | 400 500 | 20 | A100-M20 | 30,3 | 56,5 | 24,0 | 23,0 | 123,0 | 21,0 | 10/1 | | | |
| | | 16 | A120-M16* | 33,4 | 61,6 | 22,0 | 19,0 | 128,0 | 17,0 | 9/1 | | | |
| 630 | 500 630 | 20 | A120-M20* | 33,4 | 61,6 | 24,0 | 23,0 | 134,0 | 21,0 | 9/1 | | | |
| | | 16 | A160-M16* | 38,0 | 72,0 | 24,0 | 19,0 | 141,0 | 17,0 | 5/1 | | | |
| 800 | 630 800 | 20 | A160-M20* | 38,0 | 72,0 | 24,0 | 23,0 | 145,0 | 21,0 | 6/1 | | | |
| | | 16 | A200-M16* | 44,0 | 80,0 | 24,0 | 19,0 | 158,0 | 17,0 | 5/1 | | | |
| 1000 | 800 1000 | 20 | A200-M20* | 44,0 | 80,0 | 24,0 | 23,0 | 162,0 | 21,0 | 5/1 | | | |

*Not UL approved

2A-M



The **2A-M** series cable lugs are designed for heavy duty, for grounding structures and equipment both indoors and outdoors and for medium voltage applications up to 35 kV. 2A-M series terminals are made from high purity Copper tube with a purity greater than 99.9%, and are annealed. They feature a double length barrel for enhanced electrical and mechanical performance in heavy duty applications. The absence of an inspection hole prevents the entry of water or moisture into the crimped joint making these terminals suitable for outdoor applications. The terminals are electrolytically Tin plated to prevent atmospheric corrosion.

| Conductor Size sqmm | Ø Stud mm | Type | Dimensions mm | | | | | | Quantity Box/Bag | Mechanical Tools | Hydraulic Tools |
|---------------------|-----------|------------|---------------|------|------|------|-------|------|------------------|------------------|-----------------|
| | | | Øi | B | M | N | L | d | | | |
| 16 | 8 | 2A3-M8 | 5,8 | 15,0 | 9,0 | 8,0 | 43,5 | 8,4 | 600/100 | HN5 | B15MD |
| | 10 | 2A3-M10 | 5,8 | 18,0 | 11,0 | 10,0 | 47,5 | 10,5 | 500/100 | | |
| 25 | 8 | 2A5-M8 | 7,0 | 15,0 | 9,0 | 8,0 | 51,0 | 8,4 | 400/100 | HN-A25 | B15MD |
| | 10 | 2A5-M10 | 7,0 | 18,0 | 11,0 | 10,0 | 55,0 | 10,5 | 300/50 | | |
| 35 | 12 | 2A5-M12 | 7,0 | 21,0 | 14,0 | 12,0 | 60,0 | 13,2 | 300/50 | TN70SE | B15MD |
| | 8 | 2A7-M8 | 8,9 | 17,0 | 9,0 | 8,0 | 53,0 | 8,4 | 200/50 | | |
| 50 | 10 | 2A7-M10 | 8,9 | 19,0 | 11,0 | 10,0 | 57,0 | 10,5 | 200/50 | TN70SE | B15MD |
| | 12 | 2A7-M12 | 8,9 | 21,0 | 14,0 | 12,0 | 62,0 | 13,2 | 200/50 | | |
| 63 | 10 | 2A10-M10 | 10,0 | 20,0 | 11,0 | 10,0 | 63,0 | 10,5 | 100/50 | TN120 SE* | B15MD |
| | 12 | 2A10-M12 | 10,0 | 21,0 | 14,0 | 12,0 | 68,0 | 13,2 | 100/50 | | |
| 70 | 14 | 2A10-M14 | 10,0 | 25,0 | 16,0 | 14,0 | 72,0 | 15,0 | 150/50 | TN120 SE* | B450ND-BV |
| | 16 | 2A10-M16 | 10,0 | 26,0 | 18,0 | 16,0 | 76,0 | 17,0 | 150/50 | | |
| 95 | 10 | 2A14-M10 | 11,3 | 21,0 | 11,0 | 10,0 | 70,0 | 10,5 | 100/50 | TN120 SE* | HT45-E |
| | 12 | 2A14-M12 | 11,3 | 22,0 | 14,0 | 12,0 | 75,0 | 13,2 | 100/50 | | |
| 120 | 14 | 2A14-M14 | 11,3 | 25,0 | 16,0 | 14,0 | 79,0 | 15,0 | 100/50 | TN120 SE* | HT45-E |
| | 16 | 2A14-M16 | 11,3 | 26,0 | 18,0 | 16,0 | 83,0 | 17,0 | 100/50 | | |
| 125 | 10 | 2A19-M10 | 13,5 | 25,0 | 11,0 | 10,0 | 76,5 | 10,5 | 50/25 | TN120 SE* | HT51 |
| | 12 | 2A19-M12 | 13,5 | 25,0 | 14,0 | 12,0 | 81,5 | 13,2 | 50/25 | | |
| 150 | 14 | 2A19-M14 | 13,5 | 25,0 | 16,0 | 14,0 | 85,5 | 15,0 | 75/25 | TN120 SE* | HT51 |
| | 16 | 2A19-M16 | 13,5 | 27,0 | 18,0 | 16,0 | 90,5 | 17,0 | 50/25 | | |
| 185 | 20 | 2A19-M20 | 13,5 | 29,5 | 22,0 | 20,0 | 97,5 | 21,0 | 75/25 | TN120 SE* | HT51 |
| | 10 | 2A24-M10 | 15,2 | 28,5 | 11,0 | 10,0 | 82,0 | 10,5 | 30/15 | | |
| 240 | 12 | 2A24-M12 | 15,2 | 28,5 | 14,0 | 12,0 | 87,0 | 13,2 | 30/15 | TN120 SE* | RH50 |
| | 14 | 2A24-M14 | 15,2 | 28,5 | 16,0 | 14,0 | 91,0 | 15,0 | 30/15 | | |
| 300 | 16 | 2A24-M16 | 15,2 | 28,5 | 18,0 | 16,0 | 95,0 | 17,0 | 30/15 | TN120 SE* | RH50 |
| | 20 | 2A24-M20 | 15,2 | 30,0 | 22,0 | 20,0 | 103,0 | 21,0 | 50/25 | | |
| 400 | 10 | 2A30-M10 | 16,7 | 31,5 | 13,0 | 11,0 | 92,0 | 10,5 | 30/15 | TN120 SE* | RH50 |
| | 12 | 2A30-M12 | 16,7 | 31,5 | 16,0 | 14,0 | 98,0 | 13,2 | 30/15 | | |
| 480 | 14 | 2A30-M14 | 16,7 | 31,5 | 18,0 | 16,0 | 102,0 | 15,0 | 30/15 | TN120 SE* | RH50 |
| | 16 | 2A30-M16 | 16,7 | 31,5 | 19,0 | 17,0 | 104,0 | 17,0 | 30/15 | | |
| 630 | 20 | 2A30-M20 | 16,7 | 31,5 | 22,0 | 20,0 | 110,0 | 21,0 | 30/15 | TN120 SE* | RH50 |
| | 12 | 2A37-M12 | 19,2 | 35,5 | 16,0 | 14,0 | 108,0 | 13,2 | 20/10 | | |
| 800 | 14 | 2A37-M14 | 19,2 | 35,5 | 18,0 | 16,0 | 112,0 | 15,0 | 30/15 | TN120 SE* | RH50 |
| | 16 | 2A37-M16 | 19,2 | 35,5 | 19,0 | 17,0 | 114,0 | 17,0 | 30/15 | | |
| 1000 | 20 | 2A37-M20 | 19,2 | 35,5 | 22,0 | 20,0 | 120,0 | 21,0 | 30/15 | TN120 SE* | RH50 |
| | 12 | 2A48-M12 | 21,1 | 39,0 | 16,0 | 14,0 | 109,0 | 13,2 | 20/5 | | |
| 1200 | 14 | 2A48-M14 | 21,1 | 39,0 | 18,0 | 16,0 | 113,0 | 15,0 | 20/5 | TN120 SE* | RH50 |
| | 16 | 2A48-M16 | 21,1 | 39,0 | 19,0 | 17,0 | 115,0 | 17,0 | 20/5 | | |
| 1600 | 20 | 2A48-M20 | 21,1 | 39,0 | 22,0 | 20,0 | 121,0 | 21,0 | 25/5 | TN120 SE* | RH50 |
| | 12 | 2A60-M12 | 23,7 | 44,0 | 20,0 | 14,0 | 129,5 | 13,2 | 15/5 | | |
| 2000 | 14 | 2A60-M14 | 23,7 | 44,0 | 22,0 | 16,0 | 133,5 | 15,0 | 15/5 | TN120 SE* | RH50 |
| | 16 | 2A60-M16 | 23,7 | 44,0 | 22,0 | 19,0 | 136,5 | 17,0 | 15/5 | | |
| 2500 | 20 | 2A60-M20 | 23,7 | 44,0 | 24,0 | 23,0 | 142,5 | 21,0 | 15/5 | TN120 SE* | RH50 |
| | 12 | 2A80-M12 | 27,0 | 51,0 | 22,0 | 19,0 | 140,0 | 13,2 | 15/5 | | |
| 3200 | 14 | 2A80-M14 | 27,0 | 51,0 | 22,0 | 19,0 | 140,0 | 15,0 | 10/5 | TN120 SE* | RH50 |
| | 16 | 2A80-M16 | 27,0 | 51,0 | 22,0 | 19,0 | 140,0 | 17,0 | 10/5 | | |
| 4000 | 20 | 2A80-M20 | 27,0 | 51,0 | 24,0 | 23,0 | 146,0 | 21,0 | 15/5 | TN120 SE* | RH50 |
| | 16 | 2A100-M16* | 30,3 | 56,5 | 22,0 | 19,0 | 141,0 | 17,0 | 10/1 | | |
| 5000 | 20 | 2A100-M20* | 30,3 | 56,5 | 24,0 | 23,0 | 147,0 | 21,0 | 10/1 | TN120 SE* | RH50 |
| | 16 | 2A120-M16* | 33,4 | 61,5 | 22,0 | 19,0 | 159,0 | 17,0 | 20/1 | | |
| 6300 | 20 | 2A120-M20* | 33,4 | 61,5 | 24,0 | 23,0 | 165,0 | 21,0 | 20/1 | TN120 SE* | RH50 |
| | 800 | 2A160-M20* | 38,0 | 72,0 | 24,0 | 23,0 | 187,0 | 21,0 | 12/1 | | |
| 8000 | 20 | 2A200-M20* | 44,0 | 80,0 | 24,0 | 23,0 | 202,0 | 21,0 | 6/1 | TN120 SE* | RH50 |

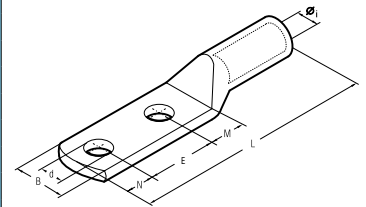
*Not UL approved

2A-2M



The **2A-2M** series cable lugs are designed for heavy duty, for grounding structures and equipment both indoors and outdoors and for medium voltage applications up to 35 kV. 2A-2M series terminals are made from high purity Copper tube with a purity greater than 99.9%, and are annealed. They feature a double length barrel for enhanced electrical and mechanical performance in heavy duty applications. The double hole fixing ensures greater mechanical stability even in the presence of electrodynamic stresses. The absence of an inspection hole prevents the entry of water or moisture into the crimped joint making these terminals suitable for outdoor applications. The terminals are electrolytically Tin plated to prevent atmospheric corrosion.

| Conductor Size sqmm | Ø Stud mm | Type | Dimensions mm | | | | | | | Quantity Box/Bag | Mechanical Tools | Hydraulic Tools |
|---------------------|-----------|-------------|---------------|------|------|------|------|-------|------|------------------|--|-----------------|
| | | | Øi | B | M | N | E | L | d | | | |
| 50 | 12 | 2A10-2M12 | 10,0 | 21,0 | 14,0 | 12,0 | 44,5 | 112,5 | 13,2 | 75/25 | TN70SE | B450ND-BV |
| 70 | 12 | 2A14-2M12 | 11,3 | 22,0 | 16,0 | 14,0 | 44,5 | 123,5 | 13,2 | 50/25 | | |
| | 14 | 2A14-2M14 | 11,3 | 25,0 | 18,0 | 16,0 | 44,5 | 127,5 | 15,0 | 75/25 | TN120 SE* | HT45-E |
| 95 | 12 | 2A19-2M12 | 13,5 | 25,0 | 16,0 | 14,0 | 44,5 | 128,0 | 13,2 | 50/25 | | |
| | 14 | 2A19-2M14 | 13,5 | 25,0 | 18,0 | 16,0 | 44,5 | 132,0 | 15,0 | 50/25 | HT51 | B500ND |
| 120 | 12 | 2A24-2M12 | 15,2 | 28,5 | 16,0 | 14,0 | 44,5 | 135,5 | 13,2 | 50/25 | | |
| | 14 | 2A24-2M14 | 15,2 | 28,5 | 18,0 | 16,0 | 44,5 | 139,5 | 15,0 | 50/25 | RH50 | HT81-U |
| | 16 | 2A24-2M16 | 15,2 | 28,5 | 18,0 | 17,0 | 44,5 | 140,5 | 17,0 | 50/25 | | |
| 150 | 12 | 2A30-2M12 | 16,7 | 31,5 | 16,0 | 14,0 | 44,5 | 142,5 | 13,2 | 30/15 | ECW-H3D | RHU520 |
| | 14 | 2A30-2M14 | 16,7 | 31,5 | 18,0 | 16,0 | 44,5 | 146,5 | 15,0 | 30/15 | | |
| | 12 | 2A37-2M12 | 19,2 | 35,5 | 16,0 | 14,0 | 44,5 | 152,5 | 13,2 | 30/15 | HT120 and tools and heads with 130 kN crimping force | |
| 185 | 14 | 2A37-2M14 | 19,2 | 35,5 | 18,0 | 16,0 | 44,5 | 156,5 | 15,0 | 30/15 | | |
| | 16 | 2A37-2M16 | 19,2 | 35,5 | 19,0 | 17,0 | 44,5 | 158,5 | 17,0 | 30/15 | | |
| | 12 | 2A48-2M12 | 21,1 | 39,0 | 16,0 | 14,0 | 44,5 | 153,5 | 13,2 | 25/5 | RHU520 | |
| 240 | 14 | 2A48-2M14 | 21,1 | 39,0 | 18,0 | 16,0 | 44,5 | 157,5 | 15,0 | 25/5 | | |
| | 16 | 2A48-2M16 | 21,1 | 39,0 | 19,0 | 17,0 | 44,5 | 159,5 | 17,0 | 25/5 | | |
| | 12 | 2A60-2M12 | 23,7 | 44,0 | 20,0 | 14,0 | 44,5 | 174,0 | 13,2 | 15/5 | | |
| 300 | 14 | 2A60-2M14 | 23,7 | 44,0 | 22,0 | 16,0 | 44,5 | 178,0 | 15,0 | 20/5 | | |
| | 16 | 2A60-2M16 | 23,7 | 44,0 | 19,0 | 17,0 | 44,5 | 176,0 | 17,0 | 20/5 | | |
| | 12 | 2A80-2M12 | 27,0 | 51,0 | 20,0 | 14,0 | 44,5 | 177,5 | 13,2 | 15/5 | | |
| 400 | 14 | 2A80-2M14 | 27,0 | 51,0 | 22,0 | 16,0 | 44,5 | 181,5 | 15,0 | 10/5 | | |
| | 16 | 2A80-2M16 | 27,0 | 51,0 | 22,0 | 19,0 | 44,5 | 184,5 | 17,0 | 15/5 | | |
| | 12 | 2A100-2M12* | 30,3 | 56,5 | 20,0 | 14,0 | 44,5 | 178,5 | 13,2 | 10/5 | | |
| 500 | 14 | 2A100-2M14* | 30,3 | 56,5 | 22,0 | 16,0 | 44,5 | 182,5 | 15,0 | 10/1 | | |
| | 16 | 2A100-2M16* | 30,3 | 56,5 | 22,0 | 19,0 | 44,5 | 185,5 | 17,0 | 8/1 | | |
| | 12 | 2A120-2M12* | 33,4 | 61,5 | 20,0 | 14,0 | 44,5 | 196,5 | 13,2 | 15/1 | | |
| 630 | 14 | 2A120-2M14* | 33,4 | 61,5 | 22,0 | 19,0 | 44,5 | 200,5 | 15,0 | 15/1 | | |
| | 16 | 2A120-2M16* | 33,4 | 61,5 | 22,0 | 19,0 | 44,5 | 203,5 | 17,0 | 15/1 | | |
| | 14 | 2A160-2M14* | 38,0 | 72,0 | 22,0 | 19,0 | 44,5 | 225,5 | 15,0 | 10/1 | | |
| 800 | 16 | 2A160-2M16* | 38,0 | 72,0 | 24,0 | 19,0 | 44,5 | 227,5 | 17,0 | 10/1 | | |
| | 12 | 2A200-2M12* | 44,0 | 80,0 | 20,0 | 14,0 | 44,5 | 233,5 | 13,2 | 6/2 | | |
| 1000 | 16 | 2A200-2M16* | 44,0 | 80,0 | 22,0 | 19,0 | 44,5 | 240,5 | 17,0 | 5/1 | | |
| | 20 | 2A200-2M20* | 44,0 | 80,0 | 24,0 | 23,0 | 44,5 | 246,5 | 21,0 | 6/2 | | |



*See page 139

1900



Material: POLYAMIDE PA6.6
 self-extinguishing class V2 (UL 94)
 Temperature range:
 -20°C to +90°C (continuous)
 Sealing ring: NEOPRENE®
 Protection: IP 68
 Colour: RAL 7035 light grey,
 RAL 9005 black, RAL 7001 dark grey

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

| Type Light Grey | P | Fixing Hole Ø (mm) | Ø A min-max (mm) | B Spanner (mm) | C (mm) | L min-max (mm) | Quantity |
|-----------------------|---------|--------------------------|------------------------|----------------------|-----------|----------------------|----------|
| 1900.M12 | M12x1,5 | 12,2 | 3,5- 7 | 15 | 8 | 18-22 | 100 |
| 1900.M16 | M16x1,5 | 16,2 | 5 -10 | 19 | 8 | 22-27 | 100 |
| 1900.M20 | M20x1,5 | 20,5 | 7 -13 | 25 | 9 | 24-30 | 100 |
| 1900.M25 | M25x1,5 | 25,4 | 10 -17 | 30 | 10 | 28-39 | 50 |
| 1900.M32 | M32x1,5 | 32,5 | 13 -21 | 36 | 10 | 33-44 | 25 |
| 1900.M40 | M40x1,5 | 40,5 | 19 -28 | 46 | 10 | 36-45 | 15 |
| 1900.M50 | M50x1,5 | 50,5 | 27 -35 | 55 | 12 | 43-52 | 10 |
| 1900.M63 | M63x1,5 | 64,0 | 34 -45 | 66 | 12 | 45-55 | 5 |

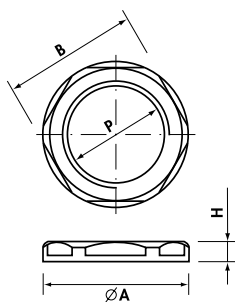
Add to Ref: N for Black, G for Dark Grey

1143



Material: POLYAMIDE PA6.6
 self-extinguishing class V2 (UL 94)
 Temperature range:
 -20°C to +90°C (continuous)
 Colour: RAL 7035 light grey,
 RAL 9005 black,
 RAL 7001 dark grey

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444



| Type Light Grey | P | Ø A (mm) | B Spanner (mm) | H (mm) | Quantity Box/Bag |
|-----------------------|---------|-------------|----------------------|-----------|---------------------|
| 1143M12 | M12x1,5 | 18,5 | 17 | 5 | 1.000/100 |
| 1143M16 | M16x1,5 | 24,0 | 22 | 5 | 600/100 |
| 1143M20 | M20x1,5 | 29,0 | 27 | 6 | 400/100 |
| 1143M25 | M25x1,5 | 35,5 | 32 | 6 | 100 |
| 1143M32 | M32x1,5 | 45,0 | 41 | 7 | 50 |
| 1143M40 | M40x1,5 | 55,0 | 50 | 7 | 30 |
| 1143M50 | M50x1,5 | 65,0 | 60 | 8 | 30 |
| 1143M63 | M63x1,5 | 82,0 | 75 | 8 | 15 |

Add to Ref: N for Black, G for Dark Grey

2900



Material: NICKEL PLATED BRASS
(CuZn 40 Pb 3)
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A (factory fitted)
Protection: IP 68
Temperature range:
-25°C to +100°C (continuous)

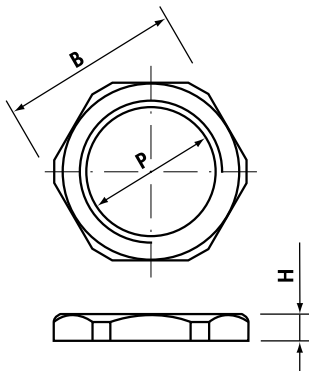
Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

| Type Nickel Plated Brass | P | Fixing Hole Ø (mm) | Ø A min-max (mm) | B Spanner (mm) | E (mm) | C (mm) | L min-max (mm) | Quantity |
|--------------------------|---------|--------------------|------------------|----------------|--------|--------|----------------|----------|
| 2900.M12N | M12x1,5 | 12,2 | 3 - 7 | 16 | 18 | 6,5 | 16-20 | 100 |
| 2900.M16N | M16x1,5 | 16,2 | 4,5-10 | 20 | 23 | 7,0 | 20-25 | 100 |
| 2900.M20N | M20x1,5 | 20,5 | 7 -13 | 24 | 27 | 8,0 | 20-27 | 50 |
| 2900.M25N | M25x1,5 | 25,4 | 10 -17 | 29 | 32 | 8,0 | 24-30 | 50 |
| 2900.M32N | M32x1,5 | 32,5 | 11 -21 | 36 | 40 | 9,0 | 27-34 | 25 |
| 2900.M40N | M40x1,5 | 40,5 | 19 -28 | 45 | 50 | 9,0 | 34-42 | 10 |
| 2900.M50N | M50x1,5 | 50,5 | 26 -35 | 54 | 60 | 10,0 | 35-43 | 8 |
| 2900.M63N | M63x1,5 | 64,0 | 34 -45 | 67 | 74 | 15,0 | 40-52 | 5 |

2033



Nickel plated brass locknuts.
Temperature range: de -25°C à +100°C (continuous)



Metric thread M 1.5 pitch CEI EN 60423

| Type Nickel Plated Brass | P | B Spanner (mm) | H (mm) | Quantity Box/Bag |
|--------------------------|---------|----------------|--------|------------------|
| 2033M12N | M12x1,5 | 16 | 2,8 | 2.000/100 |
| 2033M16N | M16x1,5 | 19 | 2,8 | 1.000/100 |
| 2033M20N | M20x1,5 | 24 | 3,0 | 600/100 |
| 2033M25N | M25x1,5 | 30 | 4,0 | 300/50 |
| 2033M32N | M32x1,5 | 36 | 4,0 | 250/25 |
| 2033M40N | M40x1,5 | 45 | 5,0 | 100/10 |
| 2033M50N | M50x1,5 | 60 | 5,0 | 100/10 |
| 2033M63N | M63x1,5 | 70 | 5,5 | 50/5 |



Yellow warning label with a high-pressure symbol and a 'no smoking' symbol.

Blue label with technical specifications:
Model: 1000
Capacity: 1000 ml
Pressure: 10 MPa
Flow rate: 10 l/min

Grey glove with text: "GRIP SIZE 100"





Grey sock with text: "GRIP SIZE 100"

HYDRAULIC CRIMPING AND CUTTING TOOLS



B450ND-BV



| TYPE | |
|--|-------------------|
|  PLUG EU | B450ND-BV |
|  PLUG UK | B450ND-BVE |
|  PLUG 230 | B450ND-BVA |
|  PLUG 230 | B450ND-BVT |

B450ND-BV hand-held cordless tools, characterised by a "Bilinear" mechanical design.

B450ND-BV is suitable for crimping electrical connectors onto conductor cross sections up to 150 mm² and uses the die sets common to all CEMBRE 45 kN tools and heads.

Equipped with Li-Ion 18.0V - 2.0Ah rechargeable high capacity batteries.

The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.

Weight and balance have been reconfigured to yield improvements in handling and convenience.

Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality.

It is also a feature that the operating data is stored on a memory card for transfer to PC by USB interface (SMARTOOL technology).

FEATURES





| | |
|--------------------|-------------------|
| crimping force | 50 kN |
| dimensions (LxWxH) | 364 x 79 x 126 mm |
| weight | 2.6 kg |

SALE SETUP

| | |
|-----------------|------------------|
| tool | B450ND-BV |
| batteries x2 | CB1820L |
| battery charger | ASC55-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| plastic case | VAL-P22 |

B500ND



| TYPE | |
|--|----------------|
|  PLUG EU | B500ND |
|  PLUG UK | B500NDE |
|  PLUG 230 | B500NDA |
|  PLUG 230 | B500NDT |

B500ND hand-held cordless tools, characterised by a "Bilinear" mechanical design. Equipped with a Smart Release system which automatically retracts the ram at the end of the operating cycle.

B500ND is suitable for crimping electrical connectors onto conductor cross sections up to 300 mm² and uses the die sets common to all CEMBRE 50kN tools and heads.

FEATURES

| | |
|--------------------|-------------------|
| crimping force | 60 kN |
| dimensions (LxWxH) | 396 x 79 x 126 mm |
| weight | 3.15 kg |

SALE SETUP

| | |
|-----------------|-----------------|
| tool | B500ND |
| batteries x2 | CB1820L |
| battery charger | ASC55-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| plastic case | VAL-P22 |

B500



| TYPE | |
|--|--------------|
|  PLUG EU | B500 |
|  PLUG UK | B500E |
|  PLUG 230 | B500A |
|  PLUG 115 | B500T |

The **B500** is suitable for a wide range of connectors up to 300 mm² using die sets common to the CEMBRE 50 kN tooling range.

Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.

The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.

FEATURES

| | |
|--------------------|-------------------|
| crimping force | 63 kN |
| dimensions (LxWxH) | 300 x 83 x 343 mm |
| weight | 4.2 kg |

SALE SETUP

| | |
|-----------------|-----------------|
| tool | B500 |
| batteries x2 | CB1852L |
| battery charger | ASC55-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| plastic case | VAL-P38 |

B600CND



B600CND is suitable for crimping electrical connectors onto conductor cross sections up to 300 mm².

Equipped with Li-Ion 18.0V - 2.0Ah rechargeable high capacity batteries. Head rotate by 180° for ease of operation in confined spaces.

The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before.

FEATURES

| | |
|--------------------|-------------------|
| crimping force | 60 kN |
| dimensions (LxWxH) | 398 x 79 x 126 mm |
| weight | 3.15 kg |

SALE SETUP

| | |
|-----------------|-----------------|
| tool | B600CND |
| batteries x2 | CB1820L |
| battery charger | ASC55-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| plastic case | VAL-P63 |

B600C



The **B600C** is a portable cordless tools that are characterized by even better functionality. The B600C is suitable for crimping cable lugs and connectors up to 300 mm².

Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.

The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.




FEATURES

| | |
|--------------------|-------------------|
| crimping force | 60 kN |
| dimensions (LxWxH) | 300 x 83 x 350 mm |
| weight | 4.5 kg |

SALE SETUP

| | |
|-----------------|-----------------|
| tool | B600C |
| batteries x2 | CB1852L |
| battery charger | ASC55-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| plastic case | VAL-P39 |

B600

| TYPE | |
|--|--------------|
|  PLUG EU | B600 |
|  PLUG UK | B600E |
|  PLUG 230 | B600A |



The **B600** is suitable for installing crimp type electrical connectors on copper cables up to 240 mm².

Die set common to 50 kN CEMBRE tools (e.g. HT51, RH50) can be used in this tool only with Spring code 6522051, purchased separately. Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.

The OLED display provides essential real time tool operating information data including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.

FEATURES

| | |
|--------------------|-------------------|
| crimping force | 63 kN |
| dimensions (LxWxH) | 347 x 83 x 344 mm |
| weight | 5.1 kg |

SALE SETUP

| | |
|-----------------|-----------------|
| tool | B600 |
| batteries x2 | CB1852L |
| battery charger | ASC55-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| plastic case | VAL-P40 |

B1300-C

| TYPE | |
|---|-----------------|
|  PLUG EU | B1300-C |
|  PLUG UK | B1300-CE |
|  PLUG CA | B1300-CA |
|  PLUG CT | B1300-CT |



B1300-C is suitable for a wide range of connectors up to 400 mm² using die sets common to the CEMBRE 130 kN tooling range.

Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.

The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.

FEATURES

| | |
|--------------------|----------------------|
| crimping force | 132 kN |
| jaw opening | 25 mm |
| dimensions (LxWxH) | 406 x 102.5 x 239 mm |
| weight | 6.8 kg |

SALE SETUP

| | |
|-----------------|-----------------|
| tool | B1300-C |
| batteries x2 | CB1852L |
| battery charger | ASC55-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| plastic case | VAL-P44 |

B1350-C

| TYPE | |
|---|-----------------|
|  PLUG EU | B1350-C |
|  PLUG UK | B1350-CE |
|  PLUG CA | B1350-CA |
|  PLUG CT | B1350-CT |



B1350-C B1350-C is suitable for a wide range of connectors up to 400 mm² using die sets common to the CEMBRE 130 kN tooling range.

Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.

The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.





FEATURES

| | |
|--------------------|-------------------|
| crimping force | 132 kN |
| jaw opening | 25 mm |
| dimensions (LxWxH) | 338 x 83 x 344 mm |
| weight | 6.5 kg |

SALE SETUP

| | |
|-----------------|-----------------|
| tool | B1350-C |
| batteries x2 | CB1852L |
| battery charger | ASC55-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| plastic case | VAL-P39 |

B1300L-C

| TYPE | |
|---|------------------|
|  PLUG EU | B1300L-C |
|  PLUG UK | B1300L-CE |
|  PLUG CA | B1300L-CA |
|  PLUG CT | B1300L-CT |

The B1300L-C version, featuring a large 42 mm jaw opening, for an easier introduction/removal of large size compression terminations and joints.

B1300L-C is suitable for a wide range of connectors up to 400 mm² using die sets common to the Cembre 130 kN tooling range.

Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.

The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.

FEATURES


| | |
|--------------------|----------------------|
| crimping force | 132 kN |
| jaw opening | 42 mm |
| dimensions (LxWxH) | 471 x 102.5 x 239 mm |
| weight | 8 kg |

SALE SETUP

| | |
|-----------------|-----------------|
| tool | B1300L-C |
| batteries x2 | CB1852L |
| battery charger | ASC55-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| plastic case | VAL-P44 |



B1350L-C

| TYPE | |
|---|------------------|
|  PLUG EU | B1350L-C |
|  PLUG UK | B1350L-CE |
|  PLUG CA | B1350L-CA |
|  PLUG CT | B1350L-CT |

B1350L-C is suitable for a wide range of connectors up to 400 mm² using die sets common to the CEMBRE 130 kN tooling range. Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.

The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.

FEATURES

| | |
|--------------------|-------------------|
| crimping force | 132 kN |
| jaw opening | 42 mm |
| dimensions (LxWxH) | 395 x 83 x 372 mm |
| weight | 8.1 kg |

SALE SETUP

| | |
|-----------------|-----------------|
| tool | B1350L-C |
| batteries x2 | CB1852L |
| battery charger | ASC55-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| plastic case | VAL-P39 |



B1300-UC

| TYPE | |
|--|------------------|
|  PLUG EU | B1300-UC |
|  PLUG UK | B1300-UCE |
|  PLUG 230 | B1300-UCA |
|  PLUG 120 | B1300-UCT |



B1300-UC will accept the accessories for performing the "Deep Stepped Indent" system of crimping on Aluminium cables. The B1300-UC will accept all semi-circular slotted dies, common to most 12 tons tools (U dies).

Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.

The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.

FEATURES

| | |
|--------------------|----------------------|
| crimping force | 132 kN |
| dimensions (LxWxH) | 423 x 102.5 x 239 mm |
| weight | 6.5 kg |

SALE SETUP

| | |
|-----------------|-----------------|
| tool | B1300-UC |
| batteries x2 | CB1852L |
| battery charger | ASC55-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| plastic case | VAL-P44 |

ON REQUEST

| | |
|-------------------------|----------------|
| metal case for the dies | VAL-130 |
|-------------------------|----------------|

B1350-UC

| TYPE | |
|--|------------------|
|  PLUG EU | B1350-UC |
|  PLUG UK | B1350-UCE |
|  PLUG 230 | B1350-UCA |
|  PLUG 120 | B1350-UCT |



B1350-UC will accept the accessories for performing the "Deep Stepped Indent" system of crimping on Aluminium cables. Supplied with adapter **AU130-C**, will accept all semi-circular slotted dies, common to most 12 tons tools (U dies).

Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.

The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.

FEATURES

| | |
|--------------------|-------------------|
| crimping force | 132 kN |
| dimensions (LxWxH) | 351 x 83 x 369 mm |
| weight | 6.3 kg |

SALE SETUP

| | |
|-----------------|-----------------|
| tool | B1350-UC |
| batteries x2 | CB1852L |
| battery charger | ASC55-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| plastic case | VAL-P39 |

HT45 HT45-E



Lightweight and compact, this tool is ideal for the compression of connectors for general applications.

Having the benefit of spring loaded handles, the dies can be advanced using only one hand; therefore leaving the other hand free to position the connector.

For ease of operation and comfort of the operator, the tool head can be fully rotated through 180 degrees.

The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and a pressure releasing system can easily be operated at any stage of the compression.

FEATURES

| | |
|------------------|--------------|
| crimping force | 50 kN |
| dimensions (LxH) | 380 x 130 mm |
| weight | 2.7 kg |

SALE SETUP HT45

| | |
|------|-------------|
| tool | HT45 |
|------|-------------|

ON REQUEST

| | |
|--------------|---------------|
| plastic case | VAL-P1 |
|--------------|---------------|

HT45-E tool is supplied with the plastic case.

SALE SETUP HT45-E

| | |
|--------------|---------------|
| tool | HT45 |
| plastic case | VAL-P1 |

HT51 HT51D



Two speed hydraulic tool, lightweight and compact, this tool is ideal for working in confined spaces.

Having the benefit of spring loaded handles, the dies can be advanced using only one hand; therefore leaving the other hand free to position the connector.

For ease of operation and comfort of the operator, the tool head can be fully rotated through 180 degrees. The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and a pressure release system can easily be operated at any stage of the compression.

FEATURES HT51

| | |
|------------------|--------------|
| crimping force | 50 kN |
| dimensions (LxH) | 380 x 130 mm |
| weight | 2.7 kg |

SALE SETUP HT51

| | |
|--------------|---------------|
| tool | HT51 |
| plastic case | VAL-P1 |

HT51D tool is more powerful than HT51 equipped with a pressure relief valve which intervenes when the maximum pressure of 725 bar is reached.

FEATURES HT51D

| | |
|------------------|--------------|
| crimping force | 64 kN |
| dimensions (LxH) | 380 x 130 mm |
| weight | 2.7 kg |

SALE SETUP HT51D

| | |
|--------------|---------------|
| tool | HT51D |
| plastic case | VAL-P1 |

HT120



This lightweight and self contained tool will accept the semi-circular slotted dies, common to most 130 kN tools. It is particularly suitable for installing crimp type electrical connectors for overhead line applications. The tool features a double speed action: a fast advancing speed for rapid approach of the dies to the connector and a slower more powerful speed for crimping. For ease of operation and comfort of the operator the tool head can be fully rotated through 180 degrees. The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and a pressure release system can easily be operated at any stage of the compression.

FEATURES

| | |
|------------------|--------------|
| crimping force | 120 kN |
| jaw opening | 25 mm |
| dimensions (LxH) | 488 x 138 mm |
| weight | 5.7 kg |

SALE SETUP

| | |
|--------------|---------------|
| tool | HT120 |
| plastic case | VAL-P3 |

HT131-C



This new model, self contained, robust and sturdy, will accept all semi-circular slotted dies, common to most 130 kN tools. The tool features a double speed action: a fast advancing speed for rapid approach of the dies to the connector and a slower more powerful speed for crimping. For ease of operation and comfort of the operator the tool head can be fully rotated through 180 degrees. The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and the pressure release system can easily be operated at any stage of compression.

FEATURES

| | |
|------------------|--------------|
| crimping force | 130 kN |
| jaw opening | 25 mm |
| dimensions (LxH) | 473 x 144 mm |
| weight | 5.5 kg |

SALE SETUP

| | |
|--------------|----------------|
| tool | HT131-C |
| plastic case | VAL-P3 |

HT131LN-C



This new model, self contained, robust and sturdy, will accept all semi-circular slotted dies, common to most 130 kN tools. The tool features a double speed action: a fast advancing speed for rapid approach of the dies to the connector and a slower more powerful speed for crimping. For ease of operation and comfort of the operator the tool head can be fully rotated through 180 degrees. The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and the pressure release system can easily be operated at any stage of compression.

FEATURES

| | |
|------------------|--------------|
| crimping force | 130 kN |
| jaw opening | 42 mm |
| dimensions (LxH) | 538 x 144 mm |
| weight | 7 kg |

SALE SETUP

| | |
|--------------|------------------|
| tool | HT131LN-C |
| plastic case | VAL-P3 |

HT131-UC



This robust and self contained tool will accept the accessories for performing the "Deep Stepped Indent" system of crimping on Aluminium cables.

This tool will also accept the semi-circular slotted dies, common to most 130 kN tools.

HT131-UC performance features are the same as those of HT131-C.

FEATURES

| | |
|------------------|--------------|
| crimping force | 130 kN |
| dimensions (LxH) | 488 x 149 mm |
| weight | 5.4 kg |

SALE SETUP

| | |
|--------------|-----------------|
| tool | HT131-UC |
| plastic case | VAL-P3 |

RH50



Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max.

RH50 is suitable for installing the same range of connectors as HT51. **HT51**.

FEATURES

| | |
|------------------------|-------------|
| crimping force | 50 kN |
| max operating pressure | 700 bar |
| dimensions (LxH) | 195 x 75 mm |
| weight | 1.6 kg |

SALE SETUP

| | |
|--------------|---------------|
| head | RH50 |
| plastic case | VAL-P1 |

ON REQUEST

| | |
|------------|----------------|
| canvas bag | CVB-007 |
|------------|----------------|

RH60C



Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max. RH60C is suitable for installing the same range of connectors as B600C and uses the same dies.

FEATURES

| | |
|------------------------|-------------|
| crimping force | 60 kN |
| max operating pressure | 700 bar |
| dimensions (LxH) | 216 x 91 mm |
| weight | 1.8 kg |

SALE SETUP

| | |
|--------------|----------------|
| head | RH60C |
| plastic case | VAL-P26 |

ON REQUEST

| | |
|------------|----------------|
| canvas bag | CVB-007 |
|------------|----------------|

RH61



A hydraulic presshead complete with a quick automatic coupler for connection to a hydraulic pump with a max operating pressure of 700 bar.

The **RH61** head develops a crimping force of 60 kN and is suitable for installing crimp type electrical connectors on copper cables up to 240 mm².

The RH 61 head uses the same dies as **B600**.

For the full range of dies available please contact CEMBRE.

It is also possible to use dies from other manufacturers type Gr.1.

FEATURES

| | |
|------------------------|---------------|
| crimping force | 60 kN |
| max operating pressure | 700 bar |
| dimensions (LxH) | 345 x 90.5 mm |
| weight | 2.75 kg |

SALE SETUP

| | |
|------------|-----------------|
| head | RH61 |
| metal case | VAL-RH60 |

ON REQUEST

| | |
|------------|----------------|
| canvas bag | CVB-007 |
|------------|----------------|

RHC131



Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max.

This new design with improved mechanical features, is suitable for installing the same range of connectors as **HT131-C**.

FEATURES

| | |
|------------------------|--------------|
| crimping force | 130 kN |
| max operating pressure | 700 bar |
| jaw opening | 25 mm |
| dimensions (LxH) | 232 x 124 mm |
| weight | 3.8 kg |

SALE SETUP

| | |
|------|---------------|
| head | RHC131 |
|------|---------------|

ON REQUEST

| | |
|--------------|----------------|
| plastic case | VAL-P26 |
|--------------|----------------|

RHC131LN



Hydraulic head featuring a large 42 mm jaw opening; complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max.

Is suitable for installing the same range of connectors as **HT131LN-C**.

FEATURES

| | |
|------------------------|--------------|
| crimping force | 130 kN |
| max operating pressure | 700 bar |
| jaw opening | 42 mm |
| dimensions (LxH) | 298 x 122 mm |
| weight | 5.4 kg |

SALE SETUP

| | |
|------|-----------------|
| head | RHC131LN |
|------|-----------------|

ON REQUEST

| | |
|--------------|----------------|
| plastic case | VAL-P26 |
|--------------|----------------|

ECW-H3D



Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max.

Adaptor type **AU230-130D** is available as an optional extra enabling the head to utilise the semi-circular slotted dies which are common to most 130 kN tools. Also available is a series of dies for the compression of DIN electrical connectors, and a die for cutting Copper, Aluminium, Alurey, Aluminium-Steel and Steel conductors.

FEATURES

| | |
|------------------------|--------------|
| crimping force | 230 kN |
| max operating pressure | 700 bar |
| dimensions (LxH) | 290 x 120 mm |
| weight | 5.5 kg |

SALE SETUP

| | |
|------|----------------|
| head | ECW-H3D |
|------|----------------|

ON REQUEST

| | |
|------------------------------|--------------------|
| metal case for head and dies | VAL-ECW-H3D |
|------------------------------|--------------------|

RHU240-3D-850



Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 850 bar max. Suitable to be used with B85MP36 hydraulic pump and PO8500 pump.

Adaptor type **AU240-130C** is available as an optional extra enabling the head to utilise the semi-circular slotted dies which are common to most 130 kN tools.

FEATURES

| | |
|------------------------|--------------|
| crimping force | 240 kN |
| max operating pressure | 850 bar |
| jaw opening | 25 mm |
| dimensions (LxH) | 283 x 129 mm |
| weight | 5.5 kg |

SALE SETUP

| | |
|------|----------------------|
| head | RHU240-3D-850 |
|------|----------------------|

ON REQUEST

| | |
|------------------------------|------------------|
| metal case for head and dies | VAL240-3D |
|------------------------------|------------------|

RHU520

Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max.

Adaptor type **AU520-130C** is available as an optional extra enabling the head to utilise the semi-circular slotted dies which are common to most 130 kN tools.



FEATURES

| | |
|------------------------|--------------|
| crimping force | 520 kN |
| max operating pressure | 700 bar |
| dimensions (LxH) | 306 x 200 mm |
| weight | 18 kg |

SALE SETUP




| | |
|------|---------------|
| head | RHU520 |
|------|---------------|

ON REQUEST

| | |
|---------------------|-------------------|
| metal case for head | VAL-520 |
| metal case for dies | VALMAT-520 |

B-TC250ND



| TYPE | |
|---|-------------------|
|  PLUG EU | B-TC250ND |
|  PLUG UK | B-TC250NDE |
|  PLUG US | B-TC250NDT |

B-TC250ND is specifically designed to cut Copper, Aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 25 mm.

The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. New Li-Ion 18.0V - 2.0Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.

The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button.

Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality.

Two batteries and charger included.

Same charger of all our tools.

Operating temperature: -15 to +50 ° C

FEATURES




| | |
|--------------------|-------------------|
| max cutting Ø mm | 25 mm |
| dimensions (LxWxH) | 401 x 79 x 126 mm |
| weight | 3.5 kg |

SALE SETUP

| | |
|-----------------|------------------|
| tool | B-TC250ND |
| batteries x2 | CB1820L |
| battery charger | ASC55-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| plastic case | VAL-P22 |

B-TC250



| TYPE | |
|---|-----------------|
|  PLUG EU | B-TC250 |
|  PLUG UK | B-TC250E |
|  PLUG US | B-TC250T |

B-TC250 18.0 V cordless hydraulic cutting tool specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 25 mm.

The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.

New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.

The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.

Operating temperature: -15 to +50 ° C

FEATURES




| | |
|--------------------|-------------------|
| max cutting Ø mm | 25 mm |
| dimensions (LxWxH) | 300 x 83 x 337 mm |
| weight | 4.65 kg |

SALE SETUP

| | |
|-----------------|-----------------|
| tool | B-TC250 |
| batteries x2 | CB1852L |
| battery charger | ASC55-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| plastic case | VAL-P40 |

B-TC250Y



| TYPE | |
|--|------------------|
|  PLUG EU | B-TC250Y |
|  PLUG UK | B-TC250YE |
|  PLUG 230 | B-TC250YA |

B-TC250Y 18.0 V cordless hydraulic cutting tool specifically designed cut Copper, Aldrey, Aluminium, Aluminium-Steel cables, steel ropes having a max overall diameter of 25 mm.

The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. New Li-Ion 18.0V - 2.0Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.

The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button. Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality.

Operating temperature: -15 to +50 °C

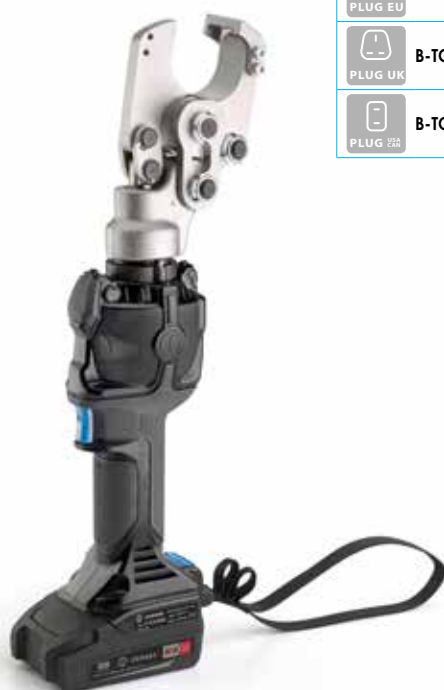
FEATURES




| | |
|--------------------|-------------------|
| max cutting Ø mm | 25 mm |
| dimensions (LxWxH) | 311 x 83 x 344 mm |
| weight | 4.8 kg |

SALE SETUP

| | |
|-----------------|-----------------|
| tool | B-TC250Y |
| batteries x2 | CB1852L |
| battery charger | ASC55-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| plastic case | VAL-P40 |

B-TC320ND



| TYPE | |
|--|-------------------|
|  PLUG EU | B-TC320ND |
|  PLUG UK | B-TC320NDE |
|  PLUG 230 | B-TC320NDA |

B-TC320ND is specifically designed to cut Copper, Aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 32 mm.

The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. New Li-Ion 18.0V - 2.0Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.

The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button. Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality.

Operating temperature: -15 to +50 °C

FEATURES




| | |
|--------------------|-------------------|
| max cutting Ø mm | 32 mm |
| dimensions (LxWxH) | 444 x 79 x 126 mm |
| weight | 3.95 kg |

SALE SETUP

| | |
|-----------------|------------------|
| tool | B-TC320ND |
| batteries x2 | CB1820L |
| battery charger | ASC55-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| plastic case | VAL-P48 |

B-TC320NDF



| TYPE | |
|--|--------------------|
|  PLUG EU | B-TC320NDF |
|  PLUG UK | B-TC320NDFE |
|  PLUG USA | B-TC320NDFA |

B-TC320NDF is specifically designed to cut Copper, Aluminium and telecommunication cable having a max overall diameter of 32 mm.

The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. New Li-Ion 18.0V - 2.0Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.

The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.

Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality.

Operating temperature: -15 to +50 ° C

FEATURES




| | |
|--------------------|-------------------|
| max cutting Ø mm | 32 mm |
| dimensions (LxWxH) | 443 x 79 x 126 mm |
| weight | 3.95 kg |

SALE SETUP

| | |
|-----------------|-----------------|
| batteries x2 | CB1820L |
| battery charger | ASC55-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| plastic case | VAL-P48 |

B-TC450



| TYPE | |
|--|-----------------|
|  PLUG EU | B-TC450 |
|  PLUG UK | B-TC450E |
|  PLUG USA | B-TC450A |

B-TC450 specifically designed to cut Copper, Aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 45 mm.

The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.

New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.

The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.

Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.

Operating temperature: -15 to +50 ° C

FEATURES

| | |
|--------------------|-------------------|
| max cutting Ø mm | 45 mm |
| dimensions (LxWxH) | 407 x 88 x 401 mm |
| weight | 6.7 kg |

SALE SETUP





| | |
|-----------------|-----------------|
| batteries x2 | CB1852L |
| battery charger | ASC55-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| plastic case | VAL-P40 |

ON REQUEST

| | |
|----------------------------|--------------------|
| bifilar cable cutting dies | MB40X4-TC04 |
|----------------------------|--------------------|

B-TC500



| TYPE | |
|--|-----------------|
|  PLUG EU | B-TC500 |
|  PLUG UK | B-TC500E |
|  PLUG 230 | B-TC500A |
|  PLUG 230 | B-TC500T |

B-TC500 18.0 V cordless hydraulic cutting tool specifically designed to cut Copper, Aluminium and telecommunication cable having a max overall diameter of 50 mm. The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. The head can rotate through 90 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.

Fitted with a maximum hydraulic pressure valve.

Designed with improved balance, B-TC500 is easily manageable during the cutting process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage.

Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.

FEATURES




| | |
|--------------------|-------------------|
| max cutting Ø mm | 50 mm |
| dimensions (LxWxH) | 405 x 83 x 398 mm |
| weight | 5.8 kg |

SALE SETUP

| | |
|-----------------|-----------------|
| batteries x2 | CB1852L |
| battery charger | ASC55-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| plastic case | VAL-P40 |

B-TC500Y



| TYPE | |
|--|------------------|
|  PLUG EU | B-TC500Y |
|  PLUG UK | B-TC500YE |
|  PLUG 230 | B-TC500YA |

B-TC500Y specifically designed to cut Copper, Aluminium, Aluminium-Steel cables (ACSR) having a max overall diameter of 50 mm. The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.

New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.

The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 90 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.

Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.

Operating temperature: -15 to +50 ° C

FEATURES





| | |
|--------------------|-------------------|
| max cutting Ø mm | 50 mm |
| dimensions (LxWxH) | 405 x 83 x 398 mm |
| weight | 5.8 kg |

SALE SETUP

| | |
|-----------------|-----------------|
| batteries x2 | CB1852L |
| battery charger | ASC55-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| plastic case | VAL-P40 |

B-TC500ND-SC



| TYPE | |
|--|----------------------|
|  PLUG EU | B-TC500ND-SC |
|  PLUG UK | B-TC500ND-SCE |
|  PLUG 230 | B-TC500ND-SCA |
|  PLUG 230 | B-TC500ND-SCT |

B-TC500ND-SC is specifically designed to cut Copper, Aluminium and telecommunication cable having a max overall diameter of 52,5 mm.

The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. New Li-Ion 18.0V - 2.0Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.

The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.

Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality.

Operating temperature: -15 to +50 ° C

FEATURES

| | |
|--------------------|-------------------|
| max cutting Ø mm | 52.5 mm |
| dimensions (LxWxH) | 529 x 79 x 135 mm |
| weight | 3.91 kg |

SALE SETUP

| | |
|-----------------|-----------------|
| batteries x2 | CB1820L |
| battery charger | ASC55-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| plastic case | VAL-P59 |

HT-TC026



Hand operated hydraulic tool specifically designed to cut Copper, Aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 25 mm.

The tool features a double speed action: a fast advancing speed for rapid approach of the blades to the cable and a slower more powerful speed for cutting.

The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow the cutting of running cables.

HT-TC026 features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be operated at any stage of operation.

FEATURES

| | |
|------------------|--------------|
| max cutting Ø mm | 25 mm |
| dimensions (LxH) | 382 x 129 mm |
| weight | 3.2 kg |

SALE SETUP

| | |
|------------|-----------------|
| tool | HT-TC026 |
| canvas bag | CVB-001 |

HT-TC026Y



Hand operated hydraulic tool specifically designed to cut Copper, Aldrey, Aluminium, Aluminium-Steel cables, stay wire and Steel ropes having a max overall diameter of 25 mm and Steel earthing rod up to 16 mm. The tool features a double speed action.

The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.

The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow the cutting of running cables.

HT-TC026Y features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be operated at any stage of operation.

FEATURES

| | |
|------------------|----------------|
| max cutting Ø mm | 25 mm |
| dimensions (LxH) | 394.5 x 129 mm |
| weight | 3.35 kg |

SALE SETUP

| | |
|------------|------------------|
| tool | HT-TC026Y |
| canvas bag | CVB-001 |

HT-TC041N



Hand operated hydraulic tool specifically designed to cut Copper, Aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 45 mm.

New model, even more self contained, robust and sturdy.

The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.

HT-TC041N features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be operated at any stage of operation.

FEATURES

| | |
|------------------|--------------|
| max cutting Ø mm | 45 mm |
| dimensions (LxH) | 550 x 144 mm |
| weight | 5.8 kg |

SALE SETUP

| | |
|--------------|------------------|
| tool | HT-TC041N |
| plastic case | VAL-P7 |

ON REQUEST

| | |
|----------------------------|--------------------|
| bifilar cable cutting dies | MB40X4-TC04 |
|----------------------------|--------------------|

HT-TC051



Hand operated hydraulic tool specifically designed to cut Copper, Aluminium and Telecommunications cable having a max overall diameter of 50 mm.

The tool features a double speed action: a fast advancing speed for rapid approach of the blades to the cable and a slower more powerful speed for cutting.

The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. The head can be easily opened to allow the cutting of running cables.

The head can rotate through 90 degrees, to enable the operator to work in the most comfortable position.

HT-TC051 features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be operated at any stage of operation.

FEATURES

| | |
|------------------|--------------|
| max cutting Ø mm | 50 mm |
| dimensions (LxH) | 497 x 129 mm |
| weight | 4.38 kg |

SALE SETUP

| | |
|------------|-----------------|
| tool | HT-TC051 |
| canvas bag | CVB-010 |

HT-TC051Y



Hand operated hydraulic tool specifically designed to cut Copper, Aluminium, Aluminium-Steel cables (ACSR) having a max overall diameter of 50 mm.

The **HT-TC051Y** is provided with a two stage hydraulic system, which advances the blades quickly to the cable. This proven system saves operator time and effort.

The HT-TC051Y is provided with an automatic safety valve to bypass oil when reaching max pressure.

This means safety to the operator and protection to the blades.

The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. The shape of the blades provides a "clean" cut. The head can be opened to allow cutting of running cables and ropes.

The head rotates 90 degrees allowing the operator to perform the cut in the most comfortable position.

FEATURES

| | |
|------------------|--------------|
| max cutting Ø mm | 50 mm |
| dimensions (LxH) | 503 x 129 mm |
| weight | 4.7 kg |

SALE SETUP

| | |
|------------|------------------|
| tool | HT-TC051Y |
| canvas bag | CVB-010 |

TC025



Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max.

TC025 has the same cutting capability as **HT-TC026**.

FEATURES

| | |
|------------------------|-------------|
| max cutting Ø mm | 25 mm |
| max operating pressure | 700 bar |
| dimensions (LxH) | 213 x 82 mm |
| weight | 2 kg |

SALE SETUP

| | |
|------------|----------------|
| head | TC025 |
| canvas bag | CVB-007 |

TC04N



Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max.

TC04N has the same cutting capability as **HT-TC041N**.

FEATURES

| | |
|------------------------|--------------|
| max cutting Ø mm | 45 mm |
| max operating pressure | 700 bar |
| dimensions (LxH) | 311 x 100 mm |
| weight | 4 kg |

SALE SETUP

| | |
|------------|---------------|
| head | TC04N |
| metal case | VAL-04 |

ON REQUEST

| | |
|----------------------------|--------------------|
| bifilar cable cutting dies | MB40X4-TC04 |
|----------------------------|--------------------|

TC050



Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max.

TC050 features the same cutting capability as **HT-TC051**.

FEATURES

| | |
|------------------------|--------------|
| max cutting Ø mm | 50 mm |
| max operating pressure | 700 bar |
| dimensions (LxH) | 325 x 112 mm |
| weight | 3.2 kg |

SALE SETUP

| | |
|------------|----------------|
| head | TC050 |
| canvas bag | CVB-011 |

TC050Y



Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max.

TC050Y features the same cutting capability as **HT-TC051Y**.

FEATURES

| | |
|------------------------|--------------|
| max cutting Ø mm | 50 mm |
| max operating pressure | 700 bar |
| dimensions (LxH) | 331 x 112 mm |
| weight | 3.3 kg |

SALE SETUP

| | |
|------------|----------------|
| head | TC050Y |
| canvas bag | CVB-011 |

B70M-P36

| TYPE | |
|---|------------------|
|  PLUG EU | B70M-P36 |
|  PLUG UK | B70M-P36E |
|  PLUG Schuko | B70M-P36A |
|  PLUG TSA | B70M-P36T |

Pumps **B70M-P36** are powered by an all new 36.0V 6.2Ah Li-Ion high capacity rechargeable battery providing independence and portability.

Extremely compact and suitable for a wide range of applications. The new design and ergonomic weight distribution allows the pump to be easily handled during use. Quieter operation, and the absence of vibrations ensure maximum operator comfort. The CEMBRE logo acts as an indicator by changing colour to provide the operator with instantaneous visual confirmation of the pumps status, such as; pump ready, pump in use, end of cycle, cycle error, anomaly, maintenance required.



FEATURES

| | |
|------------------------|--------------------|
| max operating pressure | 700 bar |
| dimensions (LxWxH) | 405 x 161 x 327 mm |
| weight | 10 kg |

SALE SETUP




| | |
|---------------------------------|------------------|
| portable electro-hydraulic pump | ✓ |
| remote control | ERCH |
| 3 m flexible hose | ✓ |
| battery 36 V - 6,2 Ah Li-Ion | CB3662L |
| battery charger | ASC145-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| canvas rucksack | CVB-037 |

ON REQUEST

| | |
|---|----------------|
| remote hand controller integrated with 3 m length flexible hose | ERCH-WH |
| canvas rucksack | TRS-B70 |
| hook for hanging the pump from a ladder | SH-B70 |
| durable transport case for pump and accessories | VAL-P18 |
| portable remote foot control | RCP-B70 |



B70M-P36-CH

| TYPE | |
|--|---------------------|
|  PLUG EU | B70M-P36-CH |
|  PLUG UK | B70M-P36E-CH |
|  PLUG USA | B70M-P36A-CH |

Pumps **B70M-P36-CH** are powered by an all new 36.0V 6.2Ah Li-Ion high capacity rechargeable battery providing independence and portability. Extremely compact and suitable for a wide range of applications. The new design and ergonomic weight distribution allows the pump to be easily handled during use. Quieter operation, and the absence of vibrations ensure maximum operator comfort. The CEMBRE logo acts as an indicator by changing colour to provide the operator with instantaneous visual confirmation of the pumps status, such as; pump ready, pump in use, end of cycle, cycle error, anomaly, maintenance required.



| FEATURES | |
|------------------------|--------------------|
| max operating pressure | 700 bar |
| dimensions (LxWxH) | 405 x 161 x 327 mm |
| weight | 10 kg |

| SALE SETUP | |
|---|------------------|
| portable electro-hydraulic pump | ✓ |
| remote hand controller integrated with 3 m length flexible hose | ERCH-WH |
| battery 36 V - 6,2 Ah Li-Ion | CB3662L |
| battery charger | ASC145-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| canvas rucksack | CVB-037 |

| ON REQUEST | |
|---|----------------|
| canvas rucksack | TRS-B70 |
| hook for hanging the pump from a ladder | SH-B70 |
| durable transport case for pump and accessories | VAL-P18 |
| portable remote foot control | RCP-B70 |



CRIMPING
RH50
RHC131



TFC WIRE CUTTING
RH-TFC



RAIL BONDING
RHTEP-S



HIGH CRIMPING
ECW-H3D
RHU520





CUTTING
TC025
TC04N
TC050



NUT SPLITTING
RHTD270
RHTD410T



B85M-P36

| TYPE | |
|--|------------------|
|  PLUG EU | B85M-P36 |
|  PLUG UK | B85M-P36E |
|  PLUG USA | B85M-P36A |

Pumps **B85M-P36** are powered by an all new 36.0V 6.2Ah Li-Ion high capacity rechargeable battery providing independence and portability.

Extremely compact and suitable for a wide range of applications. The new design and ergonomic weight distribution allows the pump to be easily handled during use. Quieter operation, and the absence of vibrations ensure maximum operator comfort. The CEMBRE logo acts as an indicator by changing colour to provide the operator with instantaneous visual confirmation of the pumps status, such as; pump ready, pump in use, end of cycle, cycle error, anomaly, maintenance required.



FEATURES

| | |
|------------------------|--------------------|
| max operating pressure | 850 bar |
| dimensions (LxWxH) | 405 x 161 x 327 mm |
| weight | 10 kg |

SALE SETUP

| | |
|---------------------------------|------------------|
| portable electro-hydraulic pump | ✓ |
| remote control | ERCH |
| 3 m flexible hose | ✓ |
| battery 36 V - 6,2 Ah Li-Ion | CB3662L |
| battery charger | ASC145-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| canvas rucksack | CVB-037 |

ON REQUEST

| | |
|---|----------------|
| remote hand controller integrated with 3 m length flexible hose | ERCH-WH |
| canvas rucksack | TRS-B70 |
| hook for hanging the pump from a ladder | SH-B70 |
| durable transport case for pump and accessories | VAL-P18 |
| portable remote foot control | RCP-B70 |






CRIMPING

RHU240-3D-850



B85M-P36-CH

| TYPE | |
|--|---------------------|
|  PLUG EU | B85M-P36-CH |
|  PLUG UK | B85M-P36E-CH |
|  PLUG USA | B85M-P36A-CH |

Pumps **B85M-P36-CH** are powered by an all new 36.0V 6.2Ah Li-Ion high capacity rechargeable battery providing independence and portability. Extremely compact and suitable for a wide range of applications. The new design and ergonomic weight distribution allows the pump to be easily handled during use. Quieter operation, and the absence of vibrations ensure maximum operator comfort. The CEMBRE logo acts as an indicator by changing colour to provide the operator with instantaneous visual confirmation of the pumps status, such as; pump ready, pump in use, end of cycle, cycle error, anomaly, maintenance required.



FEATURES

| | |
|------------------------|--------------------|
| max operating pressure | 850 bar |
| dimensions (LxWxH) | 405 x 161 x 327 mm |
| weight | 10 kg |

SALE SETUP

| | |
|---|------------------|
| portable electro-hydraulic pump | ✓ |
| remote hand controller integrated with 3 m length flexible hose | ERCH-WH |
| battery 36 V - 6,2 Ah Li-Ion | CB3662L |
| battery charger | ASC145-EU |
| USB cable | ✓ |
| shoulder strap | ✓ |
| canvas rucksack | CVB-037 |

ON REQUEST

| | |
|---|----------------|
| canvas rucksack | TRS-B70 |
| hook for hanging the pump from a ladder | SH-B70 |
| durable transport case for pump and accessories | VAL-P18 |
| portable remote foot control | RCP-B70 |







CRIMPING

RHM240-3D-850



HYDRAULIC CRIMPING AND CUTTING TOOLS

B68M-P18

| TYPE | |
|---|------------------|
|  PLUG EU | B68M-P18 |
|  PLUG UK | B68M-P18E |
|  PLUG CH | B68M-P18A |
|  PLUG US | B68M-P18T |

B68M-P18 is a lightweight high capacity pump equipped with an innovative remote control suitable for a wide range of applications.

Li-Ion 18V 5.2 Ah batteries offer a high capacity, while improved operating speed results from a revitalised hydraulic system with double speed action.

A maximum pressure sensor assures greater precision and repeatability of the pressure cycle, while a security valve doubles the provision for operator safety.



FEATURES

| | |
|------------------------|--------------------|
| max operating pressure | 700 bar |
| dimensions (LxWxH) | 364 x 186 x 236 mm |
| weight | 5,6 kg |

SALE SETUP

| | |
|--|-----------------|
| remote control provides LED working lights and an OLED display | ✓ |
| 2 m flexible hose | ✓ |
| batteries x2 | CB1852L |
| battery charger | ASC55-EU |
| shoulder strap | ✓ |
| canvas bag | CVB-031 |



CRIMPING

RH50
RHC131



TFC WIRE CUTTING

RH-TFC



RAIL BONDING

RHTEP-S



HIGH CRIMPING

ECW-H3D



CUTTING



TC025
TC04N
TC050



NUT SPLITTING

RHTD270
RHTD410T

B1300PL

| TYPE | |
|---|-----------------|
|  PLUG EU | B1300PL |
|  PLUG UK | B1300PLE |
|  PLUG CH | B1300PLA |
|  PLUG AU | B1300PLT |

Portable electro-hydraulic pump **B1300PL** is battery operated for independent use. Having the inherent strengths of the CEMBRE 18V tool range the B1300PL is a compact, lightweight pump suitable for a wide range of applications. Li-Ion 18 V 5.2 Ah batteries offer a high capacity, while improved operating speed results from a revitalised hydraulic system with double speed action. A security valve assures operator safety. Designed with improved handling characteristics, B1300PL is easily manageable during the operating process.



FEATURES

| | |
|------------------------|--------------------|
| max operating pressure | 700 bar |
| dimensions (LxWxH) | 354 x 103 x 240 mm |
| weight | 4 kg |

SALE SETUP

| | |
|---------------------|-----------------|
| 0,9 m flexible hose | ✓ |
| battery | CB1852L |
| battery charger | ASC55-EU |
| shoulder strap | ✓ |
| canvas bag | VAL-P51 |



CRIMPING

RH50
RHC131



TFC WIRE CUTTING

RH-TFC



RAIL BONDING

RHTEP-S



CUTTING

TC025
TC04N
TC050



NUT SPLITTING

RHTD270
RHTD410T

HYDRAULIC CRIMPING AND CUTTING TOOLS

PO7000

Foot operated double speed pump, developing a maximum pressure of 700 bar.

The pump is supplied with 3 m long high pressure flexible hose complete with female self-lock quick coupler.

Pressure can be withdrawn at any time during operation by depressing the release lever.

A solid shaped stand gives the pump stability during operation.



FEATURES

| | |
|------------------------|--------------------|
| max operating pressure | 700 bar |
| dimensions (LxWxH) | 680 x 200 x 163 mm |
| weight | 9.8 kg |

SALE SETUP

| | |
|---------------|----------------|
| pump | PO7000 |
| flexible hose | ✓ |
| plastic case | VAL-P21 |

PO8500

Foot operated double speed pump, developing a maximum pressure of 850 bar.

The pump is supplied with 3 m long high pressure flexible hose complete with female self-lock quick coupler.

Pressure can be withdrawn at any time during operation by depressing the release lever.

A solid shaped stand gives the pump stability during operation.

PO8500 can be mounted on a ladder and depending of the work the position of the pumping pedal can be rotated very easily.



FEATURES

| | |
|------------------------|---------------------|
| max operating pressure | 850 bar |
| dimensions (LxWxH) | 689 x 200 x 2103 mm |
| weight | 9.9 kg |

SALE SETUP

| | |
|---------------|---------------|
| pump | PO8500 |
| flexible hose | ✓ |
| metallic case | VAL-22 |

| BATTERY | TYPE | V - Ah | TECHNOLOGY |
|--|---------|---------------|------------|
|  | CB1820L | 18 V - 2.0 Ah | |
|  | CB1852L | 18 V - 5.2 Ah | |
|  | CB1880L | 18 V - 8.0 Ah | Li-Ion |
|  | CB3662L | 36 V - 6.2 Ah | |
|  | CB3680L | 36 V - 8 Ah | |

| BATTERY CHARGER | PLUG | TYPE | INPUT | OUTPUT |
|---|---|-----------------|--------------------------|--------|
|  |  | ASC55-EU | 220 - 240 V | 85 W |
| |  | ASC55-UK | 220 - 240 V | 85 W |
| |  | ASC30-36-USA/CA | 115 V | 85 W |
| |  | ASC30-36-AUS/NZ | 220 - 240 V | 85 W |
|  |  | ASC145-EU | 220 - 240 V / 50 - 60 Hz | 190 W |
| |  | ASC145-UK | 220 - 240 V / 50 - 60 Hz | 190 W |
| |  | ASC145-USA/CA | 115 V / 60 Hz | 190 W |
| |  | ASC145-AUS/NZ | 220 - 240 V / 50 - 60 Hz | 190 W |



MECHANICAL TOOLS



SC1

Electricians scissors with high tensile steel blades allowing for excellent strength and performance. Specially micro-serrated blades for anti-slip purpose. Handles are made from dual component materials.



APPLICATION

flexible conductors Cu - Al

SC5X

Professional scissors with special Steel frame, high hardness blades (58 HRC) and anti slide serrations. The moulded plastic handles combine a rigid structure with a softer material for finger comfort. Supplied with carry case and swivel belt hook.



APPLICATION

flexible conductors Cu - Al up to 50 mm²

SC3X

Multi-purpose scissors with high hardness blades (56 HRC) and anti slide serrations. The moulded plastic handles combine a rigid structure with a softer material for finger comfort. Cutting of flexible conductors up to 35 mm².



APPLICATION

flexible conductors Cu - Al up to 35 mm²

SC6X

Only 86 g weight, the tapered blades and streamlined handles encourage agility and speed of operation. Handles have an integrated crimping system for end sleeves. high hardness blades (58 HRC) and anti slide serrations.



APPLICATION

flexible conductors Cu - Al up to 50 mm²

KT1 KT2



APPLICATION

| cables | rigid mm ² | | multi-cond. mm ² | | flex mm ² |
|------------|-----------------------|----|-----------------------------|----|----------------------|
| | Cu | Al | Cu | Al | Cu |
| KT1 | 16 | 35 | 50 | 50 | 70 |
| KT2 | 16 | 50 | 50 | 70 | 95 |

KT3N KT4N



APPLICATION

| | |
|-------------|-----------------------------|
| KT3N | Cu & Al cable up to Ø 34 mm |
| KT4N | Cu & Al cable up to Ø 62 mm |

KT5



APPLICATION

Cu & Al cable up to 25 mm²

5116660250 5116660500



APPLICATION

| | |
|-------------------|-------------------------------|
| 5116660250 | Cu & Al cable up to Ø 18 mm |
| 5116660500 | Cu & Al cable up to Ø 25,4 mm |

HB8



APPLICATION

PVC insulated cables 0,2 ÷ 6 mm²

HB5



APPLICATION

PVC insulated cables 0,25 ÷ 6 mm²

HB6

APPLICATION

cable stripping for photovoltaic 2,5 ÷ 6 mm²
stripping length 8,5 mm

SELL SETUP

Wire strippers for including stripping **HB6**
• flat blade for PVC cables 0.02 ÷ 10 mm² **4320-0864**

ACCESSORIES ON REQUEST

• flat blade for PVC cables 0.02 ÷ 10 mm² **4320-0864**
• 'V' blades for PTFE cables 0,1÷4 mm² **4320-0865**
• rounded blades for PVC cables 4 ÷ 16 mm² **4320-0866**



HS7



SELL SETUP

sealing pliers with aluminium joints and steel cable

SE700

Complete kit consisting of 15 m stainless steel cable and 100 neutral joints in a practical plastic box.



SELL SETUP

KIT 15 m stainless steel cable & 100 joints SE7

Crimpstar®

Manual tool, compact and easy to use, equipped with treated steel crimp jaws with high mechanical properties, factory-set ratchet for crimping control (automatic handle opening upon completion of crimping operation), emergency release lever which, if necessary, opens the crimp jaws before their complete closure, ergonomically designed non-slip moulded plastic grips.

HP1



APPLICATION

PVC, PC and PA6.6 insulated terminals and connectors 0,2 ÷ 2,5 mm²

HP3



APPLICATION

PVC, PC and PA6.6 insulated terminals and connectors 0,25 ÷ 6 mm²

HNN3



APPLICATION

PA6.6 insulated terminals and connectors 1,5 ÷ 10 mm²

HNN4



APPLICATION

PA6.6 insulated terminals and connectors 10 ÷ 16 mm²

HPH1



APPLICATION

through connectors PE HD insulated, heat shrinkable 0,5 ÷ 6 mm²
PA6.6 connectors NL-M, NL-P 0,25 ÷ 6 mm²

HNKE4



APPLICATION

end sleeves 0,5 ÷ 4 mm²

HNKE16



APPLICATION

end sleeves 4 ÷ 16 mm²

HNKE50



APPLICATION

end sleeves 25 - 35 - 50 mm²

HN1



APPLICATION
uninsulated terminals and connectors $0,25 \div 10 \text{ mm}^2$

HN5



APPLICATION
uninsulated terminals and connectors $10 \div 16 \text{ mm}^2$

HN-A25



APPLICATION
uninsulated terminals and connectors A-M, L-M and L-P $10 \div 25 \text{ mm}^2$

HN-D25



APPLICATION
Cu tube lugs DR (DIN 46235) and through connectors DSV (DIN 46267)

HF1



APPLICATION
open barrel brass terminals $0.5 \div 4 \text{ mm}^2$

HF2



APPLICATION
open barrel brass terminals $0.08 \div 1.3 \text{ mm}^2$

HX1



APPLICATION
coaxial connectors type RG58, RG59, RG62 and RG 71

ZKE610N

APPLICATION
PA6.6 end sleeves $0.1 \div 10 \text{ mm}^2$



ZKE616N

APPLICATION
PA6 end sleeves $0.1 \div 16 \text{ mm}^2$



SDC



Deep point socket



Hexagonal lever point

Reduced shank diameter

Socket screwdriver with deep execution and reduced wall equipped with an ergonomic handle, useful for use under stress. The reduced external wall allows the tool to be used in spaces with narrow seats (relays and switches). The deep groove sleeve can be used on long threads. The hexagonal insert on the outside of the bush facilitates effort in critical conditions.

Standard: ISO 6750 - ISO 2236



| TYPE | HEAD DIMENSIONS mm | BLADE LENGTH mm | TOTAL LENGTH mm | WEIGHT gr |
|---------------|--------------------|-----------------|-----------------|-----------|
| SDC7X125-HEX | 7 | 125 | 243 | 97 |
| SDC8X125-HEX | 8 | 125 | 243 | 114 |
| SDC9X125-HEX | 9 | 125 | 243 | 132 |
| SDC10X125-HEX | 10 | 125 | 243 | 152 |

KRS



Socket set 1/4" drive KRS47 in Chromium-vanadium steel. Standard: UNI ISO 3315 - DIN 3122




| TYPE | KIT DIMENSIONS mm | | | WEIGHT gr |
|-------|-------------------|-------|--------|-----------|
| | LENGTH | WIDTH | HEIGHT | |
| KRS47 | 285 | 136 | 44 | 1.655 |

| SELL SETUP | QUANTITY |
|--|----------|
| reversible ratchet wrench with socket retention system | 1 |
| extensions | 2 |
| articulated joint | 1 |
| T bar with sliding handle | 1 |
| screwdriver style holder | 1 |
| sockets 4 to 14 mm | 13 |
| extended sockets 8 to 13 mm | 4 |
| screwdriver sockets 4 to 6.5 mm | 3 |
| screwdriver sockets PH1, PH2, PH3 | 3 |
| screwdriver sockets PZ1, PZ2, PZ3 | 3 |
| hex socket spanners 3 to 8 mm | 6 |
| hex Allen keys 1.5 to 5 mm | 3 |
| torx socket keys T10 to T40 | 6 |
| metal case | 1 |

IDENTIFICATION FOR RAILWAY APPLICATIONS



ROLLY3000

| TYPE | |
|--|---------|
|  ROLLY3000 | PLUG EU |
|  ROLLY3000E | PLUG UK |
|  ROLLY3000A | PLUG JP |



ROBUST AND QUIET

RELIABLE: intensive operation in an office or factory environment
EASY TO SET-UP: has the facility to optimise printer set-up according to the media selected. The optimized printing speed allows for 4,000 cable tags in less than 2 minutes, with an autonomy of over 140,000 tags with a ribbon only.



ROLLY2000TR2

Designed to optimise printing simultaneously on both sides of TERMO-ROLL heat shrinkable tubing in ladder format on a roll.

IDENTIFICATION FOR RAILWAY APPLICATIONS

RIBBON

| Family | Type | | | | | | Print area mm | Width mm | Length m | Quantity |
|------------------|--------|--------|--------|--------|--------|--------|---------------|----------|----------|----------|
| | black | blue | red | green | grey | white | | | | |
| TPS-060 | 842112 | 842113 | 842115 | 842114 | 842116 | | 105 | 112 | | 1 |
| | 842132 | | | | | | | 30 | 200 | 1 |
| | 842162 | | | | | | | 60 | | 1 |
| TPPS-060 PREMIUM | 842212 | | | | | 842222 | 105 | 110 | 300 | 1 |
| TRR-055 | 842121 | | | | | | 60 | 60 | 350 | 1 |
| TRPR-060 PREMIUM | 844121 | | | | | | 60 | 60 | 350 | 1 |



consult the online catalogue for other identification products

CABLE TAGS



CABLE TAGS PRECUT 4 mm
PUSH IN



TPM-ROLL

CABLE TAGS PRECUT
TIE ON



ETF-ROLL

WRAPAROUND CABLE MARKERS



KM-ROLL

HEAT SHRINK TUBING
SINGLE & BOTH SIDES PRINTING



TERMO-ROLL

LEGENDS



15 mm
PRECUT



TAP-ROLL

15 mm
PRECUT



TAP-ROLL

LABELS

LABELS PRECUT
SELF ADHESIVE



TTL

LABELS PRECUT
SELF ADHESIVE



TTL

CABLE TAGS WITH HOLDERS



precut 4mm push in markers, on a roll

TPM-ROLL tags are used for marking cables, conduit, tubes, conductors and components. Presented in stem format, tags are simply snapped off their stems and inserted into the appropriate holders.

Material: Rigid PVC, self extinguishing class V0: UL94
Operating temperature range: -30°C to +60°C

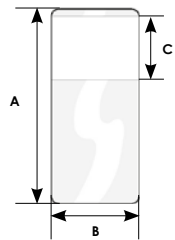
| Size mm | Type | | Quantity |
|---------|--------|--------|----------|
| | white | yellow | |
| 4x10 | 44090B | 44040B | 16.356 |
| 4x12 | 44091B | 44041B | 12.552 |
| 4x15 | 44092B | 44042B | 12.552 |
| 4x20 | 44093B | 44043B | 10.200 |
| 4x30 | 44096B | 44046B | 6.270 |
| 4x40 | 44097B | 44047B | 5.005 |

WRAPAROUND CABLE MARKERS



self adhesive, precut, Halogen Free

KM-ROLL wraparound cable markers are suitable for identifying large diameter cables, tubes and conduit. Printing on Rolly3000, is exceptionally clear and legible and is protected from chemical and atmospheric agents.



Material: Polyester film
Operating temperature range: -40°C to +130°C
Application temperature range: +10°C to +40°C



| Family | Overall length A mm | Wrapping diameter mm | Print area CxB mm | Type | | Quantity |
|------------|---------------------|----------------------|-------------------|-----------------|------------------|----------|
| | | | | white PO99006TR | yellow PO99006TR | |
| KM-ROLL019 | 19 | 2 ÷ 3 | 9 x 13 | 61962-013N | 61462-013N | 7.000 |
| | | | 9 x 15 | 61955-015N | 61455-015N | 8.500 |
| KM-ROLL025 | 25 | 2,6 ÷ 4,1 | 9 x 23 | 61955-023N | 61455-023N | 6.800 |
| | | | 10 x 15 | 61950-015N | 61450-015N | 6.000 |
| KM-ROLL038 | 38 | 4,3 ÷ 7 | 10 x 23 | 61950-023N | 61450-023N | 4.800 |
| | | | 15 x 15 | 61951-015N | 61451-015N | 4.500 |
| KM-ROLL050 | 50 | 6 ÷ 10 | 15 x 23 | 61951-023N | 61451-023N | 3.600 |
| | | | 25 x 15 | 61952-015N | 61452-015N | 3.000 |
| KM-ROLL075 | 75 | 8 ÷ 14 | 25 x 23 | 61952-023N | 61452-023N | 2.400 |
| | | | 25 x 15 | 61953-015N | 61453-015N | 2.400 |
| KM-ROLL100 | 100 | 12 ÷ 20 | 25 x 23 | 61953-023N | 61453-023N | 1.920 |
| | | | 25 x 50 | 61953-050N | 61453-050N | 1.000 |
| | | | 32 x 38 | 61953-038N | 61453-038N | 1.000 |

CABLE & CONDUIT TAGS TIE-ON



precut, one piece markers

ETF-ROLL tags are used with cable ties for marking large diameter cables, hoses, tubes and conduit.

ETF-ROLL-SBS

Material: SBS Styrene-Butadiene-Styrene, Halogen free
Operating temperature range: -30°C to +70°C

| Size mm | Ø min cable mm | Type | | | | | | | | | | Quantity |
|---------|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|----------|
| | | white | yellow | grey | red | orange | green | blue | pink | marrone | black | |
| 13x57 | 6 | 44192-SBS | 44142-SBS | | 44122-SBS | 44132-SBS | 44152-SBS | 44162-SBS | 44172-SBS | 44172BR-SBS | 44112-SBS | 1.775 |
| 20x65 | 8 | 44495-SBS | 44445-SBS | | 44425-SBS | 44435-SBS | 44455-SBS | 44465-SBS | | | | 1.000 |
| 20x125 | 8 | 44494-SBS | | | | | | | | | | 500 |
| 25x100 | 12 | 44193-SBS | 44143-SBS | 44183-SBS | 44123-SBS | | 44153-SBS | 44163-SBS | | | 44113-SBS | 400 |

ETF-ROLL-HF

Material: Polycarbonate PC, Halogen Free, self extinguishing class V0: UL94; the colours white PC10040WH and yellow PC10040YE are EN 45545-2 approved
Operating temperature range: -40°C to +130°C

| Size mm | Ø min cable mm | Type | | | | | | Quantity |
|---------|----------------|-----------------|------------------|----------|----------|----------|----------|----------|
| | | white PC10040WH | yellow PC10040YE | red | blue | green | orange | |
| 13x57 | 6 | 44192-HF | 44142-HF | 44122-HF | 44162-HF | 44152-HF | 44132-HF | 1.775 |



ETF-ROLL-TPU

Material: Thermoplastic-Polyether-Polyurethane TPU, Halogen Free, Flame Retardant, self extinguishing class V0: UL94
Operating temperature range: -25°C to +80°C

| Size mm | Ø min cable mm | Type | | | | | | | | Quantity |
|---------|----------------|-------|--------|-------|------------|-------|-------|--------|-------|----------|
| | | white | yellow | red | light blue | blue | green | orange | black | |
| 10x60 | 6 | 44390 | 44340 | 44320 | 44360L | | 44350 | 44330 | 44310 | 1.000 |
| 27x40 | 20 | 44293 | 44243 | 44223 | | 44263 | | 44233 | 44213 | 1.000 |

LEGENDS



precut

TAR-ROLL tags are used for marking cables, conduit, tubes, conductors and components.

Material: Rigid PVC, self extinguishing class V0: UL94
Operating temperature range: -30°C to +60°C

| Family | Size mm | Type | | Quantity |
|----------|---------|-------|--------|----------|
| | | white | yellow | |
| TAR-ROLL | 9x15 | 75094 | 75044 | 7.500 |
| | 9x20 | 75098 | | 5.800 |
| | 9x35 | 75095 | 75045 | 3.000 |
| | 9x70 | 75099 | 75049 | 1.450 |

Material: Polycarbonate PC, Halogen Free, self extinguishing class V0: UL94; the colours white PC10040WH and yellow PC10040YE are EN 45545-2 approved
Operating temperature range: -40°C to +130°C

| Family | Size mm | Type | | | | | Quantity |
|-------------|---------|-----------------|------------------|----------|---------------|----------|----------|
| | | white PC10040WH | yellow PC10040YE | blue | green Siemens | orange | |
| TAR-ROLL-HF | 15x40 | 75096-HF | 75046-HF | 75066-HF | 75056SGN-HF | 75036-HF | 2.250 |

see the accessories section to be used with the tags

LEGENDS



precut

TAP-ROLL legends are particularly versatile for identifying cables, conduit, push buttons, machinery, components, etc. Consult us for availability of other colours.

Note: UV resistance may vary between colours.

Material: Rigid PVC, self extinguishing class V0: UL94

Operating temperature range: -30°C to +60°C

| Family | Size mm | Type | | Quantity |
|----------|---------|-------|--------|----------|
| | | white | yellow | |
| TAP-ROLL | 15x27 | 37290 | 37240 | 3.200 |
| | 15x49 | 37291 | 37241 | 1.125 |

HEAT SHRINKABLE TUBING HIGH GRADE 3:1 DIESEL RESISTANT

Ladder and continuous, shrinkage ratio 3:1

TERMO-ROLL D3 heat shrinkable tubes are made of DIESEL RESISTANT heat shrinkable Polyolefin tubing with ideal printability properties for identification purpose, which provides fluid resistance as per NF-F00-608.

Ideal for applications where diesel resistance characteristics are required, as per ALSTOM and BOMBARDIER and other rolling stock application.

Material: Extruded, cross linked Polyolefin, shrinkage ratio 3:1

Temperature range: -40°C to +125°C

Minimum shrinkage temperature: > +90°C

| Internal Ø before shrinking mm | Cable ext. Ø range mm | Cable c.s.a range mm ² | Type | | Length mm | Tubes per step | Quantity |
|--------------------------------|-----------------------|-----------------------------------|--------------|--------------|-----------|----------------|----------|
| | | | white | yellow | | | |
| 2,4 | 1,6÷2 | 0,25÷0,5 | D3-24-25-WH | D3-24-25-YE | 25 | 2 | 2.000 |
| | | | D3-24-50-WH | D3-24-50-YE | 50 | 1 | 1.000 |
| | | | D3-32-25-WH | D3-32-25-YE | 25 | 2 | 2.000 |
| 3,2 | 1,8÷2,8 | 0,5÷1 | D3-32-50-WH | D3-32-50-YE | 50 | 1 | 1.000 |
| | | | D3-48-25-WH | D3-48-25-YE | 50 | 1 | 5.000 |
| | | | D3-48-50-WH | D3-48-50-YE | 25 | 2 | 2.000 |
| 4,8 | 2,8÷4,2 | 1÷2,5 | D3-64-25-WH | D3-64-25-YE | 50 | 1 | 1.000 |
| | | | D3-64-50-WH | D3-64-50-YE | 50 | 1 | 5.000 |
| | | | D3-95-25-WH | D3-95-25-YE | 25 | 2 | 2.000 |
| 6,4 | 4,2÷5,8 | 4÷6 | D3-95-50-WH | D3-95-50-YE | 50 | 1 | 1.000 |
| | | | D3-127-25-WH | D3-127-25-YE | 50 | 1 | 3.000 |
| | | | D3-127-50-WH | D3-127-50-YE | 25 | 2 | 1.000 |
| 9,5 | 5,8÷8 | 10÷16 | D3-190-25-WH | D3-190-25-YE | 50 | 1 | 500 |
| | | | D3-190-50-WH | D3-190-50-YE | 50 | 1 | 2.000 |
| | | | D3-254-25-WH | D3-254-25-YE | 25 | 2 | 1.000 |
| 12,7 | 8÷11 | 25÷35 | D3-254-50-WH | D3-254-50-YE | 50 | 1 | 500 |
| | | | D3-381-25-WH | D3-381-25-YE | 25 | 2 | 1.000 |
| 19,1 | 11÷17 | 35÷50 | D3-381-50-WH | D3-381-50-YE | 50 | 1 | 500 |
| | | | D3-508-50-WH | D3-508-50-YE | 25 | 2 | 600 |

| Internal Ø before shrinking mm | Cable ext. Ø range mm | Cable c.s.a range mm ² | Type | | Length m | Quantity |
|--------------------------------|-----------------------|-----------------------------------|----------------|----------------|----------|----------|
| | | | white | yellow | | |
| 2,4 | 1,6 ÷ 2 | 0,25 ÷ 0,5 | D3-24-WH3-100 | D3-24-YE3-100 | 100 | 1 |
| 3,2 | 1,8 ÷ 2,8 | 0,5 ÷ 1 | D3-32-WH3-100 | D3-32-YE3-100 | 100 | 1 |
| 4,8 | 2,8 ÷ 4,2 | 1 ÷ 2,5 | D3-48-WH3-100 | D3-48-YE3-100 | 100 | 1 |
| 6,4 | 4,2 ÷ 5,8 | 4 ÷ 6 | D3-64-WH3-100 | D3-64-YE3-100 | 100 | 1 |
| 9,5 | 5,8 ÷ 8 | 10 ÷ 16 | D3-95-WH3-100 | D3-95-YE3-100 | 100 | 1 |
| 12,7 | 8 ÷ 11 | 25 ÷ 35 | D3-127-WH3-100 | D3-127-YE3-100 | 100 | 1 |
| 19 | 11 ÷ 17 | 35 ÷ 50 | D3-190-WH3-100 | D3-190-YE3-100 | 100 | 1 |
| 25,4 | 17 ÷ 23 | 50 ÷ 120 | D3-254-WH3-100 | D3-254-YE3-100 | 100 | 1 |
| 38,1 | 23 ÷ 36 | 120 ÷ 240 | D3-381-WH3-50 | D3-381-YE3-50 | 100 | 1 |
| 50,8 | 27 ÷ 48 | 240 ÷ 400 | D3-508-WH3-50 | D3-508-YE3-50 | 50 | 1 |

HEAT SHRINKABLE TUBING HIGH GRADE 2:1

ladder & continuous, shrinkage ratio 2:1



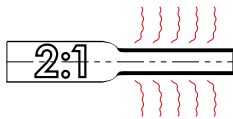
H2 type heat shrinkable tubing is used to provide highly legible and resistant identification of cables, pipes, conduits, etc. within a minimum space.

Halogen Free composition provides flame retardant and low smoke emission characteristics suitable for safety critical applications including closed environments such as tunnels and subways, rail installations, marine and industrial applications.

Material: Irradiated Polyolefin, shrinkage ratio 2:1
Operating temperature range: -30°C to +105°C
Minimum shrinkage temperature: > +90°C

Resistance to liquids, after the shrinkage:
MIL-STD-202H
EN 50343-Annex H
LUL C3349
SAE AS-5942

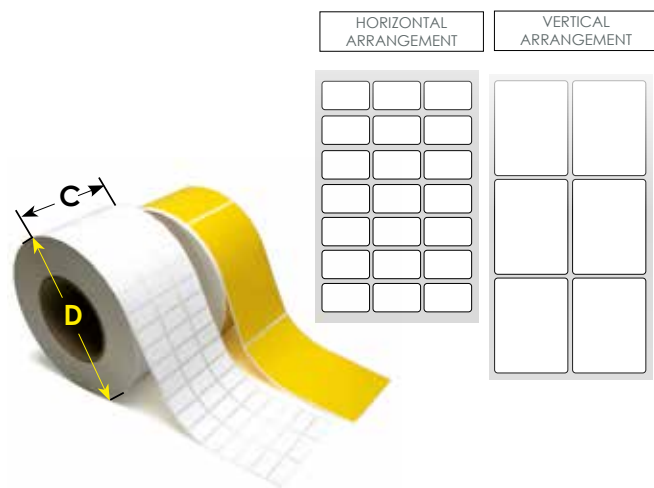
Meets the requirements for fire testing of materials and components for trains in EN 45545-2 and NFPA 130.



| Internal Ø before shrinking mm | Cable ext. Ø range mm | Cable c.s.a range mm² | Type | | Length mm | Tubes per step | Quantity |
|--------------------------------|-----------------------|-----------------------|------------------|---------------|-----------|----------------|----------|
| | | | white | yellow | | | |
| 2,4 | 1,6÷2 | 0,25÷0,5 | H2-24-25-WH2 | H2-24-25-YE2 | 25 | 2 | 2.000 |
| | | | H2-24-50-WH2 | H2-24-50-YE2 | 50 | 1 | 1.000 |
| | | | H2-32-25-WH2 | H2-32-25-YE2 | 25 | 2 | 2.000 |
| 3,2 | 1,8÷2,8 | 0,5÷1 | H2-32-50-WH2 | H2-32-50-YE2 | 50 | 1 | 1.000 |
| | | | H2-32-50-WH2BULK | | 50 | 1 | 5.000 |
| | | | H2-48-25-WH2 | H2-48-25-YE2 | 25 | 2 | 2.000 |
| 4,8 | 2,8÷4,2 | 1÷2,5 | H2-48-50-WH2 | H2-48-50-YE2 | 50 | 1 | 1.000 |
| | | | H2-48-50-WH2BULK | | 50 | 1 | 5.000 |
| | | | H2-64-25-WH2 | H2-64-25-YE2 | 25 | 2 | 2.000 |
| 6,4 | 4,2÷5,8 | 4÷6 | H2-64-50-WH2 | H2-64-50-YE2 | 50 | 1 | 1.000 |
| | | | H2-64-50-WH2BULK | | 50 | 1 | 3.000 |
| | | | H2-95-25-WH2 | H2-95-25-YE2 | 25 | 2 | 1.000 |
| 9,5 | 5,8÷8 | 10÷16 | H2-95-50-WH2 | H2-95-50-YE2 | 50 | 1 | 500 |
| | | | H2-95-50-WH2BULK | | 50 | 1 | 2.000 |
| | | | H2-127-25-WH2 | H2-127-25-YE2 | 25 | 2 | 1.000 |
| 12,7 | 8÷11 | 25÷35 | H2-127-50-WH2 | H2-127-50-YE2 | 50 | 1 | 500 |
| | | | H2-190-25-WH2 | H2-190-25-YE2 | 25 | 2 | 1.000 |
| | | | H2-190-50-WH2 | H2-190-50-YE2 | 50 | 1 | 500 |
| 19,1 | 11÷17 | 35÷50 | H2-254-25-WH2 | H2-254-25-YE2 | 25 | 2 | 600 |
| | | | H2-254-50-WH2 | H2-254-50-YE2 | 50 | 1 | 300 |
| | | | H2-381-25-WH2 | H2-381-25-YE2 | 25 | 2 | 200 |
| 25,4 | 17÷23 | 50÷120 | H2-381-50-WH2 | H2-381-50-YE2 | 50 | 1 | 100 |
| | | | H2-508-50-WH2 | H2-508-50-YE2 | 50 | 1 | 100 |

| Internal Ø before shrinking mm | Cable ext. Ø range mm | Cable c.s.a range mm² | Type | | Length m | Quantity |
|--------------------------------|-----------------------|-----------------------|-----------------|-----------------|----------|----------|
| | | | white | yellow | | |
| 2,4 | 1,6 ÷ 2 | 0,25 ÷ 0,5 | H2-24-WH3 | H2-24-YE3 | 20 | 1 |
| | | | H2-24-WH3-50* | H2-24-YE3-50* | 50 | 1 |
| 3,2 | 1,8 ÷ 2,8 | 0,5 ÷ 1 | H2-32-WH3 | H2-32-YE3 | 20 | 1 |
| | | | H2-32-WH3-100* | H2-32-YE3-100* | 100 | 1 |
| 4,8 | 2,8 ÷ 4,2 | 1 ÷ 2,5 | H2-48-WH3 | H2-48-YE3 | 20 | 1 |
| | | | H2-48-WH3-100* | H2-48-YE3-100* | 100 | 1 |
| 6,4 | 4,2 ÷ 5,8 | 4 ÷ 6 | H2-64-WH3 | H2-64-YE3 | 20 | 1 |
| | | | H2-64-WH3-100* | H2-64-YE3-100* | 100 | 1 |
| 9,5 | 5,8 ÷ 8 | 10 ÷ 16 | H2-95-WH3 | H2-95-YE3 | 15 | 1 |
| | | | H2-95-WH3-100* | H2-95-YE3-100* | 100 | 1 |
| 12,7 | 8 ÷ 11 | 25 ÷ 35 | H2-127-WH3 | H2-127-YE3 | 15 | 1 |
| | | | H2-127-WH3-100* | H2-127-YE3-100* | 100 | 1 |
| 19 | 11 ÷ 17 | 35 ÷ 50 | H2-190-WH3 | H2-190-YE3 | 15 | 1 |
| | | | H2-190-WH3-100* | H2-190-YE3-100* | 100 | 1 |
| 25,4 | 17 ÷ 23 | 50 ÷ 120 | H2-254-WH3 | H2-254-YE3 | 15 | 1 |
| | | | H2-254-WH3-100* | H2-254-YE3-100* | 100 | 1 |
| 38,1 | 23 ÷ 36 | 120 ÷ 240 | H2-381-WH3 | H2-381-YE3 | 15 | 1 |
| | | | H2-381-WH3-60* | H2-381-YE3-60* | 60 | 1 |
| 50,8 | 27 ÷ 48 | 240 ÷ 400 | H2-508-WH3 | H2-508-YE3 | 15 | 1 |
| | | | H2-508-WH3-60* | H2-508-YE3-60* | 60 | 1 |

THERMAL TRANSFER LABELS



self adhesive, on a roll

Thermal transfer labels are made from materials which are not temperature sensitive and whose surfaces are treated to accept the pigment from the ribbon heated by the print head. Labels are normally die cut on a roll and arranged horizontally with respect to the printer output, although some are arranged vertically.

When not in use, labels will maintain their good condition if stored in their original packaging and not subject to excessive heat or significant temperature variation. They should be removed from their packaging only at the time of use and not exposed to moisture for long periods.

| white | | yellow | metallic grey | | MATERIAL |
|--------------------------------|------------------------------|--------------------------------|--------------------------------|------------------------------|-----------------------------|
| WVYG | WPYG | YVYG | SVYG | PPYG | |
| PVC film outdoor PVC99008WH | Polyester film PET99005WH | PVC film outdoor PVC99008YE | PVC film outdoor PVC99008GY | Polyester film PET99005GY | |
| -30°C | -40°C | -30°C | -30°C | -40°C | MIN OPERATING TEMPERATURE |
| +70°C | +130°C | +70°C | +70°C | +130°C | MAX OPERATING TEMPERATURE |
| +10°C | +10°C | +10°C | +10°C | +10°C | MIN APPLICATION TEMPERATURE |
| +40°C | +40°C | +40°C | +40°C | +40°C | MAX APPLICATION TEMPERATURE |
| gloss | gloss | gloss | gloss | gloss | SURFACE |
| 80μ | 50μ | 80μ | 73μ | 50μ | THICKNESS |
| | . | | | .. | UV RESISTANCE |
| ✓ | ✓ | ✓ | ✓ | ✓ | PERMANENT ADHESIVE |
| | | | | | UL APPROVED |

| Size Ax8 mm | Trucks | C mm | D mm | Type | white out- door | white | yellow out- door | metallic grey outdoor | metallic grey | Quantity |
|--|--------|------|------|-------------|--------------------|-------|---------------------|--------------------------|---------------|----------|
| Rectangular labels, horizontal arrangement | | | | | | | | | | |
| 6 x 15 | 5 | 90 | 130 | 8400101... | WVYG | WPYG | YVYG | SVYG | PPYG | 30.000 |
| 7 x 10 | 5 | 66 | 150 | 8400093... | WVYG | WPYG | YVYG | SVYG | PPYG | 40.000 |
| 8 x 12 | 4 | 60 | 150 | 8400091... | WVYG | WPYG | YVYG | SVYG | PPYG | 29.080 |
| 9 x 20 | 3 | 70 | 150 | 8400017... | WVYG | WPYG | YVYG | SVYG | PPYG | 19.995 |
| 12 x 25 | 3 | 85 | 150 | 8400023... | WVYG | WPYG | YVYG | SVYG | PPYG | 16.005 |
| 15 x 27 | 3 | 90 | 150 | *8401008... | WVYG | WPYG | YVYG | SVYG | PPYG | 13.320 |
| 18 x 47 | 2 | 100 | 150 | 8400034... | WVYG | WPYG | YVYG | SVYG | PPYG | 7.610 |
| 25 x 80 | 1 | 84 | 130 | 8400075... | WVYG | WPYG | YVYG | SVYG | PPYG | 2.100 |
| 34 x 60 | 1 | 64 | 170 | 8400066... | WVYG | WPYG | YVYG | SVYG | PPYG | 3.200 |
| 40 x 80 | 1 | 84 | 170 | 8400051... | WVYG | WPYG | YVYG | SVYG | PPYG | 2.800 |
| 52 x 105 | 1 | 110 | 170 | 8400054... | WVYG | WPYG | YVYG | SVYG | PPYG | 2.100 |
| Rectangular labels, vertical arrangement | | | | | | | | | | |
| 120 x 60 | 1 | 64 | 170 | 8400057... | WVYG | WPYG | YVYG | SVYG | PPYG | 950 |
| 140 x 98 | 1 | 102 | 170 | 8400059... | WVYG | WPYG | YVYG | SVYG | PPYG | 800 |
| 180 x 105 | 1 | 110 | 150 | 8400061... | WVYG | WPYG | YVYG | SVYG | PPYG | 500 |
| Square labels | | | | | | | | | | |
| 20 x 20 | 4 | 93 | 150 | 8403000... | WVYG | WPYG | YVYG | SVYG | PPYG | 13.900 |
| 40 x 40 | 2 | 87 | 150 | *8402003... | WVYG | WPYG | YVYG | SVYG | PPYG | 3.720 |

*rounded corners



consult
the online catalogue
for other identification
products

CONTINUOUS MATERIAL

for thermal transfer printing, on a roll




Continuous material is made from materials which are not temperature sensitive and whose surfaces are treated to accept the pigment from the ribbon heated by the print head. When not in use, labels will maintain their good condition if stored in their original packaging and not subject to excessive heat or significant temperature variation. They should be removed from their packaging only at the time of use and not exposed to moisture for long periods.

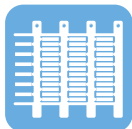


| white | | | | yellow | | | blue | metallic grey | | transparent | |
|--------------------------------|------------------|------------------------------|-----------|--------------------------------|------------------|-----------|------------------|--------------------------------|------------------------------|-------------|-----------------------------|
| WVYG | WCYG/5 | WPYG | WVRG | YVYG | YCYG/5 | YVRG | BCYG/5 | SVYG | PPYG | CPYG | MATERIAL |
| PVC film outdoor PVC99008WH | PVC film outdoor | Polyester film PET99005WH | Rigid PVC | PVC film outdoor PVC99008YE | PVC film outdoor | Rigid PVC | PVC film outdoor | PVC film outdoor PVC99008GY | Polyester film PET99005GY | PET film | |
| -30°C | -30°C | -40°C | -40°C | -30°C | -30°C | -40°C | -30°C | -30°C | -40°C | -40°C | MIN OPERATING TEMPERATURE |
| +70°C | +70°C | +130°C | +60°C | +70°C | +70°C | +60°C | +70°C | +70°C | +130°C | +130°C | MAX OPERATING TEMPERATURE |
| +10°C | +10°C | +10°C | +10°C | +10°C | +10°C | +10°C | +10°C | +10°C | +10°C | +10°C | MIN APPLICATION TEMPERATURE |
| +40°C | +40°C | +40°C | +40°C | +40°C | +40°C | +40°C | +40°C | +40°C | +40°C | +40°C | MAX APPLICATION TEMPERATURE |
| gloss | gloss | gloss | gloss | gloss | gloss | gloss | gloss | gloss | gloss | gloss | SURFACE |
| 80µ | 140µ | 50µ | 400µ | 73µ | 80µ | 400µ | 80µ | 73µ | 50µ | 23µ | THICKNESS |
| | | . | . | | | . | | | .. | ... | UV RESISTANCE |
| ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | PERMANENT ADHESIVE |
| | | | | | | | | | | | UL APPROVED |

| Width mm | Length m | self-adhesive | Type | white outdoor | yellow outdoor | blue outdoor | metallic grey outdoor | metallic grey | transparent | white | yellow | Quantity |
|--|----------|---------------|------------|---------------|----------------|--------------|-----------------------|---------------|-------------|-------|--------|----------|
| Self adhesive continuous material | | | | | | | | | | | | |
| 25.4 | 125 | ✓ | 8506012... | WVYG | YVYG | | | SVYG | PPYG | CPYG | WPYG | 1 |
| 35 | 125 | ✓ | 8506003... | WVYG | YVYG | | | SVYG | PPYG | CPYG | WPYG | 1 |
| 40 | 125 | ✓ | 8506004... | WVYG | YVYG | | | SVYG | PPYG | CPYG | WPYG | 1 |
| 50 | 125 | ✓ | 8506011... | WVYG | YVYG | | | SVYG | PPYG | CPYG | WPYG | 1 |
| 58 | 125 | ✓ | 8506010... | WVYG | YVYG | | | SVYG | PPYG | CPYG | WPYG | 1 |
| 80 | 125 | ✓ | 8506001... | WVYG | YVYG | | | SVYG | PPYG | CPYG | WPYG | 1 |
| 105 | 125 | ✓ | 8506000... | WVYG | YVYG | | | SVYG | PPYG | CPYG | WPYG | 1 |
| Self adhesive continuous material, reflective finish | | | | | | | | | | | | |
| 35 | 24 | ✓ | 8506007... | WCYG/5 | YCYG/5 | | | | | | | 1 |
| 80 | 24 | ✓ | 8506008... | WCYG/5 | YCYG/5 | | | | | | | 1 |
| 105 | 24 | ✓ | 8506006... | WCYG/5 | YCYG/5 | BCYG/5 | | | | | | 1 |
| Continuous material | | | | | | | | | | | | |
| 100 | 25 | | 8506002... | | | | | | | WVRG | YVRG | 1 |

MG3

| TYPE | |
|---|------|
|  PLUG EU | MG3 |
|  PLUG UK | MG3E |
|  PLUG | MG3A |



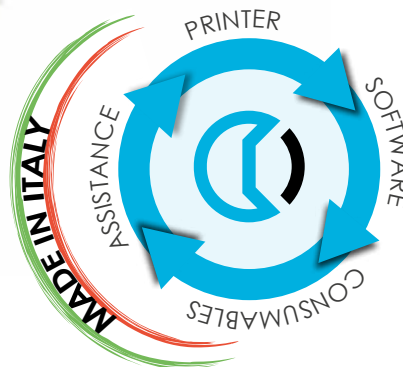
TIME/COST EFFECTIVE PRODUCTION: no warm up, easy loading/unloading of media. Printing cost is not dependent on print density. Each monochrome ribbon can print more than 300,000 MG-TPMF 4x10 mm cable tags

FAST: 10 second print cycle, quality checked by the operator

CLEAN AND QUIET: produces no fumes or residue and may be conveniently located in an office

PORTABLE AND RUGGED: unaffected by environmental changes or relocation, suited for on-site application

READY TO USE: dry resin ribbon is clean to touch so printed media are immediately ready to use



IDENTIFICATION FOR RAILWAY APPLICATIONS

RIBBON

| Family | Type | | | | | | | Width mm | Length m | Quantity |
|------------------|--------|--------|--------|--------|--------|--------|--------|----------|----------|----------|
| | black | blue | red | green | grey | gold | white | | | |
| MG2-ETR | 991600 | 991601 | 991602 | 991603 | 991607 | 991606 | 991606 | 120 | 200 | 1 |
| MG2-EPTR PREMIUM | 991611 | | | | | | | 110 | 300 | 1 |



consult the online catalogue for other identification products

CABLE TAGS



CABLE TAGS PRECUT 4 mm
PUSH IN



MG-TPMF

CABLE TAGS PRECUT
TIE ON



MG-ETF

WRAPAROUND CABLE MARKERS



MG-KMP

CABLE TAGS ONE PIECE
PUSH ON WITHOUT HOLDER



MG-TDM, MG-TDMO

LEGENDS



15 mm
PRECUT



MG-TAP

15 mm
PRECUT



MG-TAP

9 mm
PRECUT



MG-TAPW

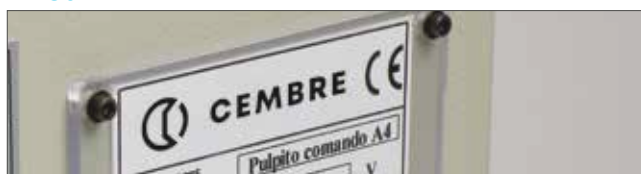
9 mm
PRECUT



MG-TAPW

PANEL PLATES

PANEL PLATES
PRECUT



MG-VRT-A

WARNING LABELS
PRECUT



MG-SIGNS-A

CABLE TAGS FOR HOLDERS



precut 4mm push in markers, easy entry for PMF holders

SerieFLAT **MG-TPMF** tags are used for marking cables, conduit, tubes, conductors and components.

Presented in stem format, tags are simply snapped off their stems and inserted into the appropriate holders. Consult us for other colours.

Note: UV resistance may vary between colours.

Material: Rigid PVC, self extinguishing class V0 according to UL94; the colours white PVC10050WH and yellow PVC10050YE are UL approved.

Operating temperature range: -30°C to +60°C



| Dimension mm | Type | | | | | Quantity |
|--------------|------------------|------------------|------------------|------------------|------------------|----------|
| | white PC10050WH | yellow PC10050YE | metallic grey | brown | orange | |
| 4x10 | 42090B-HF | 42040B-HF | | 42070B-HF | 42030N-HF | 5.600 |
| 4x12 | 42091B-HF | 42041B-HF | | | | 4.000 |
| 4x15 | 42092B-HF | 42042B-HF | 42002B-HF | | | 4.000 |
| 4x20 | 42093B-HF | 42043B-HF | | | | 1.600 |
| 4x30 | 42096B-HF | 42046B-HF | | | | 1.200 |
| 4x40 | 42097B-HF | 42047B-HF | | | | 800 |

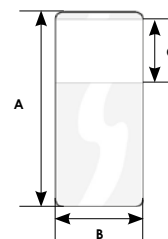
WRAPAROUND CABLE MARKERS



self adhesive, precut

MG-KMP wraparound cable markers are suitable for identifying large diameter cables, tubes and conduit.

MARKINGENIUS® printing is exceptionally clear and legible and is protected from chemical and atmospheric agents.



Material: Polyolefin PO99006TR, Silicon free, Halogen free, certified UL969.

Operating temperature range: -70°C to +140°C

Application temperature range: +10°C to +40°C



| Family | Overall length A mm | Wrapping diameter mm | Print area CxB mm | Type | | Quantity |
|-----------|---------------------|----------------------|-------------------|------------------|------------------|----------|
| | | | | white PO99006TR | yellow PO99006TR | |
| MG-KMP019 | 19 | 2 ÷ 3 | 9 x 13 | 49962-013 | 49462-013 | 1.500 |
| MG-KMP025 | 25 | 2,6 ÷ 4,1 | 9 x 15 | 49956-015 | 49456-015 | 1.200 |
| | | | 9 x 23 | 49956-023 | 49456-023 | 800 |
| MG-KMP038 | 38 | 4,3 ÷ 7 | 10 x 15 | 49950-015 | 49450-015 | 900 |
| | | | 10 x 23 | 49950-023 | 49450-023 | 600 |
| | | | 15 x 12 | 49951-012 | | 700 |
| MG-KMP050 | 50 | 6 ÷ 10 | 15 x 15 | 49951-015 | 49451-015 | 600 |
| | | | 15 x 23 | 49951-023 | 49451-023 | 400 |
| MG-KMP075 | 75 | 8 ÷ 14 | 25 x 15 | 49952-015 | 49452-015 | 300 |
| | | | 25 x 23 | 49952-023 | 49452-023 | 200 |
| MG-KMP100 | 100 | 12 ÷ 20 | 25 x 15 | 49953-015 | 49453-015 | 300 |
| | | | 25 x 23 | 49953-023 | 49453-023 | 200 |

CABLE TAGS WITHOUT HOLDER



MG-TDM one piece tags require no transparent holders and are mounted on cables via the two range-taking apertures.






MG-TDMO one piece tags require no transparent holders and are mounted on cables via the two range-taking apertures.

Tags are easily removed from the stems and partially printed sheets may be reused to avoid wastage.

Material: Polycarbonate, Halogen Free, Silicon free, self extinguishing class V0 according to UL94; the colours white PC10200WH and yellow PC10400YE are EN 45545-2 approved.

Operating temperature range: -40°C to +130°C



| Family | Cable ext. Ø range mm | Cable c.s.a range mm² | Size mm | Type | | Quantity |
|--|-----------------------|-----------------------|---------|-----------------|------------------|----------|
| | | | | white PC10200WH | yellow PC10400YE | |
|  MG-TDM-01 | 1,6÷3,25 | 0,5÷1,5 | 4x12 | 40190 | 40140 | 1.320 |
| | 1,6÷3,25 | 0,5÷1,5 | 4x12 | 40192 | 40142 | 800 |
| | 1,6÷3,25 | 0,5÷1,5 | 4x16 | 40191 | 40141 | 800 |
|  MG-TDM-02 | 2÷4,4 | 1÷6 | 4x12 | 40290 | 40240 | 1.056 |
| | 2÷4,4 | 1÷6 | 4x12 | 40292 | 40242 | 640 |
| | 2÷4,4 | 1÷6 | 4x16 | 40291 | 40241 | 640 |
|  MG-TDMO-01 | 2÷2,9 | 0,5÷1,5 | 4x12 | 40390 | 40340 | 880 |
| | 2÷2,9 | 0,5÷1,5 | 4x16 | 40391 | 40341 | 880 |
| | 2,9÷3,5 | 1,5÷2,5 | 4x12 | 40490 | 40440 | 640 |
|  MG-TDMO-02 | 2,9÷3,5 | 1,5÷2,5 | 4x12 | 40491 | 40441 | 640 |
| | 4÷4,6 | 4÷6 | 4x12 | 40590 | 40540 | 560 |
|  MG-TDMO-03 | 4÷4,6 | 4÷6 | 4x16 | 40591 | 40541 | 560 |

CABLE & CONDUIT TAGS TIE-ON



precut, one piece markers

MG-ETF tags are used with cable ties for marking large diameter cables, hoses, tubes and conduit.

Consult us for availability of other colours.

Note: UV resistance may vary between colours.

Cable tie max width 4,8 mm.

MG-ETF-SBS

Material: SBS Styrene-Butadiene-Styrene,

Halogen free, self extinguishing class HB; according to UL94

Operating temperature range: -30°C to +70°C

| Size mm | min Ø cable mm | Type | | | | | | | Quantity |
|---------|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| | | white | yellow | grey met. | red | blue | green | black | |
| 13x57 | 6 | 64192-SBS | 64142-SBS | 64182-SBS | 64122-SBS | 64162-SBS | 64152-SBS | 64102-SBS | 700 |
| 15x95 | 7 | 64293-SBS | 64243-SBS | 64283-SBS | 64223-SBS | 64263-SBS | 64253-SBS | 64203-SBS | 250 |
| 20x26 | 12 | 64291-SBS | 64241-SBS | 64281-SBS | 64221-SBS | 64261-SBS | 64251-SBS | 64201-SBS | 750 |
| 20x27 | 21 | 64191-SBS | 64141-SBS | 64181-SBS | 64121-SBS | 64161-SBS | 64151-SBS | 64101-SBS | 750 |

MG-ETF-HF

Material: Polycarbonate, Halogen Free,

self extinguishing class V0; according to UL94; the colours white PC10050WH and yellow PC10050YE are EN 45545-2 approved.

Operating temperature range: -40°C to +130°C



| Size mm | min Ø cable mm | Type | | | | | | | Quantity |
|---------|----------------|-----------------|------------------|---------------|----------|----------|----------|----------|----------|
| | | white PC10050WH | yellow PC10050YE | metallic grey | red | blue | green | black | |
| 13x57 | 6 | 54192-HF | 54142-HF | 54182-HF | 54122-HF | 54162-HF | 54152-HF | 54102-HF | 700 |
| 15x95 | 7 | 54293-HF | 54243-HF | | | | | | 250 |
| 20x26 | 12 | 54291-HF | 54241-HF | | | | | | 750 |
| 20x27 | 21 | 54191N-HF | 54141N-HF | | | | | | 750 |



consult the online catalogue for other identification products

LEGENDS 9 MM



precut

MG-TAPW legends are used, with legend holders or legend rails, to identify a wide range of cables and components. Consult us for availability of other colours.

Note: UV resistance may vary between colours.

Material: Rigid PVC, self extinguishing class V0: according to UL94; the colours white PVC10050WH and yellow PVC10050YE are UL approved.

Operating temperature range: -30°C to +60°C



| Family | Component | Size mm | Type | | | | Quantity |
|---------|-----------------------------|---------|---------------------|----------------------|-------|--------|----------|
| | | | white PVC10050WH | yellow PVC10050YE | blue | green | |
| MG-TAPW | | 9x12 | 49092N | 49042N | | | 2.200 |
| | | 9x15 | 49093N | 49043N | | 49053N | 1.925 |
| | | 9x20 | 49090N | 49040N | | | 2.750 |
| | Entrelec PEAD, Wago 249-119 | 9x29 | 49096 | 49046 | 49066 | | 1.500 |
| | | 9x35 | 49091N | 49041N | | | 1.650 |
| | | 9x50 | 49094 | 49044 | | | 1.000 |
| | | 9x70 | 49095N | 49045N | | 49055N | 550 |



Material: Polycarbonate, Halogen Free, self extinguishing class V0 according to UL94; the colour white PC10050WH is EN 45545-2 approved.

Operating temperature range: -40°C to +130°C



| Family | Size mm | Type white PC10050WH | Quantity |
|------------|---------|----------------------|----------|
| MG-TAPW-HF | 9x35 | 49091N-HF | 1.650 |
| | 9x50 | 49094-HF | 1.000 |

See the accessories section for correct applications.



consult the online catalogue for other identification products

TERMINAL BLOCKS MARKERS











MG-CPM terminal block markers are available in versions to suit the particular clip formats of the most widely used products. Depending on type, markers are presented as joined strips at a set or flexible pitch or as separate markers for convenient individual insertion on mixed pitch terminal block assemblies.

Material: Polycarbonate, self extinguishing class V0: according to UL94; the colours white PC10200WH, PC10300WH and yellow PC10400YE are EN 45545-2 approved.

Operating temperature range: -40°C to +130°C



| Family | Terminal blocks | Profile | Size mm | Pitch mm | Type | | Quantity | | | |
|---|--|---|--------------|--------------|---|---------------------|--------------|--------------|-------|-------|
| | | | | | white PC10200WH PC10300WH | yellow PC10400YE | | | | |
| MG-CPM-01 | Weidmüller, IMO, Entrelec, Wago, Allen Bradley, Conta Clip, Klemmsan, Morsetitalia, Woertz, Connectwell, Rockwell |  | 3x10 | 3,5 | 41092 | | 2.000 | | | |
| | |  | 5x7 | 5,1 | 41094 | 41044 | 1.960 | | | |
| | |  | 5x10 | 5,1 | 41090N | 41040N | 1.960 | | | |
| | | | | | 41098 | 41048 | 1.960 | | | |
| | |  | 5x12 | 5,1 | 41099 | | 1.680 | | | |
| | |  | 5x15 | 5,1 | 41091N | 41041N | 1.680 | | | |
| | | | | | 41095 | 41045 | 1.680 | | | |
|  | 6x10 | 6 | 41095 | 41045 | 1.680 | | | | | |
| MG-CPM-02 | Weidmüller WDK & WDU, Allen Bradley, Conta Clip, Klemmsan, Entrelec, Wago, Woertz |  | 5x10 | 5,1 | 41190N | 41140N | 1.680 | | | |
| | | | | | 41096 | 41046 | 1.120 | | | |
| MG-CPM-03 | Wago, Entrelec, Cabur, Phoenix Contact, Connectwell |  | 5x10 | 5 | 41291 | | 1.960 | | | |
| | | | | | 41293 | | 1.960 | | | |
| MG-CPM-04 | Phoenix Contact UK, UT & ST (frontal mounting), Connectwell, Siemens 8WH (clamp, frontal mounting), Cabur, Entrelec, Wago, Omron, Finder |  | 5x10 | 5,2 | 41392 | | 2.000 | | | |
| | | | | | 41390N | 41340N | 1.680 | | | |
| | | | | | 41395 | | 1.680 | | | |
| | | | | | 41391 | | 1.344 | | | |
| | | | | | 41396 | 41346 | 1.120 | | | |
| MG-CPM-05 | Wieland, Telemecanique, Omron, Legrand clamp, Merlin Gerin MCB ST |  | 5x8 | 5 | 41495 | | 1.960 | | | |
| | | | | |  | 5x10 | 5 | 41490 | | 1.960 |
| | | | | | | | | 41494 | | 1.960 |
| MG-CPM-06 | Siemens 8WA a molla |  | 5x10 | 6 | 41591 | | 1.540 | | | |
| MG-CPM-07 | Phoenix Contact ST, STU, STS, STI, STN, STTB, Omron, Siemens 8WH clamp, Schlegel |  | 3x10 | 3,5 | 41692 | | 2.000 | | | |
| | | | | | 5x10 | 5,2 | 41691 | | 1.680 | |
| MG-CPM-09 | Legrand Viking 3 |  | 5x10 | 5÷6 | 41890 | | 1.960 | | | |
| MG-CPM-10 | Cabur, Connectwell |  | 5x10 | 5,5 | 46194 | | 1.680 | | | |
| | | | | | 5x12 | 5,5 | 46192 | | 1.680 | |
| MG-CPM-11 | Allen Bradley, Weidmüller WDU, ContaClip RK, IMO, Finder, Omron, Klemmsan |  | 6x12 | 6,1 | 46392 | 46342 | 1.344 | | | |
| MG-CPM-12 | Wago Top Job, Entrelec, Cabur, Weidmüller, Connectwell, Morsetitalia, Beckoff I/O, Klemmsan |  | 4,2x6 | 5÷6 | 46391 | | 1.960 | | | |
| | | | | |  | 4,2x9 | 5÷6 | 46390 | | 1.960 |
| MG-CPM-13 | Entrelec SNK ZS |  | 5x12 | 5,2 | 41790 | 41740 | 1.960 | | | |
| | | | | | 6x12 | 6 | 41791 | 41741 | 1.680 | |
| MG-CPM-15 | Allen Bradley, Weidmüller, Wago Top Job, Klemmsan, Conta-clip |  | 5x5 | 5,1 | 42908 | | 1.680 | | | |
| | | | | | 6x5 | 6,1 | 42909 | | 1.400 | |

IDENTIFICATION FOR RAILWAY APPLICATIONS

ALUMINIUM MOUNTING PLATES

GMC-2751S
GMC-2907S

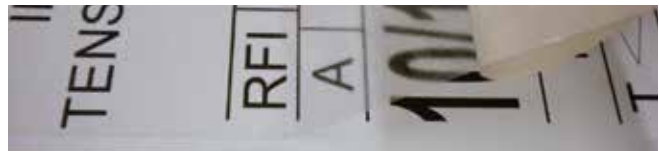
GMC-2678S

GMC-2732S



rounded corners, thickness 0,5 mm

CEMBRE TTL and TTF labels stuck to Aluminium mounting plates are easily fixed to poles, columns, pylons and structures via the slot or holes provided.



When used externally the application of an additional transparent film CPYG, will improve resistance to environmental agents.

| Type | Size mm | Label colour | Fixing | Quantity | Use with |
|----------|---------|--------------|-----------------|----------|---------------------------------|
| GMC2751S | 225x120 | x | slots | 10 | TTL8400061,GMC-2700S+TTL8400097 |
| GMC2907S | 430x120 | x | slots | 10 | |
| GMC2678S | 115x200 | x | 2 holes + slots | 10 | TTL8400061 |
| GMC2732S | 70x140 | | 2 holes | 50 | TTL8400057 |
| GMC3101S | 80x200 | x | 2 holes | 10 | |

STAINLESS STEEL TIE-ON TAGS TO AGGRESSIVE ENVIRONMENTS



Stainless Steel tie-on tags for the identification of cables, wiring and ducts in arduous applications such as: offshore platforms, shipbuilding, mining, underground, petrochemical, floating units for the production, storage and unloading of oil, refineries, railway infrastructure, food industry, solar field and, in general, where high resistance to aggressive environments is essential.

Material: AISI 316L Stainless steel
Operating temperature range:
 up to +800°C (continuous)
 up to +850°C (short periods)

| Size mm | N° text lines | N° characters per lines | Max numbers of characters | Type | Metal tie max width mm | Quantity |
|---------|---------------|-------------------------|---------------------------|-------------|------------------------|----------|
| 10x90 | 1 | 23 | 23 | SMP01A10X90 | 4,6 | 500 |
| 20x90 | 3 | 23 | 69 | SMP01A20X90 | 5 | 250 |

STAINLESS STEEL CABLE TIES



Unique ball locking mechanism that allows simple and rapid installation and secure locking.
 High tensile strength.
 Non flammability.

Material: AISI 304 Stainless Steel
 High resistance to Acetic Acid, Alkalise, Sulphuric Acid, Corrosion, etc. In general very resistant to most hostile environments.
Operating temperature range: -80°C to +500°C

| Width mm | Length mm | Type | Ø max. bundle mm | Min. loop tensile strength kg | Quantity |
|----------|-----------|-----------|------------------|-------------------------------|----------|
| 4,5 | 200 | GX200X4.5 | 50 | 46 | 100 |
| | 300 | GX300X4.5 | 76 | | 100 |
| | 370 | GX370X4.5 | 102 | | 100 |
| | 520 | GX520X4.5 | 156 | | 100 |



5527030079
 Installation tool for Stainless Steel cable ties.

Width up to 7,9 mm
 With cutting device
 Weight: 0,56 kg
 Length: 180 mm

TRANSPARENT FLAT TAG HOLDERS TIE-ON

for serie flat cable tags 4 mm

Tie on (tie width max 6 mm) for longitudinal mounting on cables, hoses, tubes and conduit.



Material: plasticised PVC, self extinguishing to class V0 according to UL94, free of Cadmium, Lead, Silicon and Teflon. Resistant to Alkali, Alcohol, Acid and many Solvents.

Operating temperature range: -40°C to +80°C

| Family | | Length mm | Type | For tags mm | Tie: N° x width mm | Quantity |
|--------|--|-----------|---------------|-------------|--------------------|----------|
| PMF-ET | | 15 | 63020 | 4x15 | 1x6 | 2.000 |
| | | 20 | 63040N | 4x20 | 1x6 | 2.000 |
| | | 30 | 63070 | 4x30 | 1x6 | 1.000 |
| | | 40 | 63090 | 4x40 | 2x6 | 500 |
| | | 20 | 64040 | 9x20 | 1x6 | 1.000 |
| | | 35 | 64050 | 9x35 | 2x6 | 500 |
| | | 17 | 65000 | 15x17 | 1x6 | 500 |
| | | 27 | 65010 | 15x27 | 1x6 | 500 |
| | | 49 | 65020 | 15x49 | 2x6 | 250 |
| | | 67 | 65030 | 15x67 | 2x6 | 250 |
| PMT-CT | | 40 | 54015 | 9 | 2x4,8 | 500 |
| | | 55 | 54013 | 9 | 2x4,8 | 500 |
| | | 90 | 54014 | 9 | 2x4,8 | 250 |



consult the online catalogue for other identification products

It is advisable to select the holder size based on the actual external diameter of the cable rather than its indicative c.s.a, due to variations in insulation thickness and conductor format. Consult us for holders in other lengths. Use holders only with designated cable tags of the same length.

TRANSPARENT TAG HOLDERS










for serieFLAT cable tags 4 mm

PMF holders are specifically designed to accommodate pairs of appropriately sized cables.

Material: plasticised PVC, self extinguishing to class V0 according to UL94, free of Cadmium, Lead, Silicon and Teflon. Resistant to Alkali, Alcohol, Acid and many Solvents.

Operating temperature range: -40°C to +80°C

| | Cable ext.Ø range mm | Cable c.s.a range mm ² | Family | Length mm | Type | Quantity |
|---|----------------------|-----------------------------------|--------|-----------|---------------|----------|
|  | 1,3÷2,2 | 0,25÷0,5 | PMF-00 | 10 | 90000 | 8.000 |
| | | | | 12 | 90010 | 7.000 |
| | | | | 15 | 90020 | 6.000 |
| | | | | 20 | 90040 | 4.000 |
| | | | | 30 | 90070 | 2.000 |
| | | | | 40 | 90090 | 2.500 |
|  | 2÷3,7 | 0,5÷2,5 | PMF-01 | 10 | 90100 | 6.000 |
| | | | | 12 | 90110 | 5.000 |
| | | | | 15 | 90120 | 4.000 |
| | | | | 20 | 90140 | 3.000 |
| | | | | 30 | 90170N | 1.500 |
| | | | | 40 | 90190N | 500 |
|  | 3,4÷4,3 | 2,5÷4 | PMF-02 | 1.000 | 90180 | 25 |
| | | | | 10 | 90200 | 4.000 |
| | | | | 12 | 90210 | 4.000 |
| | | | | 15 | 90220 | 3.000 |
| | | | | 20 | 90240 | 2.000 |
| | | | | 30 | 90270N | 500 |
|  | 4÷6,3 | 4÷10 | PMF-03 | 40 | 90290N | 500 |
| | | | | 10 | 90300 | 3.000 |
| | | | | 12 | 90310 | 2.000 |
| | | | | 15 | 90320 | 2.000 |
| | | | | 20 | 90340 | 1.000 |
| | | | | 30 | 90370N | 500 |
|  | 6÷10 | 10÷25 | PMF-04 | 40 | 90390N | 500 |
| | | | | 10 | 90400 | 2.000 |
| | | | | 12 | 90410 | 1.000 |
| | | | | 15 | 90420 | 1.000 |
| | | | | 20 | 90440N | 1.000 |
| | | | | 30 | 90470 | 500 |
|  | 9÷15 | 25÷70 | PMF-05 | 40 | 90490N | 250 |
| | | | | 10 | 90500 | 500 |
| | | | | 12 | 90510 | 500 |
| | | | | 15 | 90520N | 500 |
| | | | | 20 | 90540 | 250 |
| | | | | 30 | 90570N | 250 |
|  | 14÷26 | 70÷240 | PMF-06 | 40 | 90590 | 100 |
| | | | | 10 | 90600 | 500 |
| | | | | 12 | 90610 | 250 |
| | | | | 15 | 90620 | 250 |
| | | | | 20 | 90640N | 200 |
| | | | | 30 | 90670 | 100 |
| | | | | 40 | 90690 | 100 |

LEGEND RAIL AND TRANSPARENT PROTECTIVE COVER



Legend rails 9 mm provide an alternative to direct marking on components.

Material: Rigid dielectric high impact PVC.
Lead free, self extinguishing class V0 according to UL 94,
resistant to Acid, Alcohol, Solvents.
Non-deformable up to +90°C
Application temperature range: +10°C to +40°C

| Family | self-adhesive | pre-drilled | Length mm | Type | | Quantity |
|----------|---------------|-------------|-----------|----------------|----------------|----------|
| | | | | black | grey RAL 7047 | |
| RTR-TAPW | | ✓ | 430 | 990654 | 990652 | 25 |
| | | ✓ | 650 | 990794 | 990792 | 25 |
| | | ✓ | 1.000 | 990526 | 990505 | 25 |
| RTA-TAPW | ✓ | | 430 | 990655N | 990653N | 25 |
| | ✓ | | 650 | 990795N | 990793N | 25 |
| | ✓ | | 1.000 | 990527N | 990506N | 25 |

Transparent protective covers 9 mm



| Family | Length mm | Type | Quantity |
|--------|-----------|---------------|----------|
| RT-CCW | 430 | 990656 | 25 |
| | 650 | 990796 | 25 |
| | 1.000 | 990507 | 25 |

Transparent protective strip 9 mm



| Family | Length mm | Type | Quantity |
|---------|-----------|---------------|----------|
| RT-CCWS | 430 | 990657 | 25 |
| | 650 | 990797 | 25 |
| | 1.000 | 990734 | 25 |



consult the online catalogue for other identification products

PUSH BUTTON LEGEND BASES



for \varnothing 22,5 mm manual operators

\varnothing 22.5 mm black push button legend bases to fit a wide range of popular brands.

All types have a hole behind the legend for rivet fixing, while PTP...A types are adhesive backed.

All types suit MG-TAP 15x27 mm legends and can be fitted with a transparent legend cover TAP-CCS 990521 or MG-TAP-HF 990510.

Material: Polycarbonate, self extinguishing class V0 according to UL 94

Operating temperature range:

-40°C to +115°C (continuous)

-40°C to +130°C (short periods)

| | Family | Self-adhesive | rivet fixing | Size mm | Type | \varnothing bottom mm | Size of printed plate and protection mm | Application | Quantity |
|--|----------|---------------|--------------|---------|-------|-------------------------|---|--------------------|----------|
| | PTPS-22 | | ✓ | 48x30 | 34002 | 22,5 | 15x27 | | 100 |
| | PTPSA-22 | ✓ | | 48x30 | 34602 | 22,5 | 15x27 | | 100 |
| | PTPS-24 | | ✓ | 48x30 | 68002 | 24 | 15x27 | Schneider Electric | 100 |
| | PTPSA-24 | ✓ | | 48x30 | 68602 | 24 | 15x27 | Schneider Electric | 100 |
| | PTPO-22 | | ✓ | 48x30 | 34802 | 22,5 | 15x27 | | 100 |
| | PTPOA-22 | ✓ | | 48x30 | 34902 | 22,5 | 15x27 | | 100 |
| | PTPR-22 | | ✓ | 48x30 | 34102 | 22,5 | 15x27 | | 100 |
| | PTPRA-22 | ✓ | | 48x30 | 34702 | 22,5 | 15x27 | | 100 |



SELF-ADHESIVE



RIVET FIXING

LEGEND BASES



for general purpose applications

PLR legend bases may be fixed to flat surfaces by rivet or in some sizes, by cable tie to tubes, conduits, etc.
PLA versions are self adhesive. TAP-CCS transparent covers may be fitted to protect the legends.

Material: Polycarbonate, self extinguishing class V0 according to UL 94

Operating temperature range:
-40°C to +115°C (continuous)
-40°C to +130°C (short periods)

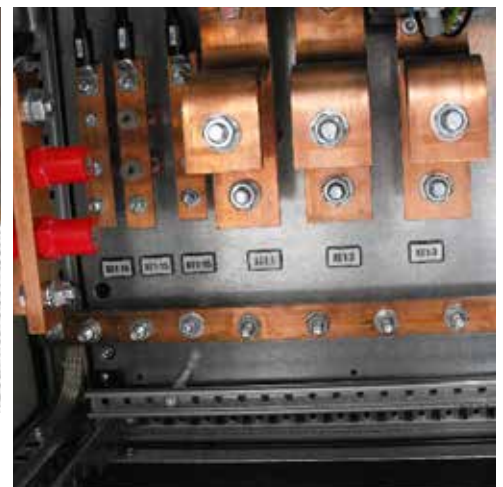
| Family | Self-adhesive | rivet fixing | Size mm | Type black | Hole spacing mm | For MG-TAP size mm | Quantity |
|--------|---------------|--------------|---------|------------|-----------------|--------------------|----------|
| PLR | | ✓ | 17x20 | 34202 | | 15x17 | 100 |
| | | ✓ | 17x30 | 34302 | | 15x27 | 100 |
| | | ✓ | 17x52 | 34402 | 41 | 15x49 | 100 |
| | | ✓ | 17x70 | 34502 | 51 | 15x67 | 100 |
| PLA | ✓ | | 17x20 | 35002N | | 15x17 | 100 |
| | ✓ | | 17x30 | 35102N | | 15x27 | 100 |
| | ✓ | | 17x52 | 35202N | 41 | 15x49 | 100 |
| | ✓ | | 17x70 | 35302N | 51 | 15x67 | 100 |



SELF ADHESIVE










RIVET FIXING



WS WARNING



| Family | Size mm | Type | Labels per sheet | Quantity |
|---|--|--------------|------------------|--|
| WS-AD | Generic hazard | | | UNI EN ISO 7010 ISO 3864 - UNI 7543 |
|  | 25 | 200001 | 24 | 240 |
| | | 200001-BULK | 120 | 1.200 |
| | 50 | 200002 | 10 | 50 |
| | | 200002-BULK | 30 | 900 |
| | 100 | 200003 | 2 | 10 |
| | | 200003-BULK | 6 | 300 |
| WST-LDY | DANGER! Mechanical devices moving | | | UNI 7543 ISO 3864 |
|  | 105x210 | 2557AD017-GB | 1 | 3 |
| WS-HT | Electricity | | | UNI EN ISO 7010 ISO 3864 - UNI 7543 |
|  | 25 | 200101 | 24 | 240 |
| | | 200101-BULK | 120 | 1.200 |
| | 50 | 200102 | 10 | 50 |
| | | 200102-BULK | 30 | 900 |
| | 100 | 200103 | 2 | 10 |
| | | 200103-BULK | 6 | 450 |
| WST-LSY | 20,000 V | | | UNI 7543 - ISO 3864 |
|  | 52x105 | 2454HT021-GB | 1 | 10 |
| | 105x210 | 2457HT021-GB | 1 | 3 |
| WST-LSY | Switch power off before opening the door | | | UNI 7543 - ISO 3864 |
|  | 52x105 | 2454HT052-GB | 1 | 10 |
| | 65x131 | 2455HT052-GB | 1 | 10 |
| WS-HTP | Electricity | | | |
|  | 105x52 | 204003 | 1 | 10 |
| | | 204003-BULK | 6 | 300 |
| | | | | |
| WSE | Emergency - STOP | | | |
|  | 60 | 204500 | 1 | 10 |
| | 80 | 204501 | 1 | 10 |

PS PROHIBITION



| Family | Size mm | Type | Labels per sheet | Quantity |
|---|--------------------------------------|--------------|------------------|--|
| PS-FL | Do not use open flames | | | UNI EN ISO 7010 ISO 3864 - UNI 7543 |
|  | 50 | 210101 | 3 | 30 |
| PS-SW | Do not use water to extinguish fires | | | UNI EN ISO 7010 ISO 3864 - UNI 7543 |
|  | 50 | 210201 | 3 | 30 |
| PS-NP | No entry | | | UNI EN ISO 7010 ISO 3864 - UNI 7543 |
|  | 50 | 210501 | 3 | 30 |
| PST-PSW | Access prohibited | | | ISO 3864 UNI 7543 |
|  | 74x52 | 4301NP003-GB | 2 | 10 |
| PS-OD | Do not touch | | | UNI EN ISO 7010 ISO 3864 - UNI 7543 |
|  | 50 | 211201 | 3 | 30 |
| PS-TA | Do not open | | | UNI EN ISO 7010 ISO 3864 - UNI 7543 |
|  | 50 | 211301 | 3 | 30 |






A wide range of self adhesive signs, in various types and formats, for comprehensive signing of all potentially hazardous situations in factories, workshops and industrial premises.

Material: Polyester film over-laminated with transparent film resistant to UV, thickness approximately 0,1 mm. Resistant to Water, Oil, Grease, Alcohol, Detergent, Alkaline Substances and Atmospheric Agents. Low flammability, self extinguishing. Recommended for application to equipment for internal or external use, but not directly exposed to atmospheric agents. If exposed to atmospheric agents, the life of the label may be limited to five years.

Application temperature range: -40°C to +130°C

MS MANDATORY



| Family | Size mm | Type | Labels per sheet | Quantity |
|---|----------------------------------|---------------|--------------------------------------|----------|
| MS-WG | Protective goggles must be worn | | UNI EN ISO 7010 ISO 3864 UNI 7543 | |
|  | 50 | 220001 | 3 | 30 |
| MS-WH | Protective helmets are required | | UNI EN ISO 7010 ISO 3864 UNI 7543 | |
|  | 50 | 220101 | 3 | 30 |
| MS-WD | Protective earmuffs are required | | UNI EN ISO 7010 ISO 3864 UNI 7543 | |
|  | 50 | 220201 | 3 | 30 |
| MS-MM | Protective mask required | | UNI EN ISO 7010 ISO 3864 UNI 7543 | |
|  | 50 | 220401 | 3 | 30 |
| MS-PT | For pedestrians only | | UNI EN ISO 7010 ISO 3864 UNI 7543 | |
|  | 50 | 222401 | 3 | 30 |

VS UTILITY SECTOR



| Family | Size mm | Type | Labels per sheet | Quantity |
|---|---------|-----------------------|------------------|----------|
| VS-180 | | | | |
|  | 70x120 | 268000-GB | 1 | 10 |
| | | 268000-GB-BULK | 4 | 300 |
| VS-182 | | | | |
|  | 52x105 | 268200-GB | 1 | 10 |
| VS-183 | | | | |
|  | 52x105 | 268300-GB | 1 | 10 |
| | | 268300-GB-BULK | 64 | 450 |
| VS-150 | | | | |
|  | 150x180 | 2615000 | 1 | 10 |
| VS-180 | | | | |
|  | 70x120 | 2611400 | 1 | 10 |



consult the online catalogue for other identification products

1. GENERAL TERMS

- 1.1 For the purpose of these GENERAL TERMS AND CONDITIONS OF SALE (the "Terms and Conditions"), the following definitions shall apply:
- «(Seller): CEMBRE S.p.A. and its affiliates;
 - «(Affiliate): any entity directly or indirectly, through one or more intermediaries, controlling, controlled by, or under common control with CEMBRE S.p.A.;
 - «(Buyer): any professional or entrepreneur purchasing the Products from the Seller;
 - «(Products): the goods manufactured and/or sold by the Seller;
 - «(Order(s)): each proposal for the purchase of the Products submitted by the Buyer to the Seller in writing;
 - «(Sale(s)): each single sale agreement entered into further to the receipt by the Buyer of the written order confirmation of the Seller.
- 1.2 These Terms and Conditions govern the sale of equipment, components, parts, and materials (the "Products") supplied by the Seller to the Buyer. Any specific supply agreement, order confirmation, quotation, these Terms and Conditions and the purchase order form the Sales Agreement ("Agreement") between the parties. In the event of a conflict between these documents, precedence shall apply in accordance with the order listed in the previous sentence.
- 1.3 CEMBRE's quotation, proposal or order confirmation is conditional on the Buyer's acceptance of these Terms and Conditions. Buyer's silence or acceptance/use of the Products or services related to any purchase order shall constitute tacit approval of these Terms and Conditions.
- 1.4 Any additional or conflicting terms included in the Buyer's request for quotation/proposal, specifications, purchase order or any other written or oral communication are not binding on CEMBRE unless separately signed by CEMBRE. CEMBRE's failure to object to Buyer's additional or conflicting terms (including the Buyer's Terms and Conditions of Purchase) does not operate as a waiver of any terms contained herein.

2. ORDERING PROCEDURES

- 2.1 Offers of the Seller are not binding. This shall also apply if the Seller has provided the Buyer with catalogs, technical documentation (e.g. drawings, plans, calculations, calculations, references to DIN standards), other product descriptions or documents - also in electronic form - to which the Seller reserves property rights and copyrights pursuant to Clause 8.
- 2.2 Unless otherwise agreed, the information in offers and order confirmations shall refer to the contents of the respectively valid price lists, catalogs or other documents - also in electronic form, including technical data sheets, of the Seller.
- 2.3 All orders must be sent in writing and include all the details for a correct identification of the Products and Services requested. The minimum order amount is € 250.
- 2.4 The order is an irrevocable proposal to buy, but it is accepted by the Seller only following order acknowledgement / confirmation or execution.
- 2.5 The Buyer may request in writing to cancel or modify the order only prior to its execution and the Seller may at its own discretion accept or reject such request. Only cancellations and modifications expressly accepted by the Seller in writing shall be valid and effective.

3. PRICING AND PAYMENT TERMS

- 3.1 Unless otherwise specified in writing, Seller's quotations have a 30-day validity, after which they will automatically expire.
- 3.2 Prices quoted in price-lists and marketing materials are not binding and cannot be considered a "public offer". Unless otherwise agreed in writing, prices are always quoted based on delivery term FCA (Incoterms latest version) net of any applicable statutory value added /goods and services tax and of any applicable taxes and duties.
- 3.3 The Seller reserves the right to update the price-list without prior notice; the new release of the price-list will apply to all the Orders placed after the date such new release is issued and sent to the Buyer. Invoices will be issued in accordance with the prices in force on the date of the order confirmation or as otherwise agreed in specific supply agreements.
- 3.4 In the event of late payment, the Seller will have the right to charge overdue interest in accordance with the provisions of law no. 231/2002. Any further claim for damages caused by delay shall remain unaffected.
- 3.5 In the event of payment arrears, suspension of payments and if circumstances become known which are likely to reduce the creditworthiness of the customer, the Seller shall be entitled, after having granted a period of grace, to declare all claims arising from the entire business relationship with the customer immediately due for payment. Discount agreements, rebates and the like shall be deemed forfeited in this case.
- 3.6 Failure to pay or delayed payments above 30 days also entitle the Seller to suspend the delivery of the Products and terminate every single Sale entered into. The suspension of the delivery of the Products or the termination of any Sale shall not entitle the Buyer to claim for any compensation.
- 3.7 Any complaints regarding the Products and/or their delivery shall not be grounds for suspending or delaying the payment.
- 3.8 In the event of default or risk of insolvency concerning the Buyer, the Seller will be entitled to:
- demand payment in advance or suitable guarantees; and/or
 - suspend deliveries; and/or
 - demand immediate payment of all the invoices already issued, regardless of the payment term therein indicated; and/or
 - terminate any existing sale agreement.

4. DELIVERY

- 4.1 Except as otherwise agreed upon in writing between the parties, the Seller shall deliver the Products FCA its premises (INCOTERMS latest version). If required, the Seller shall take care of the shipment of the Products at the Buyer's costs and expenses. In this last case delivery shall be considered to have taken place when the Products are transferred to the forwarder.
- 4.2 In case of missing or damaged goods during transport, the Buyer must formulate all the necessary reservations on the delivery note of said goods at the time of delivery. Such reservations must also be confirmed in writing to the Seller within 48 hours of the date of the delivery, by registered mail with return receipt.
- 4.3 The Seller cannot be held liable for delays in deliveries in the following circumstances:
- acts of God or other extraordinary events beyond reasonable control, resulting in interruption of the manufacturing process, including shortage of energy and/or raw materials, pandemics strikes, embargoes or trade restrictions;
 - delays due to the Buyer, particularly when the Buyer failed to provide the information required to execute the order;
 - overdue payments, pursuant to arts. 1460 and 1461 of the Civil Code.
- 4.4 Penalties for late delivery may be charged by the Buyer only when expressly agreed in a specific supply agreement, and in any case up to a maximum amount equal to the price of the delayed delivery.
- 4.5 The Buyer shall not reject partial deliveries or late deliveries. All costs resulting from the rejection of goods will be charged to the Buyer. Excess deliveries for the purpose of rounding up to the packing quantity shall be deemed to be contractual performance and shall be paid by Buyer.

- 4.6 Goods returned at the request of the Buyer can only be accepted if the Seller has agreed in writing. The returned parts must be in their original packaging, come from the current product range and be in saleable condition. The return shipment must be carriage paid and at the risk of the Buyer. From the purchase price to be refunded, a depreciation fee will be deducted based on the actual conditions of the goods, their age and original price. Depreciation shall not apply to goods returned under section 5 and 6 hereinafter, provided that the return was authorized by the Seller. Custom-made products or articles which are not included in the current catalogue will not be taken back. Returned goods that are not accepted by the Seller will be shipped back to Buyer or scrapped at the Buyer's choice (freight paid by the Buyer).
- 4.7 In the event of modifications to the order required by the Buyer, the delivery deadline will automatically be extended for the time necessary to implement the required modification.

5. CONFORMITY

- 5.1 Complaints about apparent defects or non-conformity of the product delivered in relation to the purchase order or the packing slip must be notified to the Seller in writing within 48 hours after receipt of the products, subject to forfeiture. The Buyer loses the right to claim if the goods are not inspected immediately after delivery.
- 5.2 In the absence of a specific agreement on quality, the features contained in a specification, a product-specific technical data sheet or an equivalent description by the Seller shall be deemed to be the relevant quality. Insignificant deviations shall not constitute a defect.

6. WARRANTY AND LIABILITY

- 6.1 Unless otherwise agreed upon in writing, the Seller warrants that the Products are free from defects in material, design and manufacturing and fit for use. No guarantee is given herein by the Seller on the conformity of any Product with the law and regulations in countries outside EU and the UK. No other warranties, express or implied, are made with respect to the Products including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose.
- 6.2 Unless otherwise agreed upon in writing, the warranty shall be valid for a period of one year from the date of delivery to the Buyer. Warranty is provided only on tools or machines with a serial number or other identification number that allows traceability. The warranty is, however, excluded if the Products have already been processed by the Buyer or incorporated in products, machinery or plants of the Buyer or of third parties.
- 6.3 Claims for defective Products shall be made in writing within eight working days from discovery.
- 6.4 The defective Products shall be returned to the Seller at the Buyer's cost upon Seller's request. The Seller's sole obligation (and Buyer's sole remedy) for any breach of warranty under the foregoing warranty shall be to repair (at location designated by Seller) or replace DAP the original point of delivery the defective goods, within a reasonable time. The Buyer will waive any claim for damage compensation once the warranty has been fulfilled and the Product has been repaired or replaced. The warranty shall not cover defects due to environmental or stress testing, misuse, failure to observe the Seller's instructions regarding the functioning, maintenance and the storage of the Products, repairs or modifications made by the Buyer or a third party without prior written authorization of the Seller, improper installation, transportation or handling.
- 6.5 Direct interventions on site are not included in the warranty; if expressly requested by the Buyer they are subject to charge, according to the Seller's tariffs.
- 6.6 Warranty repair/replacements may be suspended in the event of insolvency of the Buyer or overdue invoices.
- 6.7 Save for the case of fraud or gross negligence, the Seller shall bear no liability for damages to property or third parties other than that expressly provided by virtue of any mandatory law provisions. In any case, the Seller shall not be liable for indirect or consequential damages of whatsoever nature as, by way of example, production losses or unearned profits. In any case, Buyer's right to damages shall be limited to a maximum amount equal to the value of the Products showing defects or faults.
- 6.8 The Seller shall bear no liability for damages to property or third parties other than that expressly provided by virtue of any mandatory law provisions. The Seller will not, under any circumstances, be liable for the cost of removal or reinstallation of goods or the cost of disassembly or reassembly or for loss of business or goodwill or profits or for cost of inspection or storage or for any incidental and consequential damages of any nature which may arise from the sale of goods to the Buyer. When liability cannot be excluded by virtue of mandatory law provisions, Buyer's right to damages shall in any case be limited to a maximum amount equal to the value of the Products showing defects or faults.
- 6.9 The Seller has taken out suitable insurance policies covering general liability in connection with the Products.

7. EXPORT CONTROL REGULATIONS

- 7.1 CEMBRE shall not be obligated to fulfil this agreement if such fulfillment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes or other sanctions or restrictions.
- 7.2 If the Buyer transfers the goods to a third party, the Buyer shall comply with all applicable national and international (re-) export control regulations.
- 7.3 The Buyer shall cooperate with the Seller to provide the information concerning end users, destination and intended use of goods supplied by CEMBRE, in case this is necessary due to customs control activities or export control regulations.
- 7.4 Violations of this section 7 shall entitle the Seller to terminate any existing sale agreement at any time without notice.

8. INTELLECTUAL PROPERTY, CONFIDENTIALITY AND PRIVACY

- 8.1 The use of CEMBRE trademarks is governed by the General Terms and Conditions, published on the website <https://www.cembre.com/group/termsandconditions>, which the Buyer is obliged to comply with. It is prohibited to relabel and repackage the Products without CEMBRE's written authorization.
- 8.2 Each party will retain ownership of its Intellectual Property developed before or outside the scope of the sale agreement. If any Intellectual Property is developed under the sale agreement, the parties shall execute a separate agreement regarding the ownership thereof.
- 8.3 Seller expressly reserves the copyright to its catalogues, technical documentation (e.g. drawings, plans, calculations, data sheets), other product descriptions or documents - also in electronic form. The Buyer is only granted a non-exclusive right of use.
- 8.4 All drawings and technical documents relating to the Products submitted by one party to the other shall remain exclusive property of the submitting party and can only be used for the purpose for which they were provided. The receiving party is not allowed to use such documents otherwise, to procure copies thereof, to reproduce and to disclose them to a third party without consent of the submitting party. The end user of the Products shall not be deemed as a third party for the purpose of this section.
- 8.5 Any liability of the Seller is excluded if the Buyer is responsible for the infringement of property rights, in particular because he has modified the object of performance, used it in breach of contract or taken it to a place other than the place of destination without the Seller's consent.

- 8.6 If the Seller manufactures goods according to drawings, samples or other information provided by the Buyer (OEM products) and if the property rights of third parties are infringed in the process, the Buyer shall indemnify the Seller from all claims for damages resulting from this.
- 8.7 The Seller warrants that the personal data received from the Buyer will be processed in full compliance with the applicable data protection regulations.
- 8.8 Violations of this section 8 shall entitle the Seller to terminate any existing sale agreement at any time without notice.

9. APPLICABLE LAW AND JURISDICTION

- 9.1 The place of performance for the delivery together with any subsequent performance on the part of the Seller is the Seller's registered office.
- 9.2 Place of jurisdiction is the registered office of the Seller. The Seller is also entitled to take legal action at the Buyer's registered office.
- 9.3 The legal relations between the Seller and the Buyer shall be governed by Italian law to the exclusion of the U.N. Convention on the International Sale of Goods (CISG).
- 9.4 The Buyer acknowledges that the CEMBRE Group has adopted a Code of Ethics and undertakes to respect its provisions, abstaining from any unlawful conducts. Failure to comply with any of the provisions of the Code of Ethics will result in a serious breach of contractual obligations and will entitle CEMBRE to terminate the contract with immediate effect, without prejudice to compensation for damages.

10. FORCE MAJEURE AND HARDSHIP

- 10.1 No failure, omission or delay of the Seller in the performance of any obligation shall be deemed a breach of the agreement nor create any liability hereunder, if the failure, omission or delay shall arise from acts of God, laws, rules, regulations or orders of any governmental authority, floods, fires, explosions, storms, earthquakes, acts of war (declared or undeclared), rebellion, insurrections, riot, sabotage, shortages of fuel, power, energy resources, and/or raw material, invasion, epidemic, quarantine, accident, strikes, lockouts, labor disputes, or any other comparable cause beyond the reasonable control of the Seller.
- 10.2 If, during the term of the contract, events occur which have not been contemplated by the Parties and which fundamentally alter the equilibrium of the contract, thereby placing an excessive burden on the Seller in the performance of its contractual obligations (hardship), the Seller shall have the power to make any revision to the contract that it finds just and equitable in the circumstances, or to terminate the contract at a date and on terms to be fixed.



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THE CEMBRE GROUP

CEMBRE S.p.A. - Italy



CEMBRE Ltd. - UK



CEMBRE S.a.r.l. - France



CEMBRE España S.L.U. - Spain



CEMBRE GmbH - Germany



CEMBRE Inc. - USA



Making the right connections

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