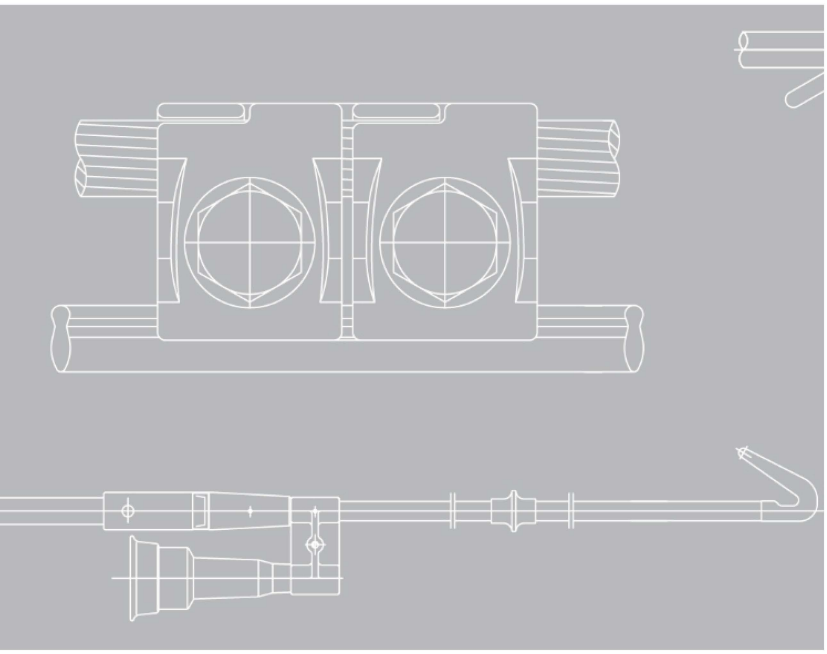
PFISTERER



EDITION 2020

RAILWAY CATENARY SYSTEMS

Solutions for Overhead Contact Line

THE POWER CONNECTION

CABLE SYSTEMS | COMPONENTS | OVERHEAD LINES | RAILWAY CATENARY SYSTEMS

EUROLAITE
– A PART OF ADDTECH GROUP

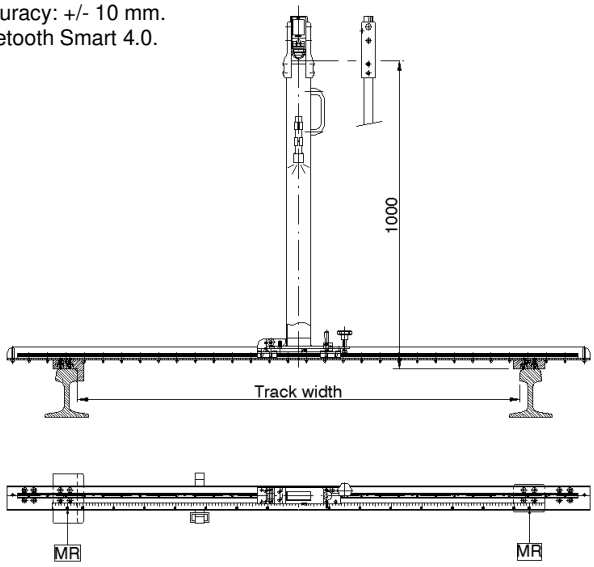
Measuring Tools

CONTACT WIRE LASER MEASURING DEVICE

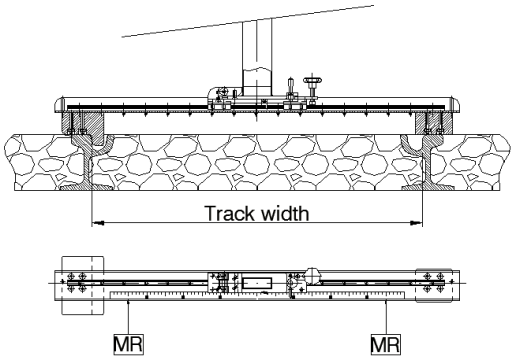
This unit is used to measure the height and stagger of the contact wire using laser measuring technology.

Application:
- Height and stagger measuring

Technical description:
- Laser measures
- No need touching wires
- Used in any weather conditions.
- Accuracy: +/- 10 mm.
- Bluetooth Smart 4.0.



Support for Tramway Rails



No	ID-code	Track gauge *) (mm)	Measuring range, on the stagger (MR) (mm)	Remarks
304 132 001	**GLI-7PK**	1435	+/- 750	
304 132 002	**GLI-7PK.60**	1435	+/- 600	
304 132 003	**GLM-7.PK**	1000	+/- 450	
304 132 004	**GLI-7 PK TRVIA.60**	1435	+/- 600	Tramway support
304 132 005	**GLI-7 PK TRVIA.35**	900	+/- 350	Tramway support
304 132 008	**GLI-7PK.FI**	1524	+/- 600	
304 132 012	**GLI-7PK.GB**	1435	+/- 750	
304 132 101	**GLI-7 PK.L**	1435	+/- 750	Light version, measuring of inclination and pole distance
304 132 102	**GLI-7 PK.60.L**	1435	+/- 600	Light version, measuring of inclination and pole distance

**) Other measuring devices with different track gauges available on request.*

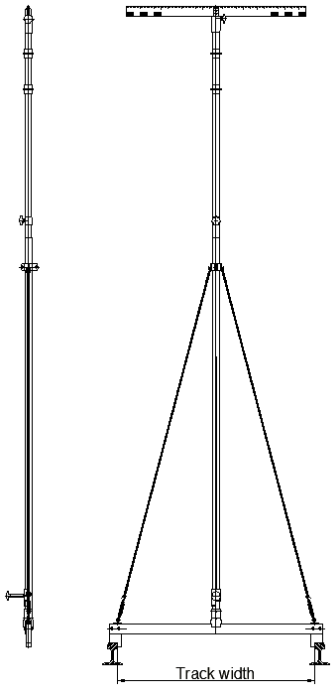
CONTACT WIRE MEASURING DEVICE

This unit is used to measure the height and stagger of the contact wire.

Application:
- Contact wire measuring

Technical description:
- Hot-dip galvanised sectional tubular steel supporting bar
- Slotted measuring tube
- Insulating rod with rain insulators
- Plastic surveyor's rod
- Movable sub frame (depending on the design)

Mobile type equipped by wheels



Stationary type without wheels

No	Description	Track width	Height, min.	Height, max.	Measuring range	Transporting length
		(mm)	(mm)	(mm)	(mm)	(mm)
304 130 003	Differential pressure sensor, mobile	1.435	4.630	6.300	+/- 600	3.000
304 130 130	Differential pressure sensor, mobile	1.425	4.630	6.300	+/- 600	3.000
304 131 131	Differential pressure sensor, stationary	1.425	4.630	6.300	+/- 600	3.000

**) Other measuring devices with different height range and track gauges available on request.*

Compression and Cutting Tools

MANUAL COMPRESSION TOOLS

Mechanical tools with open design of the compression head. The open design of the compression head allows the placement and removal of the compression pliers directly at the connection to be pressed without removing the compression dies.

MANUAL COMPRESSION PLIERS TYPE O2

Compressible cross sections:

- Copper up to 35 mm²
- Aluminium up to 50 mm²

Accessories:

- Case for mechanical hand compression tool, PRIMAT 02 and dies
- Holder for mechanical hand compression tool, PRIMAT 02 for clamping the tool into a vice

No	Type	Rotatable compression head	Compression force (kN)	Compressible cross sections Cu (mm²)	Compressible cross sections Al (mm²)	Compression dies type	Size (mm)
303 088 088	Primat O2	-	25	6 - 35	16 - 50	O2	370
303 527 527	Primat O2D	360°	25	6 - 35	16 - 50	O2	400

MANUAL COMPRESSION PLIERS TYPE O6

The manual crimping plier is equipped with a C-shaped crimping head that can be rotated through 360°. The telescopic handle is released and tightened by simply turning for infinitely variable length adjustment.

Primat O6-T

Primat GO6-T

No	Type	Rotatable compression head	Compression force (kN)	Compressible cross sections Cu (mm²)	Compressible cross sections Al (mm²)	Compression dies type	Size (mm)
303 871 002	Primat O6-T	360°	60	6 - 185	16 - 150	O6	540 - 750
303 871 003	Primat GO6-T	360°	60	6 - 240	16 - 185	GO6	550 - 760

COMPRESSION DIES TYPE O2 AND O6

For manual compression pliers type O2 and O6

No	Description	Type	Tool code	Compression Width (mm)
303 414 523	Oval Compression Die	O2	8 PO	5
303 109 468	Hexagonal compression die	O2	5	5
303 109 109	Hexagonal compression die	O2	6	5
303 109 110	Hexagonal compression die	O2	8	5
303 109 111	Hexagonal compression die	O2	10	5
303 109 400	Hexagonal compression die	O2	12	5
300 463 464	Oval Compression Die	O6	8 PO	5
300 463 465	Oval Compression Die	O6	10 PO	5
300 463 466	Oval Compression Die	O6	12 PO	5
300 463 467	Oval Compression Die	O6	16 PO	5
300 463 468	Oval Compression Die	O6	18 PO	5
300 463 469	Oval Compression Die	O6	20 PO	5
300 463 470	Oval Compression Die	O6	22 PO	5
300 463 473	Oval Compression Die	O6	25 PO	5
300 438 438	Hexagonal compression die	O6	5	5
300 438 439	Hexagonal compression die	O6	6	5
300 438 441	Hexagonal compression die	O6	8	5
300 438 443	Hexagonal compression die	O6	10	5
300 438 445	Hexagonal compression die	O6	12	5
300 438 446	Hexagonal compression die	O6	13	5
300 438 447	Hexagonal compression die	O6	14	5
300 438 448	Hexagonal compression die	O6	16	5
300 438 449	Hexagonal compression die	O6	18	5
300 438 451	Hexagonal compression die	O6	20	5

COMPRESSION DIES TYPE GO6

For manual compression pliers type GO6-T and battery powered compression tool PressMax 6

No	Description	Type	Tool code	Compression Width (mm)
300 379 001	Oval Compression Die	GO6	10 PO	13
300 378 382	Oval Compression Die	GO6	16 PO	5
300 378 383	Oval Compression Die	GO6	18 PO	5
300 378 384	Oval Compression Die	GO6	20 PO	5
300 385 386	Oval Compression Die	GO6	22 PO	5
300 353 353	Hexagonal compression die	GO6	5	5
300 353 354	Hexagonal compression die	GO6	6	5
300 353 356	Hexagonal compression die	GO6	8	5
300 353 358	Hexagonal compression die	GO6	10	5
300 353 360	Hexagonal compression die	GO6	12	5
300 353 361	Hexagonal compression die	GO6	13	5
300 353 362	Hexagonal compression die	GO6	14	5
300 353 363	Hexagonal compression die	GO6	16	5
300 353 364	Hexagonal compression die	GO6	18	5

COMPRESSION DIES TYPE C6

For battery-powered compression tool PressMax 6-C

No	Description	Type	Tool code	Compression Width (mm)
300 517 201	Oval Compression Die	C6	10 PO	13
300 517 202	Oval Compression Die	C6	16 PO	5
300 517 203	Oval Compression Die	C6	18 PO	5
300 517 204	Oval Compression Die	C6	20 PO	5
300 517 205	Oval Compression Die	C6	22 PO	5
	For Copper and Steel Connections			
300 517 001	Hexagonal compression die	C6	5	5
300 517 002	Hexagonal compression die	C6	6	5
300 517 003	Hexagonal compression die	C6	7	5
300 517 004	Hexagonal compression die	C6	8	5
300 517 005	Hexagonal compression die	C6	9	5
300 517 006	Hexagonal compression die	C6	10	5
300 517 007	Hexagonal compression die	C6	11	5
300 517 008	Hexagonal compression die	C6	12	5
300 517 009	Hexagonal compression die	C6	13	5
300 517 010	Hexagonal compression die	C6	14	5
300 517 011	Hexagonal compression die	C6	16	5
300 517 012	Hexagonal compression die	C6	18	5
300 517 013	Hexagonal compression die	C6	20	5
300 517 014	Hexagonal compression die	C6	22	5
300 517 015	Hexagonal compression die	C6	25	5
300 517 016	Hexagonal compression die	C6	28	5
	For Aluminium Connections			
300 517 101	Hexagonal compression die	C6	12	7
300 517 102	Hexagonal compression die	C6	14	7
300 517 103	Hexagonal compression die	C6	16	7
300 517 104	Hexagonal compression die	C6	18	7
300 517 105	Hexagonal compression die	C6	20	7
300 517 106	Hexagonal compression die	C6	22	7
300 517 107	Hexagonal compression die	C6	25	7
300 517 108	Hexagonal compression die	C6	27	7

COMPRESSION DIES TYPE C13

For battery-powered compression tool PressMax 14-A

No	Description	Type	Tool code	Compression Width (mm)	Remark
300 513 008	Hexagonal Compression Die	C13	12	14	
300 513 010	Hexagonal Compression Die	C13	14	14	
300 513 011	Hexagonal Compression Die	C13	16	14	
300 513 012	Hexagonal Compression Die	C13	18	14	
300 513 013	Hexagonal Compression Die	C13	20	14	
300 513 014	Hexagonal Compression Die	C13	22	14	
300 513 015	Hexagonal Compression Die	C13	25	14	
300 514 009	Hexagonal Compression Die	C13	28	14	
300 513 017	Hexagonal Compression Die	C13	32	5	
300 514 011	Hexagonal Compression Die	C13	34	7	For aluminium applications

HYDRAULIC COMPRESSION HEAD, Size III, 850 bar

Hydraulic tool head 850 bar with oil-loss-free coupling plug for two-stage high-pressure pumps ZHP, electrohydraulic high-pressure pump EHP and battery-operated high-pressure pump AHP with hose connection (coupling sleeve).

No	Type	Operating Pressure (bar)	Nominal compression force (kN)	Compressible cross sections Cu (mm^2)	Compressible cross sections Al (mm^2)	Stroke (mm)	Accessory
305 678 007	Size III	850	240	16 – 500	25 - 630	22,5	
305 678 009	Size III	850	240	16 – 500	25 - 630	22,5	With hook

COMPRESSION DIES SIZE III

For hydraulic compression head size III

COMPRESSION DIES FOR C- AND E-CLAMPS

No	Description	Size	Tool code	Compression Width (mm)
302 131 131	Compression die for compressing	III	DB 3	44
302 246 246	Compression die for detaching	III	DB 3-L	44

COMPRESSION DIES FOR RIVETED CONTACT WIRE SPLICES

No	Description	Size	Tool code
302 346 346	Compression die for riveting	III	DB 4-N / UIC-107
302 345 345	Compression die for detaching	III	DB 4-L / UIC-107

COMPRESSION DIES FOR WIRE JOINTS

No	Description	Size	Tool code	Compression Width (mm)
300 608 004	Hexagonal compression die	III	13	14
300 608 005	Hexagonal compression die	III	14	14
300 608 006	Hexagonal compression die	III	15	14
300 608 007	Hexagonal compression die	III	16	14
300 608 008	Hexagonal compression die	III	17	14
300 608 009	Hexagonal compression die	III	18	14
300 608 010	Hexagonal compression die	III	19	14
300 608 011	Hexagonal compression die	III	20	14
300 608 012	Hexagonal compression die	III	21	14
300 608 014	Hexagonal compression die	III	22	14
300 608 015	Hexagonal compression die	III	23	14
300 608 016	Hexagonal compression die	III	25	14
300 608 018	Hexagonal compression die	III	28	14
300 608 019	Hexagonal compression die	III	30	17
300 608 021	Hexagonal compression die	III	34	17
300 608 022	Hexagonal compression die	III	38	17
300 608 023	Hexagonal compression die	III	42	17
300 608 024	Hexagonal compression die	III	44	17

TWO-STAGE HIGH PRESSURE PUMP, 850 bar

The high-pressure unit is mounted on a galvanized U-frame. The valve body is made of an aluminium alloy, so the pump has a low weight. The high-pressure hose is equipped with an oil-loss-free coupling sleeve for connecting the compression head. The pump operates at rapid speed until the beginning of the compression phase, i.e. less strokes are necessary. A pressure relief valve protects the compression head from overloading.

No	Description	Operating Pressure (bar)	Nominal compression force (kN)	Hydraulic oil (cm^3)	Hose included, length (m)	Remarks
305 799 002	Two-stage high pressure pump	850	240	600	3	Operates in any position
SPARE PARTS						
300 772 776	Hose, 3m	850			3	
300 772 656	Hose, 4m	850			4	
300 772 312	Hose, 8m	850			8	

ELECTRO-HYDRAULIC HIGH PRESSURE PUMP, 850 bar

The high-pressure pump is installed in a handy carrying case. The well-proven double-hose system (supply and return) with control valve and oil-loss-free coupling sleeve for connecting a compression head completes the device. An overpressure valve protects the high-pressure pump against overload. The electric drive motor has a power consumption of 500 W. The power cable, which is suitable for use on construction sites, is 5 m long.

No	Description	Operating Pressure (bar)	Nominal compression force (kN)	Hydraulic oil (cm^3)	Power supply (V AC)	Hose included, length (m)
305 853 012	EHT, electro-hydraulic high pressure pump	850	240	650	230	3
305 853 013	EHT, electro-hydraulic high pressure pump	850	240	650	230	4
305 853 016	EHT, electro-hydraulic high pressure pump	850	240	650	230	8
SPARE PARTS						
300 772 776	Hose, 3m	850				3
300 772 656	Hose, 4m	850				4
300 772 312	Hose, 8m	850				8

PRESSMAX 6

BATTERY-OPERATED CRIMPING TOOL

The PressMax 6 has an ideal power to weight ratio for crimping jobs of up to 240 mm² according to DIN.
Especially the energy sector values their ergonomic design and the use of standard dies

Benefits

- Safe one-hand operation thanks to light-weight and well-balanced design with non-slip housing.
- Safe crimping even in confined spaces by narrow, rotatable crimping head with LED for lighting the working area.
- Standard spring and pin crimping dies.
- Very short crimping cycles by optimized 2-step hydraulic system.
- The accessories are interchangeable within the battery-operated hydraulic tool series from PFISTERER.

Crimping range		
Cu/Al accord. to DIN 48083		Cu: 10 – 240 mm2 Al: 10 – 240 mm2
ACSR		Al: 16 – 120 mm2 St: 2,5 – 25 mm2
Pre-Rounding		SE: 35 – 300 mm2 SM: 10 – 240 mm2

Specification

No.	Description	Crimping force	Stroke	Weight approx.	Dimensions
305 909 022	PressMax 6	60 kN	15 mm	3,1 kg	365 x 79 x 255 mm

Accessories

Crimping Dies	Please find detailed information in in this catalogue or our online catalogue: https://catalogue.pfisterer.com/ If you have any further questions please contact our Technical Service Team: pds.ets.support@pfisterer.com

Scope of delivery

Battery operated crimping tool PressMax 6
Lithium-ion battery IPP-30
Battery charger IMC-1 (AC)
Carrying strap and transportation case

PRESSMAX 6-C

BATTERY-OPERATED CRIMPING TOOL

The PressMax 6 has an ideal power to weight ratio for crimping jobs of up to 300 mm² according to DIN.
Especially the energy sector values their ergonomic design and the use of standard dies

Benefits

- Safe one-hand operation thanks to light-weight and well-balanced design with non-slip housing.
- Safe crimping even in confined spaces by narrow, rotatable crimping head with LED for lighting the working area.
- Standard 6-t C-shaped
- Very short crimping cycles by optimized 2-step hydraulic system.
- The accessories are interchangeable within the battery-operated hydraulic tool series from PFISTERER.

Crimping range		
Cu/Al accord. to DIN 48083		Cu: 10 – 300 mm2 Al: 10 – 300 mm2
ACSR		Al: 16 – 120 mm2 St: 2,5 – 25 mm2
Pre-Rounding		SE: 35 – 300 mm2 SM: 10 – 240 mm2

Specification

No.	Description	Crimping force	Stroke	Weight approx.	Dimensions
305 909 023	PressMax 6-C	60 kN	15 mm	3,4 kg	350 x 79 x 265 mm

Accessories

Crimping Dies	Please find detailed information in this catalogue or in our online catalogue: https://catalogue.pfisterer.com/ If you have any further questions please contact our Technical Service Team: pds.ets.support@pfisterer.com

Scope of delivery

Battery operated crimping tool PressMax 6-C
Lithium-ion battery IPP-30
Battery charger IMC-1 (AC)
Carrying strip and transportation case

PRESSMAX 14-A

BATTERY-OPERATED CRIMPING TOOL

Time-saving and patented wide crimps of 400 mm² (K 38) according to DIN underline the PressMax 14-A's leading market position in the class of battery-powered manual tools. This adds to its range of applications, especially in the electrical industry and overhead line construction, e.g. 265/35 connector (K38) and tubular busbar clamps (K34).

Benefits

- Safe one-hand operation thanks to light-weight and well-balanced design with non-slip housing.
- Safe crimping even in confined spaces by narrow, rotatable crimping head with LED for lighting the working area.
- Standard spring and pin crimping dies.
- Very short crimping cycles by optimized 2-step hydraulic system.
- The accessories are interchangeable within the battery-operated hydraulic tool series from PFISTERER.

Crimping range		
Cu/Al accord. to DIN 48083		Cu: 10 – 400 mm2 Al: 10 – 400 mm2
ACSR		Al: 16 – 340 mm2 St: 2,5 – 40 mm2
Pre-Rounding		SE: 35 – 300 mm2 SM: 10 – 300 mm2
Double Crimping Cable Lugs		50 - 120 mm2

Specification

No.	Description	Crimping force	Stroke	Weight approx.	Dimensions
305 909 024	PressMax 14-A	140 kN	22 mm	4,7 kg	365 x 76 x 265 mm

Accessories

Crimping Dies	Please find detailed information in in this catalogue or our online catalogue: https://catalogue.pfisterer.com/ If you have any further questions please contact our Technical Service Team: pds.ets.support@pfisterer.com

Scope of delivery

Battery operated crimping tool PressMax 14-A
Lithium-ion battery IPP-30
Battery charger IMC-1 (AC)
Carrying strip and transportation case

RS 5

BATTERY-OPERATED CUTTING TOOL

For cutting Cu- and Al-cable of up to ø 50 mm, e.g. NAYY 4 x 185 mm2 and single-stranded Cu up to 630 mm2; for energy supply and utility companies, service providers, as well as in telecommunications and the wind energy industry.

Benefits

- Excellent cutting pattern due to circular cut.
- Improved, shock-resistant housing with ergonomically arranged control elements.
- The robust, well concerted motor provides short cutting time.
- The low-weight tool (2.1 kg) allows a good ergonomic one-hand operation.
- The accessories are interchangeable in battery-operated hydraulic tool series of PFISTERER.

Technical data	
Cutting force	25 kN
Opening width	50 mm
Weight (without battery)	2,1 kg
Dimensions	110 x 190 x 365 mm
Article no.	**305 911 003**

Cutting ranges	**Ø mm**	**Cable up to**
Cu Strand	50 mm	630 mm²
Al Strand	50 mm	800 mm²
Cu / Al Round Material	*)	
Cu / Al Conductor fine stranded	50 mm	
Cu / Al Conductor very fine stranded	50 mm	
ACSR	-	
Cu Energy Cable	50 mm	630 mm²
Al Energy Cable	50 mm	800 mm², 4x 185 mm²

*) on request

Spare parts	
Cutting blades	Please contact our Technical Service Team: pds.ets.support@pfisterer.com

Scope of delivery
Lithium-ion battery IPP-30
Charger
Transportation Case RS 5

RS 5-F

BATTERY-OPERATED CUTTING TOOL

Cuts fine and very fine-stranded conductors (class 5 and 6 according to DIN VDE 0295); for energy supply and utility companies, service providers, as well as in telecommunications and the wind energy industry.

Benefits

- Cuts very fine-stranded conductors up to 630 mm2 Cu and Al.
- Excellent cutting pattern due to circular cut.
- Improved, shock-resistant housing with ergonomically arranged control elements.
- The robust, well concerted motor provides short cutting time.
- The low-weight tool (2.1 kg) allows a good ergonomic one-hand operation.
- The accessories are interchangeable in battery-operated hydraulic tool series of PFISTERER.

Technical data	
Cutting force	25 kN
Opening width	50 mm
Weight (without battery)	2,1 kg
Dimensions	110 x 190 x 365 mm
Article no.	**304 634 003**

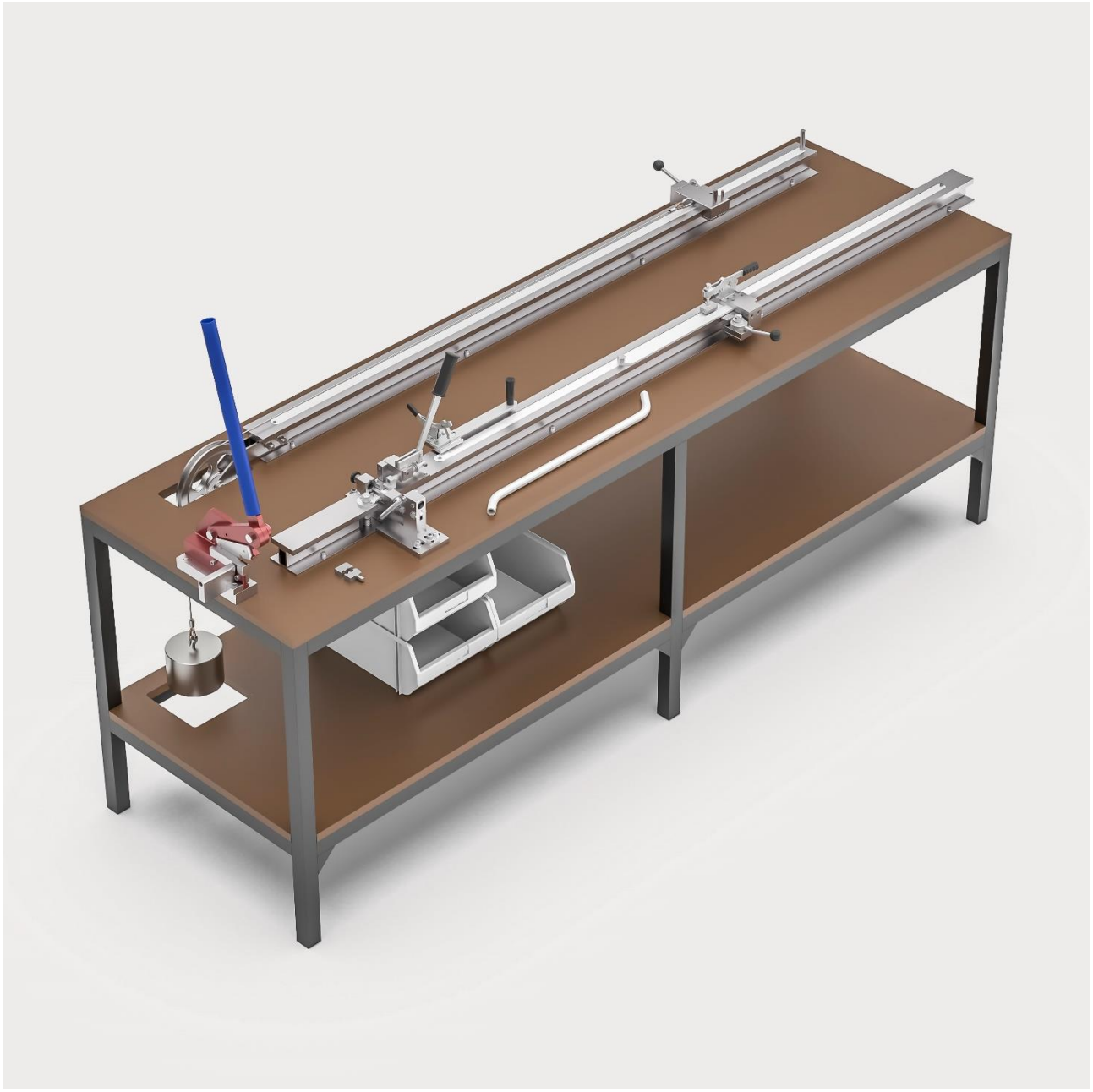
Cutting ranges	**Ø mm**	**Cable up to**
Cu Strand	*)	630 mm²
Al Strand	*)	800 mm²
Cu / Al Round Material	-	
Cu / Al Conductor fine stranded	50 mm	
Cu / Al Conductor very fine stranded	50 mm	
ACSR	-	
Cu Energy Cable	*)	630 mm²
Al Energy Cable	*)	800 mm², 4x 185 mm²

*) on request

Spare parts	
Cutting blades	Please contact our Technical Service Team: pds.ets.support@pfisterer.com

Scope of delivery
Lithium-ion battery IPP-30
Charger
Clamping inserts are not included in scope of delivery and must be ordered separately

Tools



COME-ALONG CLAMP

For copper cables and steel II cables with a tensile strength of up to 650 N/mm² according DIN 48201

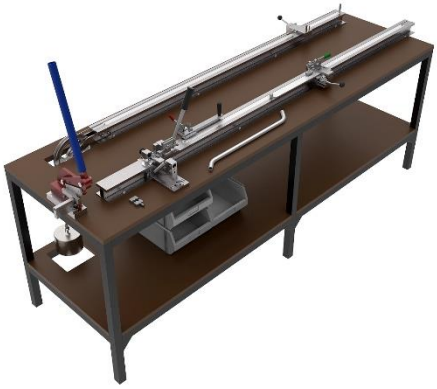
Application:
- Installation of cables

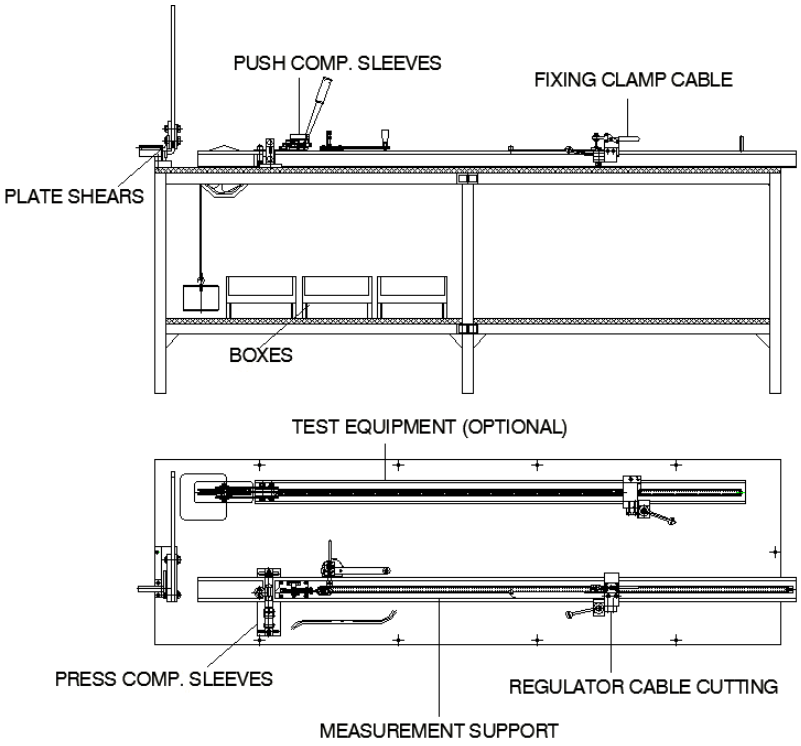
No	Conductor cross section (mm)	Diameter of conductor (mm)	Max. traction (kN)
330 656 002	6 – 35	3 – 9	10
330 656 003	16 – 70	4 – 12	17
330 656 004	50 – 150	6 – 18	30
330 656 005	90 – 400	10 – 28	35

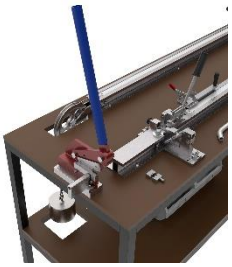
DROPPER MOUNTING BENCH

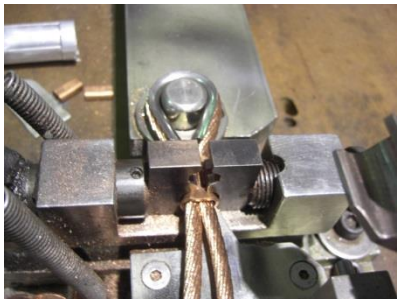
The dropper table is used to prefabricate complete PFISTERER droppers in various lengths and with different components and cables.

Application:
Dropper prefabrication







No	ID-code	Application	Wire cross section (mm)	Test equipment included
305 859 002	**MM 305.859.002.2**	Dropper with loop	25	-
625 015 016	**MM 625.015Y016**	Simple dropper without loop	25	-
305 859 001	**MM 305.859V1**	Droppers with loop	16	-
625 035 095	**MM 625.35.95**	Droppers with loop	16	yes

Other configuration on request