



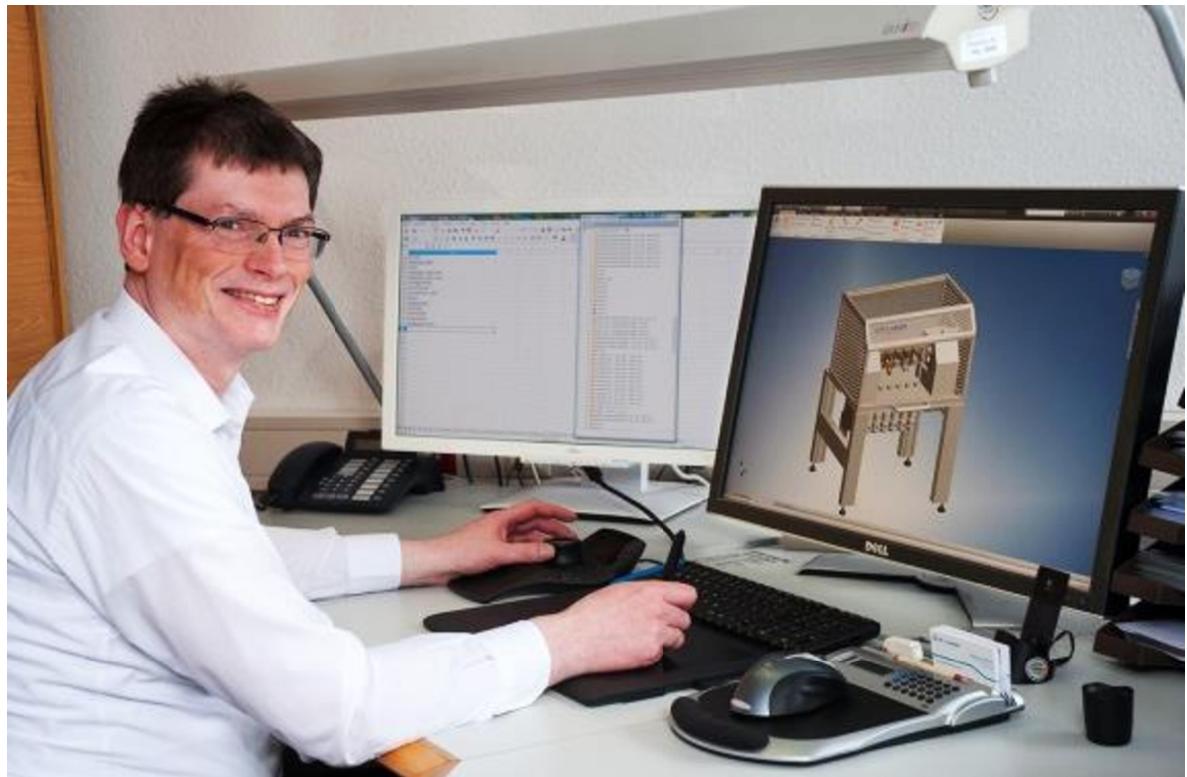
**Kabelprüfgeräte und
Vorrichtungen**

cable testing equipments

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SONDERMASCHINENBAU SPECIAL MACHINERY

Unsere Leistungen

- Planung
- Konstruktion
- Prototypenbau
- Serienfertigung
- Prüfung
- Vermarktung

our services

- development
- design
- prototyping
- series production
- testing
- marketing

Beispiele aus unserem Fertigungsprogramm

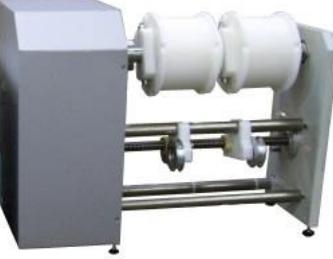
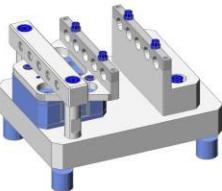
- Kabelprüfgeräte
- Kraft-Längen Messgeräte
- Lamellenmaschinen
- Faltenmaschinen
- Forschungsgeräte
- Hilfsgeräte

examples of our manufacturing program

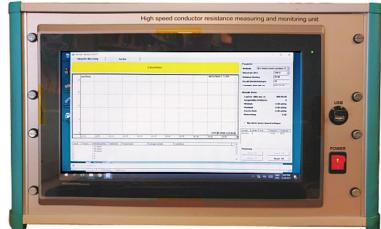
- cable testing device
- force-length gauges
- louvers machinerys
- Pleating machines
- research instruments
- auxiliary devices

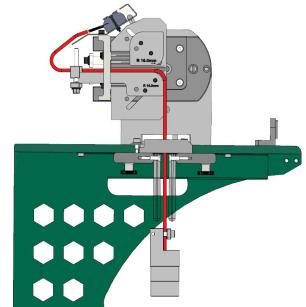


	<p>101 - Alternating bending test device</p> <p>Wechsel - Biegeprüfgerät</p> <p><i>Alternating bending test device</i></p>
	<p>105 - Alternating bending test device</p> <p><i>reinforced version</i></p> <p>Wechsel – Biegeprüfgerät</p> <p>Schwerlast Ausführung</p> <p><i>Alternating bending test device</i></p> <p><i>reinforced version</i></p>
	<p>230 - Torsion bending test device</p> <p>Torsions – Biegetestgerät</p> <p><i>Torsion bending test device</i></p>

	<p>170 - Cable winding swivel tester</p> <p><i>Kabelwickel – Schwenktestgerät</i></p> <p><i>Cable winding swivel tester</i></p>
	<p>240 - Fall tower</p> <p><i>Fallturm</i></p> <p><i>Fall tower</i></p>
	<p>200 - Abrasion resistance test device core/core</p> <p><i>Abrieffestigkeitstestgerät Ader/Ader</i></p> <p><i>Abrasion resistance test device core/coe</i></p>
	<p>220 - Fretting corrosion test device</p> <p><i>Reibkorrosionsprüfvorrichtung</i></p> <p><i>Fretting corrosion test device</i></p>
	<p>210 - Torsion cable test device</p> <p><i>Torsions – Kabelprüfgerät</i></p> <p><i>Torsion cable test device</i></p>

	<p>190 - Cable bending test device</p> <p>Kabelbiegeprüfgerät</p> <p>Cable bending test device</p>
	<p>240 - Fall tower</p> <p>Falltrommel</p> <p>fall drum box</p>
	<p>252 - Alternating-bending- or Flexlife-Tester for strands</p> <p>Smaller and cheaper Flex Life Tester for individual wires or strands</p>
	<p>251 - Tester for charging cable</p> <p>Tester for charging cable of electric vehicles for combined bending and torsion testing</p> <p>cablediameter to 40mm</p> <p>Testweights to 100 Kg</p>

	<p>250 - MetaScope 4 – Measurement of metal layers on copper wires</p> <p>The MetaScope 4 is a device for measuring tin, silver and nickel layers on copper wires</p>
	<p>160 - FlexibilityTest</p> <p><i>Flexibility Test</i></p>
	<p>290 - High speed conductor resistance measuring and monitoring unit</p> <p><i>Hochgeschwindigkeits-Leiterwiderstandsmess- und Überwachungsgerät</i></p> <p><i>High speed conductor resistance measuring and monitoring unit</i></p>



Alternating bending test device

For alternating bending resistance tests according to ISO DIS 19642-2 (ISO 14572) - LV 112

Holders for max. 6 test specimens

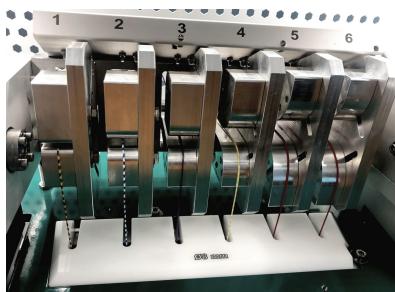
Exchangeable bending rollers or bending segments and weights

Continuous electronic cable breakage monitoring

Operating temperature -40 °C to +80 °C

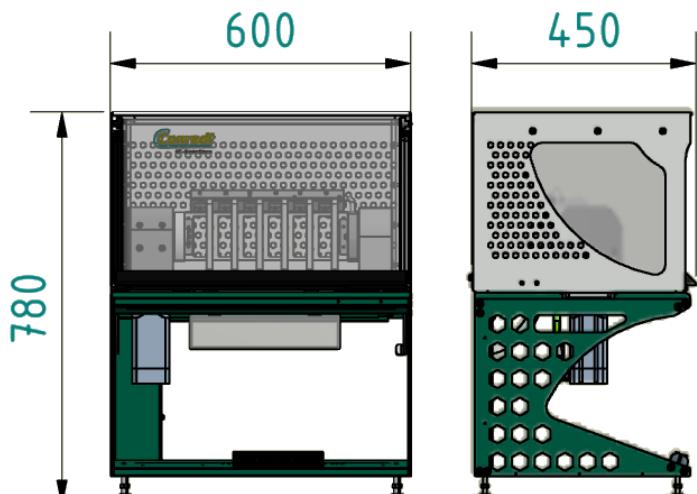
Drive via programmable servo controller

various additional options are possible



Alternating bending test device

- Swivel holder for 6 cable test specimens.
- Driven by servo motor. Smooth test sequence is thus always guaranteed
- The test specimen holders are individually screwed to the swivel frame and can thus be retooled with various bending rollers and segments.
- Max. bending radius R 80 mm
- Continuous continuity measurement with 0.1 A
- Each cable breakage lasting at least 10 msec is logged.
- The controller is connected to the device by a 5-m long cable with plug.
- Control unit with colour touch display for inputting:
 - stop if one cable already broken
 - swivel angle from $\pm 10^\circ$ to $\pm 90^\circ$.
 - number of test cycles
 - rotary speed up to max. 60 rpm
 - program number
- Several selectable test modes:
 - stop if all cables broken
 - break if one cable already broken
 - break at a freely programmable cycle count
 - continuous run to the end of the specified number of test cycles.
- The system is designed for an environmental temperature of -40 °C to +80 °C.
- Only rustproof material is used
- 230 V AC; 50 Hz; 2,3 kW



Options:

- * custom and new designs of all kinds
- * system complete with climatic chamber
- * communication with PLC of the climatic chamber
- * temperature measurement and logging
- * continual resistance measurement
- * storage and output via
 - USB or TCP/IP to the PC:
 - START / STOP date and time
 - test parameters
 - test modes
- * individual design of the input mask and sequence control



This device was developed in co-operation with LABCO.

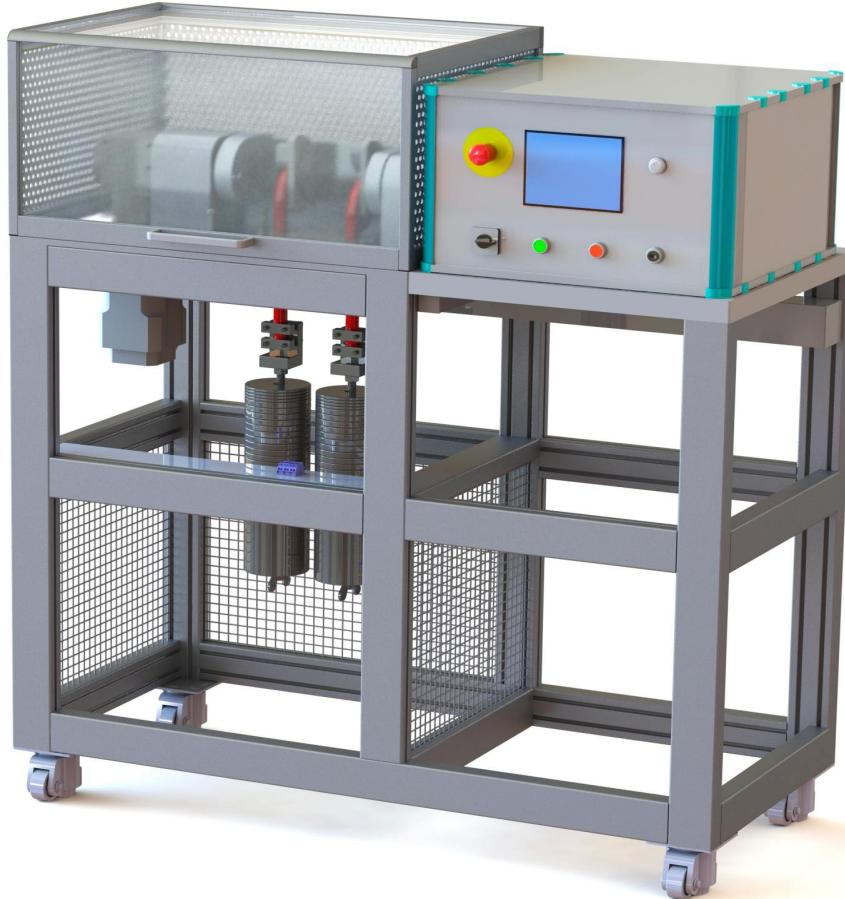


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Alternating bending test device reinforced version

For alternating bending resistance tests according to ISO DIS 19642-2 (ISO 14572) - LV 112

Holders for 2 test specimens each weighing 32 Kg

Exchangeable bending rollers or bending segments and weights

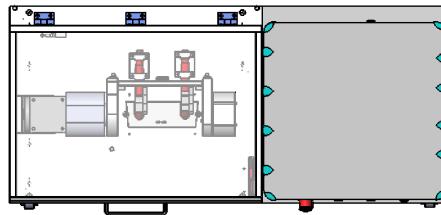
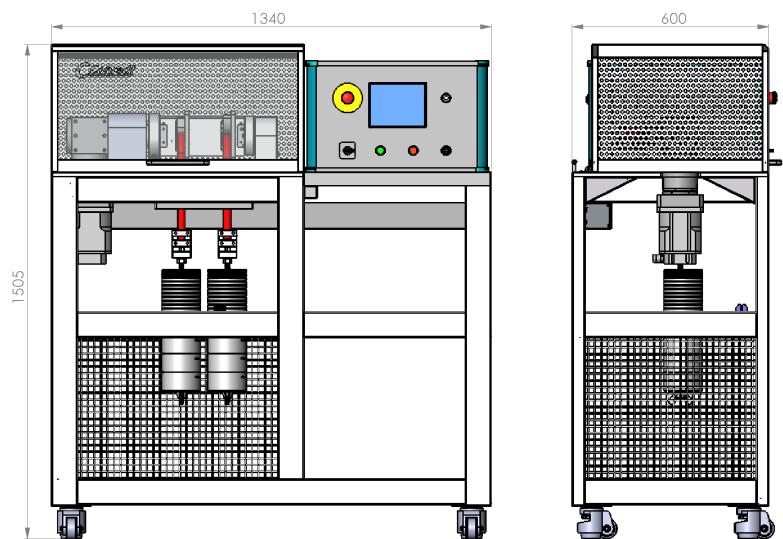
Continuous electronic cable breakage monitoring

Drive via programmable servo controller

various additional options are possible

Alternating bending test device reinforced version

- Swivel holder for 2 cable test specimens.
- max test weights 32 Kg / Cable
- max cable diameter 23mm
- Driven by servo motor. Smooth test sequence is thus always guaranteed
- The test specimen holders are individually screwed to the swivel frame and can thus be retooled with various bending rollers and segments.
- Max. bending radius R 80 mm
- Continuous continuity measurement with 0.1 A
- Each cable breakage lasting at least 10 msec is logged.
- Control unit with colour touch display for inputting:
 - stop if one cable already broken
 - swivel angle from $\pm 10^\circ$ to $\pm 90^\circ$.
 - number of test cycles
 - rotary speed up to max. 60 rpm
 - program number
- Several selectable test modes:
 - stop if all cables broken
 - break if one cable already broken
 - break at a freely programmable cycle count
 - continuous run to the end of the specified number of test cycles.
- Only rustproof material is used
- 400 V 16A ; 50 Hz; 5 kW CEE 5x16A



Options:

- * custom and new designs of all kinds
- * system complete with climatic chamber
- * communication with PLC of the climatic chamber
- * temperature measurement and logging
- * continual resistance measurement
- * storage and output via
 - USB or TCP/IP to the PC:
 - START / STOP date and time
 - test parameters
 - test modes
- * individual design of the input mask and sequence control



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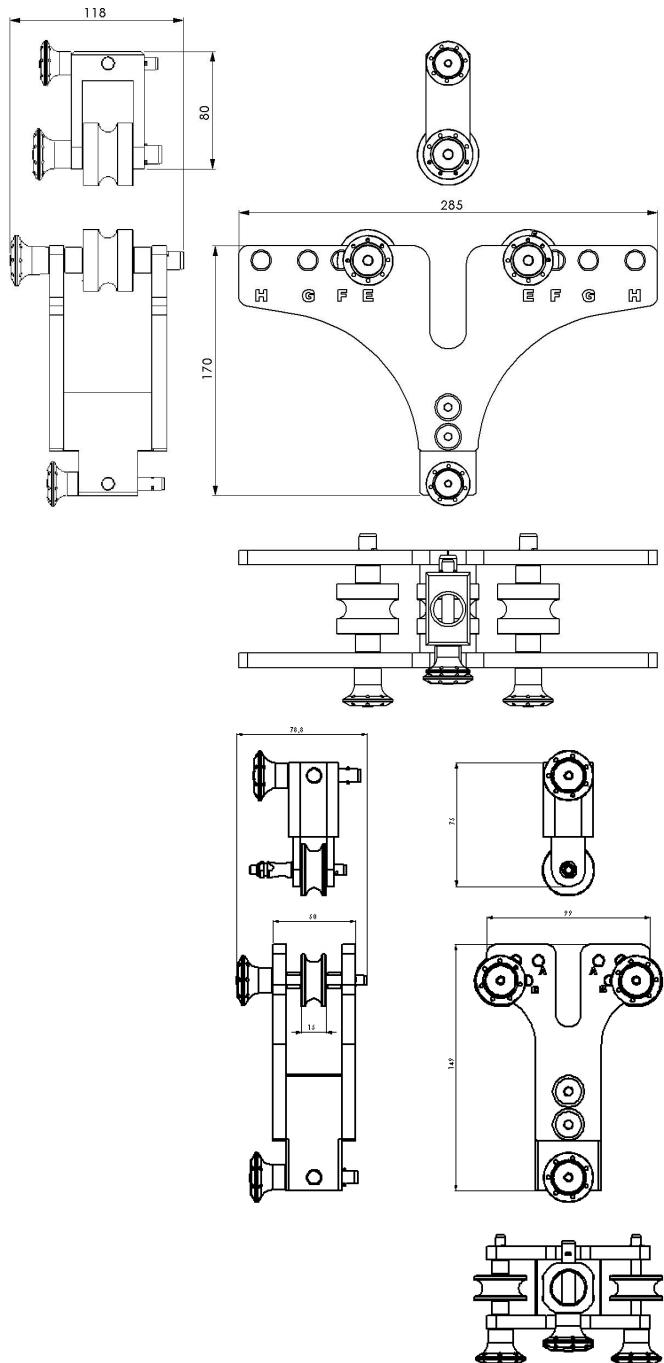


FlexibilityTest

- For flexibili Test according ISO 19642-2:2017
- Simple to operate
- Simply exchangeable pulleys
- *simply adjusting the adaptation between test unit
and customer's tensile testing machine*

FlexibilityTest

- Two units for test A / B / C / D / E / F / G / H
- Simply exchange test pulleys by locking pins with axial lock
- simply adjust the adaptation between the test unit and the customer's tensile strength testing machine



Options:

- * all kinds of special designs

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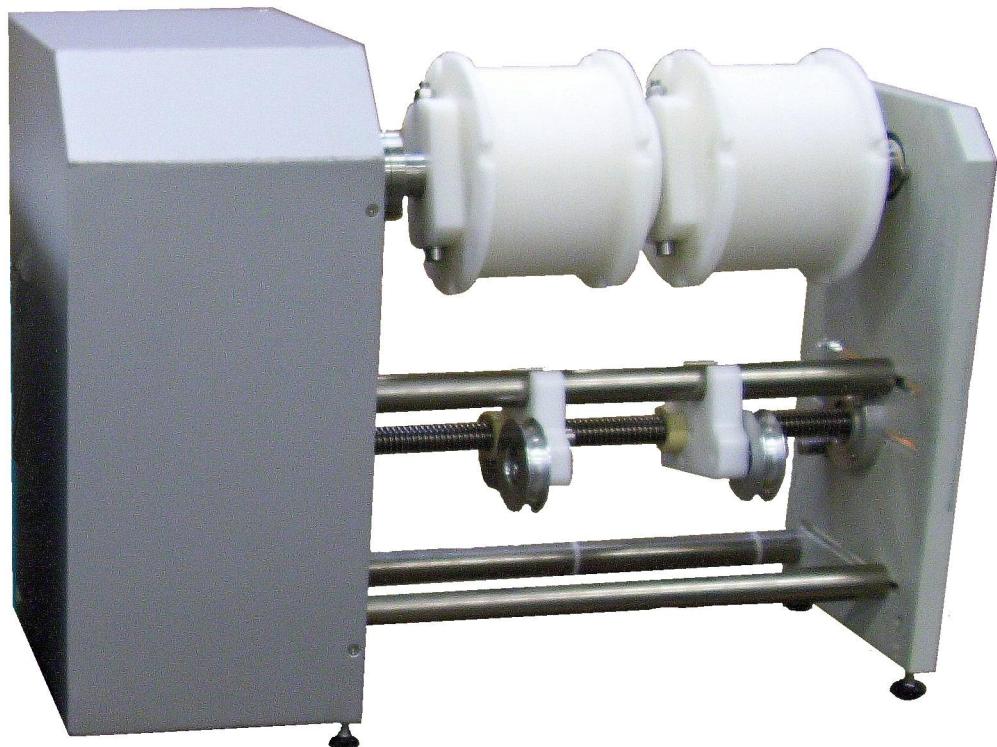
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Cable winding swivel tester

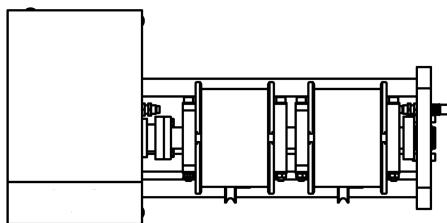
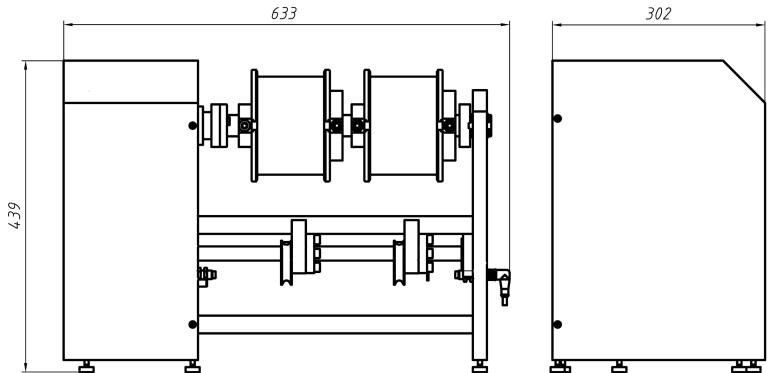
- For cable winding resistance tests
- Or swivel test device
- Holders for several test specimens at the same time
- Exchangeable drive shaft
- Exchangeable winding rollers or winding pulleys
- Operating temperature -40 °C to +80 °C
- *Operation via programmable servo controller*

Cable winding swivel tester

- Winding shaft driven by servo motor
- Divided winding bobbins for fast changing to various winding diameters.
- Fast exchange of the mounting shaft for different test methods
- Test specimens can be loaded to a max. total of 90 kg
- The controller is connected to the device by a 5-m long cable with plug.

- Multiple test modes:
 - winding alongside each other
 - with or without countershaft
 - winding above one another
 - swivelling test with right/left swivelling
alternate bending up to $\pm 160^\circ$

- Control unit with colour touch display allows input of test parameters including:
 - speed and number of winding-up/unwinding.
 - possible waiting time
 - speed and number of revolutions for unwinding.
 - number of test cycles (revolutions):
 - rotary speed up to max. 60 rpm
 - program number
 - test number
- The system is designed for an environmental temperature of -40°C to $+80^\circ\text{C}$.
- Only rustproof materials are used.
- Power-rating: 230 V AC 50 Hz 1.25 kW



Options:

- * bespoken designs available including
- * system complete with climatic chamber
- * communication with PLC of the climatic chamber
- * temperature measurement and logging
- * storage and output via
 - USB or TCP/IP to the PC:
 - START / STOP date and time
 - test parameters
 - test modes
- * individual design of the input mask and sequence control



This device was developed in co-operation with LABCO.



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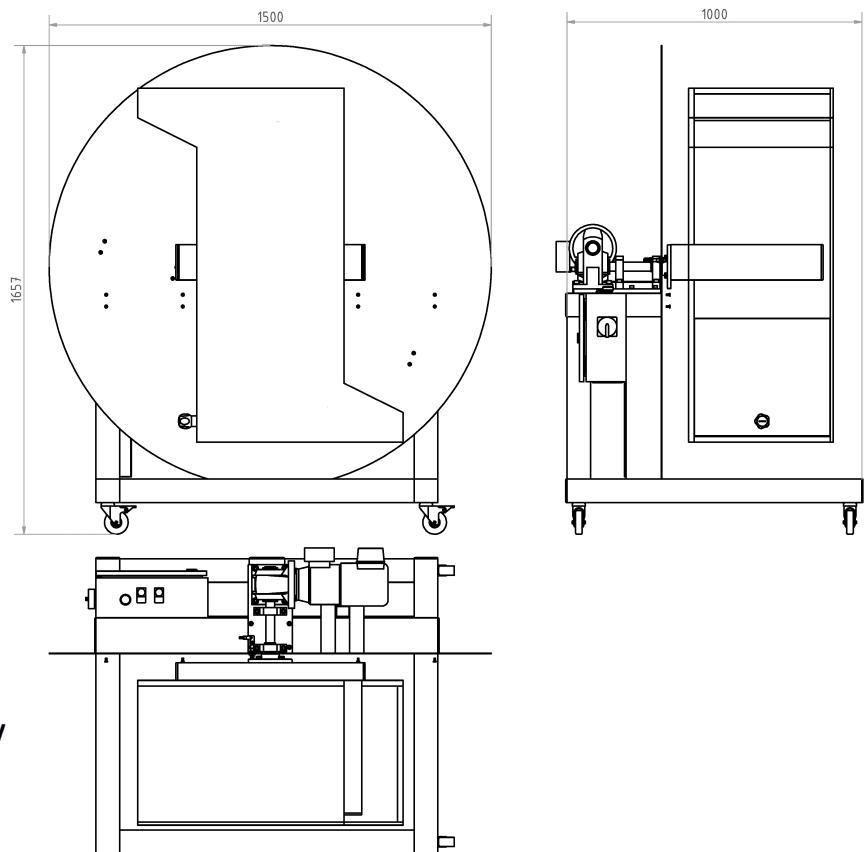


fall drum box

- For falling tests according to LV 214 (VW 75174)
- For testing the stability and locking of housings according to DIN EN 60068-2-31 / -32
- Variably adjustable or preset drop speed
- Fall height: 1000 mm
- Interchangeable drop drum
- Front wall in form of clear-view screen
- On lockable steering castors, thus easy to move

fall drum box

- Built of stable aluminium construction profiles
- Rotary drum with clear front wall and two impact plates made of stainless steel.
- Large volume, hence several test specimens can be tested simultaneously
- Fall height 1000 mm
- Interchangeable drop drum
- Speed of rotary drum finely adjustable.
- Adjustable preset number of revolutions.
- Built on steering castors with lock. Thus easy to move
- Driven by worm gear motor.
- Power-rating: 230 V AC ; 300 W



LABCO

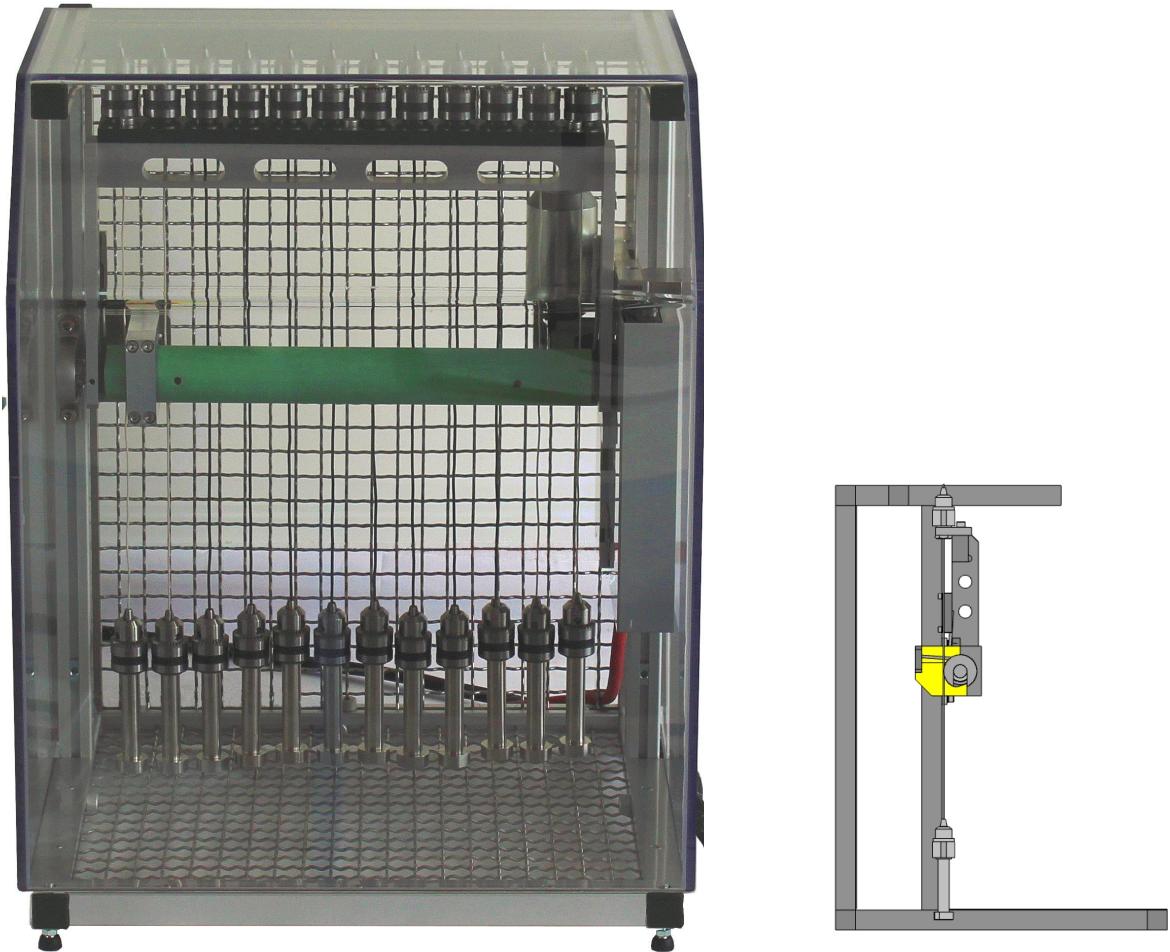
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Cable bending test device

For cable bending resistance tests according to VW75206-1 LV 213-1

Holders for 12 test specimens at the same time

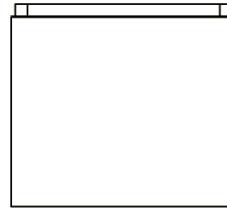
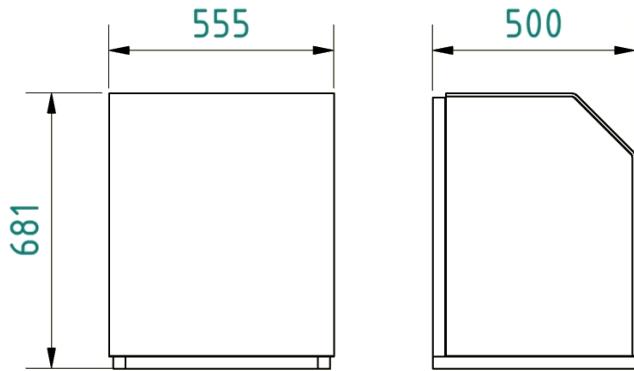
Alternating bending angle adjustable up to 180°

Optional: constant checking for cable breakage and short-circuit between the cores

Operating temperature -40 °C to +105 °C

Cable bending test device

- Bending shaft driven by DC motor
- Holders for 12 test specimens at the same time
- Optional: constant checking for cable breakage and short-circuit between the cores.
- Optional: each cable breakage / short-circuit is logged.
- The controller is connected to the device by a 5-m long cable with plug.
- Control unit with colour touch display for inputting the test parameters:
 - speed
 - possible waiting time between cycles
 - number of test cycles
 - program number
 - order number
- The system is designed for an environmental temperature of -40 °C to +105 °C.
- Only rustproof materials are used.
- Power-rating: 230 V AC 50 Hz 960 W



Options:

- * special designs of all kinds
- * Execution also for high temperatures > +120 °C
- * system complete with climatic chamber
- * communication with PLC of the climatic chamber
- * temperature measurement and logging
- * storage and output via
 - USB or TCP/IP to the PC:
 - START / STOP date and time
 - test parameters
 - test modes
- * individual design of the input mask and sequence control



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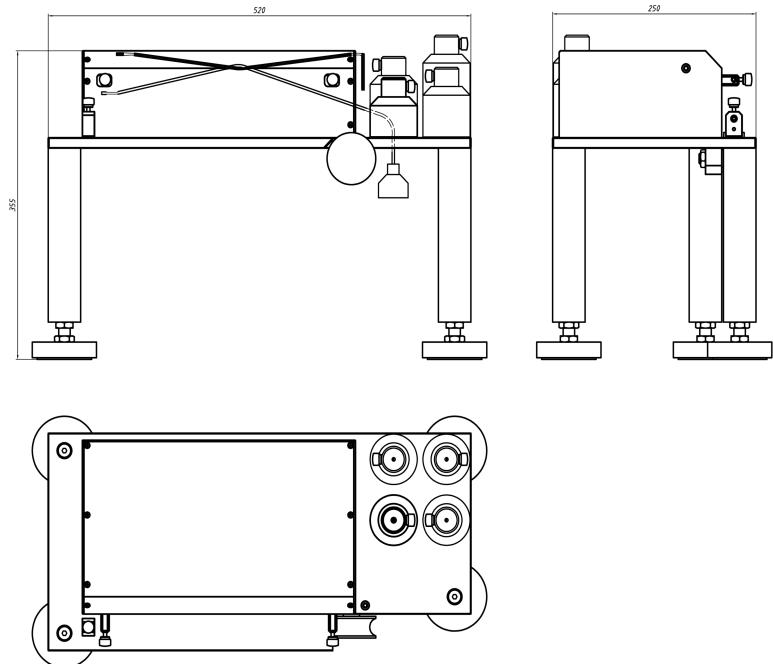


Abrasion resistance test device core/core

- For abrasion resistance tests according to PSA B21 1110
- Simple to operate
- Simply exchangeable weights
- Adjustable vibration frequency
- *Adjustable preset counter*

Abrasion resistance test device core/core

- Electric drive
- Simply exchangeable loading weights
- Adjustable vibration frequency
- Adjustable preset counter
- Only rustproof materials are used.
- Power-rating: 230 V AC 50 Hz 100 W



Options:

* special designs of all kinds



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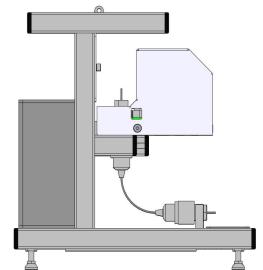


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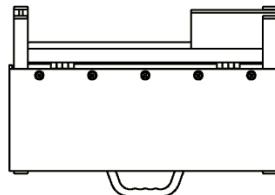
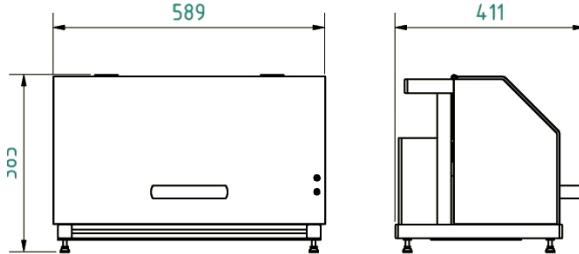


Torsion cable test device

- For cable torsion bending resistance tests according to VW75206-1 LV 213-1 / -2
- Holders for 12 test specimens at the same time
- Alternating torsion test adjustable up to $\pm 90^\circ$
- optional: Constant checking for cable breakage and short-circuit between the cores
- Operating temperature -40 °C to +105 °C

Torsion cable test device

- Torsion shaft driven by DC-motor
- Holders for 12 test specimens at the same time
- optional: Constant checking for cable breakage and short-circuit between the cores.
- Optional: Each cable breakage / short-circuit is logged.
- The controller is connected to the device by a 5-m long cable with plug.
- Control unit with colour touch display for inputting the test parameters:
 - speed
 - possible waiting time between cycles
 - number of test cycles
 - program number
 - order number



- The system is designed for an environmental temperature of -40 °C to +105 °C.
- Only rustproof materials are used.
- Power-rating: 230 V AC 50 Hz 960 W

Options:

- * special designs of all kinds
- * Execution also for high temperatures > +120 °C
- * system complete with climatic chamber
- * communication with PLC of the climatic chamber
- * temperature measurement and logging
- * storage and output via
 - USB or TCP/IP to the PC:
 - START / STOP date and time
 - test parameters
 - test modes
- * individual design of the input mask and sequence control



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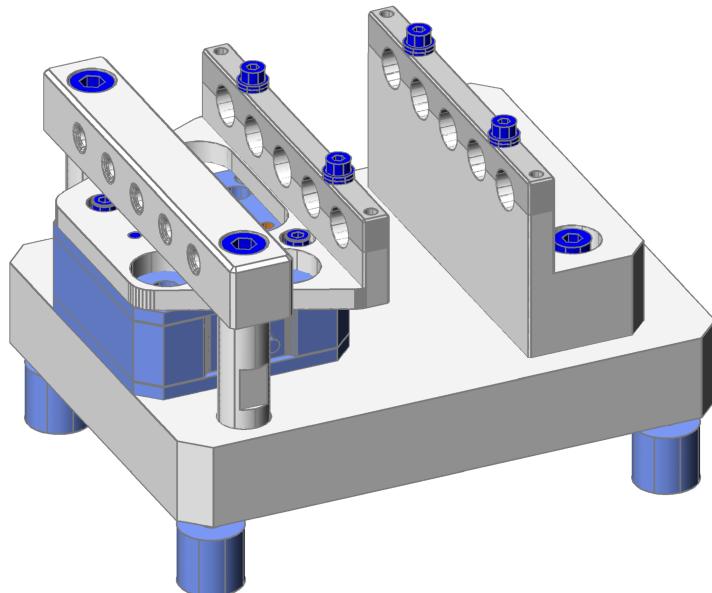


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Fretting corrosion test device

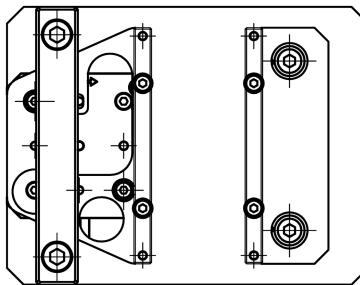
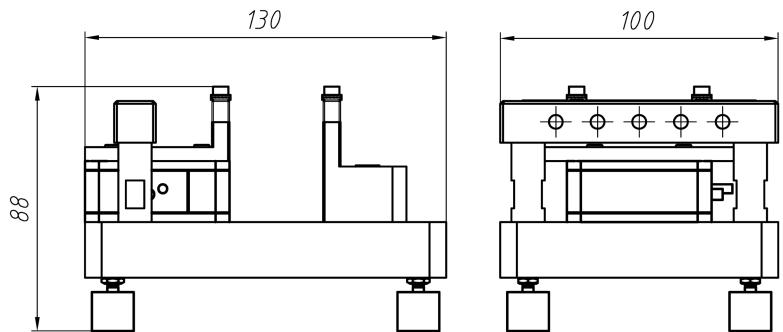
- For cable bending resistance tests according to VW75174 (PG16) LV 214 (PG16)
- Holders for 5 test specimens at the same time
- Stroke 0.1 to 200 µm
- Tensile force max. 100 N
- optional: constant continuity test
- Operating temperature -20 °C to +80 °C
- *Drive via programmable controller*

Fretting corrosion test device

- Micro driven test slide
- Holders for 5 test specimens at the same time
- Stroke 0 - 200 µm, programmable
- Accuracy 4 nm
- Tensile force max. 100 N
- Optional:

constant checking for continuity
 each interruption in continuity is logged.
 display of the ACTUAL position
 vacuum and low-temperature version

- The controller is connected to the device by a 5-m long cable with plug.
- Control unit with colour touch display for inputting the test parameters:
 - speed 0.1 to 999 Hz in 0.1 Hz steps
 - stroke length 0 - 200 µm
 - possible waiting time between cycles
 - number of test cycles
 - program number
 - order number
- The system is designed for an environmental temperature of -20 °C to +80 °C.
- Only rustproof materials are used.
- Power-rating: 230 V AC 50 Hz 500 W



Options:

- * special designs of all kinds
- * system complete with climatic chamber
- * communication with PLC of the climatic chamber
- * temperature measurement and logging
- * storage and output via
 - USB or TCP/IP to the PC:
 - START / STOP date and time
 - test parameters
 - test modes
- * individual design of the input mask and sequence control



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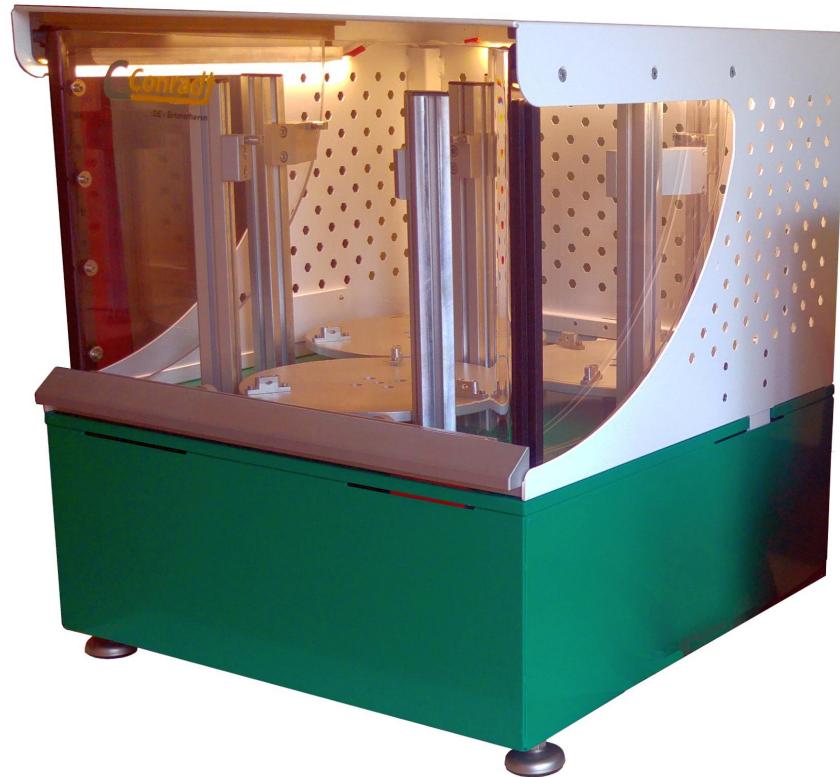


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Torsion bending test device

- Cable torsion bending resistance tests according to VW75206-1 LV 213-1 / -2
(e.g. for HSD cables)
- holders for nine test specimens at the same time
- Operating temperature -40 °C to +80 °C

Torsion bending test device

Torsion shaft driven by electro motor

Three synchronously driven turntables, each with three test specimen holders.

A total of nine test specimens can be tested at the same time

The controller is connected to the device by a 5-m long cable with plug.

Control unit with color touch display for inputting the test parameters:
speed
torsion angle
possible waiting time between cycles
number of test cycles
program number
order number

The system is designed for an environmental temperature of -40 °C to +80 °C.

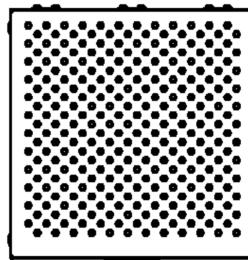
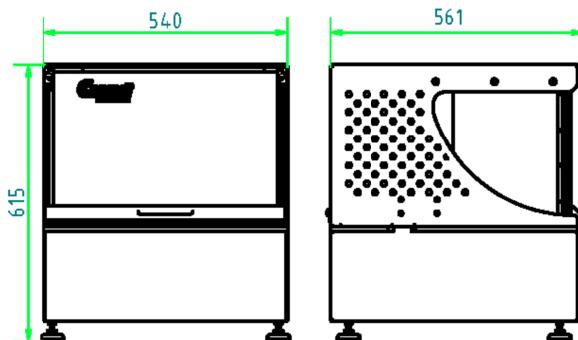
Only rustproof materials are used.

according to European safety standards (CE)

Power-rating: 230 V AC 50 Hz 1.1 kW

Dimensions:

width 540 x depth 561 x height 615 mm



Options:

- * special designs of all kinds
- * system complete with climatic chamber
- * communication with PLC of the climatic chamber
- * temperature measurement and logging
- * storage and output via
 - USB or TCP/IP to the PC:
 - START / STOP date and time
 - test parameters
 - test modes
- * individual design of the input mask and sequence control



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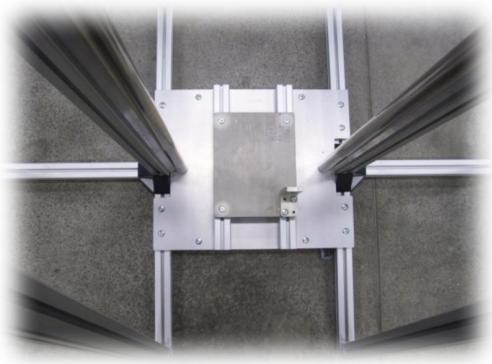
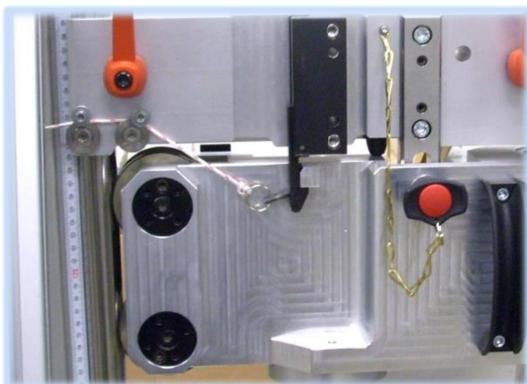
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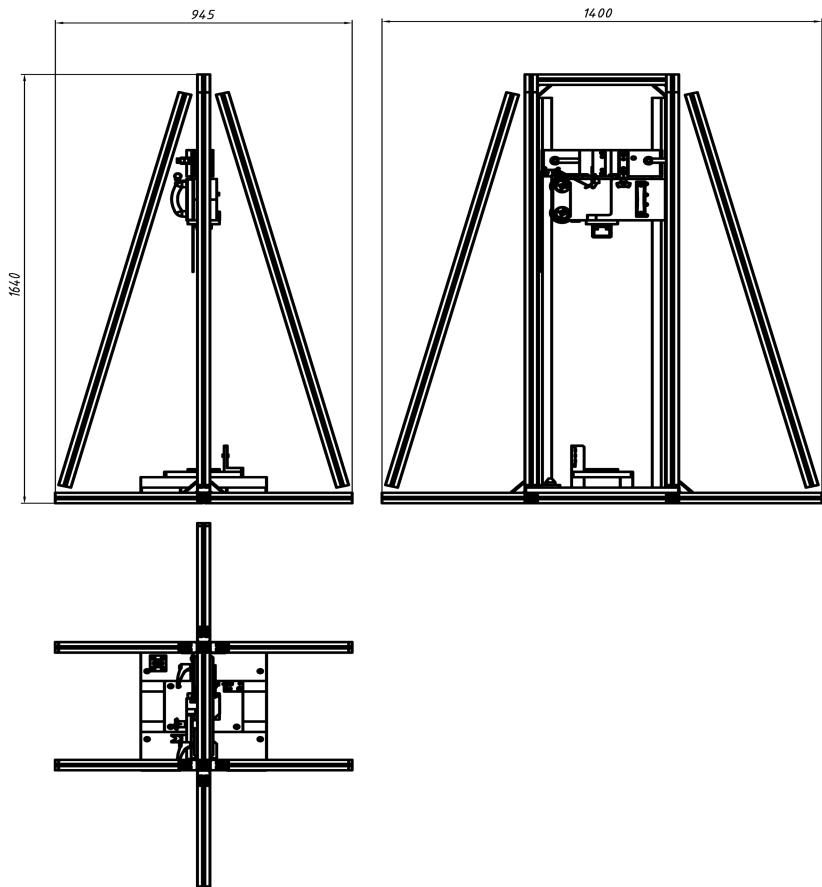
Fall tower

- For falling tests according to LV 312-3 (VW 60360-3)
- Variably adjustable fall height
- Fall weight 10 kg (optionally changeable)
- With high-speed light barriers for exact speed measurement
- *Exchangeable fall tools*



Fall tower

- Built of stable aluminium construction profiles
- Fall weight 10 kg
- Fall height freely adjustable for various impact speeds.
- The impact speed is calculated by two high-speed light barriers and logged.
- The fall tools are easy to exchange:
- Remote control: fall process can be triggered by cable-pull
- Only rustproof materials are used.



Options:

* special designs of all kinds



LABCO

This device was developed in co-operation with LABCO.

Conradt

Konstruktion und Fertigung Sondermaschinen und -Vorrichtungen
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MetaScope 5 – Messung von Metallschichten auf Kupferdrähten

Das MetaScope 5 ist ein Gerät zur Messung von Zinn-, Silber- und Nickelschichten auf Kupferdrähten, das nach dem coulometrischen Prinzip arbeitet. Hierbei wird die beim elektrolytischen Ablösen transportierte Ladung gemessen, die bei definierter Drahtoberfläche der jeweiligen Schicht proportional ist. Zum Lieferumfang gehört ein Messgerät mit 7"-Touchscreen sowie eine Elektrolysevorrichtung mit Magnetrührer, Becherglas und Absenkvorrichtung für die Drahtprobe. Das Gerät arbeitet nach dem Verfahren der DIN EN ISO 21771.

Technische Daten Messgerät

Abmessung: B320 x H85 x T170 mm ; Gewicht: 3,5 kg ; Betriebstemperatur: 15 °C – 35 °C

TFT-Touch-Display: 7 Zoll kapazitiv ; 800 x 480 Pixel, farbig

Stromanschluss: 100 – 240 V, 50 – 60 Hz ; max 75W

Anschlüsse: M12 Stecker ; 8-polig ; USB-Buchse Typ

Messbereich: 0,2 – 30 µm

Magnetrührer

Material: PVC, schwarz

Abmessung: B210 x H140 x T330 mm ; Gewicht: 2,3 kg

Absenkvorrichtung: Messing, vernickelt

Rührwerk: Schrittmotor mit

Stabmagnet ; Mulde für Becherglas: Ø 107 mm

Anschluss: 1 m Leitung mit 8-poliger, gewinkelter M12-Buchse



Prüfstand für Ladekabel

Prüfstand für Ladekabel von Elektrofahrzeugen für eine kombinierte Biegewechsel- und Torsionsprüfung

Der Bedarf an Kabeln zum Laden der Akkus von Elektrofahrzeugen steigt permanent an. Um die hohen Anforderungen an die Flexibilität solcher Kabel garantieren zu können, müssen sie aufwendigen Prüfungen unterzogen werden. Entwickelt wurde ein. Eine große Drehscheibe wird mit einem 1KW Servomotor angetrieben, die Torsionsbewegung wird von einem Robolink Gelenk übertragen

Die Kabel mit einem Außendurchmesser von bis zu 40mm können mit Prüfgewichten bis max. 100 Kg belastet werden.

Die Steuerung wurde auf einem Klein-Rechner mit Touch-Display realisiert. Diese weit verbreitete und sehr kompakte Plattform steuert die Bewegungsabläufe über per Canbus und registriert Leitungsunterbrechungen auf 24 Kanälen. Die Prüfergebnisse werden auf einem USB-Stick gespeichert.

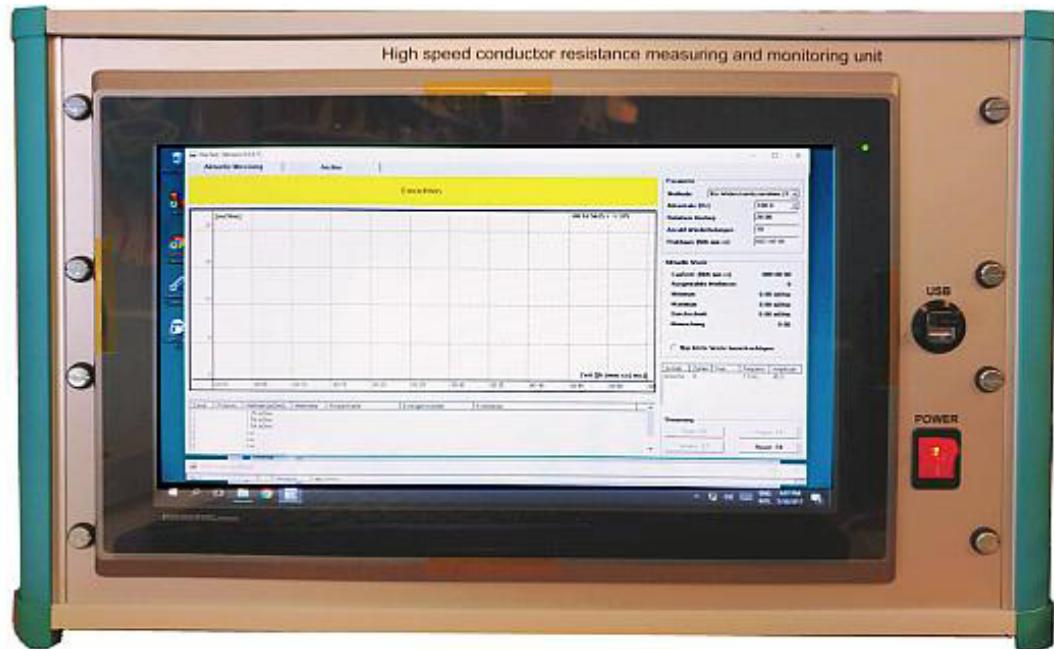




Biegewechsel- bzw. Flexlife-Tester für Einzellitzen

- Biegewechsel- bzw. Flexlife-Tester für Einzellitzen
- Kleiner und günstiger Flexlife Tester für einzelne Drähte oder Litzen.

Das Gerät wurde in Anlehnung an die **ISO14572** entwickelt, um die Flexibilität von Drähten, Litzen und Leitungen zu prüfen. Hierbei wird ein Prüfling abwechselnd um zwei Radien mit einem Winkel von ± 90 Grad gebogen bis eine Unterbrechung festgestellt wird. Die Anzahl der Zyklen bis zur Unterbrechung ist auf einem 8-stelligen Zählermodul ablesbar. Die Biegeschwindigkeit ist in einem Bereich von 20 – 110 Zyklen/Minute einstellbar.



High speed conductor resistance measuring and monitoring unit

Stand alone or in combination of Alternate Bending Cable Testing Device

Linear measuring resistance during the test

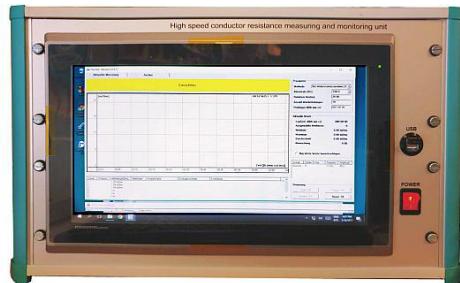
24 channels in 4-wire technology

sampling rate: 100Hz/channel

200, 2.000, 20.000, 200.000 mOhm

High speed conductor resistance measuring and monitoring unit

- Linear measuring resistance during the test
- 24 channels in 4-wire technology
- sampling rate: 100Hz / channel
0,5 ; 1 ; 2 ; 2,5 ; 5 ; 10 ; 20 ; 25 ; 33,3 ; 50 ; 100 Hz
- Measuring-unit with LAN Interface
- 200, 2.000, 20.000, 200.000 mOhm
with autorange
- resolution 16bit (3 μ Ω to 200mΩ range)
- Continuous current: 1mA and 100mA, respectively
- Afast rate: 5 Million
- sensor input: 5V to 24V, Opto coupler,
sampling rate 50 Hz
- Control and readout with PC and monitor
- In combination of Alternate Bending Cable Testing Device up to 6
channels also with 6 different cross-section resistance
measurements
- Language (available) EN , DE , FR , NL other on request



- Width 380 mm
- Depth 350 mm
- Height 250 mm
- Weight 15 Kg
- 230 V AC; 50 Hz ; 50W

Options:

- * custom and new designs of all kinds
- * system complete with climatic chamber
- * communication with PLC of the climatic chamber
- * temperature measurement and logging
- * continual resistance measurement
- * individual design of the input mask and sequence control



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