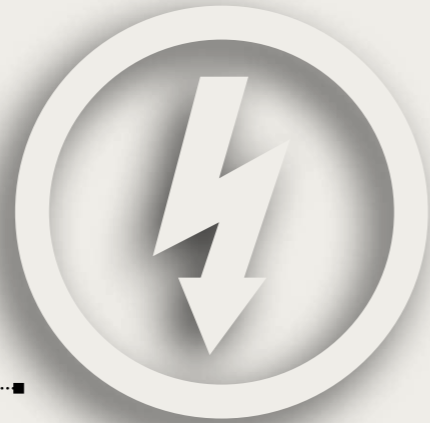


ATEX ZONES



The driving force
for your discharge.

Power Supply



The high-voltage generators and distributors provide the appropriate electrical supply for all Kersten discharging components.

At Kersten, you're able to find the most compact and most efficient high-voltage generator in its class for electrostatic discharge in ATEX (explosion protected) areas.

It can be used to supply all Kersten EX-discharging components. For large installations, the DG 306 (EX) with 6 high-voltage connections can be used in ATEX areas.

KERSTEN-PRODUCTS – YOUR BENEFITS

- Plug-in system
- Easy assembly
- Installation in tight spaces
- Flexible expansion options
- Suitable for various application areas
- No EMC problems
- Minimal maintenance / Maintenance free

GENERAL NOTICE

Custom-made products and customer-specific adaptations are possible at any time if necessary.



Power supply components / generators must be installed outside the explosion-hazardous zones.

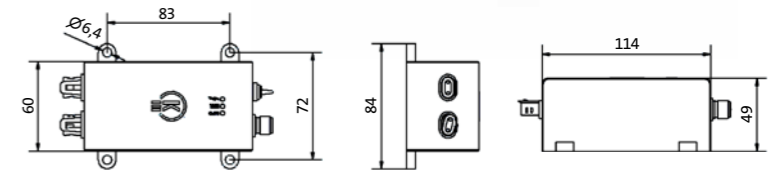


Find further information related to product category at www.kersten.de/en

DG 106 (EX)

The DG 106 EX high voltage generator is one of the latest discharge generator in the KERSTEN neXt® product family and supplies all KERSTEN neXt® ATEX discharge assemblies. It is one of the most compact but also most powerful high voltage generator in its class for electrostatic discharging. Nevertheless, he provides a wide range of technical features.

- Patented bipolar DC High Voltage
- Compact Design
- Plug-in system
- Continuous flow of ions
- Error and cleaning indicator

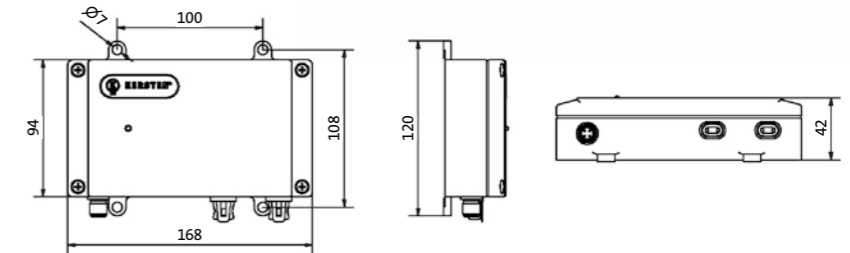


All dimensions in mm.

DG 206 (EX)

The driving force for your discharge. The high-voltage generators provide the electrical supply for all KERSTEN discharging components. With error display for generator and components.

- Patented bipolar DC High Voltage
- Compact Design
- Plug-in system
- Continuous flow of ions

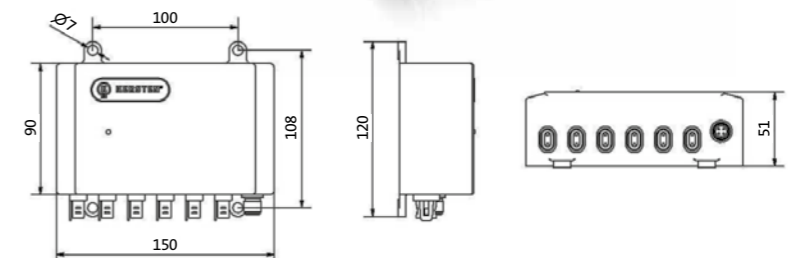


All dimensions in mm.

DG 306 (EX)

The discharging generator DG 306 (EX) is the power pack of the KERSTEN next product family and can be used to supply all the ATEX-discharging components. With its 6 High voltage connections he can easily manage every large installation, nevertheless it is very compact.

- 6 High-voltage Slots
- Error message and error display during short-circuit
- High-voltage is touch-safe
- Flexible expansion options
- DC Discharging for more power



All dimensions in mm.



POWER SUPPLY

TECHNICAL DATA			DG 106 EX	DG 206 EX	DG 306 EX
Supply Voltage	U_N	V DC	24+-20%	24+-20%	24+-20%
Max. operating current	I_B	mA	630	630	630
Max. active power	P	W	15	15	15
Error output voltage	U_f	V DC	24+-20%	24+-20%	24+-20%
Max. output voltage	U_A	kV DC	+3,8/-2,8	+3,8/-2,8	+3,8/-2,8
Max. output current	I_{max}	mA	0,9	0,9	0,9
Number of high-voltage slots			2	2	6
Weight	g		510	740	970

SUBJECTS TO TECHNICAL MODIFICATIONS.

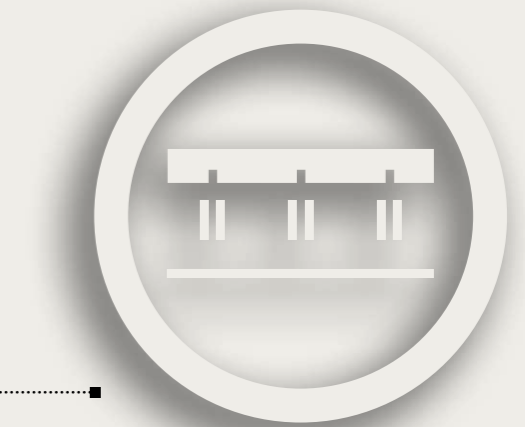
GENERAL ACCESSORIES

- Measuring Instruments:
Securing process quality through checks is an important topic. With the measurement devices offered by KERSTEN, you're able to have your entire process under control. We will gladly create an offer for you with the right measurement devices for your application
 - Electrostatic field meter
 - Digital multimeter
 - High voltage probe

- Pneumatic Supply:
The pneumatic supply and distribution systems offered by KERSTEN allow you to enjoy the benefits of air-assisted electrostatic discharging even without your own house air supply.
 - Compressor
 - Air fittings



Small product,
big effect.



Electrodes

Based on the proven discharging electrodes, you can also find electrodes for ATEX (explosion protected) areas which effectively eliminate existing charge on different materials. This will optimize your processes.

The electrodes for ATEX areas are also available with air-assistance, adjustable air canal and for longer unsupported lengths.

KERSTEN-PRODUCTS – YOUR BENEFITS

- Durable and robust due to GFRP
- Minimal maintenance / Maintenance free
- Safe to touch
- Highest output of ions

LEGEND

H = Heat resistant
L = with air support (fixed / adjustable)

GENERAL NOTICE

Custom-made products and customer-specific adaptations are possible at any time if necessary.



Find further information related to product category at www.kersten.de/en



ELECTRODES

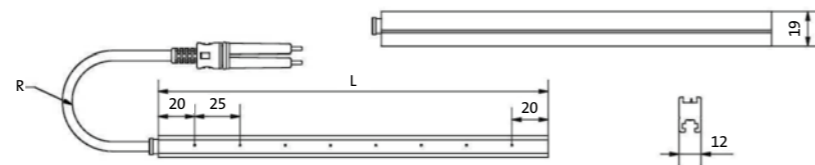
TECHNICAL DATA	DE 206 EX	DE 206 L EX	DE 216 L EX	DE 406 EX
Number of points	3-121	3-121	3-121	39-159
Total length	mm 90-3040	90-3040	90-1440	990-3990
Effective range				
- optimal	mm 40-60	40-100	40-100	40-60
- possible	mm 30-300	30-400	30-400	30-300
Air consumption per m length at 0,2 to 1,0bar	m ³ /h	4,2-13,5	4,2-13,5	
Outer material	GFK	GFK	GFK	ALU/GFK

SUBJECTS TO TECHNICAL MODIFICATIONS.

DE 206 (L) (H) Ex

Our discharging electrode for explosion-hazardous zones. Even in this environment, the DE 206 (EX) ensures the effective elimination of existing static charge on different materials and optimizes your processes.

- Safe to touch
- Smallest electrode cross-section on the market
- Vacuum casted
- Customizable to the centimetre
- ATEX approval acc. to $\text{Ex II (2) D 80}^\circ\text{C}$ and $\text{Ex II (2) G IIB T6}$
- Long lasting and durable through the use of GRP
- Minimal maintenance effort
- Plug-in system

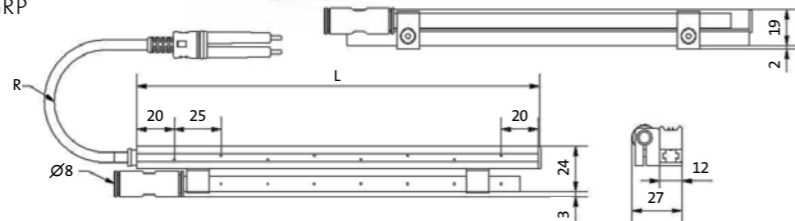


All dimensions in mm.

DE 216 L Ex

The DE 216 L KERSTEN neXt® discharge electrode is a universal electrode for ATEX zones and a variety of applications with supporting air. It is used for surface discharging a variety of materials.

- Safe to touch
- Small electrode cross-section
- Adjustable exit angle of the air support
- Customizable to the centimetre
- ATEX approval acc. to $\text{Ex II (2) D 80}^\circ\text{C}$ and $\text{Ex II (2) G IIB T6}$
- Long lasting and durable through the use of GRP
- Minimal maintenance effort
- Plug-in system

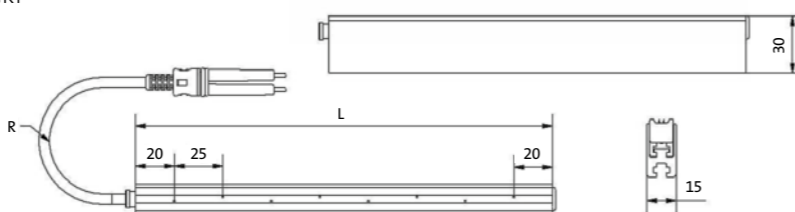


All dimensions in mm.

DE 406 (L) Ex

Our longest discharging electrode. The DE 406 ensures effective elimination of existing static charge at a length of up to 4 metres.

- Safe to touch
- Extremely stable due to aluminium profile
- Vacuum casted
- Customizable to the centimetre
- ATEX approval acc. to $\text{Ex II (2) D 80}^\circ\text{C}$ and $\text{Ex II (2) G IIB T6}$
- Customizable to individual lengths
- Long lasting and durable through the use of GRP
- Minimal maintenance effort
- Plug-in system



All dimensions in mm.

GENERAL ACCESSORIES

- Measuring Instruments: Securing process quality through checks is an important topic. With the measurement devices offered by KERSTEN, you're able to have your entire process under control. We will gladly create an offer for you with the right measurement devices for your application
 - Electrostatic field meter
 - Digital multimeter
 - High voltage probe

- Pneumatic Supply: The pneumatic supply and distribution systems offered by KERSTEN allow you to enjoy the benefits of air-assisted electrostatic discharging even without your own house air supply.
 - Compressor
 - Air fittings



Brings Air
to the Point.

Nozzles



*The ATEX discharge nozzles can be installed to pinpoint precision.
Can also be used to replace existing nozzles without ionisation.*

Kersten nozzles for ATEX areas can be connected to existing articulated hose systems. In addition, you can also use them in confined spaces, increase nozzle operation with additional compressed air or integrate them into an existing system at a later time.

KERSTEN-PRODUKTE – IHR NUTZEN

- Plug-in system
- Easy assembly
- Installation in tight spaces
- Suitable for various application areas
- No EMC problems
- Minimal maintenance / Maintenance free
- Suitable for your compressed air supply
- Continuous flow of ions

GENERAL NOTICE

Custom-made products and customer-specific adaptations are possible at any time if necessary.

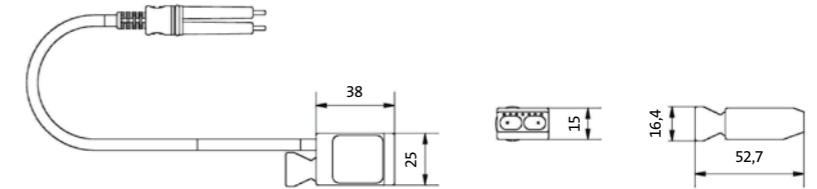


Find further information related to product category at www.kersten.de/en

DD 106 (A) (EX)

The DD 106 (EX) discharge nozzles for ATEX zones in the neXt® product family are designed to fit existing ball heads of 1/4" Ariana articulated hoses. This means that you may, for instance, extend your existing articulated hose system by adding deionising functionality.

- Compact design
- Improvement of processes
- Continuous flow of ions
- Easy to install
- Suitable for your compressed air supply
- Maintenance free

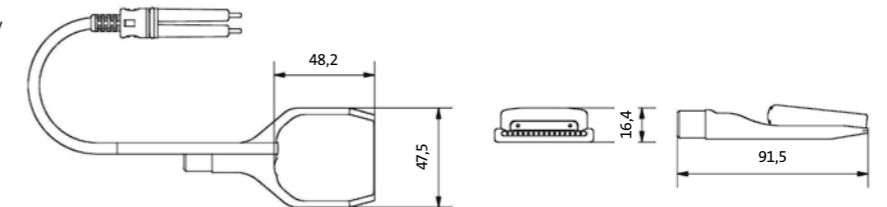


All dimensions in mm.

DD 206 (A) (EX)

The DD 206 (EX) and DD 206 (EX)(A) discharging nozzles for ATEX zones are flow-optimised. A greater electrostatic discharge reach and cleaning effect on the material to be discharged may be achieved with the additional support of compressed air. Air connection is provided via a G1/4" female thread.

- Compact design
- Improvement of processes
- Continuous flow of ions
- Easy to install
- Suitable for your compressed air supply
- Maintenance free

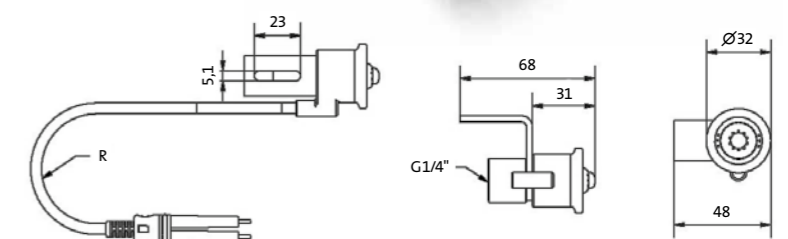


All dimensions in mm.

DD 406 (A) (EX)

The DD 406 (EX) and DD 406 (EX)(A) discharge nozzles for ATEX zones in the neXt® product family are characterised by their short design and a bundled circular air discharge. All materials are optimally discharged thanks to the flow-optimised and low-noise blow nozzle, even at low pressure.

- Flow-optimised
- Compact design
- Improvement of processes
- Continuous flow of ions
- Low noise
- Easy to install
- Suitable for your compressed air supply
- Maintenance free

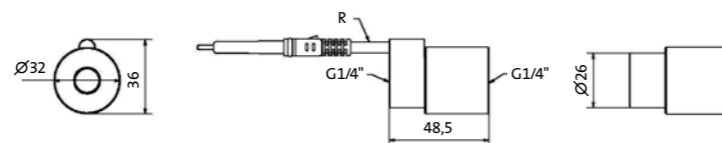


All dimensions in mm.

DD 606 (EX)

The DD 606 (EX) is used for plug-in integration.
The air connection may be customised using various adapters.
The air connection is provided via plug-in connectors.

- Compact design
- Improvement of processes
- Continuous flow of ions
- Variable connection options
- Easy to install
- Suitable for your compressed air supply
- Maintenance free



All dimensions in mm.

Point-precise and clever.

Heads



The ATEX discharging heads can be installed to pinpoint precision.

The heads can be used in ATEX areas for the discharging of various materials. In addition, they are also optimal for small spaces due to their compact profile, and can be affixed to articulated hoses or flat nozzles using various mounts.

KERSTEN-PRODUCTS – YOUR BENEFITS

- Plug-in system
- Easy assembly
- Installation in tight spaces
- Suitable for various application areas
- No EMC problems
- Minimal maintenance / Maintenance free
- Suitable for your compressed air supply
- Continuous flow of ions

GENERAL NOTICE

Custom-made products and customer-specific adaptations are possible at any time if necessary.



Find further information related to product category at www.kersten.de/en

TECHNICAL DATA		DD 106 EX (A)	DD 206 EX (A)	DD 406 EX (A)	DD 606 EX
Number of points		2	2	6	8
Articulated hose interior-Ø	mm	6,5	12,5	12,5	G 1/4
Effective range					
- optimal	mm	10-60	10-80	10-100	10-100
- possible	mm	10-100	10-150	10-300	10-1000
Air consumption per m length at 0,2 to 1,0bar	m ³ /h	2,3-5,7	3,5-8,4	3,0-7,3	3,7-9,5
Air supply p (oil-, water-, dust-free)	bar	0,5-2,5	0,5-2,5	0,5-2,5	0,5-2,5

SUBJECTS TO TECHNICAL MODIFICATIONS.

GENERAL ACCESSORIES

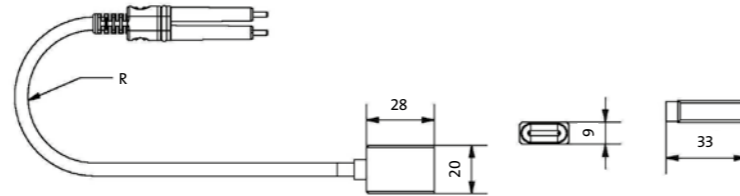
- Measuring Instruments: Securing process quality through checks is an important topic. With the measurement devices offered by KERSTEN, you're able to have your entire process under control. We will gladly create an offer for you with the right measurement devices for your application
 - Electrostatic field meter
 - Digital multimeter
 - High voltage probe
- Pneumatic Supply: The pneumatic supply and distribution systems offered by KERSTEN allow you to enjoy the benefits of air-assisted electrostatic discharging even without your own house air supply.
 - Compressor
 - Air fittings



DK 106 (EX)

The DK 106 (EX) discharge head in the KERSTEN neXt® product family serves to eliminate electrostatic charge on a variety of materials in ATEX zones. It is generally used where a variable position is necessary in addition to high discharge performance. Its small design allows installation in confined spaces.

- ATEX approval acc. to $\text{Ex II (2) D 80}^\circ\text{C}$ and $\text{Ex II (2) G IIB T6}$
- Full power in the smallest space
- Flexible installation options

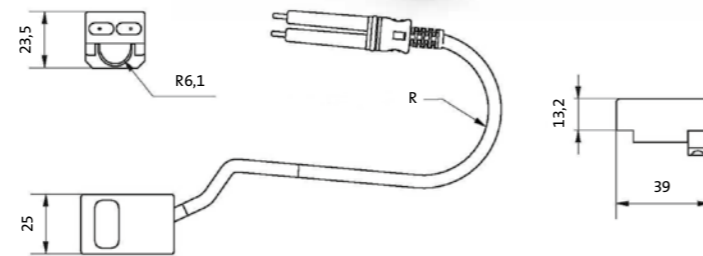


All dimensions in mm.

DK 206 (EX)

The discharging head DK 206 (EX) of the KERSTEN neXt® product family eliminates electrostatic charges on a wide variety of materials. Through the clamp mounting, the DK 206 (EX) can be affixed onto a tube with a diameter of up to 12mm.

- ATEX approval acc. to $\text{Ex II (2) D 80}^\circ\text{C}$ and $\text{Ex II (2) G IIB T6}$
- Full power in the smallest space
- Flexible installation options



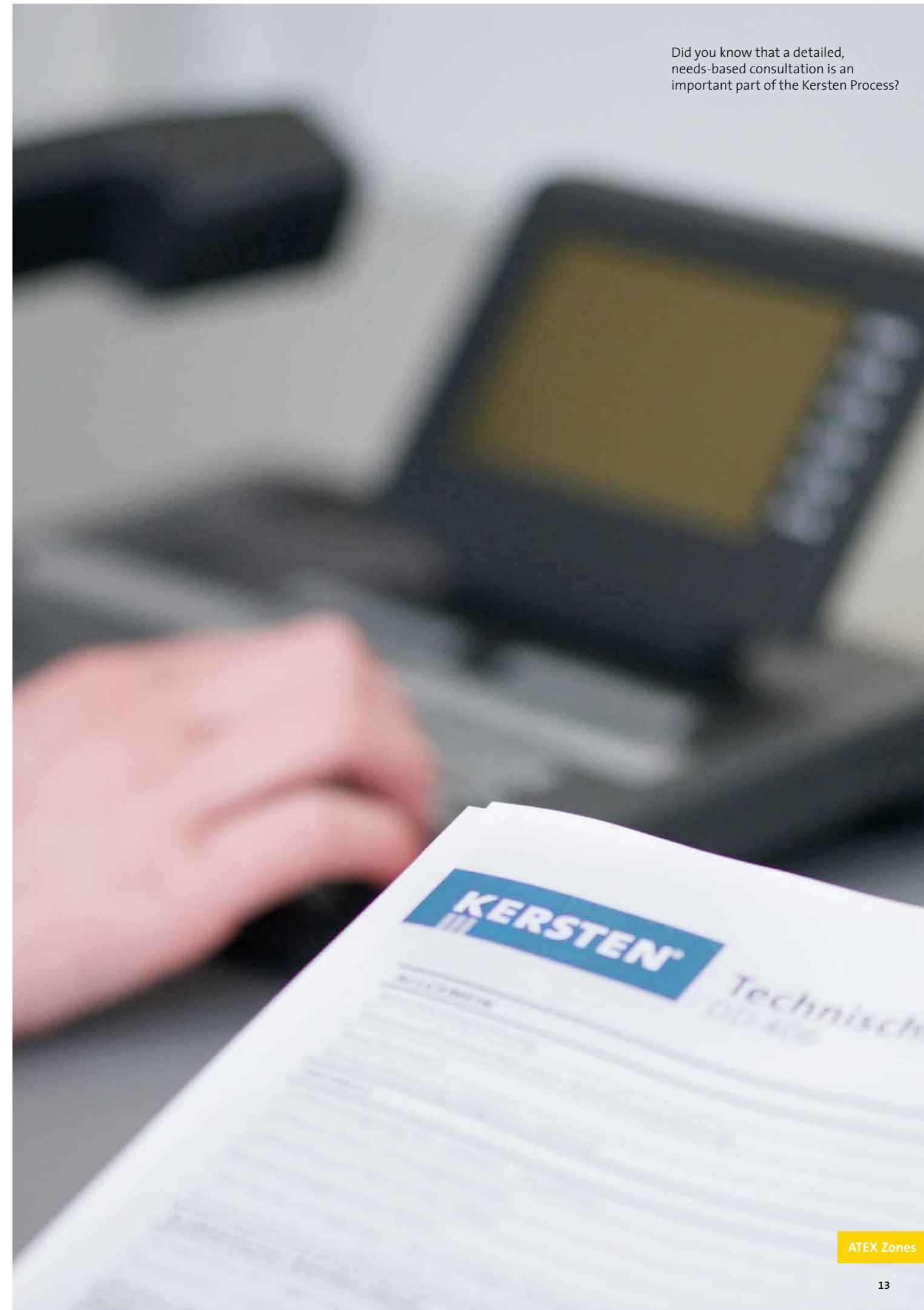
All dimensions in mm.

GENERAL ACCESSORIES

- **Measuring Instruments:**
Securing process quality through checks is an important topic. With the measurement devices offered by KERSTEN, you're able to have your entire process under control. We will gladly create an offer for you with the right measurement devices for your application
 - Electrostatic field meter
 - Digital multimeter
 - High voltage probe
- **Pneumatic Supply:**
The pneumatic supply and distribution systems offered by KERSTEN allow you to enjoy the benefits of air-assisted electrostatic discharging even without your own house air supply.
 - Compressor
 - Air fittings



Did you know that a detailed, needs-based consultation is an important part of the Kersten Process?



KERSTEN ELEKTROSTATIK GMBH

Walter-Knoell-Straße 3

79115 Freiburg | Germany

T +49 761 47944-0 | F +49 761 47944-99

info@kersten.de | www.kersten.de/en

