

Personal Protective Equipment (PPE)



Work Boots
Gloves
Protective Suits
Protective Clothing
Breathing Protection
Gas Measurement Technology
Antifall Guard
Other PPE



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Entry into the commercial register

Entry into the commercial register
Registration court: Amtsgericht Düsseldorf
Registration number: HRB 45421

Tax ID number

According to §27a UStG
DE 121 387 379



Hugo Frauenthor





Dear business partner,

welcome to the product offering at Hugo Frauenhof GmbH!

We are a family-run enterprise with a tradition of more than 130 years, selling products for technical wholesale and industrial needs worldwide. Our core business is characterized by environmental technology and, in particular, hose technology. There is a good reason to focus on two directions:

The past and the future.

Since the beginning of our journey in 1887, we have been moving on with both a sense of tradition and a love for innovation. Once started as a family business in Hilden, Germany, we achieved scale and have become a flexible, growing, and global company with the highest quality standards for our products and ourselves. This is what we have internalized in our DNA and codified in our mission statement. Feel free to take a look at it!

Our success is based upon a formula that combines entrepreneurial foresight and experience over several generations: The ability to change, the willingness to take risks, continuity and commercial discretion. We are proud of our achievements!

However, this success neither had been possible in the past nor will be possible in the future without the intensive and long-term cooperation with our trusty and loyal customers, suppliers and employees.

We look forward to maintaining our long-standing relationships with commercial partners and establishing new ones in the future!

Thank you very much for your trust!



Petra Osten-Laschet



Walter Laschet



Sascha-Dominique Laschet



Fabio-Yannick Laschet



Introducing Ourselves

Highest Quality Since 1887
Our Mission Statement
Our Services for You

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Work Boots

Safety Boots
HFH Gaiters
UV Boots S5
Primo 800
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Gloves

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Protective Suits

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Protective Clothing

Chest Wader
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Breathing Protection

Masks
Filters
Filtering Escape Device
Compressed Air Breathing Apparatus
Oxygen Self Rescuers

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Gas Measurement Technology

Gas Detectors
Checking Stations

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Antifall Guard

Descenders
Safety Harnesses
BIMET
Fasteners
HFH Tripod
Safety Winch
Guided Type Fall Arrester

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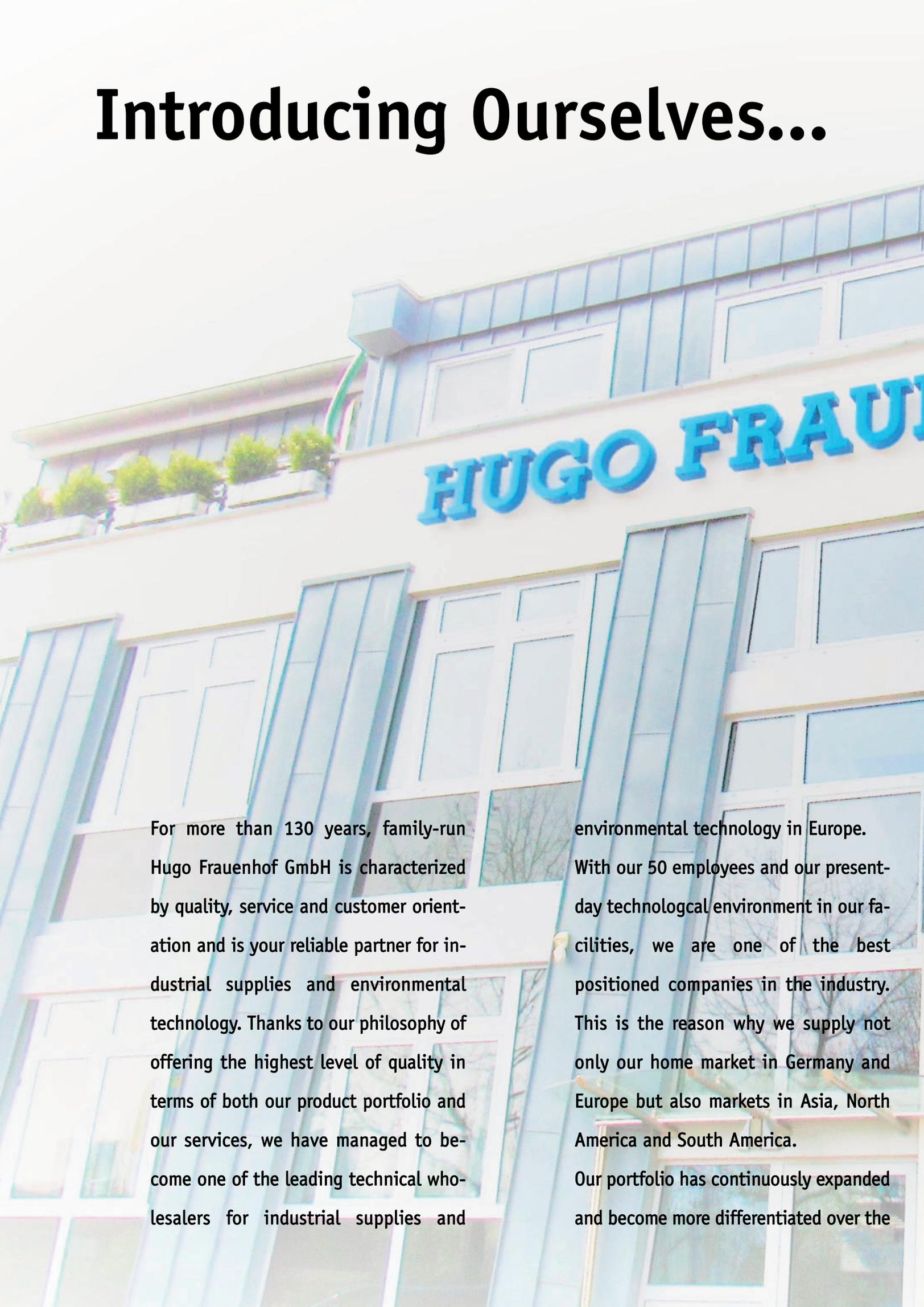
Other PPE

Hard Hats
Helmet Mounts and Protective Visors
Safety Glasses
Ear Protection
Eye Wash Bottles



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Introducing Ourselves...



HUGO FRAUENHOF

For more than 130 years, family-run Hugo Frauenhof GmbH is characterized by quality, service and customer orientation and is your reliable partner for industrial supplies and environmental technology. Thanks to our philosophy of offering the highest level of quality in terms of both our product portfolio and our services, we have managed to become one of the leading technical wholesalers for industrial supplies and

environmental technology in Europe. With our 50 employees and our present-day technological environment in our facilities, we are one of the best positioned companies in the industry. This is the reason why we supply not only our home market in Germany and Europe but also markets in Asia, North America and South America. Our portfolio has continuously expanded and become more differentiated over the



ENHOF

course of time. Sewer cleaning technology, hose technology and ultra high pressure technology define the core of our services. These services are moreover enriched by sewer rehabilitation, air handling systems accessories and occupational safety. With our highly diversified assortment and our utmost focus on quality, it is our motivation to work our customer-specific solutions for your problems and, in doing so, providing you

with a competitive advantage. Along the whole process, our highly qualified and well trained team is happy to be at your side and support you with your needs and wishes.

Our portfolio includes...

Sewer and pipe cleaning technology

Sewer cleaning hoses
Cassette boom hoses
Nozzles
Sewer cleaning equipment

Hose and coupling technology

Suction and pressure hoses
Tank waggon and chemical hoses
Flat hoses
Air conveyor system hoses
Couplings

Ultra high pressure technology

Thermoplastic UHP hoses
UHP rubber hoses
Adapters and connectors
Protective clothing
Occupational safety
Accessories

Our location in Hilden is close to the German Autobahn A3 and A46 and characterized by its comprehensive warehouse. With a storage area of more than 2,600 m², a fast delivery is guaranteed, enabling us to support you even in short-term cases of need, so that you can continue your activities without a major loss of downtime.



Sewer rehabilitation and cleaning

Sewer rehabilitation
Resins
Fiberglass material
Inversion lining systems and sites
Rehabilitation packers
Test pipe sealing cushions
Sewer testing systems
Equipment

Air conveyor system technology

Rubber hoses
PVC hoses
PU hoses
Blowing hoses
Coupling systems

Personal protective equipment (PPE)

Protective clothing
Occupational safety
Barriers / Job site safety
Respiratory protective equipment
Gas measurement technology / Self protection
Entry protection devices
Lamps



As a family-run enterprise with a flat hierarchical structure, we are able to respond to your questions and requests quickly and with great flexibility. The ongoing dialogue and exchange with our customers, suppliers and business partners provides both you and us with a strong foundation of future success and progress. In order to ensure sustainable success and progress, investments in the most recent and particularly resource-saving technologies are indispensable. Hence, we do not only invest in continuously advancing our technical equipment and facilities, but also cover most of our energy supply with renewable energies, such as photovoltaic systems.

Highest Quality



Mr. Theodor Hugo Frauenhof founds the company, by name "Feingeberei und Schäftefabrik"



Mr. Gottfried Osten joins the company

With Susanne Frauenhof as general partner and Mr. Gottfried Osten as limited partner, the company operates as Frauenhof KG

1887

1957

1965

1992

1945

1958

1995

The company expands into technical wholesale and industrial supplies

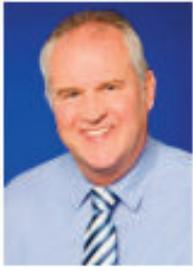
The company expands into environmental technology, including the sale of hoses, armatures, and assembly of hose lines

Sole takeover of the owner's shares by Mr. Osten

Construction of a new office and warehouse building with a storage area of 1000m² in Hilden, the company's current location



since 1887



Ms. Ingrid Osten and Mr. Walter Laschet become part of the company's management

1998



Today's majority shareholder Ms. Petra Osten-Laschet becomes part of the company's management. With the construction of a third warehouse, an additional 420m² of storage space is added.

2007



Ms. Petra Osten-Laschet becomes the majority shareholder; termination of our business activities in the area of shoemaker supplies (2013)

2013



Expansion of the photovoltaic system, including an industrial storage system and expansion of the storage area

2018

2001

Construction of a second warehouse, adding 1100m² of storage area



2012

At its 125th anniversary, the company changes its appearance and returns to the roots "red / black becomes blue / silver again"

2014

Completion and initial operation of a photovoltaic system meeting the company's whole energy demand



Our Mission Statement

Customers

“**Customers** are the focal point of all our actions. To satisfy our customers’ needs and wishes, we provide them with a maximum of **product quality** as well as **safety, responsibility** and services. It is our ambition to understand our customers better than the competition does. This is the only way to guarantee our exceptional **service**.”

Quality Leadership

“It is our ambition to provide our customers with a maximum of **quality**. Our definition of quality requests to exceed our customers’ expectations and hence goes beyond merely satisfying their needs, expectations, and requests. Our objective is to assume the role of the **quality leader** in the market. Quality is what we are known for.”

Being Exceptional is Our Benchmark

“We are not satisfied with standard solutions. We are strongly committed to adjust our products to our customers’ needs. Providing our customers with **individual** and **customized** solutions is the only way to satisfy their needs. There is no customer request that is too **special** for us to deal with.”

Flexibility and Agility

“Due to our flat hierarchical structure, we are able to make decisions and find solutions **quickly**. Being able to react to new problems and requirements with great **flexibility**, we achieve the optimal solutions for our customers.”

Individualism and Team Mentality

“Our employees stand out due to their **professional competencies, qualification** and **motivation**. Yet, they can provide our customers with an optimal service level if and only if they work together as a **team**. Hence, our success is based on a strong team characterized by **individual** personalities.”

Trust and Responsibility

“We **value, challenge** and **develop** our employees. We treat one another with **dignity, respect** and **trust**. To secure the success of our company, we expect each employee to act responsibly and show a strong commitment.”

Passion and Pride

“Every day, our employees show strong **dedication** and **passion** to ensure the well-being of our customers. Our employees are characterized by a strong commitment and motivation. They represent our company with **pride** and **pleasure**.”

A Tradition of Being Innovative

“Stagnancy has no place in our company, as it a step backwards. Our tradition of more than 125 years has always been characterized by an orientation towards the future. Always focused on **innovation** and application of the **most recent technologies**, we want to provide our customers with optimal solutions. Hence, we invest in new technical systems and operational structures.”

Sustainability

“We are committed to using natural and financial resources responsibly in order to ensure the company’s **future** success. We establish sustainable solutions in the areas of **environmental protection** and **finance**. Our environment is highly important to us. To protect the environment, we invest in sustainable and energy-saving technologies.”

Ethics and Integrity

„We commit ourselves to actions that are morally right and curate our **values**. **Integrity** is focal to our understanding of morality and ethics. **Respect, tolerance** and **acceptance** of human beings, irrespective of gender, origin, and religion is a matter of course for us and defines the foundation of our actions. For this reason, we are highly committed to create **social** value.”

Suppliers

“We choose our **suppliers** based on our understanding of honesty, fairness, partnership and integrity. This is the only way to adhere to our strong **quality standards** to a high degree.”

Datenschutz

„**Protecting** and handling your personal data in a responsible and confidential way is our duty that we conform to without restriction. We apply the guidelines of the **General Data Protection Regulation (GDPR)** to the full extent.”

Our Services for You

As one of our customers at Hugo Frauenhof GmbH, you enjoy our services to the full extent. Thanks to our extensive storage capacity and hige workforce, we respond to your needs and wishes as quickly as possible.

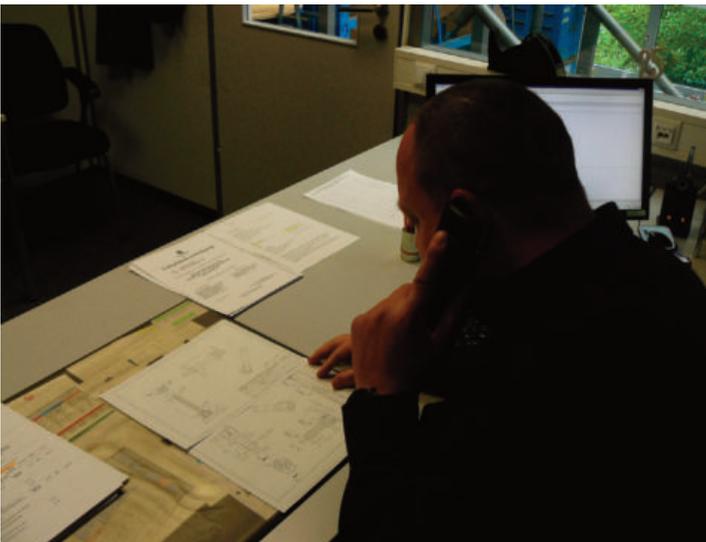
Readiness for Delivery

Due to our logistic partners and own delivery vehicles, we are capable of delivering in less than 24 hours and respond to cases of need immediatly. If you are interested, you also have the option to pick up your goods at our location. On request, we send your order to your customers immediatly. In case of deliveries abroad, we are happy to handle customs clearance for you at no additional cost.



Sales

Always happy to answer your questions and support you with offers and requests, our internal sales staff is available for you from Monday to Thursday (8:00 a.m. - 5:00 p.m.) and on Fridays (8:00 a.m. to 2:30 p.m.). In case you need personal advice on site, our field staff will be happy to assist you.



Service in the Area of Ultra High Pressure

Thanks to our three ultra-high-pressure test stands, we are able to inspect ultra-high-pressure lines up to 6,000 bar and issue you a test certificate. Certificates about all HFH-manufactured hoses are saved in-house and can be made available to you at a later date upon request. At your request, our in-house laser furthermore allows us to engrave ultra-high-pressure lines.

Moreover, our highly-skilled and experienced staff is happy to offer training in the area of ultra-high-pressure solutions.



Advisory & Problem Solving

With more than 130 years of experience, we are happy to be by your side as a competent partner. As accepting every challenge is part of our long-standing tradition, we are happy and look forward to managing individual problems together with you and providing you with custom-made solutions.



Personal Protective Equipment (PPE)



In order to ensure that you can pursue your day-to-day activities in a safe and carefully secured way, we have set ourselves to grow a portfolio of the most reliable and latest products in the area of PPE (**P**ersonal **P**rotective **E**quipment). Thanks to our great local partners, we can guarantee a fast processing and provision of your bookings and react to maintenance demands immediately. Due to strong quality assurance commitments by ourselves and our partners, you can be sure that you will always receive products that are cleverly thought out and, above all, reliable. As we have an extensive PPE portfolio covering high-quality products from protective suits to breathing air supply, that is contingent upon ambient air, our sales team is happy to support you in order to find the proper equipment.

PPE - There is nothing more worth protecting than your health.

Work Boots

Safety Boots

HFH Gaiters

UV Boots S5

Primo 800

Ultra 12



Leopard ESD Black/Blue

Properties

- Sole made of TPU and PU
- Light, flexible, puncture-resistant textile midsole
- Aluminium cap
- Toe cap
- Exchangeable cushion
- Gel insoles in the heel area (gel shock absorber)
- Width 12
- Leather lining
- ESD design (to protect the wearer from electrical shocks)
- EN 20345 S3



Article no.	Description	Size
102135-38	Lace-up shoe Leopard ESD black/blue	38
102135-39	Lace-up shoe Leopard ESD black/blue	39
102135-40	Lace-up shoe Leopard ESD black/blue	40
102135-41	Lace-up shoe Leopard ESD black/blue	41
102135-42	Lace-up shoe Leopard ESD black/blue	42
102135-43	Lace-up shoe Leopard ESD black/blue	43
102135-44	Lace-up shoe Leopard ESD black/blue	44
102135-45	Lace-up shoe Leopard ESD black/blue	45
102135-46	Lace-up shoe Leopard ESD black/blue	46
102135-47	Lace-up shoe Leopard ESD black/blue	47
102135-48	Lace-up shoe Leopard ESD black/blue	48

Leopard Winter Boots ESD

Properties

- Sole made of TPU and PU
- Puncture-resistant textile midsole
- Aluminium cap
- Exchangeable cushion
- With Zipper
- Warm lining
- ESD design (to protect the wearer from electrical shocks)
- EN 20345 S3



Article no.	Description	Size
102133-38	Winter boots Leopard ESD	38
102133-39	Winter boots Leopard ESD	39
102133-40	Winter boots Leopard ESD	40
102133-41	Winter boots Leopard ESD	41
102133-42	Winter boots Leopard ESD	42
102133-43	Winter boots Leopard ESD	43
102133-44	Winter boots Leopard ESD	44
102133-45	Winter boots Leopard ESD	45
102133-46	Winter boots Leopard ESD	46
102133-47	Winter boots Leopard ESD	47
102133-48	Winter boots Leopard ESD	48

Atlas S3 XP 505

Properties

- Penetration resistance free from metal
- 3D damping system
- Waterproof leather
- Toe cap
- Aktiv-X functional lining
- Outdoor sole technology
- Large stud profile
- Suitable for the provision of orthopaedic insoles (DGUV 112-191)
- EN ISO 20345 S3 SRC

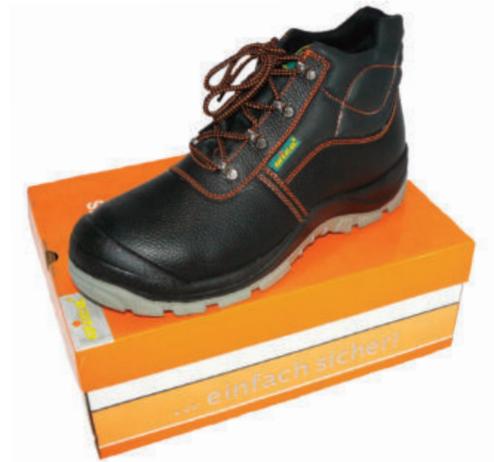


Article no.	Description	Size
102116-39	Atlas XP 505 high UV boots S3	39
102116-40	Atlas XP 505 high UV boots S3	40
102116-41	Atlas XP 505 high UV boots S3	41
102116-42	Atlas XP 505 high UV boots S3	42
102116-43	Atlas XP 505 high UV boots S3	43
102116-44	Atlas XP 505 high UV boots S3	44
102116-45	Atlas XP 505 high UV boots S3	45
102116-46	Atlas XP 505 high UV boots S3	46
102116-47	Atlas XP 505 high UV boots S3	47

Wica Laced Boots High

Properties

- Cow grain leather
- With toe cap made of rubber
- Color: back/orange offset
- Shoe width 11
- Ergonomically padded color
- Sewed-on, padded dust flap
- Fastening by quick-tie eyelets
- Removable, antistatic cushion
- Corrosion-free steel cap and steel midsole
- Outsole made of PU that is antistatic, slip-inhibitory and resistant to oil and acids
- Light grey outsole, non-chalking
- EN ISO 20345 S3 SRA



Article no.	Description	Size
100096-37	Wica laced-up high boots, S3	37
100096-38	Wica laced-up high boots, S3	38
100096-39	Wica laced-up high boots, S3	39
100096-40	Wica laced-up high boots, S3	40
100096-41	Wica laced-up high boots, S3	41
100096-42	Wica laced-up high boots, S3	42
100096-43	Wica laced-up high boots, S3	43
100096-44	Wica laced-up high boots, S3	44
100096-45	Wica laced-up high boots, S3	45
100096-46	Wica laced-up high boots, S3	46
100096-47	Wica laced-up high boots, S3	47
100096-48	Wica laced-up high boots, S3	48

In order to ensure that you keep your work boots in optimal condition:

Article no.	Description	Quantity / dose
287348	Dubbin, colorless	100 ml
287308	Dubbin, colorless	250 ml
111000	Greasing brush, black	
111070	Greasing brush, white	

Ultra High Pressure Emitter Protection Gaiters

Technical Data

- Made of waterproof special synthetic material with fabric lining
- Aluminium sheet that is perfectly tailored to the shape of the foot and the boot respectively
- Workmanship that is riveted and sewn in a highly resistant way
- Double hook-and-loop fastener
- Tested with a working pressure of 2.800 +/- 150 bar
- Color: yellow



Additional information

- Conforms to the requirements according to BGR 191 (ZH 1/702) and BGVD 15 (UW/VBG87)
- CE model certificate number: 53912071/0D
- Recommended according to BGI 5063-1
- According to German patent DE 100 57 301 C1

Article no.	Description
150069	Ultra high pressure emitter protection gaiters
150069-49	Ultra high pressure emitter protection gaiters, custom-built model (size 49)

UV Boots S5

Properties

- Steel cap
- Steel midsole
- Stud profile
- Sole is antistatic and, to a limited extent, resistant to oil and fuel
- Shaft height 38cm
- Material: PVC, unplasticized
- EN ISO 20345:2011



Article no.	Description	Size
150227-38	UV boots S 5D, type Silver, black	38
150227-39	UV boots S 5D, type Silver, black	39
150227-40	UV boots S 5D, type Silver, black	40
150227-41	UV boots S 5D, type Silver, black	41
150227-42	UV boots S 5D, type Silver, black	42
150227-43	UV boots S 5D, type Silver, black	43
150227-44	UV boots S 5D, type Silver, black	44
150227-45	UV boots S 5D, type Silver, black	45
150227-46	UV boots S 5D, type Silver, black	46
150227-47	UV boots S 5D, type Silver, black	47
150227-48	UV boots S 5D, type Silver, black	48
150227-49	UV boots S 5D, type Silver, black	49

Article no.	Description	Size
150036-37	UV boots S 5, yellow	37
150036-38	UV boots S 5, yellow	38
150036-39	UV boots S 5, yellow	39
150036-40	UV boots S 5, yellow	40
150036-41	UV boots S 5, yellow	41
150036-42	UV boots S 5, yellow	42
150036-43	UV boots S 5, yellow	43
150036-44	UV boots S 5, yellow	44
150036-45	UV boots S 5, yellow	45
150036-46	UV boots S 5, yellow	46
150036-47	UV boots S 5, yellow	47
150036-48	UV boots S 5, yellow	48

Ultra High Pressure Safety Boots Primo 800

Properties

- Boots for radiation protection
- Color: yellow
- Resistant to animal fats, oils, soda lye, acids
- Antistatic
- EN ISO 20345:2011 SRC 55

Boots have been tested at a working pressure of 800 bar with the following parameters:

- Force of lance recoil: 117 N
- Nozzle diameter 1.0 mm
- Distance between the nozzles 75 mm
- Heading speed 0.2 m/s
- Flow rate 17.7 l/min



Article no.	Description	Size
160244-39	UHP safety boots Primo 800	39
160244-40	UHP safety boots Primo 800	40
160244-41	UHP safety boots Primo 800	41
160244-42	UHP safety boots Primo 800	42
160244-43	UHP safety boots Primo 800	43
160244-44	UHP safety boots Primo 800	44
160244-45	UHP safety boots Primo 800	45
160244-46	UHP safety boots Primo 800	46
160244-47	UHP safety boots Primo 800	47
160244-48	UHP safety boots Primo 800	48

Ultra High Pressure Safety Boots Ultra 12

Technical Data

- Boots for radiation protection
- Protection up to a working pressure of 1,200 bar
- Color: Black-yellow
- Resistant to animal fats, oils, soda lye, acids
- Antistatic
- EN ISO 20345:2011 SRC 55



Article	Description	Size
160379-41	UHP safety boots Ultra 12	41
160379-42	UHP safety boots Ultra 12	42
160379-43	UHP safety boots Ultra 12	43
160379-44	UHP safety boots Ultra 12	44
160379-45	UHP safety boots Ultra 12	45
160379-46	UHP safety boots Ultra 12	46
160379-47	UHP safety boots Ultra 12	47

To improve footing when wearing the boots, please feel free to additionally order lining socks:

Article no.	Description	Size
130017	Lining socks standard, grey	38
130017-39-40	Lining socks standard, grey	39/40
130017-41-42	Lining socks standard, grey	41/42
130017-43-44	Lining socks standard, grey	43/44
130017-45-46	Lining socks standard, grey	45/46
130017-47-48	Lining socks standard, grey	47/48

Gloves

Reusable Gloves

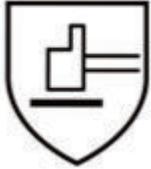
Disposable Gloves



EU Standards

EN 420 - Protective gloves – General requirements

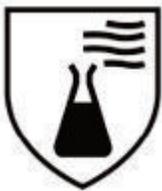
The general requirements for protective gloves are determined within the framework of this standard. These requirements include design principles, packaging, material resistance to permeation by water, innocuousness, comfort, performance capabilities, the manufacturer's markings as well as information to be provided by the manufacturer.



EN 388 - Protective gloves against mechanical risks

This standard determines four criteria by means of which protection against mechanical risks can be assessed. A performance level is assigned to each criterion. The higher the value, the better the test result for the respective mechanical risk.

Performance levels according to EN 388	0	1	2	3	4	5
a = Abrasion resistance 0 to 4 (cycles)	<100	100	500	2000	8000	-
b = Cut resistance (circular blade) 0 to 5 (factor)	<1,2	1,2	2,5	5,0	10,0	20,0
c = Tear resistance 0 to 4 (Newton)	<1,2	10	25	50	75	-
d = Puncture resistance 0 to 4 (Newton)	<20	20	60	100	150	-
e = Cut resistance (TDM) according to EN ISO 13997:1999 A to F						
f = Impact protection test according to EN 13594:2015 P						



EN 374-1 - Protective gloves against chemicals

Within the framework of this standard, we distinguish between two types of chemical protection. Gloves offering full protection are marked with a conical flask and provide protection against at least the 3 following chemicals for longer than 30 minutes.



Methanol, Acetone, Acetonitrile, Dichloromethan, Carbon disulphide, Toluene, Diethylamine, Tetrahydrofuran, Ethyl acetate, n-Heptane, Sodium hydroxide 40%, Sulphuric acid 96%

In contrast, gloves offering limited chemical protection are marked with a beaker. These gloves are watertight and can provide protection against certain chemicals.



EN 511 - Protective gloves against cold

The following criteria give information as to how well a glove protects your hands while working in a cold environment. Higher values indicate a better test result

a = Convective cold: 0 to 4

b = Contact cold: 0 to 4

c = Waterproofing: 0 to 1

PPE Categories

Kat. I	Protection against low risks
Kat. II	Protection against medium risks
Kat. III	Protection against high risks

Reusable Gloves

Nitrile blue with gaiter

Properties

- Fully coated
- Consists of nitrile only
- Packaging unit = 144 pairs
- CE marking type 3440, heavy design according to EN 388/4211



Article no.	Description	Size
160175-09	Nitrile gloves NITRAS blue with gaiter	9
160175-10	Nitrile gloves NITRAS blue with gaiter	10
160175-11	Nitrile gloves NITRAS blue with gaiter	11

Nitrile yellow:

Properties

- With knit waistband
- Uncoated at the back of the hand
- Packaging unit = 144 pairs
- CE marking, CAT. 2
- EN 388



Article no.	Description	Size
160017-08	Nitrile gloves, yellow	8
160017-09	Nitrile gloves, yellow	9
160017-10	Nitrile gloves, yellow	10
160017-11	Nitrile gloves, yellow	11

Amarillo:

Properties

- Fully coated at the back of the hand
- Means: 100% cotton, tricot fabric
- Coating: nitrile
- Color: yellow
- Great abrasion resistance
- Highly flexible
- Great resistance to oils and fats
- Elastic knit waistband
- Packaging unit = 144 pairs
- EN 388



Article no.	Description	Size
160374-09	Nitrile gloves Amarillo, yellow, fully coated at the back of the hand	9
160374-10	Nitrile gloves Amarillo, yellow, fully coated at the back of the hand	10
160374-11	Nitrile gloves Amarillo, yellow, fully coated at the back of the hand	11

Cut protection "Ninja":

Properties

- With grey PU coating
- Type 3715
- Level 5 cut protection
- Great sense of touch
- Great abrasion resistance
- Comfortable to wear
- Packaging unit = 120 pairs
- EN 388 Cat. II



Article no.	Description	Size
	5 finger cut protection gloves "Ninja"	7
	5 finger cut protection gloves "Ninja"	8
	5 finger cut protection gloves "Ninja"	9
160333-10	5 finger cut protection gloves "Ninja"	10
	5 finger cut protection gloves "Ninja"	11
	5 finger cut protection gloves "Ninja"	12

Winter gloves:

Properties

- PVC-foamed HPT coating
- Circular-knit terry loop gloves
- Acrylic lining
- Fully coated
- Oleophobic and lipophobic
- Great fit and secure grip
- Comfortable to wear
- Packaging unit = 60 pairs
- EN 388/511 Cat. II



Article no.	Description	Size
	Winter gloves knitwear with HPT coating	7
	Winter gloves knitwear with HPT coating	8
160410-09	Winter gloves knitwear with HPT coating	9
160410-10	Winter gloves knitwear with HPT coating	10
	Winter gloves knitwear with HPT coating	11

PVC protective gloves:

Properties

- Napped both on the back of the hand and on the palm of the hand
- With jersey inner lining
- Type Hugo Frauenhof GmbH
- Packaging unit = 72 pairs
- CE marking 0120, EN 420/388/374



Article no.	Description	Size
160303	PVC protective gloves green, length of 350 mm	9
160302	PVC protective gloves green, length of 350 mm	10

Chemical gloves:

Properties (Art. 160015)

- Length of 350 mm
- CAT 3
- With tricot lining
- CE marking 0120, EN 374/388
- Corresponds to REACH/SVHC



Properties (Art. 160050)

- Length of 600 mm
- CAT 2
- With tricot lining
- EN 388
- Corresponds to REACH/SVHC

Article no.	Description	Size
160015	PVC chemical gloves, reddish brown, length of 350 mm	10
160050	PVC gloves, reddish brown, length of 600 mm	10

Leather fabric gloves:

Properties

- Smooth full-grain leather
- Type 88PAWA
- White canvas back
- With strong natural inner lining
- Fully padded
- Packaging unit = 120 pairs



Article no.	Description	Size
160079	Leather fabric gloves, Pawa, light yellow	9
	Leather fabric gloves, Pawa, light yellow	10.5
	Leather fabric gloves, Pawa, light yellow	12

Nitrile green:

Properties

- Length: 330 mm
- Resistant to solvents, oils, etc. to a limited extent
- CE Cat. 3
- EN 388/374
- Packaging unit = 144 pairs



Article no.	Description	Size
160192-9	Nitril gloves, Classic, green	9
160192-10	Nitril gloves, Classic, green	10

Fine knit:

Properties

- PU coating
- 100% polyamide fabric
- Great fitting
- Secure grip
- Great sense of touch
- Packaging unit = 240 pairs
- EN 388



Article no.	Description	Size
160319-7	Neatless fine knit polyamide gloves	7
160319-8	Neatless fine knit polyamide gloves	8
160319-9	Neatless fine knit polyamide gloves	9
160319-10	Neatless fine knit polyamide gloves	10
160319-11	Neatless fine knit polyamide gloves	11

Properties

- PU coating
- Fine knit
- Seamless
- Insensitive to dirt
- Outstanding fitting
- Outstanding sense of touch
- Packaging unit = 240 pairs
- EN 388



Article no.	Description	Size
160362	Gloves type Lintao, blue	9
160362-10	Gloves type Lintao, blue	10

MaxiFlex:

Properties

- With nitrile microfoam coating
- Particularly strong grip
- Breathable
- Extremely hardwearing
- Washable up to 40°C
- Packaging unit = 144 pairs
- In compliance with norms EN 388 – EN 420



Article no.	Description	Size
160468-08	ATG MaxiFlex, nylon assembly gloves, grey	8
160468-09	ATG MaxiFlex, nylon assembly gloves, grey	9
160468-10	ATG MaxiFlex, nylon assembly gloves, grey	10

Guiding gloves black grained:

Properties

- Material: PVC
- Length: 270 mm
- Double dipped
- Fully coated
- Closed at the back of the hand
- High flexibility
- High resistance to liquids (except for chemicals)
- Packaging unit = 96 pairs
- Norm: PSA category I



Article no.	Description	Size
261790	Guiding gloves black grained	10

Disposable Gloves

Nitrile:



Article no.	Description	Size
	Disposable glove nitrile Kowloon 0507, unpowdered, box of 100 pieces	S (7)
	Disposable glove nitrile Kowloon 0507, unpowdered, box of 100 pieces	M (8)
	Disposable glove nitrile Kowloon 0507, unpowdered, box of 100 pieces	L (9)
160338	Disposable glove nitrile Kowloon 0507, unpowdered, box of 100 pieces	XL (10)

Vinyl:



Article no.	Description	Size
160327-M	Disposable gloves vinyl, powdered, box of 100 pieces	M (8)
160327-L	Disposable gloves vinyl, powdered, box of 100 pieces	L (9)
160327-XL	Disposable gloves vinyl, powdered, box of 100 pieces	XL (10)

Latex:



Article no.	Description	Size
160293	Disposable glove latex, seamlessly powdered, box of 100 pieces	9
160293-10	Disposable glove latex, seamlessly powdered, box of 100 pieces	10
160335-M	Disposable glove latex, unpowdered, box of 100 pieces	M (8)
160335-L	Disposable glove latex, unpowdered, box of 100 pieces	L (9)
160335-XL	Disposable glove latex, unpowdered, box of 100 pieces	XL (10)

Barrier:



Article no.	Description	Size
	Ansell chemical protective gloves, type Barrier, length of 400 mm	6
	Ansell chemical protective gloves, type Barrier, length of 400 mm	7
	Ansell chemical protective gloves, type Barrier, length of 400 mm	8
	Ansell chemical protective gloves, type Barrier, length of 400 mm	9
	Ansell chemical protective gloves, type Barrier, length of 400 mm	10
160270	Ansell chemical protective gloves, type Barrier, length of 400 mm	11

Touch N Tuff:

Properties

- Material: Nitrile
- Color: Green
- Size: 9 1/2 - 10
- Length: 240 mm
- Box of 100 pieces
- Powdered for easy on/off and moisture absorption



Article no. 160031-XL



Protective Suits

- Coverstar
- Covertex
- Tyvek
- Tychem
- Ansell Alphatec

EU Standards



Typ 3

EN 14605 - Protective clothing against liquid chemicals

Performance requirements for chemical protective suits with liquid-tight connections between different parts of the clothing, including items of clothing providing protection to parts of the body only (Type PB 3).



Typ 4

Performance requirements for chemical protective suits with spray-tight connections between different parts of the clothing, including items of clothing providing protection to parts of the body only (Type PB 4).



Typ 5

EN ISO 13982-1 - Protection against solid particulates

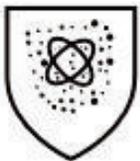
Section 1: Performance requirements for chemical protective clothing providing protection to the whole body against airborne solid particulates.



Typ 6

EN 13034 - Protective clothing against liquid chemicals

Performance requirements for chemical protective clothing with limited protective performance against liquid chemicals, including items of clothing providing protection to parts of the body only (Type PB 6).



EN 1073-2 - Protective clothing against radioactive contamination

Section 2: Requirements and test methods for non-ventilated protective clothing against particulate radioactive contamination.



EN 14126 - Protective clothing against infective agents

Performance requirements and test methods for protective clothing against infective agents.



EN 1149 - Protective clothing – Electrostatic properties

Part 1: Test methods for measurement of surface resistance

Part 3: Test methods for measuring of charge decay

Part 5: Performance requirements for material and design requirements



EN ISO 14116 - Protection against flame

Materials, material combinations and clothing with limited flame spread.

Inde1 - Requirements for: Flame spread, flaming droplets, afterglow

Inde2 - Requirements for: Flame spread, flaming droplets, afterglow, hole formation

Inde3 - Requirements for: Flame spread, flaming droplets, hole formation, afterglow, afterburn

PPE Categories

Kat. I	Protection against low risks
Kat. II	Protection against medium risks
Kat. III	Protection against high risks

CoverStar® CS 500

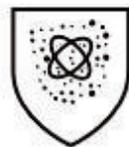
- Polypropylene spunbond with laminating film 65 g/m
- Protection category: III; type 5 and 6 antistatic according to EN 1149-1; three-part hood; arm, leg and waist rubber
- Low-linting due to outer lamination (reduced danger of secondary inhalation)
- High tear strength due to the combination of PP and laminate
- Increased mobility thanks to the three-part hood and gusset in the crotch
- Antistatic equipment prevents static charging and reduces security risks
- Good comfort resulting from the textile character enables a better working atmosphere
- Self-stopping zip fastener reduces both accidental opening and security risks
- Packaging unit = 50 pieces



Typ 5



Typ 6



Article no.	Description	Size
	Coverstar CS 500 protective overall with hood	S
110496-M	Coverstar CS 500 Schutzoverall mit Kapuze	M
110496-L	Coverstar CS 500 Schutzoverall mit Kapuze	L
110496-XL	Coverstar CS 500 Schutzoverall mit Kapuze	XL
110496-XXL	Coverstar CS 500 Schutzoverall mit Kapuze	XXL
110496-XXXL	Coverstar CS 500 Schutzoverall mit Kapuze	XXXL
110496-XXXXL	Coverstar CS 500 Schutzoverall mit Kapuze	XXXXL

CoverStar® ECO

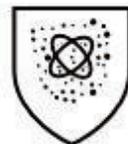
- Polypropylene spunbond with microporous film laminate
- PSA category III; type 5B + 6B; hood; arm, leg and waist rubber
- Low-linting due to outer lamination (reduced danger of secondary inhalation)
- High tear strength due to the combination of PP and laminate
- Increased mobility thanks to the three-part hood and gusset in the crotch
- Antistatic equipment prevents static charging and reduces security risks
- Good comfort resulting from the textile character enables a better working atmosphere
- Self-stopping zip fastener reduces both accidental opening and security risks
- Packaging unit = 50 pieces



Typ 5



Typ 6



Article no.	Description	Size
	Disposable protective overall Coverstar ECO	S
	Disposable protective overall Coverstar ECO	M
112219-L	Disposable protective overall Coverstar ECO	L
112219-XL	Disposable protective overall Coverstar ECO	XL
112219-XXL	Disposable protective overall Coverstar ECO	XXL
112219-XXXL	Disposable protective overall Coverstar ECO	XXXL

CoverStar® CS 400

- Material: PP spunbond with microporous film laminate
- Three-part hood
- Elastic band to ensure an optimal fitting of the hood
- Arm, leg and waist rubber
- Two-way zip fastener
- Cover for zip fastener with cellotape
- Glued (not sewn) elastic band at the back to increase protection
- Thumb loops
- Antistatic design
- Color: white
- Packaging unit = 50 pieces
- PSA category III, type 4B + 5B + 6B



Scope of application

- Pharmaceutical industry
- Automotive industry
- Resin processing
- Chemical industry
- Food industry
- Epidemic control and much more



Typ 4



Typ 5



Typ 6



Article no.	Description	Size
	Coverstar Plus CS 400, chemical protection overall	S
	Coverstar Plus CS 400, chemical protection overall	M
112261-L	Coverstar Plus CS 400, chemical protection overall	L
112261-XL	Coverstar Plus CS 400, chemical protection overall	XL
112261-XXL	Coverstar Plus CS 400, chemical protection overall	XXL
112261-XXXL	Coverstar Plus CS 400, chemical protection overall	XXXL

Covertex C3-FR

- Material: Multi-layer (SMS) PP spunbond with flame-retardant equipment
- Three-part hood
- Elastic band to ensure an optimal fitting of the hood
- Arm, leg and waist rubber
- Two-way zip fastener
- Cover for zip fastener
- Antistatic equipment / flame-retardant
- Color: blue
- Packaging unit = 50 pieces
- PSA category III, type 5 + 6



Scope of application

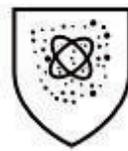
- Electric and water utility
- Maintenance and assembling tasks
- Refineries
- Laboratories
- Vehicle repair
- Coal extraction
- Waste incineration and much more



Typ 5



Typ 6



Article no.	Description	Size
112247-M	Protective overall type Covertex C3-FR	M
112247-L	Protective overall type Covertex C3-FR	L
112247-XL	Protective overall type Covertex C3-FR	XL
112247-XXL	Protective overall type Covertex C3-FR	XXL
112247-XXXL	Protective overall type Covertex C3-FR	XXXL
	Protective overall type Covertex C3-FR	XXXXL

Protective Suit Tyvek 500 Xpert

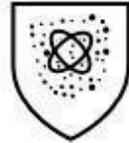
- Material: Polyethylene spunbond
- PSA category III type 5B + 6B
- Comes with a hood
- Elastic bands on sleeve and leg ends at the hood
- Cover for zip fastener
- Glued in elastic band in the back area
- External seams
- Ergonomic design
- Antistatic equipment
- Color: white
- Packaging unit = 100 pieces



Typ 5



Typ 6



Article no.	Description	Size
110513-S	Tyvek Pro-Tech Xpert	S
110513-M	Tyvek Pro-Tech Xpert	M
110513-L	Tyvek Pro-Tech Xpert	L
110513-XL	Tyvek Pro-Tech Xpert	XL
110513-XXL	Tyvek Pro-Tech Xpert	XXL
110513-XXXL	Tyvek Pro-Tech Xpert	XXXL

Protective Suit Tyvek Polyplus

- Material: Polypropylene spunbond with PE film
- Color: yellow
- Packaging unit = 25 pieces
- Comes with a hood
- Face, arm and leg rubber
- Cover for zip fastener with adhesive lock
- Additionally glued seams
- In line with CE marking 0302, Cat. III, type 4, 5, 6



Typ 4



Typ 5



Typ 6

Artikel-Nr.	Bezeichnung	Größe
	Disposable moisture protection combi suit Tyvek Polyplus	L
112125-XL	Disposable moisture protection combi suit Tyvek Polyplus	XL
112125-XXL	Disposable moisture protection combi suit Tyvek Polyplus	XXL
	Disposable moisture protection combi suit Tyvek Polyplus	XXXL

Chemical Protective Suit Tychem 2000 C

- Material: polyethylene spunbond with polymeric coating
- Protection against liquid splashes up to a pressure of 2 bar
- Hood with elastic band
- Tight mask closure
- Seams pasted over in a heated manner
- Bondable, twofold cover for zip fastener
- Elastic band on arms and legs
- Elastic band glued in at the waist
- Elastic thumb loops
- Color: yellow
- Packaging unit = 25 pieces
- Cat. III type 3B, 4, 5, 5
- Fulfills requirements of EN 14126:2003



Scope of application

- Concentrated anorganic chemicals
- Biological hazardous substances
- Chemical industry
- Removal of manufacturing plants
- Tank cleaning, inspection and maintenance
- Industrial cleaning and maintenance

Your advantages

- Innovative suit design ensuring better protection
- Low weight of the suit
- Suited barrier towards a great number of decontamination media



Typ 3



Typ 4



Typ 5



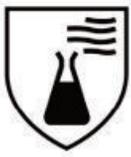
Typ 6



Article no.	Description	Size
110651-XL	Tyvek type Tychem C	XL
110651-XXL	Tyvek type Tychem C	XXL

Protective Suit Tychem 6000 F

- Material: polyethylene spunbond with barrier film
- Chemical protection mixture with hood and rubber
- Sealing at the hood
- Seams that are pasted over
- Elastic band at the waist
- Entry point at the back
- Interlocking system with twofold cover
- Attached undergloves
- Attached conductive socks
- Antistatic equipment
- Color: grey
- Packaging unit = 10 pieces
- PSA category III, type 3B + 4B + 5B + 6B



Article no.	Description	Size
112278-S	Tyvek type Tychem 6000 F, custom-made item	S
112278-M	Tyvek type Tychem 6000 F	M
112278-L	Tyvek type Tychem 6000 F	L
112278-XL	Tyvek type Tychem 6000 F	XL
112278-XXL	Tyvek type Tychem 6000 F	XXL
112278-XXXL	Tyvek type Tychem 6000 F	XXXL
112278-XXXXL	Tyvek type Tychem 6000 F, custom-made item	XXXXL

Ansell Alphatec 3000

- Comfortable, antistatic protective clothing, high chemical barrier
- Impermeable seams
- Protection against splashes and flushes of liquid hazardous substances (type 3, 4, 5)
- Sleeve gaiters ensure that gloves can be adapted simply and safely
- Even in case of overhead work, hazardous substance cannot enter the sleeves
- Safe and complete sealing at the front due to double zip fastener

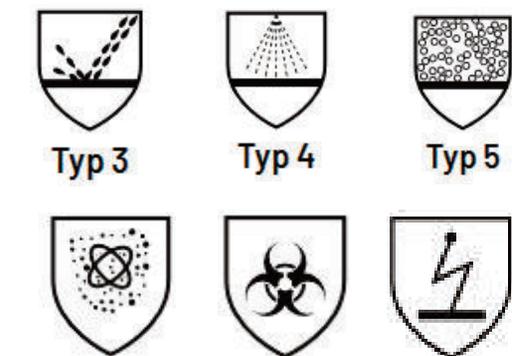


Properties

- Model 111
- Optimal protection for high pressure jet work
- Better moisture barrier due to strong, impermeable ultrasound weldseams
- Great chemical barriers (> 100 chemicals)
- Resistant three-layer material
- The suit can be closed and taken off safely due to its unique twofold zip fastener
- Optimized design offers greater comfort
- Bright signal color
- Silicone-free and antistatic in line with EN 1149-1
- X-seam hood to ensure optimal mask adaptation
- Optional with sleeve wrap, back ventilation, welded-on barrier gloves, footlets

Scope of application

- Chemical industry
- Cleaning of chemical plants
- Industrial cleaning with high pressure water jets
- Application of agricultural chemicals
- Protection against muds containing oil
- Dealing with cast resin
- Jet work with chemical additives
- Tank cleaning



Material

- 3-layer PP laminate, yellow, stretchy, 75 g/qm
- Extremely smooth and flexible
- Antistatic (EN 1149-1)
- 110 chemicals tested in line with EN 369

Packaging unit = 20 pieces

Article no.	Description	Size
112128-L	Alphatec 3000 moisture protective overall, yellow	L
112128-XL	Alphatec 3000 moisture protective overall, yellow	XL
112128-XXL	Alphatec 3000 moisture protective overall, yellow	XXL
112128-XXXL	Alphatec 3000 moisture protective overall, yellow	XXXL
112128-XXXXL	Alphatec 3000 moisture protective overall, yellow	XXXXL

Ansell Alphatec 4000 Model 122

Properties

- Model 122
- Material: multi-layer laminate (PP film, spunbond, core made of barrier film)
- Overall, two-part hood
- Twofold zip fastener
- Twofold sleeve wrap with textile knit waistband, waist and leg wrap
- Integrated footlets with leg wrap
- Color: green
- CE category III, type 3B, 4B, 5B
- EN 1073-2, EN 14126, EN 1149-5

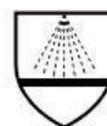


Scope of application

- Chemical handling
- Filling, mixing and loading raw materials
- Emergency use associated with hazardous substances
- Chemical industry
- Biological science
- Mining
- Fire and rescue
- Oil and gas



Typ 3



Typ 4



Typ 5



Article no.	Description	Size
112126-XL	Overall Alphatec 4000, green, with footlets	XL
112126-XXL	Overall Alphatec 4000, green, with footlets	XXL

Ansell Alphatec 4000 Model 151

- Extraordinary barrier against organic and inorganic chemicals as well as biological hazardous substances
- Ultrasonically welded and taped seams
- This seam technology offers the highest barrier against liquids and particles



Properties

- Model 151
- Material: multi-layer laminate (PP film, spunbond, core made of barrier film)
- Has a rubber sealing tip ensuring full face mask sealing in a perfect way
- Comes with welded gloves
- Protection: permeation data for more than 180 industrial chemicals including chemical agents
- Comfort: textile-like internal side ensuring greater wearer acceptance
- Antistatic (in accordance with EN 1149-5)
- Designed for safety purposes: standard overall offers twofold zip fastener system and sleeve wraps



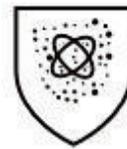
Typ 3



Typ 4



Typ 5



Scope of application

- Handling / transport of chemicals
- Oil-bearing mud
- Disposal of hazardous substances
- Sewage treatment plants
- Cleaning in heavy industrial environments / tank cleaning
- Emergency services (Federal Agency for Technical Relief, etc.)
- Pharmaceuticals
- Mining
- Agriculture

Article no.	Description	Size
112209-L	Overall Alphatec 4000, green	L
112209-XL	Overall Alphatec 4000, green	XL
112209-XXL	Overall Alphatec 4000, green	XXL
112209-XXXL	Overall Alphatec 4000, green	XXXL



8000000000

Protective Clothing

- Chest Wader
- Blouson
- JetProtect
- ChemieKombi

Chest Wader

- 100% polyester-made
- Has a PVC coating
- Intermediate sizes 42, 44, 46
- Comes with UV boots in line with EN ISO 20345/S5



Article no.	Description	Size
330446-42	Chest wader with UV boots	42
330446-44	Chest wader with UV boots	44
330446-46	Chest wader with UV boots	46

Blouson for Moisture Protection

- Custom-made design made of a highly tear-resistant and hardwearing special fabric composed of polyester (10%) and PVC (90%)
- Water-impermeable due to accurately sealed and welded seams
- Comfortable wearing style
- Highly closed hood with chin protector and face mask and drawstring
- Optimal use is ensured if worn together with tightly integrated PVC gloves in accordance with EN 388/420 Cat. II CE marked
- Color: olive



Article no.	Description
110965	special moisture protection blouson with integrated gloves
110980	special moisture protection blouson, unintegrated

Jet Protection Suit JetProtect

- Suitable for water high pressure work in particular
 - Impermeable to water and particles
 - Additionally, all seams are taped in a waterproof way
 - The zip fastener on the front side is characterized by an additional Velcro seal
 - The bib on the inner side can be adjusted to seal the front part with snap fasteners
 - Integrated hood, twofold sleeve wrap, legs flared in a wedge-shaped way with two Velcro seals and reflective stripes
 - Half-lined legs
-
- Material: 100% polyester (PES) or polyamide (PA)
 - Hydrophilic, breathable PU coating
 - Weight: 160 g/m²
 - Reflective stripes are in compliance with traffic regulations
 - Warning color: yellow/navy



The JetProtect adheres to the norms EN 343, EN 13034 type 6, EN-IOS 13982-1 type 5, EN-IOS 20471 type 4, 5, 6.

Article no.	Description	Size
220058-M	Moisture protection bundle JetProtect, warning yellow/navy	M
220058-L	Moisture protection bundle JetProtect, warning yellow/navy	L
220058-XL	Moisture protection bundle JetProtect, warning yellow/navy	XL
220058-XXL	Moisture protection bundle JetProtect, warning yellow/navy	XXL
220058-XXXL	Moisture protection bundle JetProtect, warning yellow/navy	XXXL

We are glad to also provide you with TST ultra high pressure protective clothing that you can find in our UHP catalog.

Combination of Chemical Protection Decontex P100

- Impermeable to water and particles
- Outer fabric: 100% soecial PVC – elastomerized
- Extra smooth and flexibel to optimize wearing comfort
- Integrated hood with drawstring
- Zip fastener on the front side with twofold sealing and snap fasteners
- Protective bib on the zip fastener's upper end
- Elastic sleeve opening
- Interior protective gaiters in sleeve and leg ends
- Acids, lyes, salts, detergents
- Color: green



Article no.	Description	Size
220011-L	Special combination of chemical protection, Decontex P 100, green	M
220011-XL	Special combination of chemical protection, Decontex P 100, green	L
220011-XXL	Special combination of chemical protection, Decontex P 100, green	XL
220011-XXXL	Special combination of chemical protection, Decontex P 100, green	XXL
	Special combination of chemical protection, Decontex P 100, green	XXXL
	Special combination of chemical protection, Decontex P 100, green	XXXXL

Breathing Protection

Masks
Filters
Filtering Escape Device
Compressed Air Breathing Apparatus
Oxygen Self Rescuers



Disposable Face Masks

Particle Filtering Face Pieces FFP1:

Asatex Fine Dust Mask

- Keeps away fine dusts and particles up to the fourfold maximum allowable concentration value
- Shell-shaped
- Without exhalation valve
- Color: white
- Packaging unit = 20 pieces
- PSA category III EN 149:2001 + A1:2009

Asatex Fine Dust Mask:



3M Fine Dust Mask:

3M Fine Dust Mask 8710

- Keeps away fine dusts up to the fourfold maximum allowable concentration value
- Reliable and effective protection against dust and haze
- Without exhalation valve
- Color: white
- Packaging unit = 20 pieces
- CE certification, EN 149:2001 + A1:2009



Article no.	Description
140184	3M fine dust mask FFP1
140323	Asatex fine dust mask FFP1 without exhalation valve

Particle Filtering Face Pieces FFP2:

Asatex Fine Dust Mask

- Keeps away fine dusts and particles up to the tenfold maximum allowable concentration valve
- All round face seal, adjustable bands to protect against aerosols of dusts and smokes of reduced toxicity and carcinogenic character
- Shell-shaped
- With exhalation valve
- Color: white
- Packaging unit = 10 pieces
- PSA category III EN 149:2001 + A1:2009

Asatex Fine Dust Mask:



3M Fine Dust Mask:

3M Fine Dust Mask 8825+

- Keeps away fine dusts up to the tenfold maximum allowable concentration valve
- Comfortable, lightweight design
- Has a CPC exhalation valve to protect against solid and liquid fine dusts
- Color: white
- Packaging unit = 5 pieces
- CE certification



Article no.	Description
140186	3M fine dust mask FFP2
140322	Asatex fine dust mask FFP2 with exhalation valve

Particle Filtering Face Pieces FFP3:

Asatex Fine Dust Mask

- Keeps away fine dusts and particles up to 30 times the maximum allowable concentration valve
- All around face seal, adjustable bands to protect against toxic and highly toxic aerosols as well as carcinogenic dusts and smokes
- Shell-shaped
- With exhalation valve
- Color: white
- Packaging unit = 5 pieces / 60 pieces in a carton
- PSA category III EN 149:2001 + A1:2009

Asatex Fine Dust Mask:



3M Fine Dust Mask 8835:

3M Fine Dust Mask 8835+

- Keeps away fine dusts up to 30 times the maximum allowable concentration valve
- Comfortable, lightweight design
- Has a CPC exhalation valve to protect against solid and liquid fine dusts
- Color: white
- Packaging unit = 5 pieces
- CE certification



3M Fine Dust Mask 8833:

3M Fine Dust Mask 8833

- Keeps away fine dusts up to 30 times the maximum allowable concentration valve with Cool-Flow valve
- Comfortable wearing sensation
- Simple adaptation to the wearer's nose shape
- Color: white
- Packaging unit = 10 pieces
- CE certification, EN 149



Article no.	Description
140188	3M fine dust mask FFP3
140321	Asatex fine dust mask FFP3 with exhalation valve
140350	3M particle mask P3

Dräger X-plore 1900 Dust Mask:

Properties

- Level of protection: FFP1 (yellow), FFP2 (orange), FFP3 (red)
- Available in sizes S and M/L
- Smooth inner fleece made of skin-friendly, moisture-repellant material
- Simple handling
- Flexible nose clap and smooth sealing pad
- Visible mark to press on the nose clap
- Individually wrapped in hygienic plastic bags
- CoolMAX exhalation valve (optional)
- CoolSAFE filter material



Available from us on request.

Reusable Masks

Dräger X-plore 3500:

- Material: skin-friendly Drägerflex material
- Half-mask
- Mask body: Drägerflex – extremely skin-friendly, first-class wearing comfort, silicone-free
- Connections: twinfilter bayonet connection to ensure simple and secure attachment of the filters. Both are inserted from above and turned down to the attachment point
- Weight: approx. 95g
- Tested and approved according to CE certification (EN 140)



Article number: 210082

Dräger X-plore 5500:

- Full-face mask
- Sealing frame: twofold sealing frame with threefold sealing line to ensure reliable protection and tight fit for a great variety of facial structures
- 2 lateral bayonet connections to ensure simple and secure attachment of the filters. Filters are inserted from above and turned down to the attachment point.
- Inspection glass: large field of view with excellent visual quality and great chemical, mechanic and thermic resistance
- 5-point harness: quick and easy donning of the mask
- One-size-fits-all



Technical Data

- Mask body: resistant and skin-friendly EPDM
- Inspection glass: polycarbonate
- Weight: approx. 540g
- Tested and approved according to EN 136 class 2 (CE mark), NIOSH

Article number: 210085

Dräger X-plore 6300:

For professional industrial applications, the Dräger X-plore 6300 fulfills the highest requirements in terms of reliability, tight fit and wearing comfort. In conjunction with respiration filters of Dräger's comprehensive filter offering, it has tried and tested multiple times in highly diverse applications involving all the different kinds of contaminants and concentrations. In case it is used for several hours, it can also be used with a power-assisted filtering device.

Technical Data

- Mask body: resistant and skin-friendly EPDM
- Inspection glass: scratch-proof PMMA (plexiglass) with 180° wide angle
- Connection: robust synthetic material with inhalation and exhalation valve, standardized round thread connection Rd 40x1/7" according to EN 148-1
- Weight: approx. 500g
- Tested and approved according to EN 136 class 2 (CE mark), NIOSH, AS/NZS
- Full-mask
- 5-point harness to ensure quick and easy donning of the mask



Article number: 210083

Denotation
Dräger X-plore 6300

Accessories
Wilkov V carrying box
Mask spectacles frame
Anti-fogging gel "klar-pilot" (50ml)
DAISYquick cleaning cloths (pack of 10)

Filter (particle filters)
680 P3 (incinerable)
Gasfilter
900 A2
900 K2
900 A2B2
105 AX
620 A2B2E2K2

Filter (composite filters)
900 A2-P3 D
620 A2B2-P3 D
105 AX-P3 D
900 A2B2E2K1-P2 D
620 A2B2E2K2 Hg-P3 D
620 A1B2E2K1 Hg CO NO-P3 D

Dräger X-plore 6530:

High-performance and cost-effective Dräger X-plore 6530 is the full-mask for the price-conscious user who does not want to forgo high wearing comfort and proven quality. It is the successor of the Panorma Nova standard that has been tried and tested on a global scale for decades. It has been revised and improved in terms of technical details, equipment and coloring.

- Full-mask
- Mask body: made of EPDM, vizor made of triplex or PC
- Standardized round thread connection according to EN 148-1
- Can be combined with all the filters that have a standardized round thread connection
- 5-point harness to ensure quick and easy donning of the mask
- Secure and comfortable tight fit
- Wide field of vision due to 180° inspection glass made of PC or triplex
- Stainless steel voice diaphragm facilitating clear communication



Article number: 210109

Dräger FPS 7000:

- Full-mask
- Wide and optimized field of view
- Comfortable and tight fit
- Mask body: skin-friendly silicone or EPDM
- Distortion-free polycarbonate inspection glass
- Its harness allows user to don and doff the mask easily and quickly
- Round thread connection
- EN 136 class 3, EN 137 type 2



Article number: 121483

Advantages

The filter full-masks series Dräger FPS® 7000 sets new standards in terms of security and wearing comfort. With its proven design and different sizes, it offers a wide, optimized field of view and great fit that is both comfortable and tight.

Filter

P3:

- Type Dolomite
- Particle screw filter P3
- EN 143/146/147
- DIN 3181

Article number: 140081



ABEK:

FILTER-FARBKENNUNGEN

Kennfarbe	Filtertyp	Hauptanwendungsbereich
braun	A	Organische Gase und Dämpfe (Siedepunkt > 65 °C)
grau	B	Anorganische Gase und Dämpfe
gelb	E	Schwefeldioxid, Chlorwasserstoff
grün	K	Ammoniak
rot	Hg	Quecksilber-Dampf
weiß	P	Partikel

BESTELLINFORMATIONEN

FILTER	SACH-NR.	FILTER	SACH-NR.
Partikelfilter		Spezialfilter	
1140 P3 R (veraschbar)	67 38 932	1140 Nuklear P3 D	67 38 871
auch als Gebläsefilter TH/M3 P SL R		1140 Reaktor P3 R D	67 38 861
(EN 12941/12942) für Dräger X-plore® 7500 einsetzbar		1140 Reaktor P3 R D*(veraschbar)	67 38 859
Gasfilter		Dräger X-plore® Rd40 X-tended	
940 A2	67 38 855	(mind. 30% höhere Standzeit gegenüber Normanforderung)	
940 A2B2	67 38 779	X-tended 1140 A2	67 38 928
1140 AX	67 38 863	X-tended 1140 A2 P3 R D*	67 38 929
1140 AXB2*	67 38 782	X-tended 1140 A2B2E2K2*	67 38 930
940 E2	67 38 796	X-tended 1140 A2B2E2K2 Hg P3 R D*	67 38 927
940 K2	67 38 856	Dräger X-plore® Rd40 CARGO	
940 A2B2E2K1	67 38 802	(Verpackungseinheit für Großabnehmer im neutralen Karton)	
1140 A2B2E2K2*	67 38 804	1140 P3 R (25 Stk.)	67 32 974
Kombinationsfilter		940 A2B2E2K1 (27 Stk.)	67 38 926
940 A2 P2 R D	67 38 857	1140 A2B2 P3 R D (27 Stk.)	67 38 925
1140 A2 P3 R D	67 38 860	1140 A2B2E2K2 Hg P3 R D* (27 Stk.)	67 38 923
auch als Gebläsefilter TH/M3 A2 P SL R		1140 A1B2E2K1 Hg NO P3 R D / CO 20 P3 R D* (27 Stk.)	67 38 924
(EN 12941/12942) für Dräger X-plore® 7500 einsetzbar			
940 A2B2 P2 R D	67 38 780		
1140 A2B2 P3 R D	67 38 783		
auch als Gebläsefilter TH/M3 A2 B2 P SL R			
(EN 12941/12942) für Dräger X-plore® 7500 einsetzbar			
1140 AX P3 R D	67 38 862		
940 K2 P2 R D	67 38 858		
940 A2B2E2K1 P2 R D	67 38 803		
1140 A2B2E2K1 Hg P3 R D	67 38 815		
1140 A2B2E2K2 Hg P3 R D*	67 38 797		
auch als Gebläsefilter TH/M3 ABEK2 Hg P SL R			
(EN 12941/12942) für Dräger X-plore® 7500 einsetzbar			
1140 A1B2E2K1 Hg NO P3 R D / CO 20 P3 R D*	67 38 801		
1140 A2B2E2K2 Hg NO P3 R D / CO 20 P3 R D*	67 38 814		



Article number: 140047

Bajonett P3:



Bajonett A2P3:



Article number: 140342

Article number: 140347

FILTER-FARBKENNUNGEN

Kennfarbe	Filtertyp	Hauptanwendungsbereich
braun 	A	Organische Gase und Dämpfe (Siedepunkt > 65 °C)
grau 	B	Anorganische Gase und Dämpfe
gelb 	E	Schwefeldioxid, Chlorwasserstoff
grün 	K	Ammoniak
rot 	Hg	Quecksilber-Dampf
weiß 	P	Partikel

Filter	Packungseinheit	Gewicht	Sach-Nr.
Partikelfilter			
P3 R** 	22 St. = 11 Paar	35 g/St.	67 38 011
Pad P2 R**	20 St. = 10 Paar	5 g/St.	67 38 002
Pad P1 NR**	20 St. = 10 Paar	5 g/St.	67 38 001
Pure P2 R**	20 St. = 10 Paar	20 g/St.	67 38 353
Pure P3 R**	20 St. = 10 Paar	20 g/St.	67 38 354
Pure Odour P3 R**	20 St. = 10 Paar	30 g/St.	67 38 391
Pure Adapter	10 St.	18 g/St.	67 38 356
Pad-Kappe	12 St.	20 g/St.	67 38 038
Pad-Platte	12 St.	20 g/St.	67 38 039
Vorfilter für Kombinationsfilter	40 St. = 20 Paar	0,2 g/St.	67 38 159
Vorfilter Kappe	14 St. = 7 Paar	12 g/St.	67 37 576
Gasfilter			
A1	20 St. = 10 Paar	90 g/St.	67 38 872
A2	20 St. = 10 Paar	90 g/St.	67 38 873
A2B2	18 St. = 9 Paar	120 g/St.	67 38 775
A1B1E1	20 St. = 10 Paar	110 g/St.	67 38 778
A1B1E1K1	20 St. = 10 Paar	110 g/St.	67 38 816
Kombinationsfilter			
A1 P3 R D** 	14 St. = 7 Paar	120 g/St.	67 38 874
A2 P3 R D**	14 St. = 7 Paar	120 g/St.	67 38 875
A2B2 P3 R D**	12 St. = 6 Paar	150 g/St.	67 38 776
A1B1E1K1 Hg P3 R D**	14 St. = 7 Paar	140 g/St.	67 38 817
A2B2E2K2 Hg P3 R D**	10 St. = 5 Paar	210 g/St.	67 38 819

* nur in Verbindung mit Vollmasken einsetzen

** Kennzeichnung "D": zugelassen zur Wiederverwendung (mehr als eine Schicht)

Kennzeichnung "D": Dolomitstaub-Einspeicherfest gegen Verstopfen („logging“) wurde erfolgreich bestanden

Filter Escape Device

Dräger Parat 3100:

- Half-mask with 2 point harness equipped with a multi-gas ABEK 15 filter
- Reliable protection for at least 15 minutes
- Transparent backplate
- Protection against suddenly occurring gas hazards
- Easy and convenient handling, as it can be carried along the belt or clothing
- Comes with a mouthpiece and nose clip
- Robust plastic case
- DIN 58647-7



Available from us on request.

Dräger Parat 3200:

- Mouthpiece with nose clip and ABEK 15 filter
- Reliable protection against for at least 15 minutes
- Transparent backplate
- Protection against suddenly occurring gas hazards
- Easy and convenient handling, as it can be carried along the belt or clothing
- Robust plastic case
- DIN 58647-7



Article number: 121373

Dräger Compressed Air Breathing Apparatus PAS Colt

Short duration compressed air breathing apparatus according to EN 137 or EN 402

Combining versatility and user-friendliness with the most recent technology in the area of respiratory devices, Dräger PAS Colt is one of the most technologically advanced short duration and emergency escape units available.

Components

- Compressed air breathing apparatus PAS Colt as a short duration compressed air breathing apparatus (EN 137) or emergency escape unit (EN 402)
- Regulator PSS-N normal pressure or ESA excess pressure
- Compressed air tank made of steel or CFK
- Full-mask normal pressure or excessive pressure
- EN 137 (BGR190-G26)



Article number: 121489

Oxygen Self-rescuer Oxy 3000 MK II

Properties

- Optional rubber abrasion protection
- Shoulder strap version
- Support ring
- Exterior shell: combination of metal and plastic
- Robust plastic lid
- Integrated shock absorber
- Field of view allowing to evaluate proper functioning
- Opener with seal
- Compact, ergonomic shape
- Mouthpiece with velum, safety glasses, nose clap, halterneck, chest strap
- Antistatic breathing bag
- Heat protection



Technical Data

- Working time: 30 min
- Life expectancy: 10 years if unopened
- Dimensions: 230 x 194 x 122 mm
- Approvals: DIN EN 13794 88 / 686 / EWG AS / NZS 1716:2012

Article number: 270797

Accessories:

Article no.	Description
121451	Dräger waistbelt for Oxy 3000
121452	Dräger shoulder belt for Oxy 3000



Gas Measurement Technology

Gas Detectors.
Checking Stations

Gas Detectors:

Dräger X-am 5000:

Dräger X-am 5000 4 gas monitor with ATEX approval is water and dust resistant according to IP 67. Moreover, the device is equipped with a data logger as well as a battery and charging technology set by default. The following sensors are installed in this device:

- CO2 sensor (warranty: 12 months)
- Ex sensor (calibrated for methane)
- O2 sensor
- H2S sensor
- 24 months warranty on sensor technology (except CO2 sensor)

If fully charged, the battery life is approximately 9 hours. Further sensor combinations are possible (up to 5 gases can be measured simultaneously).

Article number: 150250



Dräger X-am 5600:

Dräger X-am 5600 4 gas monitor with ATEX approval is water and dust resistant according to IP 67. Moreover, the device is equipped with a data logger as well as a battery and charging technology set by default. The following sensors are installed in this device:

- Dual infrared sensor CO2/Ex (calibrated for methane)
- O2 sensor
- H2S sensor
- Warranty of 60 months on the sensor technology

If fully charged, the battery life is approximately 9 hours. Further sensor combinations are possible (up to 6 gases can be measured simultaneously).

Article number: 150271



Dräger X-am 5600 CSE-Set:

- Dräger X-am 5600 gas detection device
- With ATEX approval
- CSE-case free of charge if bought as a set

Composed of:

- Dräger X-am 5600 device with following sensor technology:
 - Dual IR Ex/CO₂ (warranty: 60 months)
 - XXS sensor O₂ (warranty: 36 months)
 - XXS sensor CO/H₂S (warranty: 36 months)
- Battery and charging set
- Inclusive of CSE-case with pump, float detector and 5m Viton-hose



Article number: 555

Dräger X-am 8000:

- Allows up to 5 sensors
- Lithium-ion battery
- Internal pump with pump adapter
- Inclusive of charging cradle and power plug
- Tightly closing alligator clamp
- Bluetooth, manufacturer's certificate and certificate of calibration
- Warranty (device): 3 years
- Warranty (battery): 1 year
- Configuration:
 - Dual IR sensor EX/CO₂ 6811960 (warranty: 60 months)
 - XXS E sensor CO 6812212 (warranty: 60 months)
 - XXS E sensor H₂S 6812213 (warranty: 60 months)
 - XXS E sensor O₂ (warranty: 60 months)
- Ingress protection class: IP67



Artikelnummer: 121529

Dräger X-am 8000 CSE-Set:

- Sensor technology:
 - Dual IR Ex/CO₂
 - XXS sensor O₂
 - XXS sensor CO LC/H₂S LC
- Calibration interval: 122 days (T021/T023)
- Alarm threshold: 10/20% UEG
- Inclusive of integrated pump
- Bluetooth module to support CSE Connect
- Battery charger and plug-in power supply unit
- Manufacturer's certificate and certificate of calibration
- Metrological report
- Additional sewage consisting of:
 - Calibration adapter
 - USB DIRA with USB cable
 - USB DIRA holder
 - Float detector and 3 m hose
 - Luer adapter and X-am 8000 case



Checking Stations:

Bump-Test:

With the Dräger Pump Test Station, function tests of gas detection can be carried out independently of the location in just a few seconds using a bump gas cylinder.

- Inclusive of a test gas bottle 58 l
- 15 ppm H₂S
- 2 vol. % CO₂
- 2.5 vol. % CH₄
- 18 vol. % O₂
- 50 ppm CO



Product benefits:

- Flexible use, as the bump test station does not require electrical power
- Short test duration
- Low gas consumption
- Reliable results

Article number: 150285

X-dock:

- Automatic bump tests and calibration with reduced test gas consumption
- Short test duration
- Alternative to the purely mechanic bump test station
- Configuration and operation via touchscreen
- Comprehensive documentation (stores all the relevant data)
- Fulfills requirements of T021/T023 of BG RCI
- Ingress protection class: IP 20
- Ambient conditions: temperature of 0 up to +40°C



Available from us on request.

You can further purchase test gas bottles as accessories from us. We usually have them in stock.

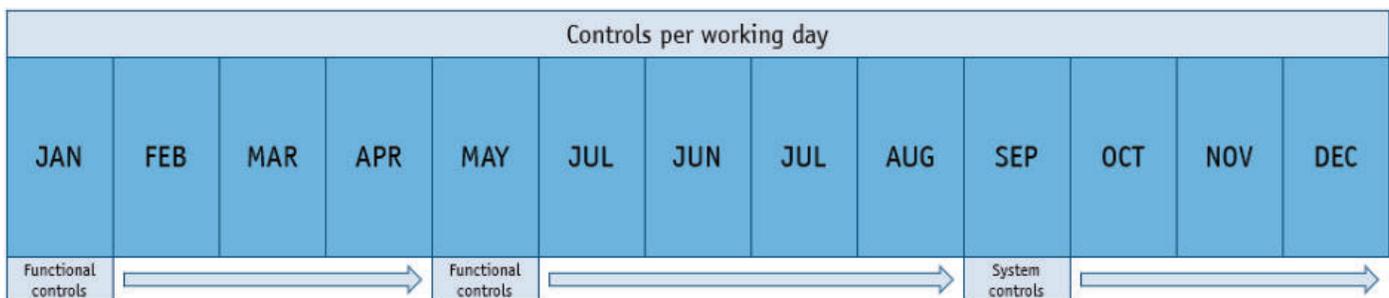
Instructions for Use and Maintenance for Your Gas Detector

Your gas detector has the objective to inform you about dangers and help you escape from possible invisible and odorless gases. In order to ensure that the device functions properly, it needs to be tested and maintained on a regular basis. Corresponding requirements are codified in T021/T023 of the DGUV, which also reflects the current technical standard.

As these norms and standards are usually highly comprehensive, we summarized the most important facts for you in the following:

- **Daily review:**
On days the device could be used, fumigation tests and a visual inspection of the device must be carried out by a trained person. For these purposes, a bump test station by Dräger can be used.
- **Function control:**
Gas detectors need to be exposed to function controls every four months. These can be carried out by Hugo Frauenhof GmbH. Function control requires training for qualified specialists, which is also offered by Dräger. The third function control is replaced by the system control.
- **System control:**
The gas detector needs to be subjected to a system control on an annual basis. This system control can be conducted by a qualified person (the manufacturer) only. Please feel free to contact us regarding a system control. As a function check is included in the system control, the former can be carried out on behalf of the latter.

A graphical illustration:





Antifall Guard

Descenders

Safety Harnesses

BIMET

Fasteners

HFH Tripod

Cargo Winch

Guided Type Fall Arrester

Descender SWISS ROLL R 300

Technical Data

- Equipped with a 30 m core sheath safety rope (diameter: 9mm)
- Inclusive of loose and tight deflection roller
- Inclusive of 2 safety carabiners
- On request, the rope comes with a nylon thimble
- Rope stop device as a standard feature

Article number: 270705



Safety Harness AFG 30

Technical Data:

- With catch eyelet in the shoulder area
- Recovery loop in the chest area
- Shoulder and leg straps adjustable in length
- With quick-release fasteners on the leg straps
- Additionally comes with a fastener with a D-ring
- For users with up to 140 kg
- EN 361

Article number: 270009



Safety Harness AFG30-C

Technical Data

- With catch eyelet in the shoulder area
- Recovery loop in the chest area
- Shoulder and leg straps adjustable in length
- Click closures on the legs
- Additionally comes with a fastener with a D-ring
- For users with up to 140 kg
- EN 361

Article number: 261694



Harness Tractel HT 55

Technical Data:

- 1 recovery loop in the back area as forged D-ring
- 1 central chest eyelet
- 5 adjustment points
- Comfortable mountaineering style leg straps
- Click closures on the legs
- Enhanced comfort is ensured by the X-pad on the back
- Fall indicator on all anchorage points

Article number: 150299



BIMET

Tripod:

- Tripod made of aluminium
- Collapse load: 22 kN
- Approved nominal load 500 kg
- 4 tested lifting points in the head of the tripod
- Maximum installation altitude up to 230 cm
- Diameter of 140 to 213 cm
- Transport dimensions 175 x 24 cm
- Inclusive of retaining band and safety chain
- EN 795 – type B



Artikelnummer: 112263

Fall Arrest Device:

- With locking function
- With 15 m of galvanized wire rope
- With swivel carabiner on the wire rope and carrying handle
- approved for one person with up to 140 kg
- EN 360, EN 1496, type B



Artikelnummer: 112265

Safety Winch:

- Safety winch LAW-K 25
- With 25 m steel wire
- Nominal load 500 kg
- Adapter for attachment to the tripod
- Inclusive of deflection roller and carabiner hook



Artikelnummer: 112267

Deflection Roller:

- Deflection roller for BIMET tripod UR 101

Article number: 112271



Mount:

- Adapter for attaching the height safety device HSG-SR

Article number: 112264



Fasteners

Y fasteners:

- Y-fasteners Elastic with BFD
- 1 safety carabiner hook
- 2 harness attachment carabiner
- Length: 1.55 m to 2 m
- EN 354/355



Article number: 102157

Fastener made of belt strap:

- Fastener made of belt strap
- For safety harnesses
- Length: 0.5 m
- Aluminium carabiner on one side
- EN 354



Article number: 261662

Fastener ELASTIC:

- Design ELASTIC with BFD type K
- Elastic from 1.55 m to 2 m
- With FS 51 carabiner on one side and FS 90 on the other side
- EN 354/355



Article number: 261695

HFH Aluminium Tripod

Technical Data:

- Suitable for 2 persons with a bearing load of 500 kg according to EN 795, type B
- Installation altitude of 86 cm to 210 cm
- 7 different height levels
- Self-weight: 14 kg
- Transport dimensions: 1.15 m
- Threepartite

Artikelnummer: 270774



Safety Winch

- Safety winch with 20 m wire rope and adapter for HFH aluminium tripod

Article number: 330447



Guided Type Fall Arrester

Artex Safety Set 2 10 m:

- Safety set 2
- For personal protective equipment against falling
- Composed of:
 - Safety harness EN 361
 - Guided Fall Type Arrester EN 353-2 Typ SKII
 - Safety rope S12-EN 354 10 m long
 - Attachment carabiner / rope protector
 - Plastic case
- EN 363



Artikelnummer: 270725

Artex Safety Set 2 15 m:

- Safety set 2
- For personal protective equipment against falling
- Composed of:
 - Safety harness EN 361
 - Guided type fall arrester EN 353-2 type SKII
 - Safety rope S12-EN 354 15 m long
 - Attachment carabiner / rope protector
 - Plastic case
- EN 363



Article number: 270726



Other PPE

Hard Hats

Helmet Mounts and Protective Visors

Safety Glasses

Ear Protection

Eye Wash Bottles

Hard Hats Euroguard 4

- Hard hats made of polyethylene
- Product Schuberth type Euroguard 4
- Controllable ventilation
- Equipped with 4-point webbing in the interior
- Sweatband made of leather
- Size 51-62
- In compliance with DIN 4840 / EN 397



Article no.	Description	Color
282874	Hard hat Euroguard 4	White
282875	Hard hat Euroguard 4	Red
282876	Hard hat Euroguard 4	Blue
282877	Hard hat Euroguard 4	Green
282878	Hard hat Euroguard 4	Yellow

Helmet Mounts and Protective Visors

Helmet Mount FH 66:

- Great fit with all standard helmets
- Secure fit on the helmet due to a secure tension spring
- Protective screens can be lifted up in four positions
- High imperviousness
- Screw cap or click closure



Helmet Mount FH 66 CAM:

- Great fit with all standard helmets
- Secure fit on the helmet due to a secure tension spring
- Protective screens can be lifted up in four positions
- High imperviousness
- Fastened with an excentric toggle

Replacement Screen f. FH 66 CAM

- Polycarbonate
- Splashguard, UV protection, shatter protection
- 500 x 250 x 1.0 mm

Replacement Screen FOCO 01:

- Standard, splashguard
- Shatter protection, UV protection, chemical protection
- 500 x 250 x 1.15 mm

Face Shield Basket-shaped:

- Closed fit, glass-clear
- Polycarbonate
- Splashguard, UV protection, shatter protection
- 450 x 220 x 1.0 mm

Article no.	Description
160097	Helmet mount FH 66, HC 41, BOB 74R, corresponds with BER Rö-M
280313	Helmet mount FH 66 CAM with toggle fastening, without screen
280314	Replacement screen f. FH 66-CAM- helmet and head mount
280811	Replacement screen FOCO 01, for helmet mount FH 66
281732	Face shield basket-shaped for helmet mount, type GFKVI 202, FOCO 2

Safety Glasses

Wraparound Full Vision Glasses:

- With indirect ventilation
- Mist-free
- Ventilation through 4 valves
- Suitable for wearing on top of corrective spectacles
- With acetate screen



Article number: 280252

Full Vision Glasses:

- Mist-free
- Acetate screen
- All-round ventilation
- Colorless / transparent



Article number: 320043

Clear Safety Glasses:

- Scratch-proof, mist-free
- EG5592 / PC-UF-BF
- Adjustable side
- Screen made of polycarbonate
- Color: blue



Article number: 280298

Overspecs:

- Safety Glasses MAX V 2
- Polycarbonate screen and temples
- Impact and scratch resistant
- Weight: 54 g
- DIN EN 166



Article number: 281679

Ear Protection

3M Earplugs:

- Acoustic insulation, SNR = 37 dB (A)
- The smooth, dirt-repellent surface is particularly hygienic, hard-wearing and comfortable
- The narrowing design fits comfortably into the most auditory canals
- The smooth polyurethane plastic foam is hypoallergenic
- Dispenser box = 200 box
- EN 352-2



3M Earplugs:

- With shaft
- Acoustic insulation, SNR = 38 dB
- The earplugs need to be preformed; a gentle pressure is sufficient to ensure a perfect fit
- Cleaning the top of the earplugs is not necessary to ensure flawless hygienic conditions
- Shape and size of the earplugs made of plastic foam simplify insertion
- Available with or without drawstring
- Packaging unit = 400 pieces

Laser Lite:

- Without drawstring
- SNR = 35 dB
- Packaging = 2 pieces
- Packaging unit = 200 pairs per carton
- EN 352

EAR Classic Soft:

- SNR = 36 dB
- Packaging unit = 200 pairs

Article no.	Description
150005	Ear protector North SNR30, Viking V1 capsule, blue
140320	3M earplugs
150133	Ear protector dispenser box Bilson, 303 L-10
150284	Earplug Laser Lite
140394	3M earplug, article EX01020
150282	Earplug EAR Classic Soft
150053	Earplug disposable dispenser 1002 "EAR", packaging unit = 250 pairs

Eye Wash Bottles

- Eye wash bottle Barikos
- Approx. 0,7 ltr.
- Filled with sterile water

Article number: 100100

- Eye wash bottle Barikos
- unfilled

Article number: 100222



Notes

Notes

Notes

Notes

Our General Terms and Conditions

§ 1 Application of Conditions

Our deliveries, services and offerings are carried out on the basis of these terms and conditions only. Therefore, they also apply to all future business relationships, even if they are not expressly declared again. These terms and conditions are considered as being accepted at latest at the moment goods and services are received. Confirmations to the contrary on the part of the buyer with reference to his business and purchasing conditions respectively are hereby rejected. Deviating from these terms and conditions is valid if and only if we confirm them in written form.

§ 2 Offer and Contract Conclusion

1. Our offers are nonobligatory and nonbinding. To be legally valid, declarations of acceptance as well as all the orders require our written or telex confirmation. The same applies to appendices, modifications, or additional agreements.
2. Drafts, illustrations, measurements, weights or other performance characteristics are valid if and only if expressly agreed on in written form.

§ 3 Prices

1. Unless stated otherwise, we commit ourselves to the prices specified in our offers for 30 days beginning with the quotation date. The prices explicitly stated in our order confirmation plus value-added tax are determinative of our pricing decision. Additional deliveries and services will be charged separately.
2. Unless otherwise agreed upon, our prices are calculated ex works Hilden, excluding packaging.
3. In the event of significant, unforeseeable increases in raw material, energy or production costs, we are entitled to adjust sales prices accordingly up to the delivery date. This includes unforeseeable price increases (Pre)suppliers included.

§ 4 Delivery Time and Time of Performance

1. Whether agreed upon bindingly or nonbindingly, term of delivery and date of delivery need to be made in writing.
2. We do not assume responsibility for delivery delays or delayed service provision due to force majeure and due to events that make delivery significantly more difficult or impossible for us – these include, in particular, strikes, lockouts, regulatory actions etc., irrespective of whether they occur with us, our suppliers, or our sub-suppliers – even if we agreed on deadlines and dates bindingly. In these cases, we are authorized to either (i) defer delivery or service provision by the number of days the obstruction took place plus a reasonable starting period or (ii) withdraw from the contract in whole or in part due to the part of delivery or service provision that has yet not been fulfilled.
3. If the obstruction lasts longer than three months, the buyer is entitled to withdraw from the part of the contract that has yet not been fulfilled after setting an adequate grace period. However, the buyer cannot derive any claims for damages if delivery time is extended or we are released from our obligation. We can appeal to these circumstances mentioned if and only if we give notice to the buyer immediately.
4. If we are responsible for a failure to comply with deadlines or dates we bindingly agreed upon or if we are in default, the buyer is entitled to insist upon compensation for delayed completion in the amount of 0.5% for each week completed after default, but in total up to 5% of the effective invoice amount of those deliveries and services that are affected by the default. Any further claims are ruled out, unless the default is based on at least gross negligence.
5. We are entitled to make partial delivery at any time.

§ 5 Passing of Risk

The risk demises to the buyer as soon as the shipment has been handed over to the person responsible for carrying out the transport or has left our warehouse for the purpose of shipment. If shipping is impossible independent of negligence on behalf of our side, the risk is demised to the buyer with the notice of readiness for shipment.

§ 6 Implied Warranty

1. We ensure that our products are not subject to manufacturing and material defects; warranty period is three months.
2. The warranty period begins with the date of delivery.
3. In case of defects, the buyer needs to inform us in written form immediately or, at the latest, one week after receiving the delivery item. Defects that are undetectable within this period, even in case of careful inspection, must be reported to us in written form immediately after they have been detected.
4. If the buyer communicates to us that our products do not comply with the warranty, then after having made a decision, we request that
 - a) defective pieces be sent to us for remedy and subsequent return or
 - b) the buyer keep ready the defective pieces for the purpose of inspection and, where appropriate, remedy by ourselves or a third party commissioned by us.
5. If the remedy fails after a reasonable period, the buyer has the choice to demand either rescission of pay or cancellation of the contract.
6. Liability for usual wear and tear is excluded.
7. Warranty claims against us are entitled to the direct buyer only and are not transferable.
8. The preceding paragraphs conclusively contain the warranty for our products and exclude other warranty claims of any kind. This applies in particular to the restitution of consequential harms caused by a defective product.

§ 7 Reservation of Proprietary Rights

1. Till conformance to all the accounts receivable (including all the current account balance claims), that are entitled to us against the buyer for any legal reason now or in the future, the following securities are available to us and will release upon request at our discretion, insofar as their value exceeds the claims by more than 20%.
2. The goods remain our property. Processing or transformation is carried out for us as the manufacturer, but without any obligation on our part. If our (joint) property expires as a result of combination, it is already stipulated that the buyer's (joint) property of the homogenous good demises to us in proportion to its invoice value. The buyer stores our (joint) property without valuable consideration. Goods to which we have (joint) ownership are referred to below as goods subject to retention of title.
3. The buyer is entitled to process and sell the goods subject to retention of title in the ordinary course of business, as long as the buyer is not in default. Pledging or chattel mortgage are prohibited. As a precaution, the buyer assigns to us the accounts receivable resulting from the resale or any other legal reason (insurance, tortious act) with regards to the goods subject to retention of title (including all the current balance claims) to their full extent. We precariously authorize the buyer to collect the receivables assigned to us for our account in their own name. This direct debit authority can be revoked if and only if the buyer does not meet their payment obligations in proper form.

4. If third parties access goods subject to retention of title, the buyer will point at our ownership and notify us immediately.
5. If the buyer acts contrary to contract – in particular default of payment – we are entitled to take back the goods subject to retention of title or, if necessary, call for assignment of the buyer's claims for restitution against third parties. Revoking or seizing the goods subject to retention of title by us does not constitute a withdrawal from the contract, unless the Abzahlungsgesetz applies.

§ 8 Payment

1. In spite of contrary provisions of the buyer, we are entitled to initially offset payments against the buyer's older debts. If costs and interests have already accrued, we are entitled to offset the payment against the costs first, then against the interest and finally against the main service.
2. A payment is considered to have been made when we can dispose of the amount. In case of checks, the payment is considered to have been made when the check is cashed.
3. If the buyer is in default, we are entitled to charge interest at the rate calculated by the commercial banks for open overdrafts from the point of time the buyer is in default. They are to be set lower if the buyer can prove a lower burden.
4. If the buyer does not meet their payment obligations, in particular does not cash a check or suspends their payments, or if we become aware of other circumstances that call the buyer's creditworthiness into question, we are entitled to accelerate the entire remaining debt, even if we accepted checks. In this case, we are moreover entitled to request advance payment or a surety.
5. The buyer is entitled to offset, withhold, or reduce the price, even if notifications of defects or counterclaims are asserted, if and only if the counterclaims are legally binding or undisputed.

§ 9 Sales Return

1. We charge a handling fee of 15% of the net value of the goods for the expenses in connection with a return delivery, which cannot be attributed to a fault on our part (e.g. wrong delivery, delivery of faulty or defective goods etc.). Expenses in connection with a return delivery include incoming goods inspection and testing, re-storage and return to the supplier.
2. Moreover, we charge any transport, freight and packaging costs associated with a return delivery in accordance with paragraph 1.
3. Costs associated with damages during goods' return transport must be borne by the buyer.

§ 10 Limitation of Liability

Claims for damages based on impossibility of performance, positive violation of a contractual duty, culpa in contrahendo and tortious act are excluded both against us and against vicarious agents, unless intentional or grossly negligent conduct is involved.

§ 11 Applicable Law, Court of Jurisdiction, Partial Nullity

1. These terms and conditions and the entire legal relationship between the buyer and us are subject to the law of the Federal Republic of Germany. The applicability of the Uniform Law on the International Sale of Goods is excluded.
2. If the buyer is a registered trader within the meaning of the German Commercial Code, a corporate body under public law or public separate estate, Langenfeld is the exclusive place of jurisdiction for all the disputes arising from the contractual relationship directly or indirectly.
3. If a provision in these terms and conditions or a provision in the context of other agreements is or becomes ineffective, the validity of the other provisions or agreements is not affected.

Despite careful examination, misprints and changes are reserved. Those can be carried out at any time without prior notice.

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