



Frauenhof

Pure Quality. Pure Service. Pure Frauenhof.

Ultra High Pressure Technology



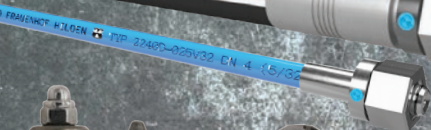
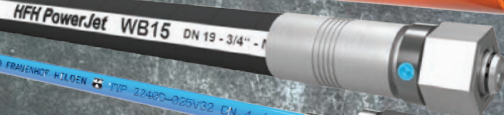
Hoses

Fittings

Nozzles

Adapters und
Connectors

Waterjet Protection





Waterjet Protection

Hose Lock

Protective Clothing

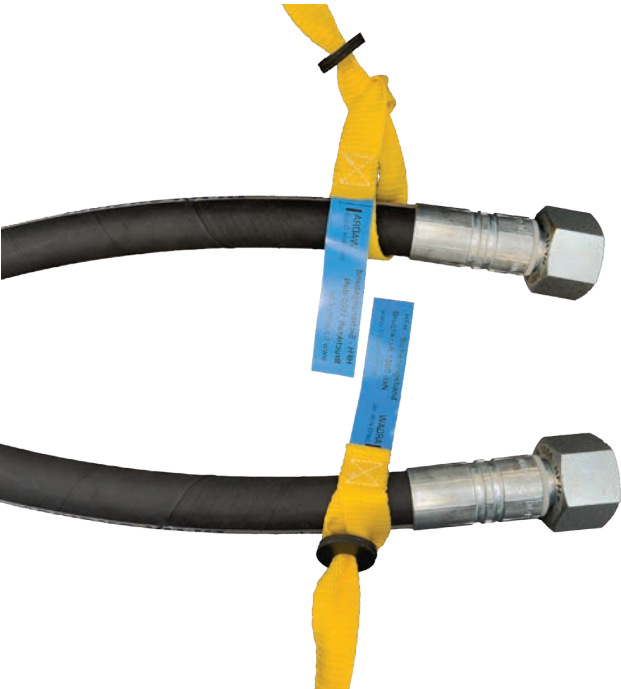
HFH Hose Securing Bands

Our hose safety bands are an alternative to hose securing grips and are therefore also used to prevent water jet hoses from whipping around in an uncontrolled manner. They also prevent the hoses from whipping after the fitting has been detached or torn off.

They are made of special synthetic and highly tear-resistant textile fabric with two sweeping loops. In addition to the standard version, they are also available with an additional stainless steel spring.

Both variants are characterised by their particularly easy application:

Article no.	Description	Length	Width	Minimum breaking load
271115	Without spring	700 mm	25 mm	1500 daN
270776	With spring	650 mm	25 mm	1500 daN



Einfach auf den Schlauch aufziehen, ...

... hinter der Armatur positionieren und mit dem Gummiring fixieren.



Hose Securing Grips

Not only investigations and tests but also practical experiences have shown that in the area of ultra high pressure technology, there is great hazard potential resulting from whipping hose ends when the hose line is torn apart, particularly at the connection points. As a pre-emptive measure, the usage of appropriate safety measures is prescribed in the relevant guidelines. In principle, both the local conditions and the installation situation at the respective construction site must be given special consideration and taken into account.



Hose securing grips in (un)separated format are an important auxiliary material that can be used to secure the hoses not only to one another but also the environment, for example on the vehicle.

In the separated format, connector hooks VE 01209 – 3.5t are used (875kg in case of fourfold security / collapse load 3,500kg).

Article no.	Description	Rope diameter		Minimum breaking load	Length compression springs	suitable for
270086	undivided	3,0 mm	0,5 m	10 kN	0,2 m	DN 3 to 8
270741	divided	5,0 mm	1,0 m	25 kN	0,25 m	DN 8 to 25
270074	undivided	5,0 mm	0,75 m	16 kN	0,235 m	DN 6 to 20



Water High Pressure Hose Restraint Device for Pipe Cleaning

Higher safety requirements and the analysis of fatal accidents in the area of working with ultra high pressure water jets have initiated a change in requirements for the protective measures for those carrying out the work. As an example, mechanical safety gears for returning nozzles respectively pipe cleaning lances represent the state of the art and are therefore considered a mandatory safety measure.

The retention device can be used by lance- and spiral hose workers mainly for cleaning in a broad variety of applications. Depending on pipe diameter and local conditions, the appropriate Fangkopf for the hoses DN 4 to 10, respectively DN 12 to 20 is positioned in front of the pipe with various clamping brackets and telescopic arms.

As proper clamping is a necessity, the pair of rollers must correspond to the respective hose diameter.

Due to the safety gear, nozzles and hoses remain fixed in work flow direction in case of a sudden aperture and can hence not endanger workers by whipping around or hitting them with an uncontrolled water jet.

The system was successfully presented to the work group “Flüssigkeitsstrahler” in the “Construction” professional association.

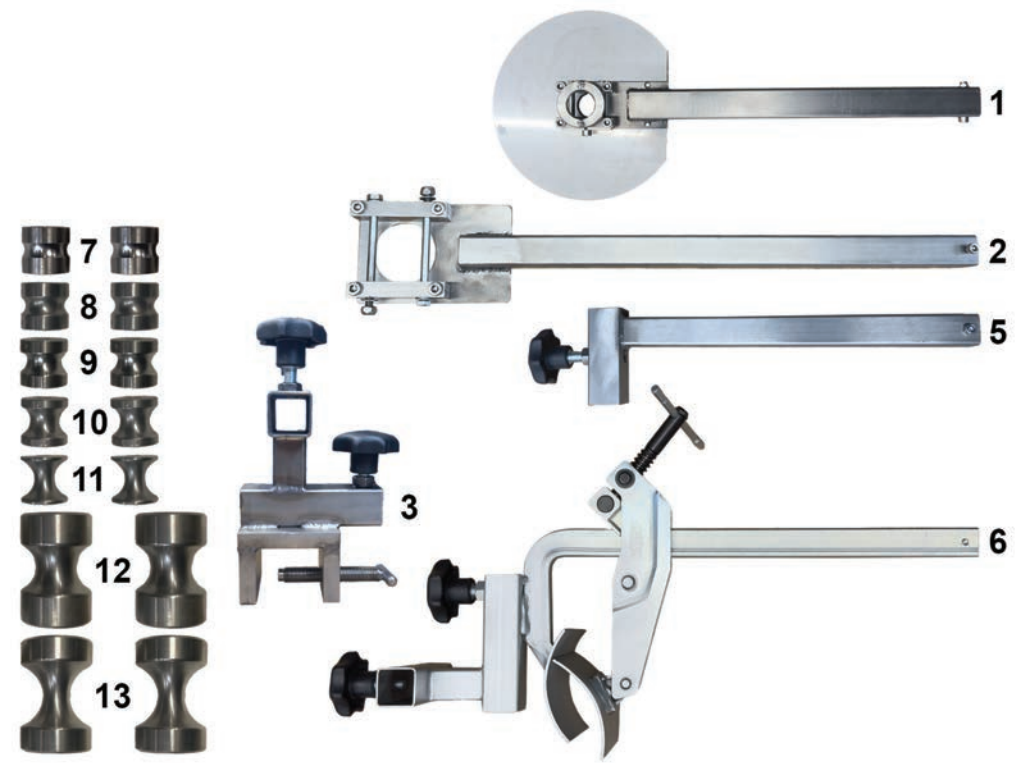
The basic model includes several clamping devices, and for DN4-10 respectively DN12-20 one telescopic arm each with roller holder.

The basic model does not contain a pair rollers. These must be ordered separately depending on the nominal hose size used.

All components are also available as individual parts, as replacements or repairs or for expansion.

Article no. 261005

Article no.	Description	Picture no.
261039	Telescopic arm 1 for DN4 - 10 without pair of rollers	1
261040	Telescopic arm 2 for DN12 - 20 without pair of rollers	2
261041	Connection clamp for pipes (external diameter 52 mm)	3
261042	Double clamp for pipes (outer diameter 155 mm) (not part of the basic model)	4
261043	90° square tube angle arm	5
261044	Special "screw clamp" holder	6
261006	Pair of rollers DN4	7
261007	Pair of rollers DN5	8
261008	Pair of rollers DN 6	9
261009	Pair of rollers DN8	10
261010	Pair of rollers DN10	11
261011	Pair of rollers DN12	12
261012	Pair of rollers DN20	13



Retention Device “Spiral Guide Arm” for Cleaning Heat Exchangers

The “Spiral Guide Arm” is a safety restraint device involved in the work with lance and spiral hoses and is primarily used for cleaning heat exchangers. Due to its broad range of clamping options, this restraint device can be used for other purposes, too. With its nozzle swivel and various telescopic arms, the junk basket can be brought into the desired positions easily, precisely and without great effort. Due to the safety gear, nozzles and hoses remain fixed in work flow direction in case of a sudden aperture and can hence not endanger workers by whipping around or hitting them with an uncontrolled water jet.

The application makes sense for heat exchangers with up to 2m in diameter and ultra high pressure water hoses DN 4-10 in particular.

For particular purposes, modified parts and special brackets can be ordered on request, for example for heat exchangers without a muff. Yet, these are not included in the basic model.

The basic model furthermore does not contain a pair of rollers. These must be ordered separately depending on the nominal hose size used. In case of repair or completion after loss, all the parts are moreover available as individual components.

As proper clamping is a necessity, the pair of rollers must correspond to the respective hose diameter.

Article no.: 261004

JetProtect Radiation Protection Suit

This water-resistant combination is used for high pressure work with water in particular. It is water and particle-proof, as all the seams are additionally taped in a water-tight way. The zipper at the front moreover has a hook-and-loop sealing. The inner bib can be adjusted with snap fasteners to seal the front section.

Furthermore, additional safety is ensured due to an integrated hood, a double cuff as well as wedge-shaped legs with two hook-and-loop seals and reflective stripes. The legs are lined halfway up.

Materials: 100% polyester (PES) or polyamide (PA); hydrophilic; breathable PU-coating Weight: 160 g/m2 Reflective stripes according to policies.

JetProtect fulfills the norms EN 343, EN 13034 Type 6, EN-IOS 13982-1 Type 5, EN-IOS 20471 Type 4, 5, 6.

The suit is available in the following sizes: M, L, XL, XXL, XXXL



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

UHP Safety Boots Primo 800

Conditions of use: Under the following conditions, the boots can be used up to a pressure of 800 bar:

- force of lance recoil 117 N
- Nozzle diameter 1.0 mm
- Heading speed 0.2 m/s
- Flow rate 17.7 l/min
- tested and approved according to BGR 191
- available at us in sizes 39-48



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

UHP Safety Boots Ultra 12

Technical Specifications

- Boots for radiation protection
- Protection up to a pressure 1200 bar
- Color: black-yellow
- Resistant to animal fats, oils, soda lye, acids
- Antistatic
- EN ISO 20345:2011 SRC 55



Article no.	Description	Size
160379-41	UHP Safety Boots Ultra 12	41
160244-42	UHP Safety Boots Ultra 12	42
160244-43	UHP Safety Boots Ultra 12	43
160244-44	UHP Safety Boots Ultra 12	44
160244-45	UHP Safety Boots Ultra 12	45
160244-46	UHP Safety Boots Ultra 12	46
160244-47	UHP Safety Boots Ultra 12	47

Ultra-High Pressure Blast Protection Gaiters Type HFH

Technical details

- Made of special waterproof synthetic material with fabric lining
- Aluminium sheet that is perfectly tailored to the shape of the foot respectively boot
- 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



Additional information

- conforms to the requirements according to BGR 191 (ZH 1/702) and BGV D 15 (UW/ VBG87)
- CE model certificate number: 53912071/OD
- Recommended according to BGI 5063-1
- According to German patent DE 100 57 301 C1
- Can be worn above safety boots according to EN ISO 20345

Article no.: 150069

Our Product Range

ULTRA-HIGH PRESSURE TECHNOLOGY

- Thermoplastic High-Pressure Hoses
- Rubber High-Pressure Hoses
- Adapters & Connectors
- Waterjet Protection
- Accessories

INDUSTRIAL AND SUCTION HOSES

- Suction and Pressure Hoses
- Tank Truck and Chemical Hoses
- Flat Hoses
 - Air Conveyor System Hoses
 - Fittings

SEWER CLEANING

- Sewer Cleaning Hoses
- Cassette Boom Hoses
- Nozzles
- Sewer Cleaning Accessories

SEWER REHABILITATION

- Resins
- Glass Fiber Material
- Inversion lining systems and equipments
- Rehabilitation Packer
- Pipe and Test Sealing Cushions
- Accessories

PERSONAL PROTECTIVE EQUIPMENT (PPA)

- Protective Clothing
- Workplace Safety
- Barriers/Construction Site Safety
- Respiratory Protection
- Gas Detection/Self-Rescue
- Entry Safety Devices
- Lamps

SERVICE & MAINTENANCE