

THE INNOVATIVE DRILL-EXTINGUISHER

DRILL-X is an innovative, water-driven extinguishing device that combines the steps of drilling, penetration and extinguishing in one application. Thanks to its effectiveness, safety and flexibility, DRILL-X revolutionizes firefighting. The DRILL-X drill-extinguisher was specially developed for fires that are difficult to access and enables firefighting from the outside, eliminating the need for emergency services to enter the fire room in the acute phase.

The extinguishing water already cools the surface during drilling. After drilling, the extinguishing nozzles penetrate into the fire room, whereby the extinguishing water is atomized and fed directly into the fire room. The flow rate, jet angle and extinguishing medium are variable and can be effectively adapted to the respective fire. DRILL-X is powered solely by the extinguishing water. The device is operated in the normal pressure range, which means it can be connected to all standard fire pumps and operated on any fire engine. No conversion or retrofitting work is necessary.

Depending on the fire situation, three different drilling systems can be quickly attached to the DRILL-X. The respective materials can be penetrated in just a few seconds - precisely, efficiently and tailored to the requirements on site.

INCREASED SAFETY

- No need to enter the fire room in the first phase of firefighting
- Reduced contamination by harmful substances
- Firefighting without oxygen supply (Prevention of flue gas ignition)

EFFICIENT FIREFIGHTING

- Massive cooling capacity with low extinguishing water requirement
- Quick and safe access to the fire room
- Significant reduction in damage due to less fire/water damage

TECHNOLOGICAL LEAD

- Fail-safe & maintenance-free extinguishing device
- Vehicle-independent use
- Flow rate, jet angle and extinguishing medium variable



TECHNICAL DATA

DIMENSIONS & WEIGHT

Dimensions	1 500 x 116 x 385 mm
Weight	10,2 kg
Stowage dimension	1 300 mm

PERFORMANCE

Maximum power	1 000 W at 800 l/min
Operating pressure	10 bar
Maximum operating pressure	16 bar

DRILLING

Minimum flow rate	600 l/min
Water quantity	100 - 200 l (per drilling process)
Maximum drilling depth	425 mm
Penetration duration	20 sec (standard cold roof design)

EXTINGUISHING

Main jet	Jet angle from 40° / 60°
Auxiliary jet	Jet angle from 120° - 150°
Flow rate	180 - 800 l/min
Penetration depth	445 mm
Supply medium	Water/foam/CAFS



THE DRILLING SYSTEMS

DRILL-X is equipped with three modular drilling systems to meet the most diverse application scenarios: the universal drilling system, the metal drilling system and the concrete drilling system. All drilling systems can be mounted and changed within a few seconds using the quick-change mechanism.

UNIVERSAL DRILLING SYSTEM TYPE A

The universal drilling system is the all-rounder among the DRILL-X drilling systems. It was specially developed for classic building constructions such as roof trusses, drywalls or insulated facades. With a drilling depth of 425 mm, it reliably penetrates materials such as wood, insulating materials, plasterboard or roof coverings. The extinguishing effect can be initiated in a targeted manner after just 20 seconds.

TECHNICAL DATA

Application areas	Timber construction, insulation material, roofing, plasterboard
Drilling depth	425 mm
Drill bit diameter	56 mm
Performance	20 sec (standard cold roof design)



METAL DRILLING SYSTEM TYPE B

The metal drilling system extends the application range of DRILL-X to the industrial and infrastructural sector. It enables fast and controlled penetration of a wide range of metal materials. These include steel with a tensile strength of up to 1 000 MPa as well as aluminum, copper or brass. With a drilling depth of up to 80 mm, this system is ideal for fires in areas that are protected by metal casings or panels, such as transport containers or aircraft cargo holds.

TECHNICAL DATA

Application areas	Steel up to 1 000 MPa tensile strength, light/non-ferrous metals, sandwich panels, composite materials
Drilling depth	80 mm
Drill bit diameter	56 mm
Performance	10 mm/min (solid steel)



CONCRETE DRILLING SYSTEM TYPE C

The concrete drilling system was developed for particularly resistant materials and solid building constructions. With a drilling depth of up to 425 mm and a feed rate of 20 - 40 mm/min, it reliably penetrates reinforced concrete, brickwork, natural stone or other solid materials. The system thus opens up new possibilities for external, low-damage firefighting in buildings with solid walls or ceilings.

TECHNICAL DATA

Application areas	Reinforced concrete, bricks, stone, masonry
Drilling depth	425 mm
Drill bit diameter	56 mm
Performance	20 - 40 mm/min (Reinforced concrete)

