HAC Hydraulic Abrasive Cutting System

DYNASET HAC Hydraulic Abrasive Cutting System is a hydraulic-powered cold-cutting system. The system is used for cold-cutting applications in various fields of industries, for example, in the rescue sector, the HAC Hydraulic Abrasive Cutting System is used for extinguishing fire safely through walls, doors, and roofs. As a rescue accessory, we also supply an accessory that allows users to spread firefighting foam with the system’s pistol. It can be used for cutting, e.g., metal or concrete, as well as wood.

High pressure water

**HAC HYDRAULIC ABRASIVE CUTTING SYSTEM**

## Key benefits

HAC Hydraulic Abrasive Cutting System allows you to cut material without sparkles.

* The abrasive sand is added to the water stream directly to the pressure line, increasing its kinetic energy
* Cut through metal with 320 bar of pressure
* The lower operating pressure is achieved with a patented valve structure
* Cutting e.g. metal, wood, concrete without fire hazard

## Features

On top of the ability to cut material without sparkles, the HAC Hydraulic Abrasive Cutting System has useful features.

* Producing high-pressure water boosted with abrasive sand
* Wireless pistol’s control
* Two abrasive sand tanks – use the other while filling another
* Abrasive pistol with hose reel
* Hydraulic high-pressure water pump
* Powered by hydraulics
* The lower operating pressure is achieved with a patented valve structure

## Applications

* Extinguish fire safely through walls, doors, and roofs
* Spreading firefighting foam with the system’s pistol
* Cutting metals
* Cutting composite
* Cutting concrete
* Cutting wood

## How it works?

The hydraulic abrasive cutting system utilizes a machine’s, vehicle’s or vessel’s hydraulic system as power source. The combination of high-pressure water and abrasive sand is used for extinguishing fire through walls, doors, and roofs, or it is used for cutting metal, concrete, wood, etc.

1. Hydraulic oil flow is led to system’s hydraulic high-pressure water pump through the pressure line
2. The hydraulic high-pressure water pump converts the hydraulic oil flow and pressure into high-pressure water
3. The hydraulic oil is led back to the vehicle’s hydraulic oil tank through the return line
4. The Abrasive sand is mixed to the pressurized water flow
5. The abrasive sand is added to the water stream directly to the pressure line increasing its kinetic energy
6. The combination of high-pressure water and abrasive sand is used for extinguishing fire through walls, doors, and roofs, or it is used for cutting metal, concrete, wood, etc. by using a water piston.