



DIGGER⁺DTR
DEMINING

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SCRAPER

Secured Clearance of Rubble And In Presence of Explosive Remnants



Scan this QR code
to see the SCRAPER
system in action !

YouTube

 SWISS MADE

YOUR NEW SOLUTION FOR REMOTE-CONTROLLED WORK

WITH HAZARDOUS MATERIALS & IN HIGH-RISK ZONES

OVERVIEW

GUARANTEED SAFETY

The remote control ensures the total safety of your operators.

IMMERSION

Total immersion of the operator and reproduction of the cabin's working environment.

COMPATIBILITY

The system is quick to install and compatible with almost all construction machinery. The control from the cabin remains possible at any time.

LOW COST

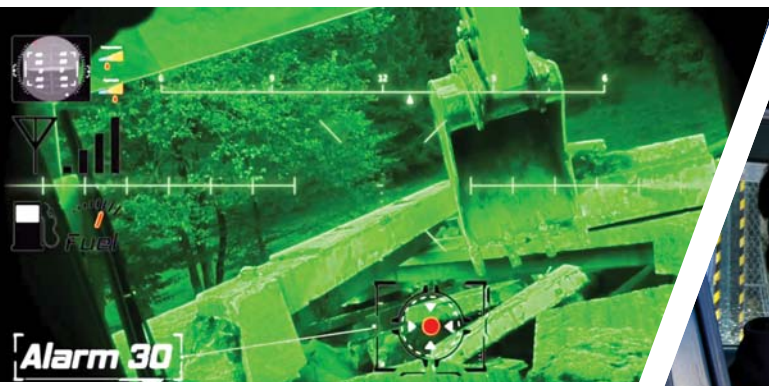
Small investment, fraction of the price of your machine.



DIGGER⁺DTR
DEMINEING

HAZARDOUS MATERIALS & HIGH-RISK SITUATIONS

Wars cause harm even after the end of hostilities. Unexploded Ordnances (UXO) or Improvised Explosive Devices (IED) are hidden under rubble. In the presence of explosive remnants, but also where there is a risk of collapse or contamination by hazardous materials, only distance ensures the total safety of the operator .



A REMOTELY-CONTROLLED MACHINE IS THE ONLY TOTALLY SAFE SOLUTION

The machine can be operated from a safe distance using professional controllers and augmented reality goggles. SCRAPER is a standardized system that can be mounted on almost all construction machinery. It is compatible on both new and second-hand machines.



Range: up to 500 m



Important:

Your machine remains completely usable from the cabin for conventional use.



← The stereoscopic camera in the cabin is connected to augmented reality goggles, allowing the operator to precisely remote control the machine from a safe dedicated fixed or mobile control station.

Our entirely standardized and compact system can be rigged on a large range of construction machinery — regardless of their size. →



SCRAPER DATA SHEET

REMOTE CONTROL STATION



Augmented reality goggles and operator's head tracking sensor



Stereoscopic camera avatar placed in the machine's cabin



Professional controllers to be mounted in the remote control station

TECH SPECS

Operational range	500 m (line of sight)
Hydraulic functions	8 bi-directional functions (16 valves)
Hydraulic pilot pressure range	30 - 50 bar
Direct control of main hydraulic system	possible up to 450 bar
Electro-Hydraulic control curves	Fully customizable and user-friendly

OPTIONS

Geolocation	GPS GPS-RTK (2 cm precision)
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MACHINE

Pilot pressure and/or high pressure control block



OPERATOR INTERFACE

On Screen Display (OSD)	RPM Engine Engine coolant temperature Hydraulic Oil Temperature Fuel level Artificial Horizon
Type of camera	Stereoscopic
Camera resolution	1920x1080 px
Controls [depending of the type of machine]	Joysticks Steering wheel Pedals

DIGGER DTR IS A SWISS-BASED FIRM OFFERING TECHNOLOGICAL AND INNOVATIVE SUPPORT FOR HUMANITARIAN DEMINING AND CIVIL APPLICATIONS.

- **FOUNDED IN 1998**
- **SOLE NON-PROFIT DEMINING MACHINE MANUFACTURER**
- **FIELD EXPERIENCE IN MORE THAN 15 COUNTRIES IN THE HARSHTEST CONDITIONS**
- **RIGOROUS FOLLOW-UP ON PROJECTS WITH TECHNICAL SUPPORT**
- **DEVELOPMENT OF INNOVATIVE SOLUTIONS FOR POST-CONFLICT EXPLOSIVE CLEARANCE**
- **UNIQUE KNOW-HOW AND SWISS QUALITY**
- **CAPACITY BUILDING AND KNOWLEDGE TRANSFER TO LOCAL OPERATORS, GUARANTEEING MAXIMUM INDEPENDANCE**