

D-250

BY DIGGER DTR - A STEP TOWARD THE FUTURE

A STEP TOWARD THE FUTURE



THANKS TO DIGGER DTR'S TECHNOLOGIES



**YOUR REMOTE CONTROLLED
MECHANICAL DEMINING SOLUTION
FOR WORKING IN RISK AREAS**





THE INDISPENSABLE PARTNER FOR ALL YOUR DEMINING OPERATIONS AND WORK IN RISK AREAS

BASED ON MORE THAN 20 YEARS OF EXPERIENCE, DIGGER D-250 IS THE RESULT OF THE DEVELOPMENT OF THREE GENERATIONS OF MACHINES. A ROBUST AND POWERFUL MULTI-PURPOSE PLATFORM, IT HAS BEEN DESIGNED TO MEET YOUR NEEDS, ENSURING THE GREATEST POSSIBLE SAFETY, IN THE MOST CHALLENGING CONDITIONS AND TERRAINS.



REMOTE CONTROLLED

Up to three cameras can be connected to the GPS-RTK, allowing accurate navigating at all times.



FULL FRONT AND SIDE PROTECTION OPTIONAL 360° PROTECTION

The machine is designed to withstand the explosion of anti-personnel and anti-tank mines (up to 8 kg of TNT under its demining tiller). It also offers frontal and lateral protection against most anti-personnel fragmentation mines. The complete protection of hoses and other cables allows the machine to work in places that are difficult to access without being damaged - in densely wooded areas, for example. A 360° protection against shrapnel is available as an option.



EFFICIENT UNDER EXTREME CONDITIONS

The 250 hp of the engine can be used without any limitations even under extreme temperature conditions (-20 à 50 °C). DIGGER D-250 has proven itself in wet regions as well as in arid and dusty environments.



COMPATIBLE WITH YOUR TOOLS

DIGGER D-250 is compatible with many tools, such as those of the Caterpillar range. Its versatility thus offers you an almost unlimited range of applications. It will be the solution that will meet your most stringent requirements.

STABILITY & EFFICIENCY

PERFORMANCE THAT HAS STOOD THE TEST OF TIME



The machines of DIGGER have successfully cleared land in more than 16 countries, under the most extreme conditions.

Two powerful cooling systems allows the uninterrupted operation of DIGGER D-250 at temperatures ranging from -20 to 50 °C.

A triple filter system protects the diesel engine intake from dust. It guarantees optimal operation in arid climates and dusty environments.

Its bodywork, designed to stop shrapnels, offers total protection in dense vegetation. No risk of breaking hydraulic hoses or electrical cables, as these are fully protected in reinforced casings.

DESIGNED TO WITHSTAND EXPLOSIONS

DIGGER D-250 is resistant to anti-personnel mines. It has also successfully passed the anti-tank mine test.



Detonation of the equivalent of 8kg of TNT.
SWEDEC CWA 15044 Certification (2014), Equivalent NATO, STANAG 4569 Level 3 Mine Blast Threat.

9

CONTINUOUSLY FURTHER DEVELOPED
SINCE 1998, D-250 IS RECOGNISED
WORLDWIDE FOR ITS TECHNOLOGICAL
ADVANCES AND ITS RELIABILITY
IN ANY TERRAIN.



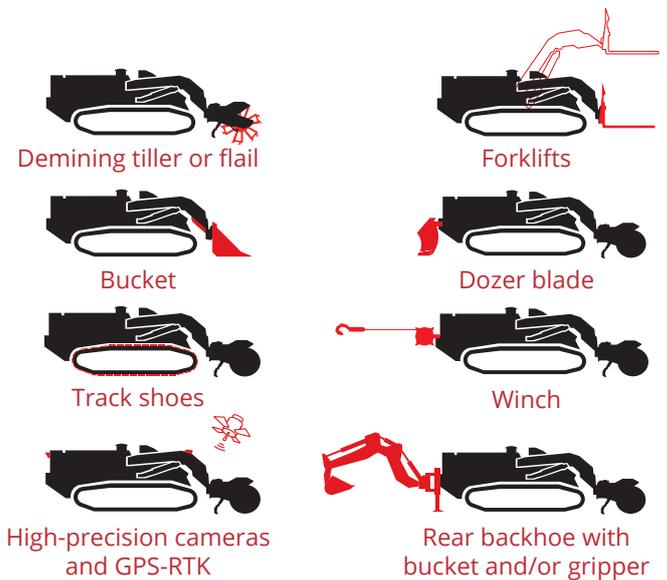
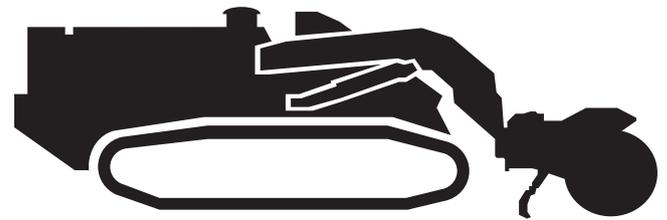
TOOLS & OPTIONS

VERSATILITY AT YOUR SERVICE

Its versatility allows you to deploy a multitude of tools at the front and rear to perform tasks that require power and precision.

It can be equipped with four types of tools to provide a wide range of uses:

- DIGGER DTR tools (demining flail or tiller, etc.)
- Caterpillar tools (backhoes, bucket, etc.)
- Agricultural tools (forest winch, seeder, etc.)
- Tools developed and custom-made by our R&D department to meet your specific requirements.



REMOTE CONTROL, WITHOUT RISK

D250 hp are at your disposal at your fingertips to perform your tasks remotely, in complete safety, even under the most dangerous conditions.



GPS for the highest precision

The "Real Time Kinematic (RTK) GPS" option offers a nominal accuracy of 2 cm. An example? Even obscured by the dust generated by the demining tool, it allows you to reduce overlapping by a factor of 3 to 4 while ensuring full coverage. The associated tool, DOME by DIGGER DTR, generates mapping data specially adapted to humanitarian demining and compatible with the main databases in the field.

FIGURES & PERFORMANCE

**OUTPUT OF THE DEMINING TILLER:
UP TO 1800 M²/HOUR**

**ARMORING: FRONT AND SIDE AGAINST SHRAPNELS,
OPTIONAL 360° PROTECTION**

TRACK PULLING FORCE: 14 T



Three cameras for optimal view

The "Cameras" option allows operators to work at a greater distance. It provides a sufficient safety distance for the operator to remove the personal protective equipment, thus reducing fatigue. At the front, two reinforced cameras are mounted on the machine arms and provide a perfect view of the work area. On the rear side, a third reinforced camera facilitates manoeuvring. In addition to demining, this option can be used for many other applications that require a precise view of the remote work area. The camera feeds are displayed on a screen directly attached to the remote control or on other media on demand.

REMOTE CONTROL OPERATING RANGE: UP TO 1000 M*

** depends on the legislation of the country concerned*

SLOPES: UP TO 35°

**SAFETY: MEETS A PERFORMANCE LEVEL PL D
ACCORDING TO ISO 13849-1:2015**



DATASHEET

WEIGHT & DIMENSIONS

Weight of vehicle Weight with demining tiller	9790 kg 11910 kg
Overall length with tool	5755 mm
Overall length without tool	4550 mm
Overall width of vehicle	1690 mm
Overall width with demining tiller	2320 mm
Working width with demining tiller	1895 mm
Height	2041 mm
Can be transported in a 20' container	YES

ENGINE SPECIFICATIONS

Engine type	John Deere, 6 cylinders
Power Displacement	250 hp 6800 cm ³
Fuel tank capacity	240 l (225 l available)
Fuel range (at average consumption)	8 h
Cooling system	Liquid cooling
Cooling fan flow inversion	Yes, automatic (optional)
Lubrication oil capacity	32 l
Emission standards	Stage IIIa, optional Final Tier 4/Stage V (EPA/EU)
Max. ambient temperature	50 °C

HYDRAULICS

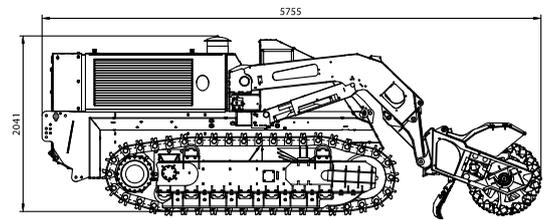
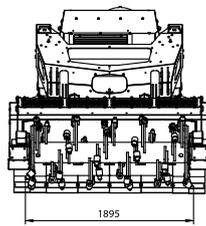
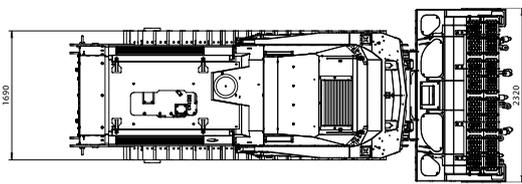
Hydraulic tank capacity	160 L
Brand of pumps and motors	Bosch-Rexroth™

ARMORING

Hull and undercarriage	10 mm Quard™ 450
Tool frame	10-8 mm Quard™ 450
Arms and roof	10-8-4 mm Quard™ 450

REMOTE CONTROL

Maximum operating range	1000 m
Battery life	2 x 6h (replacement battery provided)
Possible power sources	220 V - 110 V - 24 V - 12 V
Display of vehicle parameters	Yes



UNDERCARRIAGE SPECIFICATION

Ground pressure	0.56 kg/cm ²
Ground clearance	0.3 m
Undercarriage type	Oscillating
Max. slope	35°
Max. slant	30°
Max. speed (forward/backward)	6 km/h
Control modes	Variable speed, increments of continuous speed, feed drive
Track pulling force	14 t

FRONT TOOLS

Quick coupling type	Caterpillar
Demining tools (can be used with the same frame)	Tiller and flail
Digging depth	+ 5cm to - 25 cm (optional -30 cm)
Digging depth control	Automatic, skids or sensors (optional)
Displacement	+ 4 m to - 0.5 m
Other tools	Caterpillar bucket - Caterpillar blade Caterpillar forks

REAR TOOLS

Quick coupling type	Agricultural
Tools	Reinforced blade - Winch Backhoe

ELECTRICAL SYSTEM OF VEHICLE

Battery voltage and capacity	24 V / 120 Ah
Monitored and protected variables	Engine and hydraulic oil levels Temperatures: engine, hydraulics, general internal Fuel level
On-board electronics	CAN Bus diagnostics
Plug & Play	Working depth control of the demining tiller
Additional options	Remote camera system, GPS-RTK, reversible rear fan
SAFETY	Meets a level of performance PL d, according to ISO 13849-1 :2015



WHO ARE WE?

Founded in 1998, DIGGER DTR is a subsidiary of the Swiss DIGGER Foundation. Initially it was involved in the construction of radio-controlled, semi-autonomous, demining equipment. These machines have already been used for demining projects in over sixteen countries on four continents – recognised worldwide for their humanitarian impact and effectiveness.

With DIGGER D-250, our team is proud to provide the probably most advanced machine of its category. This multi-purpose platform is designed to meet almost all of the needs of deminers. Whatever the terrain: demining, C-IED, destruction of ammunition stocks. It is also perfectly adapted to meet requirements in the commercial domain in risky situations and the presence of hazardous materials (chemical, radioactive, etc.), for disaster relief, interventions in risk areas, etc.

Designed to meet the most demanding requirements, our machines are marked with the CE symbol and comply with the following standards:

- ISO 13849-1 :2015 (performance level PL d)
- EN 474-1 :2006
- ISO 15817 :2012
- ISO 12100 :2010
- ISO 15817 :2012
- CEM EN ISO 13766-1 :2018

We have designed it to be the safe and effective partner for those who risk their lives every day in the field in the service of their fellow human beings.

Our equipment is produced entirely in our workshops in Switzerland. Our design office ensures both the electronic and hydraulic integration for each new model of machine offered.

Building on the experience of two decades of demining equipment, our engineers and technicians are able to come up with new solutions to respond to the many different situations and individual requirements in the field of civil engineering. Our customer service department provides training adapted to the requirements of the teams on site and support that has already proven successful all over the world.

COPYRIGHT © DIGGER DTR 2022 / The technical specifications depend on the working conditions and environment. DIGGER DTR does not assume any responsibility for any differences between the specifications of this data sheet and the actual performances. Material and specifications are subject to change without notice. Pictures and photographs are not binding.

DIGGER DTR

Rue de Pierre-Pertuis 28 | CH-2710 Tavannes | Switzerland
+41 32 481 27 73 | sales@digger.ch

WWW.DIGGER-DTR.COM