



MECHANICAL

# GCS-100

## Applications

Handheld  
Ground preparation Hazard detonating

## Types

Metal detectors (MD)

## Last update

01/01/1970

## General description

The GCS-100 is a compact and easily deployed platform for effective clearance of Anti-Personnel (AP) mines, disposal of Explosive Remnants of War (ERW) and Improvised Explosive Devices (IEDs), in ultra-rugged, hard-to-access and urban environments – built, tested and operationally certified to international standards.

## Working characteristics

The GCS-100 is a high endurance remote-controlled tracked platform that meets the requirements of the light mine clearance machines designed to render safe explosive hazards and to prepare the ground in accordance with the IMAS 09.50 and CWA 15044:2009 standards. Conformity and suitability of GCS-100 equipped with either Flail or Tiller Attachments as a mechanical ground preparation machine has been independently tested, evaluated, and certified by CROMAC – Centre for Testing, Development and Training (CROMAC-CTDT) in Croatia in accordance with the IMAS 09.50 and CWA 15044:2009 standards. GCS-100 equipped with either Flail or Tiller Attachments detonates or destroys explosive hazards including antipersonnel mines, and mechanically prepares the ground to a depth of up to 200 mm, including vegetation cutting and clearing, removal of tripwires, loosening the soil, and the processing of soil and debris. GCS-100 equipped with M-100 Manipulator Arm is capable of dealing with heavy objects, and has a lifting capacity from 90 kg up to 950 kg. Manipulator arm comes with a BT-100 Bucket Tool for excavation of buried bombs or UXO/IED. The GT-100 Gripper Tool is used for grabbing the bombs/IED/UXO for relocation. Manipulator Arm is also used for dangerous tasks such as remote- controlled manipulation of UXOs or IEDs from cover, route clearance and area preparation. It is also an ideal tool for tasks such as digging trenches and burn-out kilns.

## Dimensional data

|                        |         |
|------------------------|---------|
| Overall length         | 2740 mm |
| Length with attachment | 4100 mm |
| Overall Width          | 1000 mm |
| Overall Hight          | 1400 mm |
| Fits in container      | 2       |

# Factory support data

## Factory support

Comprehensive training package for operation and maintenance of GCS equipment Operator's tool kit is provided with all GCS equipment Tailor made service packages and support programmes for various end users 24/7 Technical Support Desk

# Other

## Additional equipment

GCS-100 Standard and Advanced Camera System, TRL-100 Transport Trailer, TCA-900 Transport Container for Hardware, TCS-900 Transport Container for Spare Parts, WCA-900 Workshop Container and Tools

# Operational data

## Tracks

1

## Ground bearing pressure tracks

0.3 - 0.4 kg/cm<sup>2</sup>

## Hill climbing ability (max gradient degrees)

30 °

## Clearance depth in varying terrain from

15 cm

## Clearance depth in varying terrain to

20 cm

## Control of clearance depth

Automatic

## Greatest remote controlled distance

3000 m

## Mechanical tools / attachments

T-100 Tiller, F-100 Flail, M-100 Manipulator Arm, BT-100 Bucket Tool, GT-100 Gripper Tool, FT-100 Fork Tool, SST-100 Shears Spreader Tool, BGT-100 Bucket Gripper Tool, DB-100 Dozer Blade, FL-100 Fork Lift, COTS attachments for land clearing, mulching, for

# Engine specifications

## Engine type / description

Kubota V2403-M-T-E3B 4-cycle, diesel, liquid cooled, turbocharged engine

## Engine max power

59 hp

## Fuel capacity

45 l

## Fuel consumption

7 l/h

## Cooling system

3-stage cooling system with separate coolers for engine coolant, charge air and hydraulic oil.

## Connectivity

3-point universal mounting interface for attachment and tools, mechanical, hydraulic, electrical interfaces

# Vehicle electrical system

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Battery voltage

12 Volt

Other information

**Images**