

# MTCR

a **GEOBORN** company

Micro Turbine Cabs Robot



Ministerie van Veiligheid en Justitie



**BRANDWEER**  
Nederland

# Performance overview

## General information

Application	Remote controlled unmanned firefighting robot Microturbine powered watermist extinguishing and ventilation Compressed air foam (MicroCAFS) extinguishing, Unifire remote controlled CAFS/ water cannon
Manufacturer	Geoborn bv / MTCR PO BOX 656 NL-3800 AR Amersfoort The Netherlands
Type	GB MT Mk08 01
Serial number	15 04 Mk08 001
Model year	2015
Total weight	approx. 5500 kg
Power supply	Hatz kerosene engine 40 kW, single fuel concept
Camera system	a total of 13+ IP HD Axis modified camera's
Sensors	temp, O <sub>2</sub> , CH <sub>4</sub> , CO, etc.
Robot protection system	4 water mist and CAFS premix circuits

## Bellmouth (2x)

Microturbines	1570 N @ 40.000 rpm
Massflow bellmouth	approx. 12.000 l/s
Massflow microturbine	approx. 2.200 gr/s
Water flow low pressure up to	400 l/min @ 12 bar
Water flow high pressure up to	90 l/min @ 40 bar

## Unifire monitor

CAFS air compressor	50 l/sec @ 11 bar
CAFS dry	360 l/min @ 10 bar
CAFS wet	840 l/min @ 10 bar
Water	1200 l/min @ 10/12 bar

Reach of the Unifire monitor:

CAFS	approx. 40-55 m
Water	approx. 65 m

Reach depending on atmospheric conditions approx. 50 m

## Contents/ endurance

Kerosine	approx. 250 l/ up to 50 minutes
CAFS premix	approx. 200 l/ up to 12 minutes
CAFS continu (concentrate)	approx. 400 l/ up to 60 minutes

## Dimensions

Transport modus:

Length	5300 mm
Height	2450 mm
Width	1700/1850 mm

Working modus:

	minimum	/	maximum
Length	6050 mm		7500 mm
Height	2000 mm		8500 mm
Width	1850 mm		2300 mm

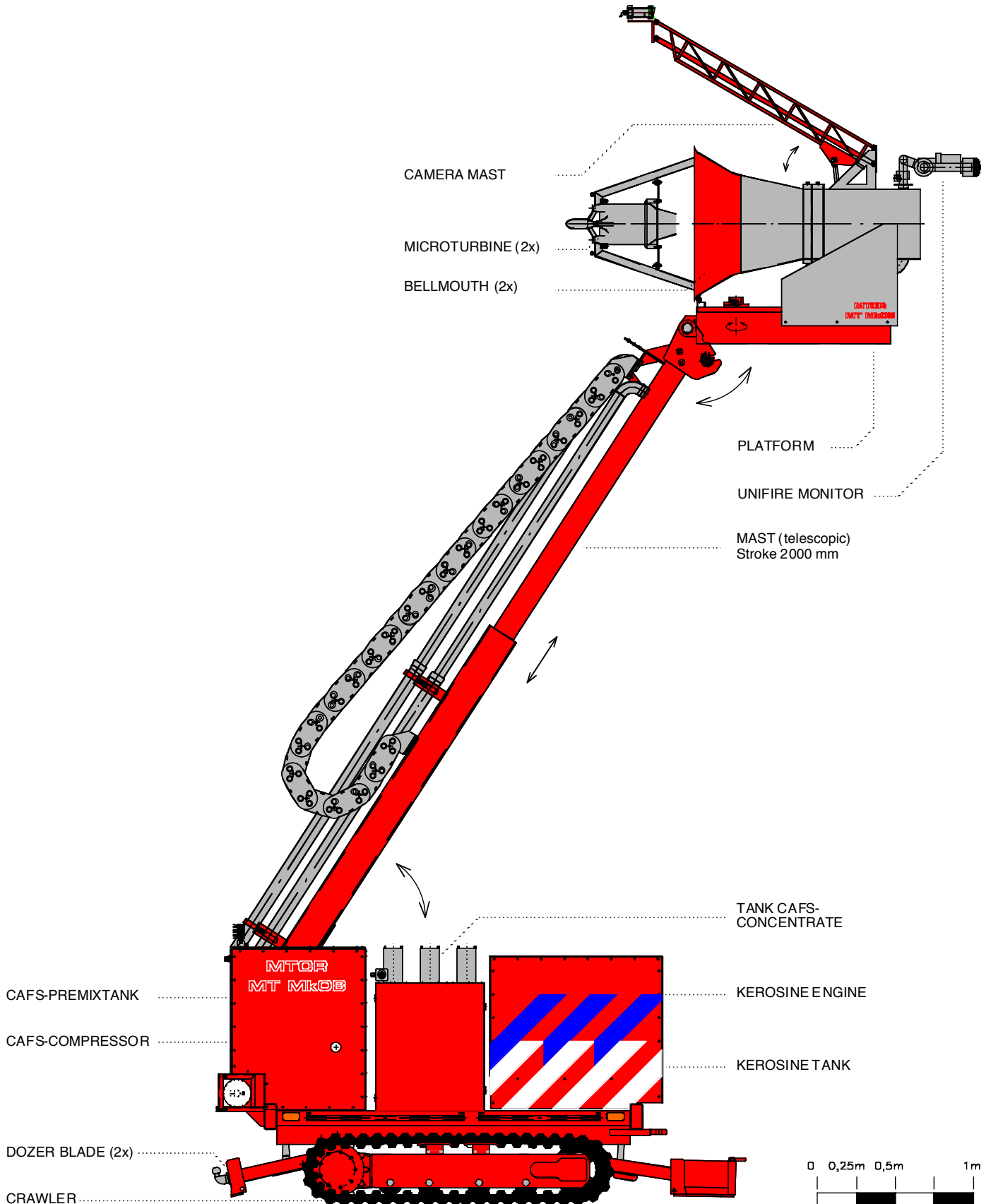
## Articulations

Telescopic mast up/ down	57° / 8°
Platform left/ right	35° / 35°
Platform up/ down	17° / 80°
CAFS monitor left/ right	45° / 45°
CAFS monitor up/ down	90° / 75°
Camera mast up	70°

## Dimensions

Track width	320 mm
Track drive	4750 Nm, dual speed

# Technical description



Geoborn bv/ MTCR  
PO BOX 656  
NL-3800 AR Amersfoort  
The Netherlands  
+31 (0)33 25 35 931  
innovation@mter.nl  
www.mter.nl

SomatFie nv  
Industrielaan 19a  
B-9320 Erembodegem  
Belgium  
+32 (0)53 85 22 22  
innovation@somatfie.be  
www.somatfie.be

Netherlands Fire Service  
RIM Regiegroep Innovatie Moed  
innovatiemoed@brandweernederland.nl  
www.brandweernederland.nl



Arrival at the fire



Possible arrangement at location

