



MINEFIELD BREACHING SYSTEMS

PLOFADDER 160AT MKII

The 160AT anti-tank minefield breaching system, known as the “Plofadder” (explosive adder), was developed to provide fast-moving attack groups with the capability to breach Anti-Tank (AT) and Anti-Personnel (AP) minefields with minimal loss of momentum. The modular design of the Plofadder 160AT MkII allows easy custom integration with a suitable carrier vehicle or trailer.

Once integrated with a carrier vehicle, the system requires no preparation apart from positioning the vehicle approximately 80 meters from the minefield edge and aiming the system in the desired direction. The system is fired with the remote fire control unit mounted on the inside of the carrier vehicle’s cab.

The Plofadder 160AT MkII system consists of a 160m long insensitive line charge which is deployed over a minefield by a rocket before it is detonated. The line charge detonates automatically 20 seconds after complete deployment, and is protected against premature or unintended detonation by a Safety and Arming Device (SAD) at the tail end of the line charge. The safety features incorporated into the systems comply with the relevant military and STANAG specifications, including EMI resistance.

Exercise versions using live rocket motors with inert line charges are also available as well as inert classroom training units.

TECHNICAL DATA

Minimum breach length	160 m
Minimum breach width	9 m
Stand-off	80 m
Accuracy tolerance	Angle of 10°
Dimensions (L x H x W)	2,200 x 1,500 x 1,220 mm
Operational mass	1,400 kg
Explosive mass (NEQ)	560 kg
Operational temperature	-30 to +65°C
Firing modes	Full automatic
Set-up time	<1 min

Subject to improvement and change without prior notice, this document shall not be deemed to form part of any contract.



FIRE CONTROL UNIT

Apart from firing the system, the fire control unit also provides several safety features which includes an interlock test capability, continuity testing and an indication of the inclination to optimize accuracy.



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