



ARTILLERIE INRICHTINGEN
ARMAMENTS BV

AEROVARIS EXTENDED-RANGE GUIDANCE KITS
GUIDED SYSTEMS

AEROVARIS

ER-83

WING-ASSISTED GUIDANCE KIT

Extended-range INS/GPS guidance kit converting compatible 1,000 lb-class bomb bodies into high-precision all-weather air-to-surface weapons.

UP TO 100 KM

< 10 M CEP

ANTI-JAM GPS

DIGITAL INTEGRATION

MIL-STD-1760 compatible

STAND-OFF RANGE

Wing-assisted extended reach



AEROVARIS ER-83 | AIA-PGK-ER83-MK1

PRECISION GUIDANCE KIT

Artillerie Inrichtingen Armaments BV presents AEROVARIS ER-83, a wing-assisted guidance kit designed to upgrade compatible 1,000 lb-class unguided bombs for extended-range, high-precision all-weather engagement.

The onboard control system combines inertial navigation, GPS and a CRPA anti-jam antenna with waypoint tracking, selectable impact angle and a deployable wing assembly.

100 km

FIGHTER RELEASE RANGE

55 km

UAV RELEASE RANGE

CRPA

ANTI-JAM GPS ANTENNA

● Artillerie Inrichtingen Armaments BV - Licensed manufacturing programme in the Netherlands



MISSION CAPABILITY & SPECIFICATION

AEROVARIS ER-83 | GPS / INS EXTENDED-RANGE PRECISION GUIDANCE KIT

KEY CAPABILITIES

- Integrated INS/GPS navigation
- Extended range through wing assistance
- CRPA anti-jam GPS antenna
- High-precision engagement with reduced collateral effects
- All-weather, day and night operation
- Engagement of targets of opportunity
- Waypoint tracking
- Selectable impact angle before release
- MIL-STD-1760 aircraft interface compatibility
- Combat-proven TRL-9 design heritage

TECHNICAL DATA

GUIDANCE / ARCHITECTURE

INS and GPS navigation; CRPA anti-jam antenna; onboard control system; deployable wing assembly; tail control surfaces

FIGHTER

100 km

UAV

55 km

CEP

< 10 m

INTERFACE / COMPATIBILITY

MIL-STD-1760 aircraft interface; compatible 1,000 lb-class bomb bodies

PHYSICAL

585 kg including bomb; length 3,230 mm; maximum diameter 700 mm

MISSION PROFILE

Wing-assisted INS/GPS navigation for extended-range, high-precision all-weather engagement.

AIR-LAUNCHED

INS / GPS NAV.

WING-ASSISTED

ANTI-JAM GPS

ALL-WEATHER

DAY / NIGHT

WAYPOINT TRACKING

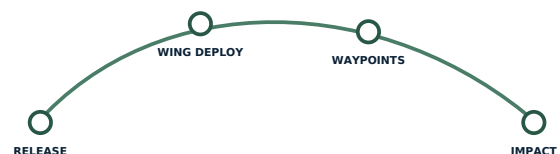
SELECTABLE IMPACT

KIT ARCHITECTURE & INTEGRATION

AEROVARIS ER-83 converts compatible 1,000 lb-class unguided bomb bodies through an integrated guidance and wing assembly. INS/GPS navigation, a CRPA anti-jam antenna and waypoint tracking support autonomous extended-range engagement, while MIL-STD-1760 provides the aircraft interface. Integration remains subject to mechanical and electrical compatibility, carriage, release-clearance and platform qualification.



1,000 LB-CLASS WING-ASSISTED CONFIGURATION



EXTENDED-RANGE GUIDANCE PROFILE

Maximum range: 100 km (fighter) and 55 km (UAV). Accuracy: CEP below 10 m.

Specifications subject to change. Published tolerances: $\pm 10\%$.