

# Air Defense

ECBS / Cargo Hook 4T

**AS23-14**



/ Design to cost

/ REACH Compliant

/ Limited Maintenance

/ Control Unit & Weight System  
Measurement included



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# AS23-14

## NH90 Enhanced Cargo Hook System



### TECHNOLOGY

**Release control** : Electrical, hydraulic system and manual

**Relocking** : Automatic

**Keeper** : Mobile with safe lock

**Weight measurement** : Included

### DIMENSIONS & WEIGHT

**Minimum release load** : 5kg (11 lb)

**Nominal load** : 4000kg (8818.5 lb)

**Ultimate load** : 15000kg (33069.3 lb)

**Weight** : 22kg (48.5 lb)

### POWER

**Power supply** : 18 to 32 V DC

**Max consumption** : 10 A with 28 V

### LIFE CYCLE

**Storage** : 10 years in a waterproof environment

**Overhaul** : Every 5 years

**Warranty** : 3 years for a new product, 18 months after repair or overhaul

## APPLICATION

The NH90 is a European military and maneuver helicopter, providing tactical transport of personnel and equipment and supplied by AIRBUS Helicopters Deutschland only.

Thanks to the ENHANCED CARGO HOOK SYSTEM (ECHS), which is installed in the cabin's sub-floor structure, it can carry heavy loads (up to 4 tons) over long distances.

## PRODUCT

The cargo hook for the NH90 helicopter is equipped with a release control allowing electric, hydraulic system and manual release.

ENHANCED CARGO HOOK SYSTEM carries external sling loads between 5 and 4000 kg.

Cargo Hook Control Unit (CHCU) calculates the number of cycles for maintenance, identifies defects and enables communication with the pilot.

## FUNCTIONS

The functions of the ENHANCED CARGO HOOK SYSTEM (ECHS) are :

- To carry the external sling load
- To measure the weight of the external load
- To release the external load with different release mode

The ECHS is equipped of :

- Cargo Hook Pre Assy (CHPA : Primary Cargo Hook)
- Extending retracting system (side storage support)
- Emergency Mechanical Release (Emergency Release Handle)
- Cargo Hook Control Unit (Black box for CHPA)
- MCU grip (release handle for the crew)

