CARRYING YOUR MISSION

The Management Company

ACMA GmbH

Christa-McAuliffe-Str. 1,
85521 Ottobrunn, Germany
+49 89 3156 729–00
info@acma.aero

ACMA is a subsidiary of

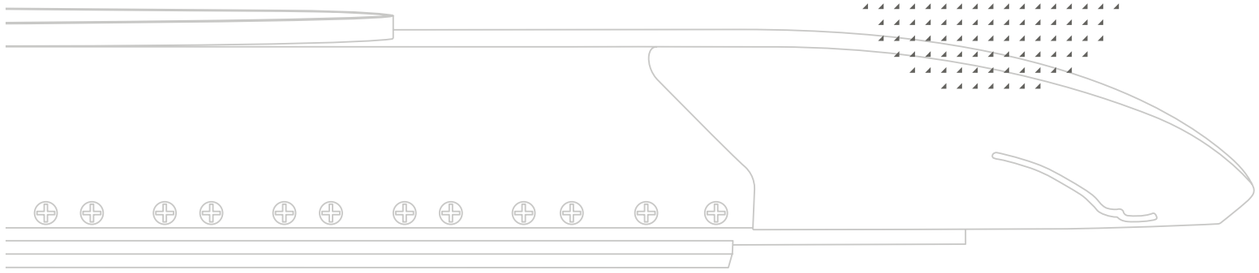
AEREA AIRBUS

Cover photo: Jamie Hunter

Timeline

Finalization of development and qualification of Multi-Function Rail Launcher and Tank Ejecting Unit

1997



Delivery of the 1000th MFRL by ACMA

2015

1989

ACMA has been founded by MBB, AEREA and MLA to develop, integrate and provide Manufacturing and In Service Support for Typhoon Role Equipment

2002

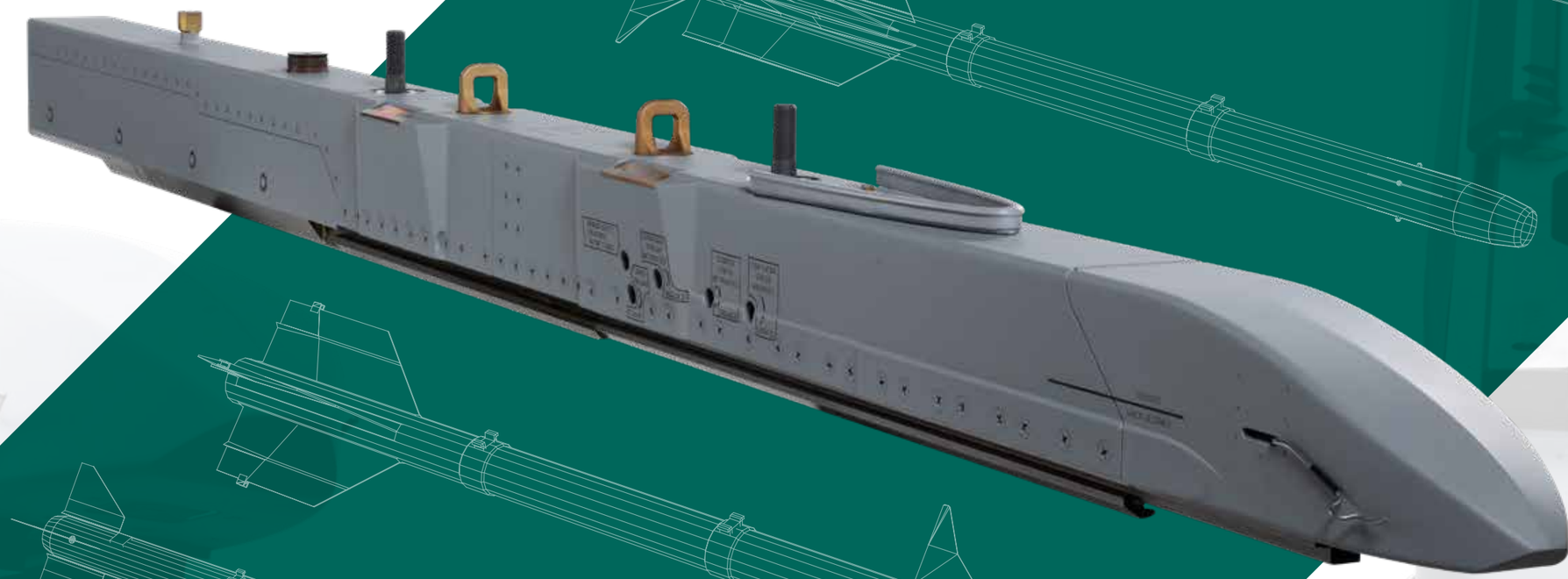
Start of MFRL and TEU Production for Typhoon Tranche 1

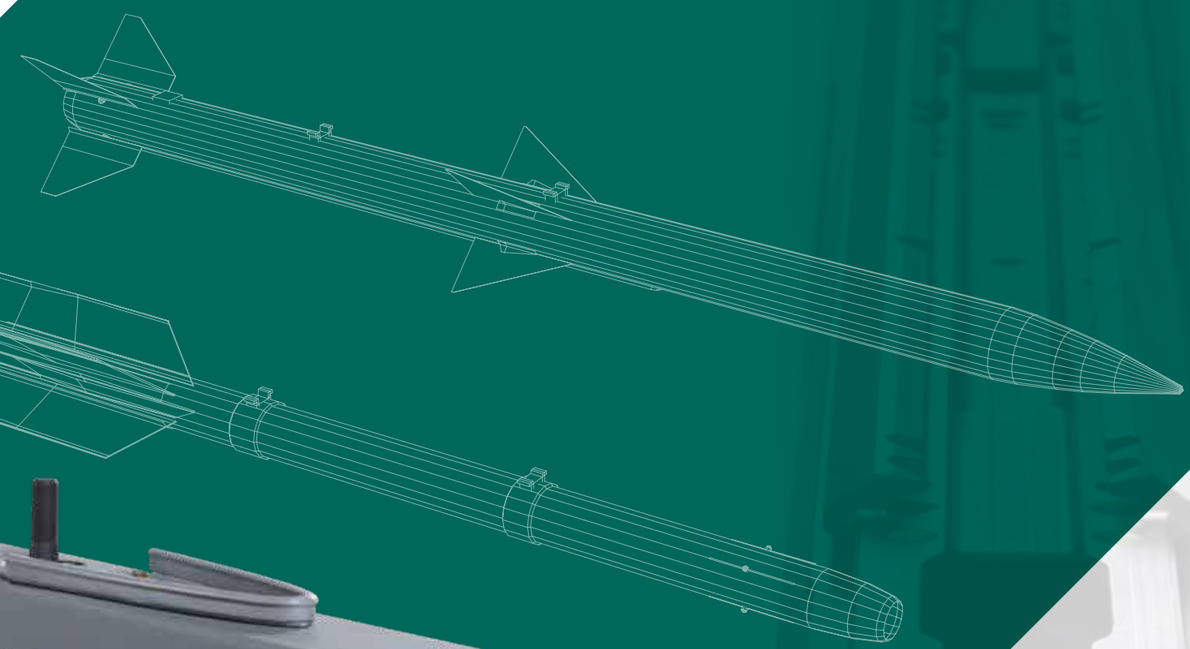
2019

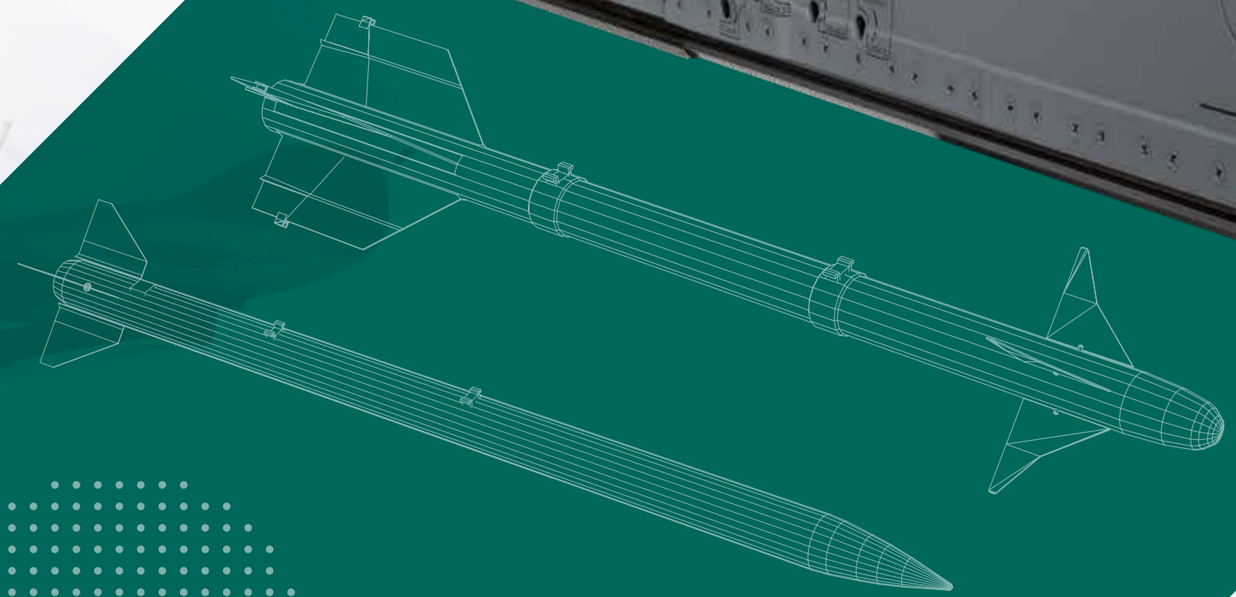
Preparing and Developing Armament Carriage and Release Equipment for the Next Generation Weapon System

Multi-Function Rail Launcher (MFRL)

The Multi-Function Rail Launcher (MFRL) is part of the Armament Carriage and Installation System (ACIS) of the Eurofighter. The MFRL is designed to carry and launch the missiles throughout all flight attitudes and environmental conditions. AIM9-L, ASRAAM, AMRAAM and IRIS-T in analogue mode can be released from the MFRL. Therefore, it is the only rail system worldwide supporting four different kinds of missiles. The MFRL consists primary of an Electronic Unit to handle all electrical signals between the aircraft and the missiles, the HiPPAG to provide the necessary cooling air for optical missiles (AIM9-L, IRIS-T) and the FWD-Detent Unit which task is to restrain or release the missile if the trigger sequence is correct.







Tank Ejecting Unit (TEU)

The Tank Ejecting Unit (TEU) is a subassembly of the Supersonic Fuel Tank (SFT) and hard mounted into the pylon structure of this tank.

The function of the TEU is to carry a fuel tank with a capacity of 1000 ltr and to attach this tank to the relevant stations of the EFA aircraft.

A pyrotechnical jettison system is integrated into the TEU to allow safe ejection of the tank in case of emergency.

The main components of the TEU are

- robust structure to attach the fuel tank to the TEU
- robust spigot system with integrated jettison device to attach the tank to the aircraft
- kinematic mechanism to handle “safe and armed” condition of the jettison system
- breech housing to carry the two cartridges of the pyrotechnical jettison system
- electrical system (isolation unit and harness) to communicate with the aircraft

Highlight of the product:

- single point attachement
- integrated jettison system
- kinematic mechanism for “easy bounding” on ground
- integrated electrical system to communicate with the aircraft

Spigot system as mechanical attachment to the aircraft with integrated jettison function.

Main structure body with mechanical interface to the fuel tank carrying the following components:

- kinematic mechanism
- pyrotechnical jettison system
- electrical system

ACMA – Carrying your mission since 1989

ACMA was founded 35 years ago to develop and manage vital role equipment for the Eurofighter Typhoon.

With unmatched expertise in Armament Carriage and Release Equipment, the international specialists at ACMA develop complex parts, provide them just in time, giving state-of-the-art support and services with industry leading turnaround times. Real integrated Product Lifecycle Management. Today with an expanded scope of activities.

The fundamental principle: advanced collaboration, through elaborate communication, as an active contributing medium between suppliers and clients, being a strategic system consultant. Always delivering to market needs.

ACMA is now ready for future armament carrying systems and role equipment.

Your Assignment – Our Duty

Editorial

We as ACMA, with our current experience of managing the role equipment for EF Typhoon and based on the know-how and skills of our partners and shareholders, are currently preparing ourselves to provide next generation role equipment for next generation weapon systems.

We are ready to bring in our share, our expertise and our 35 years of experience to future defence projects. We are developing fully integrated, highly complex yet easy exchangeable sub-systems through which the overall performance of future weapon systems will be optimized – enabling faster and better weapon deployment while maintaining system capabilities.

Let us carry your mission.

Let us carry your mission.