

ACS

Air Combat System



The complete Gentex ACS delivers optimum combat protection and capability

Paramount Protection and Functionality for the Modern Combat Pilot

The Gentex Aircrew Combat System (ACS) was designed for the Eurofighter Aircraft (EFA) to protect pilots in the agile airframe during aircrew combat maneuvers in high-G environments. The exceptional low-profile design offers superior air combat functionality when combined with the Gentex EFA/ACS oxygen mask and inflatable bladder system, which provides Pressure Breathing for G (PBG) capability for extended high performance aircraft maneuvers, while reducing the probability of G-induced Loss of Consciousness (GLOC). True system-level integration of dual locking visors, mask bayonet receivers, and oxygen supply hoses make the ACS one of the most stable, high performance, head protection systems on the market today.

KEY FEATURES

Ultra Lightweight Construction

The strong protective shell is built with advanced composite materials to reduce head borne weight for extended use, while an advanced integrated design reduces bulk and increases ejection safety.

Integration for Increased Stability

Lightweight integrated bayonets secure the oxygen mask to the helmet and supply the helmet bladder with pressure from the oxygen breathing hose via the bayonet probe for added stability during critical stages of flight. This allows the helmet bladder to inflate during high-G maneuvers. Separate inhalation and exhalation valves enable low-breathing resistance while a special reflective edge provides optimum facial sealing.

Mission Configurability

The ACS helmet can be fitted with laser protective visors and various communications and hearing protection devices to maximize pilot performance and safety.

Maximum Safety and Protection

The helmet system's locking dual visors (clear and dark) are certified safe to eject at up to 600 knots indicated airspeed. The system is configured with an inflatable bladder system to stabilize the helmet during high-G operations, +9/-3 G.

Exceptional Comfort and Support

A unique integrated chin and nape strap system and custom fit liner provides soft and comfortable support to ensure stability throughout all phases of flight.

Assigned NSN's			
	Part Number	Size	NSN
MASKS	G010-1345-01	Small/Narrow	1660-01-560-5825
	G010-1345-02	Medium/Narrow	1660-01-560-5833
	G010-1345-03	Medium/Wide	1660-01-560-5840
	G010-1345-04	Large/Wide	1660-01-560-5844
HELMETS	01D11278-10	Medium	8475-01-559-5960
	01D11278-11	Large	8475-01-549-2860
	01D11278-12	X-Large	8475-01-549-2861

Contact Us

Gentex is committed to designing advanced performance capabilities for worldwide aircrew personnel. For more information on the Air Combat System, contact Gentex's authorized distributor, Transaero at info@transaeroinc.com or through www.transaeroinc.com. For information on how to customize a helmet solution for your particular airframe, contact Gentex at sales@gentexcorp.com or through www.gentexcorp.com.