

COMMON AIRCREW HELMET

The use of specific Protective Equipment and Flying Clothing by a Fighter Pilot is mission oriented and the importance of providing light weight solutions to enhance long endurance missions is widely acknowledged. Integrated Common Helmet is one of the flying clothing products which was undertaken under Common Helmet-Common mask to meet specific requirements of the Users' operating Fighter Aircrafts and Helicopters. Helmet as a head gear is essentially a life saving device and hence the item has to be retained around wearer's head when subjected to the effects of air friction during the process of ejection. Thus, the retention of the Helmet-Mask is of paramount importance to ensure the safety and survival of the Pilot.

DEBEL has designed and developed state of art integrated Externally retractable Polycarbonate Visor based Aircrew Helmet for MiG 21, HAWK, Kiran-Jaguar Aircraft and Helicopter Series (Cheeta, Cheetal, Chetak, ALH and Mi-17 Series) and has met various MiL and Def. standards including the wind blast test cleared by RCMA(A/C) for 540 KEAS. The item has undergone extensive User trials, accepted by Users for introduction into Service and airworthiness certificate has been accorded by RCMA (A/C) and RCMA (Hptrs).

Salient Features

- a. Designed for inter convertibility between the Euro and MiG series
- b. Impact Attenuation and Penetration Resistance Complies Def Stan 05-102 by using high performance fabrics and Epoxy Resin.
- c. Withstood wind blast Test at 540 KEAS as per MIL-V-29591/1 (AS)
- d. Optical and Ballistic Grade PC Visors for protection of eyes and face from Wind Blast, sun Glare, UV light, Bird Hit, etc.
- e. Noise attenuation covering low to high frequency
- f. Effective mechanisms to Anchor Pressure Breathing Oxygen Mask with flexibility in adjustments as per individual's requirement.
- g. Provision to Mount NVG on the outer surface of the shell to provide situational awareness to the pilot (for Helicopters)

- h. Visor movements/ Selection of visor for day and night sorties
- i. Helmet available in 5 sizes
- j. Helicopter Helmets have Boom Microphone with a change over switch for swapping between Mask Mic and Boom Mic
- k. Successfully passed the Ejection seat test



Fig 1: Common Aircrew Helmet for Aircrafts and Helicopters