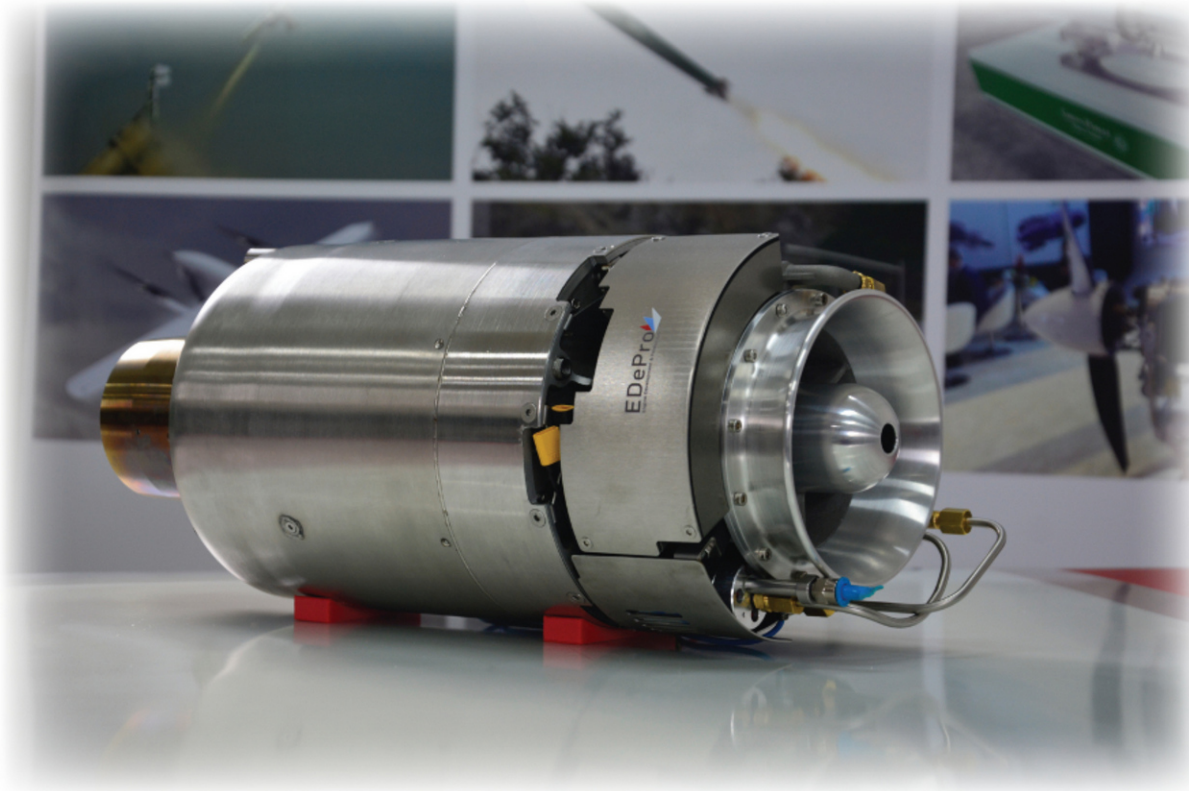


# TJE-45

## TURBO JET ENGINE

TJE-45 CONSISTS OF RADIAL COMPRESSOR,  
REVERSE FLOW ANNULAR COMBUSTION CHAMBER  
AND RADIAL TURBINE.  
ENGINE MAXIMUM TRUST IS  
**45daN AT RPM OF 83,500**



**EDePro**   
Engine Development & Production

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TURBO JET ENGINE TJE-45

# MEET THE TJE-45



## TURBO JET ENGINE

TJE-45 consists of radial compressor, reverse flow annular combustion chamber and radial turbine.

Engine maximum thrust is 45daN at rpm of 83,500

 MAX THRUST AT SEA LEVEL 45daN

 RPM 83,500

 MAXIMUM DIAMETER 168mm

## TECHNICAL SPECIFICATION

MAXIMUM THRUST AT SEA LEVEL 45daN

SPEC. FUEL CONSUMPTION AT SEA LEVEL (INC. BEARING LUBRICATION) 1.63kg/daN.hr

STARTING AND IGNITION SYSTEM - FOR GROUND START PYRO-STARTER OR AIR STARTER,  
FOR FLIGHT START PYRO-STARTER

IGNITION SYSTEM - FOR GROUND START ELECTRIC IGNITER,  
FOR FLIGHT START ELECTRIC IGNITER OR PYRO-IGNITER

NUMBER OF STARTS 30

MAXIMUM DIAMETER 168mm

LENGTH (FROM INTAKE TO NOZZLE) 411mm

DRY WEIGHT 6kg

FUEL JET A1 (5% OF TURBO OIL)

MAXIMUM START ALTITUDE 5,000m AT Mach  $\geq 0.4$

MAXIMUM OPERATING ALTITUDE 10,000m

MAXIMUM MACH NUMBER 0.9

AIR FLOW RATE AT 100%RPM 0.75kg/s

OPERATION TEMPERATURE -40°C/+50°C

GENERATOR POWER 300W, 28VDC

LUBRICATION SYSTEM AIR-KEROSENE MIST SPILL OUT SYSTEM

CONTROL SYSTEM DIGITAL ECU

TOTAL LIFE TIME 30h

