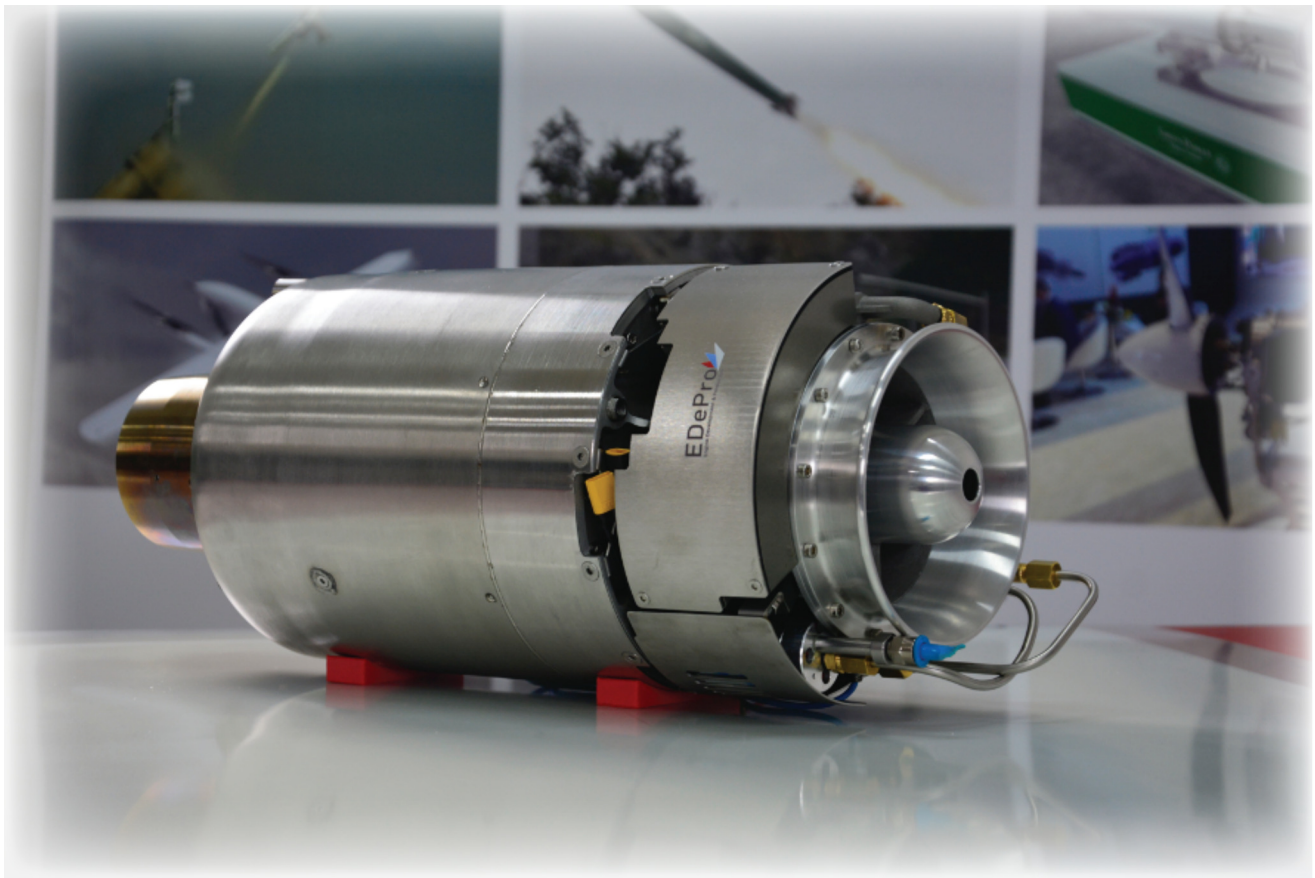


# TURBO JET ENGINE TJE-45



**45daN**  
maximum thrust

## MAIN FEATURES

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

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



## TEHNIICAL SPECIFICATION

- Max thrust at sea level - 45daN
- Specific fuel consumption at sea level (including 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 - 0.75 kg/s
- Operation temperature - -40°C - +50°C
- Generator power - 300W, 28VDC
- Lubrication system - air-kerosene mist spill out system
- Control system - digital ECU
- Total lifetime - 30h