



# TJE-45

*Compact, low-cost, high performance jet engine*

Focused on the low-cost applications of expendable turbojets, EDePro modified its previously designed TSE-200 turboshaft engine in order to develop the small, high performing and dependable TJE-45 jet engine. The engine's robust structure makes it operable even in harsh environments. Its compact design consists of a radial compressor, a radial turbine and an annular reverse-flow combustor with airblast atomizers. Due to its pyrostarter for in-flight starting, its pneumatic starter for ground starting, along with its easy windmill start, the TJE-45 is among the most reliable jet engines for modern military applications.

## MAIN FEATURES

- » fuel jet A1
- » compact robust design
- » total lifespan  $\geq 30$  h
- » number of starts  $\geq 50$

## TECHNICAL SPECIFICATIONS

Parameters	Metric
Max. thrust	43 daN
Specific fuel consumption	1.63 kg/daN/h
Electric generator	150 W at 27-29 V DC
Max. EGT	830 °C
Control system	ECU

Dimensions and mass	Metric
Max. diameter	168 mm
Length	411 mm
Dry weight	6 kg

Envelope	Metric
Max. operating altitude	10 000 m
Max. starting altitude	5 000 m
Max. airflow rate	0.75 kg/s
Operating temperature	-40/+50 °C
Max. Mach number	0.9



KEROSENE  
LUBRICATION



PYROSTARTER



PNEUMATIC  
STARTER



SPARK  
PLUG

