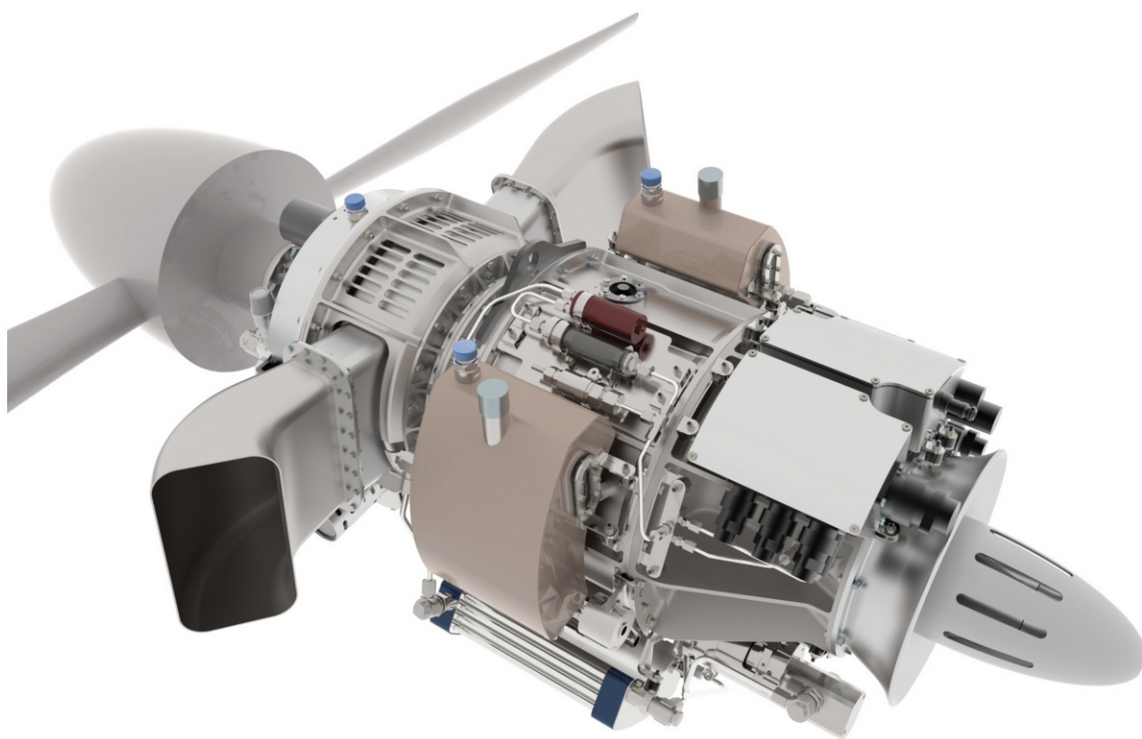


TPE-200

TURBO PROP ENGINE

TPE-200 IS DESIGNED BASED ON EXISTING
TURBOSHAFT ENGINE
TPE-200 WHICH DRIVES PROPELLER
THROUGH REDUCTION GEARBOX



200 kW

TAKEOFF POWER

EDePro 
Engine Development & Production

EDePro Contact Details - Sales and Business Development - 33 Kralja Milutina Street, 11000 Belgrade/SRB
ph: +381 11 787 1380 | fax: +381 11 787 1384 | e-mail: office@edepro.com | www.edepro.com

TURBO PROP ENGINE TPE-200

MEET THE TPE-200



TURBO PROP ENGINE

TPE-200 is a turbo prop engine designed for 200 kW of power. Its configuration is based on back-to-back radial compressor and turbine gas generator and single stage axial power turbine connected to gearbox. Thw main technologies used are investment casting, laser welding and CNC machining.

MAIN FEATURES

RADIAL COMPRESSOR

COMPRESSOR PRESSURE RATIO 6, TIP SPEED 580m/s

ANNULAR COMBUSTION CHAMBER WITH 12 AIRBLAST ATOMIZERS

SINGLE STAGE RADIAL TURBINE

SINGLE STAGE AXIAL POWER TURBINE

MAXIMUM GAS-GENERATOR rpm 62,000

POWER TURBINE rpm 40,000

GEAR BOX OUTPUT SHAFT SPEED rpm 2,500

MAXIMUM TURBINE INLET TEMPERATURE 1,300K

TECHNICAL SPECIFICATION

MAXIMUM POWER AT SEA LEVEL 195kW

SPECIFIC FUEL CONSUMPTION AT SEA LEVEL 0.46kg/kW.hr

STARTING AND IGNITION SYSTEM AIR STARTER AND ELECTRIC IGNITER

MAXIMUM DIMENSIONS (WIDTH/DEPTH) 860/530mm

LENGHT 1,290mm

WEIGHT WITHOUT PROPELLER 70kg

MAXIMUM START ALTITUDE 5,000m

MAXIMUM OPERATION ALTITUDE 7,000m

AIR FLOW RATE AT 100%rpm 1.25kg/s

OPERATION TEMPERATURE -40°C / +50°C

FUEL JET A1 (5% OF TURBO OIL)

GENERATOR POWER 3kW, 27-29V

CONTROL SYSTEM DIGITAL ECU

LUBRICATION SYSTEM FOR GAS GENERATOR- AIR- KEROSENE MIST SPILL OUT SYSTEM

LUBRICATION SYSTEM FOR POWER TURBINE AND GEARBOX CLOSED OIL SYSTEM

TOTAL LIFETIME 500h

