

# Turbojet engine TJ 100A



 **PBS** AVIATION SYSTEMS  
**VELKA BITEŠ a.s.**

The turbojet engine TJ 100A is improved modification of TJ 100 engine designed for UAV, UCAV, experimental aircraft and motorized gliders.

## MAIN FEATURES:

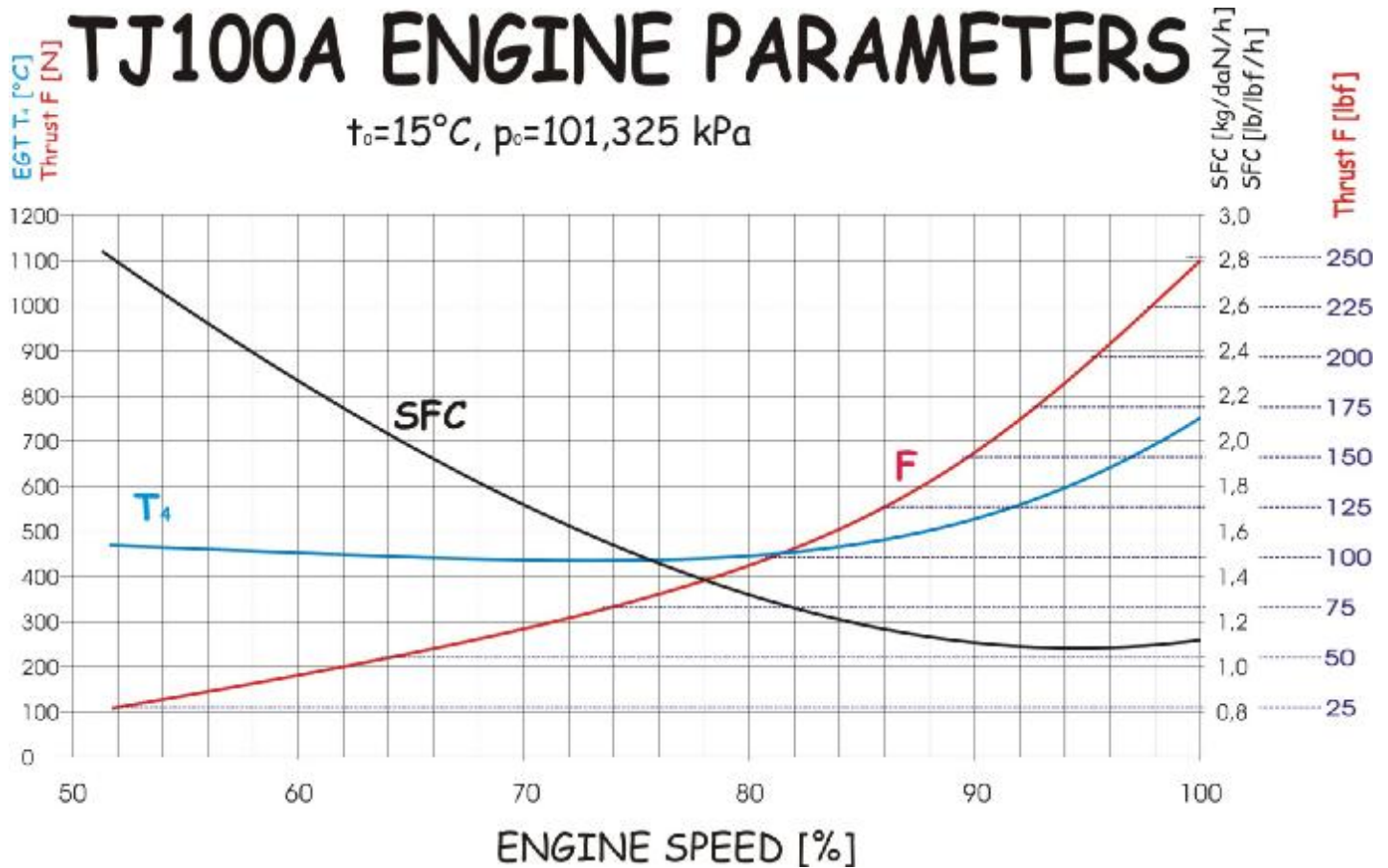
Max. thrust	1100 N	247 lbf	
Min. specific fuel consumption	1,09 kg/daN/h	1,09 lb/lbf/h	
Electrical power output (28 V)		750 W	
Max. diameter	272 mm	10,7 in	
Length	625 mm	24,6 in	
Dry weight (with accessories)	20,6 kg	45,4 lb	
Flight envelope	- altitude	0 to 8 000 m	0 to 26 000 ft
	- speed		< Mach 0,8
Start envelope	- altitude	0 to 4 000 m	0 to 13 000 ft
	- speed		< Mach 0,4
	- temperature	-30 to +50 °C	-22 to 122 °F
Fuel		JET-A1, JP5, JP8	
Oil		3 cSt or 5 cSt	

## COMPLETATION:

Standard: TJ100 including Startergenerator, Fuel-oil System, Control System, Cables, Ignition Unit  
Optional: Fuel Stop Valve, Fuel Filter 50 µm, Fairing, Monitoring Software, Converter CAN-RS232

# TJ100A ENGINE PARAMETERS

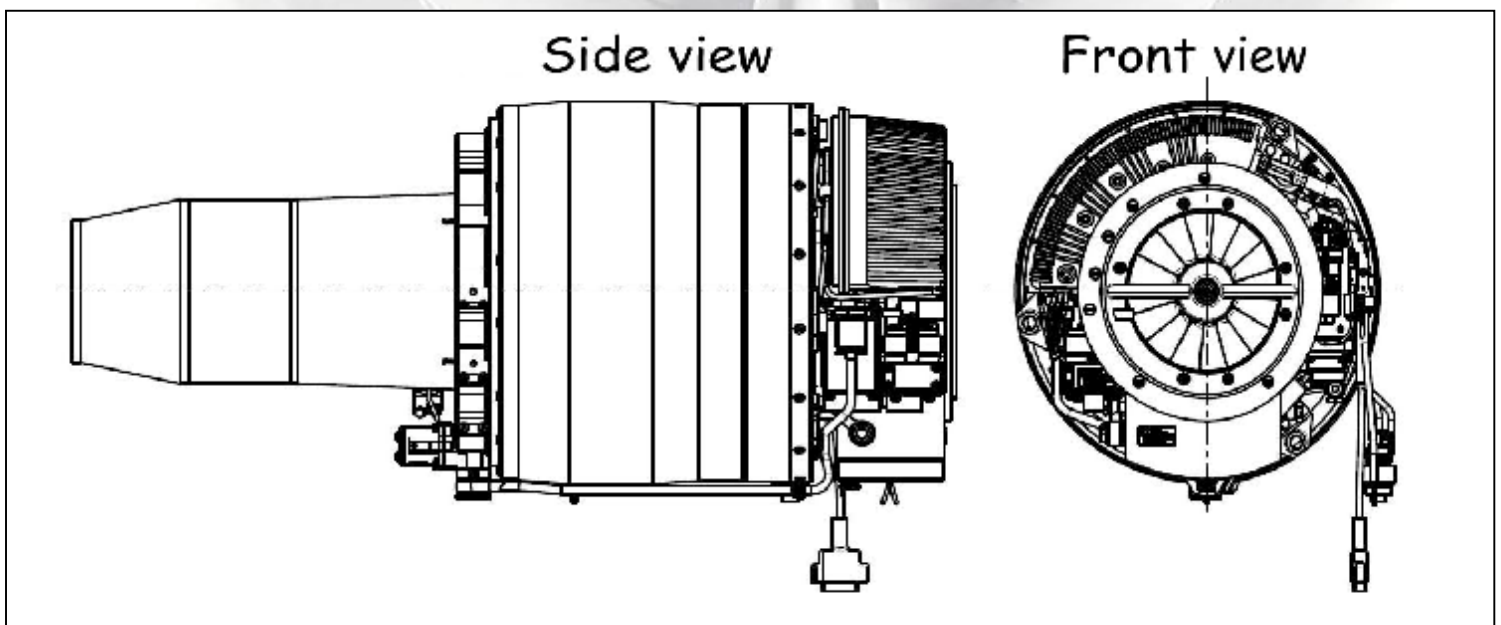
$t_0=15^\circ\text{C}$ ,  $p_0=101,325\text{ kPa}$



The engine is characterized by compact design, excellent thrust/weight ratio and low fuel consumption at its power category.

The conception of this engine is classical - with radial compressor and annular combustion chamber, axial turbine and fixed output nozzle.

Integrated starter-generator is enabling the reliable starting by battery 24V, electricity supply to board net and engine cooling after stop. Digital control box assure the engine control and diagnostics.



PBS Velká Bíteš, a.s. - Aircraft Technique Division

Vlkovská 279, 595 12 Velká Bíteš, Czech Republic [Http://www.pbsvb.cz](http://www.pbsvb.cz), e-mail: [sales@pbsvb.cz](mailto:sales@pbsvb.cz)

Tel: +420 566 822 304 Fax: +420 566 822 372