

TURBOJET ENGINE

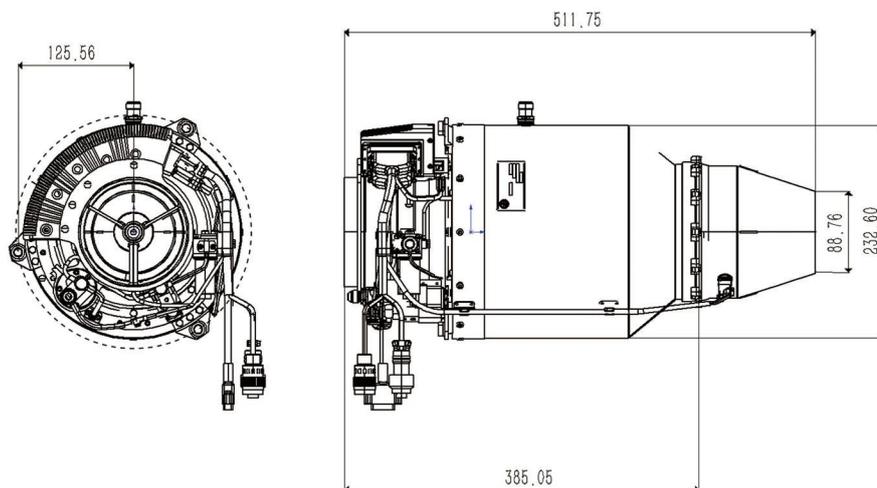
■ BPS TJ80-120



■ PRODUCT INTRODUCTION

BPS TJ80-120 is a compact turbojet engine that has been designed for unmanned aerial systems. This considerably modified engine builds on its predecessor BPS TJ80-90 with all its features and improved key attributes.

BPS TJ80-120 offers the best thrust to diameter ratio in its category. The engine has more than 30% higher thrust than the original BPS TJ80-90 and the diameter (9,25 in) remains the same. The weight of the engine is only 28.21 lb. The possibilities of ground and in-flight windmill start and restart remain. The windmill starting option offers to start the engine under 7 seconds.



■ MAIN FEATURES

- ◆ Compact design
- ◆ Excellent thrust/weight ratio
- ◆ Lubrication with fuel and oil mixture
- ◆ Electric start, possibility of in-flight restart
- ◆ Quick windmill start under 7 seconds
- ◆ Built-in BLDC starter-generator including control unit (ECU) and inverter

Engine Performance Parameters

Performance Parameter	Value / Content
Thrust: take-off(max. 5min.)	269.7 lbf
Electric power output	2,250 W
Specific fuel consumption at max. thrust	≤ 1.245 lb/lbf/hr
Outside diameter	9.25 in
Engine length	from 20.24 to 25.04 in
Engine weight	28.21 lb
Max. operating altitude	32,808 ft
Max. starting altitude	19,685 ft
Flight speed range	0 to 0.9 M
Speed range for startup	0 to 0.5 M

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