DHEYA ENGINEERING TECHNOLOGIES

DET 200

200 N-Class Compact Micro Turbojet

A high-performance compact turbojet engine purpose-built for autonomous aerial vehicle (AAV) propulsion. Delivering 200 N of maximum thrust from a 1.8 kg package, it combines a thermally efficient RQL-optimised combustor with CANBUS-enabled digital diagnostics — an ideal powerplant for next-generation compact AAV platforms.

Technical Specifications

PARAMETER	VALUE	UNIT
Engine Type	Single Spool Micro Turbojet	
Maximum Thrust	200	N
Idle Thrust	7	N
Maximum Speed	118,000	RPM
Idle Speed	38,000	RPM
Pressure Ratio	3.6	—
Air Flow Rate	0.38	kg/s
Thrust-Specific Fuel Consumption (TSFC)	< 0.161	kg/Nhr
Maximum Exhaust Gas Temperature	< 750	°C
Engine Operating Temperature Range	−20 to +55	°C
Fuel Type	Jet A1 / Diesel	
Fuel Consumption — Full Load	675	mL/min
Fuel Consumption — Idle	100	mL/min
Engine Diameter	112	mm
Engine Length	273	mm
Total Engine Weight	1.8	kg
Startup Time to Idle	< 35	s
Maximum Operating Altitude	5,000	m
Operating Mach Number	0 – 0.6	—
Engine Service Interval	25	h
Thrust Control Interface	PWM / CANBUS	
Starter	BLDC starter motor with Bendix drive	

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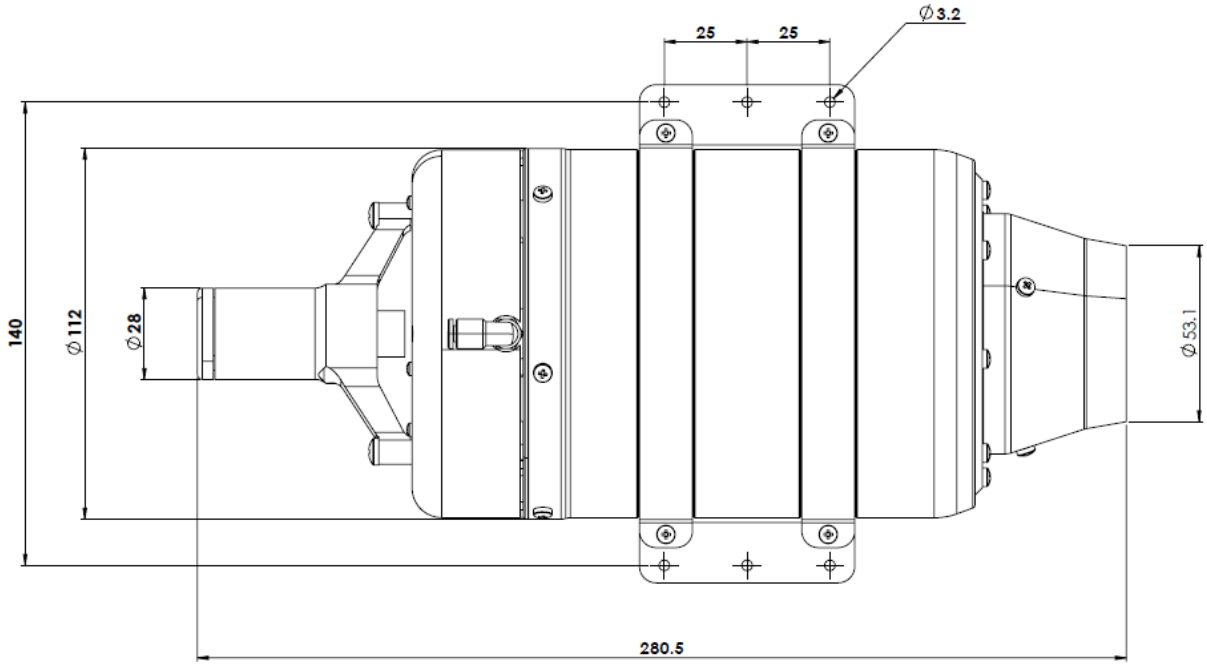
DET 200 — Dimensional Envelope

Engine Photograph



DET 200 — Engine Unit

Dimensional Envelope



DET 200 — General Arrangement (all dimensions in mm)