

# JetCat-PRO engines

P400PRO P300PRO P200PRO



## Features:

Engine sided fully integrated (no further external equipment necessary):

- ECU (Electronic control unit), watertight conformal coated.
- Brushless fuel pump (completely sealed, salt water resistant, high efficient)
- Internal routed EGT probe (easily user replaceable).
- Electric starter (user replaceable).
- Direct Kerosene startup.
- Shut-Off valves (solenoids) for main fuel and start fuel.
- Threaded fuel supply connection via 8mm tubing, internal fuel filter.
- 4-pin "Power-Bus" expansion connector (e.g. for direct connection of a smoker pump, or additional fuel transfer pump)

Power supply: 3-4 cell LiFePo, 3-cell Lipo, 6cell Lead battery (=8-15V DC/ @25A peak)

Control interface options:

Analog (e.g. 0-5V), 1 or 2x Servo PWM, RS232, RS485, CAN-Bus (control and data reporting)

Precise calibrated "fuel consumed/rest fuel" estimation and report

Electrical connection via 2x pigtail cables/connectors (Power & data/control)

Control cable connector: Autosport (9-pin) on 35cm pigtail, other connectors are also possible.

## Options:

- Bleed air port (e.g. for pressurisation of fuel tanks)
- Brushless generator / starter (alternator) with integrated stabilized voltage output (e.g 80W @12.5V, different voltages/powers available on request).  
Additional high power, 3-phase AC output (e.g. 500W/1000W @9-36VAC).  
Autonomous charge/control /buffering of connected supply battery
- Water tight sealed brushless alternator/starter
- Salt water resistant engine shaft and bearings (for seawater recovery)



## Technical data:

Specifications	P400-PRO	P300-PRO	P200-PRO
Idle rpm (1/min)	30000	35000	33000
Max rpm (1/min)	98000	106000	112000
Thrust at idle (N)	14	14	9
Thrust @ max Rpm (N)	397	300	230
EGT range (°C)	480-750	480-750	480-750
Pressure ration	3,8	3,55	4
mass flow (kg/s)	0,67	0,5	0,45
exhaust gas velocity (km/h)	2122	2160	1840
exhaust gas power output (kW)	116,4	90	58,8
fuel consumption @maxRpm(ml/min)	1300	980	730
fuel consumption idle (ml/min)	200	179	129
fuel consumption idle (kg/min)	0,16	0,143	0,102
fuel consumption @maxRpm (kg/min)	1,040	0,784	0,577
SFC @ maxRpm (kg/Nh)	0,158	0,157	0,15
weight (g)	3650	2730	2630
diameter	148,4	132	132
length (mm) incl. starter	353	380,5	350
<b>Operating conditions</b>			
Maximum startup altitude	2600m (@STP)		
Maximum operating altitude	10000m / 32800ft		
Fuel	Jet-A1 with 5% oil		
Max axial (forward) acceleration	25G	25G	25G

All data at STP +/- 3% ; STP: Standart temperature and pressure: 15°C, 1013mbar

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