

H5Ft

TCe 115, TCe 120, TCe 130

1.2 Turbo GDI - Gasoline Euro5

RENAULT
POWERTRAIN

DRIVE THE CHANGE



H5Ft - CUSTOMER BENEFITS

Renault's first turbocharged, direct-injection gasoline engine

An all-aluminum 1.2 Energy engine aimed at replacing a naturally aspirated 1.6 with higher power and torque, and significantly lower CO2

ENERGY PACKAGE ^E

- Stop & Start with ultra fast start-up
- Regenerative braking
- Variable displacement oil pump
- Advanced thermal management
- Reduction in fuel consumption by 25 per cent *



DRIVING COMFORT - FUN TO DRIVE

- Turbocharged four-cylinder 1.2-litre engine (1,198cc) with direct injection. - Maximum power: 115 to 130 hp
- Peak torque: 190 or 205 Nm from 2,000 to 4,000 rpm, with 90 percent available from 1,500 rpm
- Double cam-phasing Variable Valve Timing (VVT): Combined with an integrated turbo manifold, the VVT ensures that maximum torque is available at low engine speeds and across a broad rev-band



ENVIRONMENT FRIENDLY

- Euro5 compliant, Euro6 ready



MAINTENANCE - TOTAL COST OF OWNERSHIP**

- Timing chain: lifetime
- Extended service intervals

AVAILABLE TRANSMISSIONS

- Manual transmission, five speed or six speed and DCT

DRIVETRAIN LAYOUTS

- East-West available
- North-South layout possible, according to the customer request and after Renault validations



A WIDE RANGE OF APPLICATIONS

- ☐ B,C segment Cars
- ☐ MPV Vehicles
- ☐ Equips Renault and other manufacturers' vehicles

^E : The Energy engine lineup relies on the technological expertise of Renault in F1 and a new generation of downsizing

*Availability depends on required emission standards and vehicle characteristics

**On Renault vehicles under West Europe market conditions

H5Ft - SPECIFICATIONS

MAIN SPECIFICATIONS

	TCe 115	TCe 120	TCe 130
Number of Cylinders	4		
Number of Valves	16		
Bore x Stroke (mm)	72.2 x 73.1		
Total Displacement (cc)	1198		
Max. Power, kW (PS)	85 (115)	88 (120)	97 (130)
Speed at max Power (RPM)	5000		
Max. Torque (Nm (lbf.ft))	190 (140)	190 (140)	205 (151)
Speed at max Torque (RPM)	2000-4000	2000-4000	2000-3000
Compression Ratio	10 :1		
Fuel Injection	Direct Injection		
Turbocharger	Waste Gate		Waste Gate Specific turbo charger
Fuel	RON 95		
Emissions Standard	Euro5 (Euro6 ready)		
Dimensions (LxWxH)	608 x 639 x 691		
Weight (kg)	115		

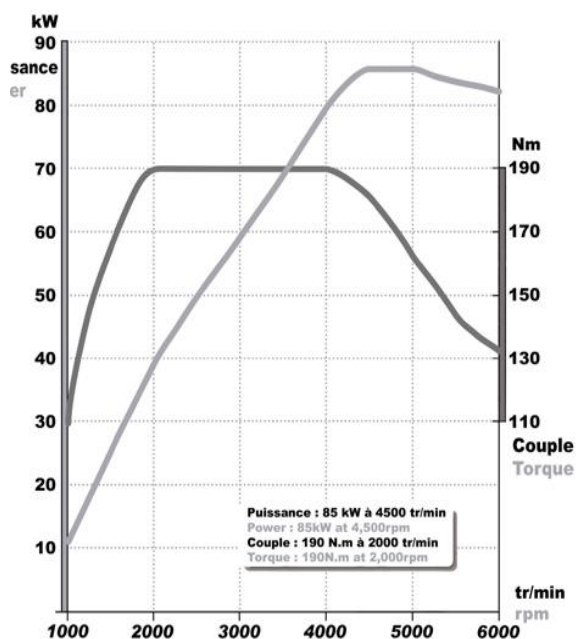
OTHER SPECIFICATIONS

Cylinder Block Material	Aluminum
Cylinder Head Material	Aluminum
Oil Sump Material	Aluminum
Emissions Control System	Catalyst
Power Steering	Electric *
Standard Engine Position	East-West, intake towards the front
Standard Engine Tilt	8 degrees towards exhaust
Electric Interface to Vehicle	CAN Bus

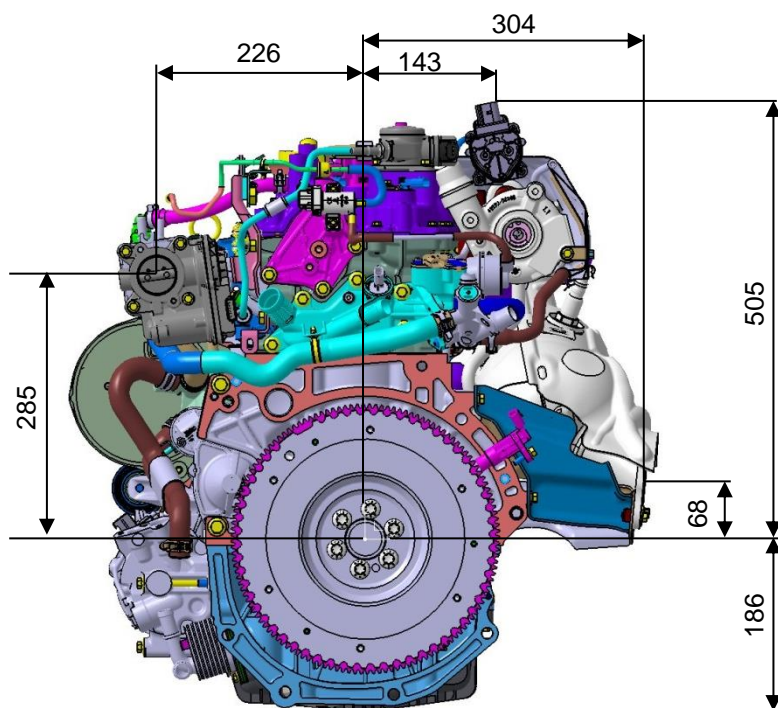
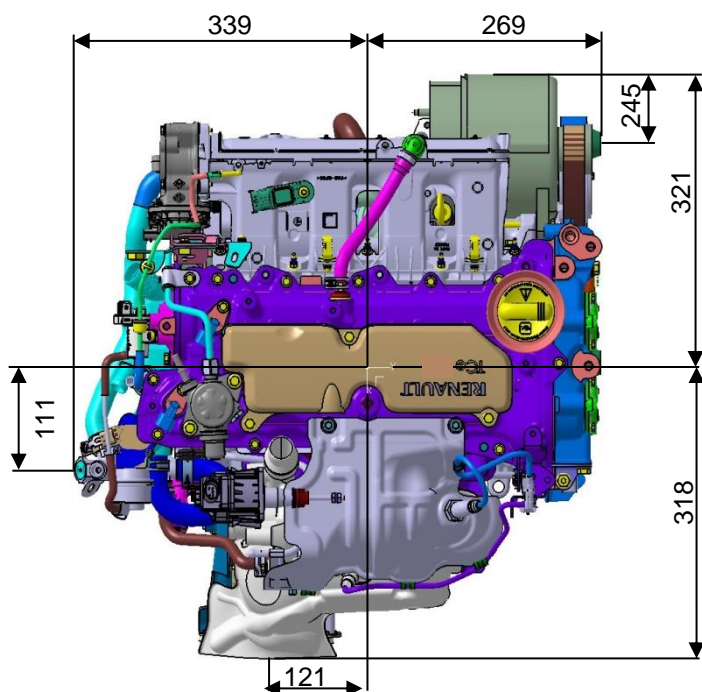
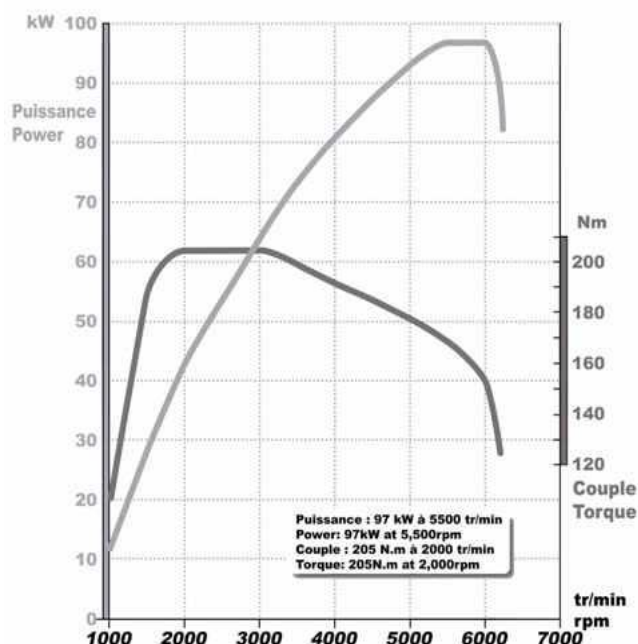
*Hydraulic power steering to be validated by Renault

H5Ft – PERFORMANCE AND MAIN DIMENSIONS

Energy Tce 115



Energy TCe 130



Dimensions in mm

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