

# Hyundai Gamma engine

The Hyundai **Gamma** engine was introduced in 2006 to replace the existing Hyundai Alpha engine.<sup>[1]</sup> There are 1.4 L and 1.6 L versions of this engine.

The Gamma II can apparently run in Atkinson cycle (leaving intake open longer for more complete burn but less displacement) under low loads for additional fuel economy with the ability to shift to Otto cycle on demand due to high loads or extra acceleration.

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## Gamma I

### 1.4 MPi (G4FA)

The **G4FA** is a 1.4 L (1,396 cc) engine. Bore and stroke is 77 mm × 75 mm (3.03 in × 2.95 in). It has MPi and makes 111 PS (82 kW; 109 hp) at 6,300 rpm and 14 kg·m (137 N·m; 101 lbf·ft) of torque at 4,200 rpm. Power is

γ-engine Hyundai Gamma engine	
	
Overview	
Manufacturer	Hyundai Motor Company
Production	2006–present
Layout	
Displacement	1.4 L (1,396 cc) 1.6 L (1,591 cc)
Cylinder bore	77 mm (3.03 in)
Piston stroke	75 mm (2.95 in) 85.4 mm (3.36 in)
Block material	Aluminium
Head material	Aluminium
Valvetrain	DOHC 4 valves x cyl. with CVT
Compression ratio	9.5:1, 10.0:1, 10.5:1, 11.0:1, 13.0:1
Combustion	
Turbocharger	Twin-scroll with intercooler (1.6 T-GDi)
Fuel system	Gasoline direct injection Multi-point fuel injection
Fuel type	Unleaded gasoline
Oil system	Pressure feed

# Hyundai Gamma Engine Manual

**R Pring**



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