

FORMULA 3 MONOPOST



New regulations from motor sport's governing body, the FIA, sees a new breed of Formula 3 machinery in action from 2012. The first launched is from Italian chassis designer [Dallara](#), the F312, which made its public debut in January at the Autosport International show.

The new car features a number of improvements over the outgoing model, which will race on 2012 FORMULA 3 CHAMPIONSHIP . Dallara says key points include:

- Improved safety, with headrest and side intrusion protection similar to Formula 1 standards and featuring 16-layer Zylon side panels
- Greater economy thanks to improved quality, which Dallara says is a key factor in increasing the life of components, adding that the brakes, simplified bodywork and gearbox will all be easier to manage and offer reduced running costs
- Completely new front suspension with torsion bar road springs, designed both to be compact and light and to fit inside the monocoque in front of the pedals
- Thoroughly reworked rear suspension with greater rigidity and enhanced performance
- Upgraded front and rear uprights and hubs better matched to the car's levels of performance

As in previous seasons, the International class cars are powered by 2-litre, four-cylinder “stock block” engines from two manufacturers – Mercedes-Benz and Volkswagen.

Dallara F312 - 2012 specification

Engines	Mercedes-Benz	
	Volkswagen	
	Fiat	
	Honda	
Performance	Layout	Four-cylinder in-line, 16 valves and twin overhead camshafts
	Power	210bhp @ 6000rpm (approx)
	Speed	In excess of 160mph depending on circuit and gearing
	Acceleration	0-60mph in 3.0s
Dimensions	Deceleration	130-50mph in 2.8s
	Weight	550kg including driver and ballast
	Length/width/height	4351mm / 1845mm / 945mm
	Wheelbase	2800mm
Construction	Front/rear track	1595mm/1540mm
		Carbon composite with AL/Nomex honeycomb
Gearbox	Hewland	Six-speed sequential
Springs	Dallara	Torsion bars and coil
Dampers	Koni	Bump and rebound adjustable
Wheels	OZ	9in front/10.5in rear
Tyres	Cooper	

Dallara F308/F311 specification

Engine	Mugen Honda	
	Layout	Four-cylinder in-line, 16 valves
	Power	210bhp (approx)

Performance	Speed	In excess of 160mph depending on circuit and gearing
	Acceleration	0-60mph in 3.0s
	Deceleration	130-50mph in 2.8s