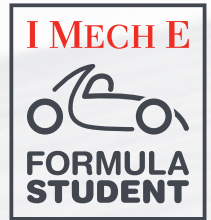


FORMULA STUDENT

Institution of Mechanical Engineers



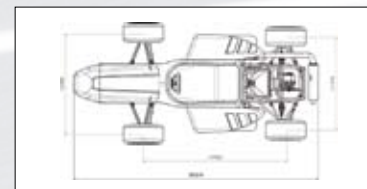
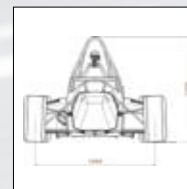
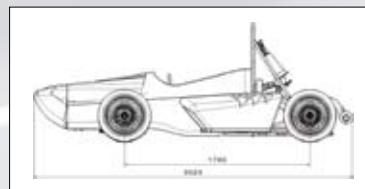
Congratulations to RWTH Aachen

FOR PARTICIPATING IN FORMULA STUDENT 2008

The team Ecurie Aix was founded as one of the first ever European Formula Student teams. RWTH Aachen students meet regularly in order to share their passion for motorsports. In their spare time they design and build single-seated racing cars with great dedication.

Since the founding of the team in 1999, 40 members pursue the goal to drive forward innovation and to set standards. In this spirit, the Formula Student Team of RWTH Aachen is the first European team which voluntarily ran crash tests during vehicle development and in the last three cars adopted a CVT (Continuously Variable Transmission), which was unique in the world for Formula Student.

This year, the team has designed and constructed their fifth race car. A motorcycle engine from Suzuki provides the required performance, which is transmitted by a conventional motorcycle gear. Ecurie Aix uses a hybrid construction of a carbon fibre monocoque and a tubular steel rear frame. To ensure security, a Crashbox is located in the front of the EAC05, which was tested in a voluntary crash test. In the case of a lateral collision, the structure of the Monocoque provides a sufficient safety.



Length/width/height/wheelbase	3024mm/1450mm/1140mm/1760mm
Track (front/rear)	1250mm/1174mm
Weight including 68kg driver (front/rear)	129kg/196kg
Suspension (front/rear)	Multilink suspension. Push rod actuated horizontally oriented mono shock and rollspring/double unequal length A-Arm. Pull rod actuated spring and damper
Tyres (front/rear)	175/505 R13 Dunlop SP SPORT
Wheels (front/rear)	6 inch wide, 3 pc Al Rim, no offset
Brakes (front/rear)	Floating, stainless steel, hub mounted, 240mm dia., vent holes, student built
Frame type	Hybrid-design of CFK-Monocoque and steel space rear chassis/CFK & steel (1.454t)
Engine	Suzuki GSX-R 600 (1997-2000) 4 cylinder carburetor engine, with injection backfitting
Bore/stroke/cylinders/cc	65.5 x 44.5mm/4 cylinder/600cc
Fuel	E-85 ethanol
Fuel system	Student des/built, fuel injection (Bosch injectors), ECU controlled, stainless steel fuel rail
Max power/max torque	12,000rpm/10,000rpm
Transmission/differential/final drive	Chain #530/Visco-Lok-Differential, Bias ratio 1:1/from 21.808 in the first gear to 8.987 in sixth gear