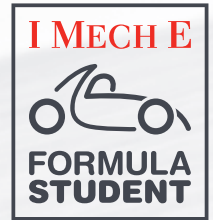


FORMULA STUDENT

Institution of Mechanical Engineers



Congratulations to Chalmers University of Technology

FOR PARTICIPATING IN FORMULA STUDENT 2008

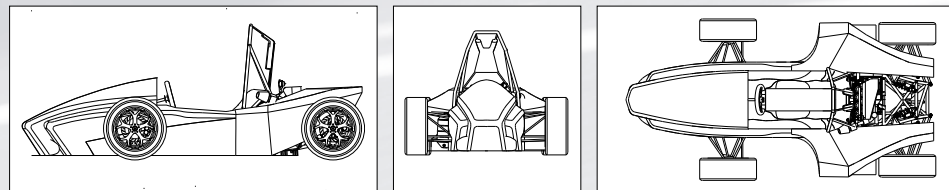
Each year brings a new team to Chalmers Formula Student (CFS), who designs a car from a blank sheet of paper, inheriting very little from previous Chalmers teams other than the valuable advice and opinions offered. CFS believes this method helps to develop better engineers by encouraging them to learn, rather than giving them existing solutions to develop without fully understanding the concepts. It also follows CFS's core value of "Learn first, race second." Each team member also gains manufacturing experience in the university machine shop and is responsible for manufacturing their system on the car. This motivates each engineer to design for manufacture, something often overlooked.

With 23 members spanning four continents and nine different countries and speaking 11 different languages between them, Chalmers Formula Student continues to be probably the most international team in the competition.

CFS08 adopts the premise of the TWR Volvo S40 celebrating the 10 year anniversary of Rickard Rydell winning the BTCC. Powered by a supercharged Yamaha Fazer 600cc engine running E85, the sub 250kg tubular space frame vehicle delivers close to 90hp at 8000rpm with 77Nm of torque running on the VEMS made ECU-system. Designed to meet the 2009 regulations, CFS08 has designed and built a fully ergonomic formula class car.



12th
Overall in
Class 1



Length/width/height/wheelbase	2770mm/1395mm/1150mm/1605mm
Track (front/rear)	1250mm/1200mm
Weight including 68kg driver (front/rear)	308kg
Suspension (front/rear)	Unequal length A-Arms. Pull rod / push rod to rocker actuated Öhlins spring/damper units
Tyres (front/rear)	Goodyear 20.0x7.0-13 R075 D2692
Wheels (front/rear)	Student design, Spokes and outer rim CNC-machined 7075 aluminium, carbon fibre inner rim
Brakes (front/rear)	Student designed, water jet cut and ground from 1672 steel, hub mounted, 220mm dia
Frame type	Steel tubular space frame/Swedish Standard EN10305 SS-type 3 & 1 (bendable & non bendable)
Engine	2006 Yamaha FZ6
Bore/stroke/cylinders/cc	65.5/44.5mm/4 Cylinders/599cc
Fuel	E-85
Fuel system	VEMS controlled fuel injection
Max power/max torque	8,000rpm/6,200rpm
Transmission/differential/final drive	Chain #520/Quaife torsen LSD (QDF7ZR)