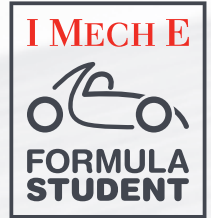


FORMULA STUDENT

Institution of Mechanical Engineers



Congratulations to HAW Hamburg

FOR PARTICIPATING IN FORMULA STUDENT 2008

First
time
at FS UK

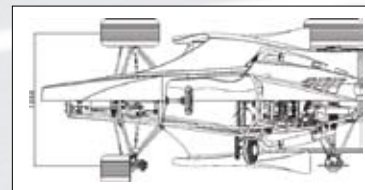
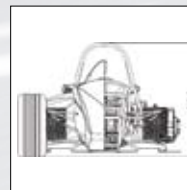
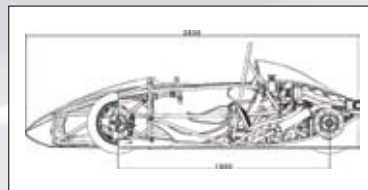
The Hawks Racing Team from HAW Hamburg was founded in 2003. It took over from a previous group called "HAW Hamburg Racing" which split up due to internal problems and left the front half of a rolling chassis. So the newly founded Hawks Team started its work with designing the missing parts of the car. It was a roughly organised group of students, which finished the first car in 2004.

After this event, the team decided to take two years to design the next car and establish a working team structure. Between 2004 and 2006 a completely new car was designed which participated in last years Formula Student events in Germany and Italy. A very successful fourth place was achieved in the Italy event.

Learning from experiences with the second car and the enhanced team structure we designed our third Car: the Hawk 07. This car was the greatest success of the team so far, finishing ninth in Germany and fourth Italy 2007.

Our fourth car, the Hawk 08 is an evolution of last year's car to take advantage of the success of the Hawk 07 but will be even better due to an enormous weight loss of about 50kg.

We look forward to the competition ahead and are ready to show what the Hawks Racing Team is made of!



Length/width/height/wheelbase
2836mm/1270mm/943.5mm/1800mm

Track (front/rear)
1200mm/1200mm

Weight including 68kg driver (front/rear)
151.9kg/158.1kg

Suspension (front/rear)
Double unequal length A-Arm.
Pull rod actuated horizontally
oriented spring and damper

Tyres (front/rear)
Goodyear 20.0 x 7.0 - 13

Wheels (front/rear)
8.0x13, 2.6mm offset, 3 pc Al Rim

Brakes (front/rear)
Floating, Cast Iron, hub mounted,
260mm outer diam., 190mm inner dia.

Frame type
Tubular space frame, mild steel round
tubing 25mm dia, various thickness

Engine
2000 Kawasaki ZX-6R 4
cylinder (ZX600J)

Bore/stroke/cylinders/cc
66mm/43.8mm/4 cylinder/599 cc

Fuel
100 octane gasoline

Fuel system
Student des/built ,fuel injection, fully
sequential, Walbro TDD HPUH-1 ECU

Max power/max torque
11,100rpm/10,500rpm

Transmission/differential/final drive
Chain Drive, Chain Type 520/
Drexler Formula Student multi-disk
differential/4.7