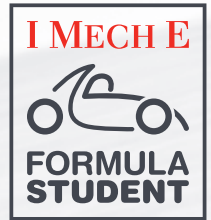


## FORMULA STUDENT

Institution of Mechanical Engineers



# Congratulations to UAS Esslingen

FOR PARTICIPATING IN FORMULA STUDENT 2008

**The Rennstall Esslingen team was founded in 2006 and participates for the first time in the UK's Formula Student in 2008.**

After the first steps with a prototype in 2006, later called Stallardo 06, nearly 70 Students designed last year's competition car, Stallardo 07. With this car the first experiences and, above all, results were earned and celebrated. In November 2007 the team started to design its dream: the Stallardo 08.

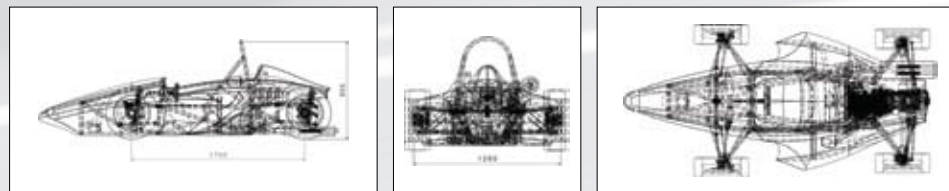
The main task was not only to build an average car; the Rennstall team designed a car which steps into the footprints of its predecessor. Every system of the Stallardo 07 was completely reworked, taking the costs, reliability and the weight into account.

New systems and innovations were integrated into the new vehicle while we kept the identity of a Stallardo - an emotional and beautiful car, appearing with an extraordinary styling

With a huge gain in experience, new ideas and technologies the team is confident that its efforts will ensure success in Formula Student UK 2008.



**First  
time  
at FS UK**



**Length/width/height/wheelbase**  
2944mm/1420mm/955mm/1700mm

**Track (front/rear)**  
1260mm/1200mm

**Weight including 68kg driver (front/rear)**  
141kg/172kg

**Suspension (front/rear)**  
Double unequal length A-Arm. Push rod actuated horizontally oriented spring and damper (coil over). Dampers adjustable in compression and rebound in high and low speed

**Tyres (front/rear)**  
20.5 x 6.0-13/20.5 x 7.0 -13  
Hoosier R25B

**Wheels (front/rear)**  
6"x13", 10,8mm offset, /7"x13", 2,6mm offset BBS 3 pc Al Rim

**Brakes (front/rear)**  
Hub mounted, 210mm outer diam., 142mm inner diam.

**Frame type**  
Tubular space frame, S335 steel round tubing 16mm to 25mm dia

**Engine**  
Mahle SAE Motor V1

**Bore/stroke/cylinders/cc**  
46.9/74.2/3/608

**Fuel**  
100 octane petrol

**Fuel system**  
Tank Student designed/built, fuel injection and Pump Bosch, fuel rail Mahle

**Max power/max torque**  
9,500rpm/7,000rpm

**Transmission/differential/final drive**  
Longitudinal built in Engine, in gearbox integrated torsen differential/  
Torsen differential/4.43