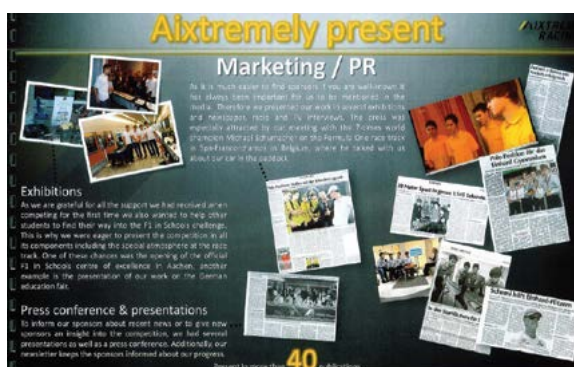


F1 in Schools Package

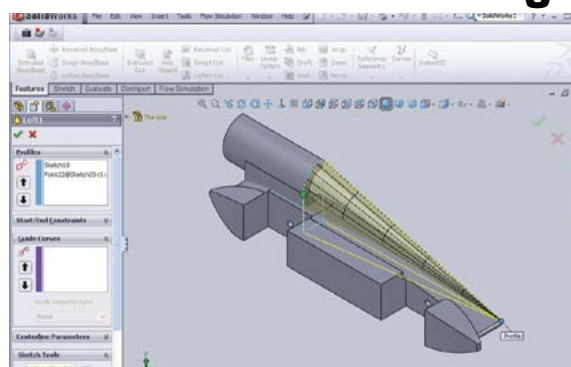
A COMPLETE PACKAGE INCORPORATING DESIGN, ANALYSE, MAKE, TEST & RACE

The F1 in Schools Technology Challenge stimulates a student's interest in, and understanding of the entire process of design and manufacture. Through involvement in the F1 in Schools Challenge, students will gain first hand experience of teamwork and communication, whilst encouraging individual flair and confidence. The F1 in Schools Challenge provides students with the opportunity to reflect industrial working practice of developing a product from concept, to prototype to production.

Plan



Design



Analyse



Make



Test



Race



f1inschools.co.uk



APPROVED

Ideal for use in conjunction with



Prices are correct at time of printing, but may be subject to revision.
Prices shown are exclusive of carriage charges & VAT

F1 in Schools Package

In support of the F1 in Schools Technology Challenge, Denford offer an F1 Package, which includes all of the equipment required to get you up and running for this innovative educational project - covering Design, Analyse, Make, Test & Race.

A brief overview:

1. Plan: Prepare a **business plan**, develop a budget and raise sponsorship. Teams are encouraged to collaborate with industry and create business links.

2. Design: Using 3D CAD (Computer Aided Design) software, **design** an F1 car of the future to the specifications set by the International Rules Committee just like in Formula One™.

3. Analyse: Aerodynamics are **analysed** for drag coefficient in a virtual wind tunnel using Computational Fluid Dynamics Software (CFD).

4. Make: Using 3D CAM (Computer Aided Manufacture) software, the team evaluates the most efficient machining strategy to **make** the car.

5. Test: Aerodynamics are **tested** in wind and smoke tunnels.

6. Race: Time to test what your team has worked so hard together to achieve: **a winning car**.

The F1 in Schools Package:

DESIGN:

SolidWorks Education Edition - 3D Design, Drafting & Simulation Software (available separately - see page 36 - 37).
QuickCAM Pro Advanced Milling/Routing CAM software (site licence).

ANALYSE:

Virtual Wind Tunnel (VWT) Software (single licence).

MAKE:

CNC Machine Options

- Router 2600/Router 2600 Pro (Metal Cutting).
- Compact 1000 Pro (Metal Cutting).
- MRC 40

Car Manufacture Fixture

F1 in Schools Car Manufacturing Fixture for both Bloodhound SSC & Formula One Class cars.

Consumables - Bloodhound SSC & Formula One Class Cars

- Formula One Class Balsa Wood Blanks - Pack of 20.
Fusion Wheels - Black - Pack of 100.
Screw Eyes 1" - Pack of 100.
Long Axles - 65mm - Pack of 100.
Straw Wheel Spacers - Pack of 500.
Washers - 4mm - Pack of 100.
Decal Stickers - Pack of 25 sheets.
Paint Stand.
- Bloodhound SSC Class Balsa Wood Blanks - Pack of 20.
PX Wheels - Rear - Black - Pack of 100.
LX Wheels - Front - Black - Pack of 100.
Screw Eyes 1/4" - Pack of 100.
Short Axles - 43mm - Pack of 100.

TEST:

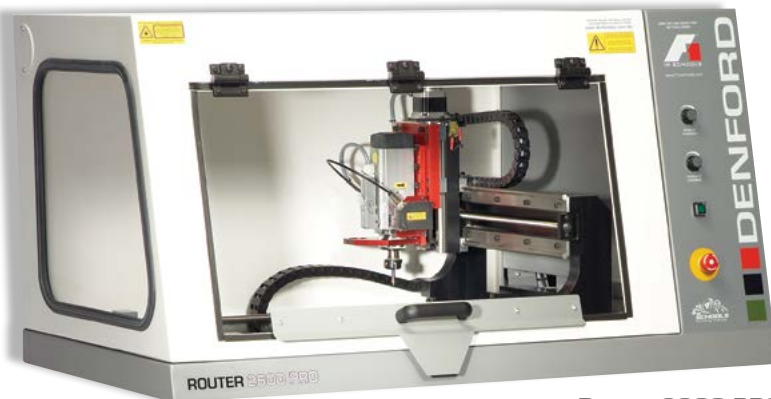
Scout Wind Tunnel.
Fog Maestro Smoke Generator including 1Ltr. Fog Fluid.

RACE:

Elevated Race Track - 25m track.
F1 Race System (x1 Start & Finish Gate, x2 Launch Triggers, x2 Launchers, x1 Power Supply, x1 Control Box, Race Time Management System).
8 Gram Competition Cartridges (pack of 120).



Compact 1000 PRO



Router 2600 PRO

For the full range of F1 consumables & race equipment see pages 74 - 79.