DELTAWING
RACINGCARS

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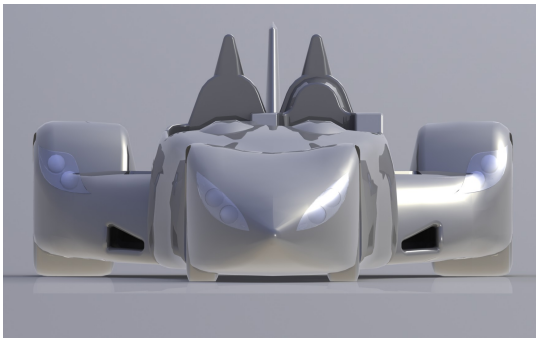

Specifications:

Total weight: 475Kg.
Horsepower: 300 BHP
Wheel base: 2.90m
Aerodynamic drag: Cd 0.24
Front track: 0.6m
Rear track: 1.7m
O/A length 4.65m
O/A width 2.00m
Height 1.03m
Brakes: Carbon discs and pads
Fuel cell capacity 40 litres
Chassis construction: lightweight composite
Front tire: 4.0/23.0 R15
Rear tyre: 12.5/24.5 R15
Weight distribution: 27.5% Front (72.5% Rear)

Key Technical features:

- Engine and transmission are "non-stressed members" in the chassis structural design which allows the installation of a wide variety of lightweight powertrains
- The car features a liquid cooled 4 cylinder 1600cc intercooled turbocharged engine that will produce approximately 300 horsepower at 8,000 rpm and weigh 70kg
- Transmission is a 5 speed plus reverse longitudinal design with an electrical sequential paddle shift actuation. The differential features an efficient variable torque steer/differential speed-controlled planetary final drive reduction layout with the entire transmission weighing only 33kg
- Vehicle weight distribution is necessarily more rearward than traditionally seen with 72.5% of the mass between the wide track larger rear tires
- 76% of the aerodynamic downforce acts on the rear of the car which has an lift to drag ratio of >5.0
- Rear wheel drive coupled with the rearward weight and aerodynamic distributions greatly enhances inline acceleration capability
- Unique amongst today's racing cars more than 50% of the vehicles braking force is generated behind the center of gravity giving a dynamically stable response
- Locking propensity of the un-laden front wheel at corner entry is greatly reduced due to virtually no front lateral load transfer with the narrow track & wide rear track layout, steered wheel "scrub drag" moment is virtually zero greatly increasing tire utilization and reducing mid turn understeer.
- Advanced computer modeling of structures, impact energy management, aerodynamics, vehicle dynamics and tires has been used to develop the DeltaWing design
- Driver position, restraint layout and energy absorbing structures designed to meet the latest occupant survival criteria