



TATUUS

RACE CAR MANUFACTURER



INTRODUCTION

According to the latest FIA F4 Technical Regulation, TATUUS is pleased to submit the proposal of the FIA F.4 2° Generation offering a Formula based on the best ratio between:

SAFETY / QUALITY / PERFORMANCE / PRICE

With high technology and low running costs, the F4 represents the first FIA Formula step on the ladder towards F1, offering opportunities to worldwide young drivers and to their professional careers.

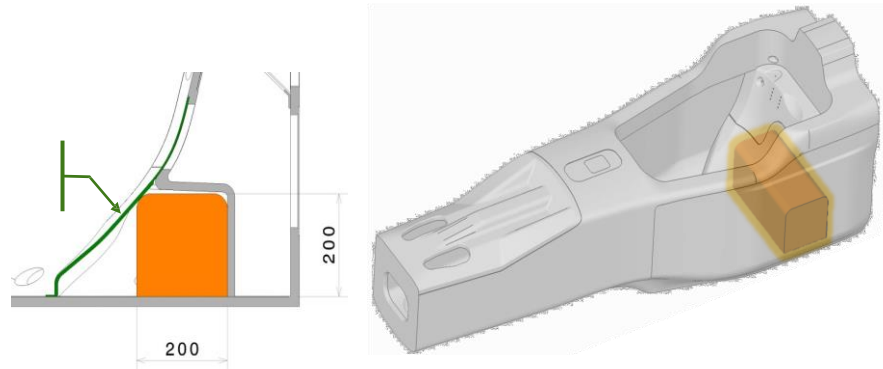
Keeping high technical level and the latest safety standard with a price-capped selling price for both the Car and the Spare Parts, the F4 offers an optimum solution at a very competitive price reducing the overall cost of the racing Season.



ENGINE



TATUUS F4 T-421 chassis is predisposed to allow all the F4 engines homologated by the FIA with a defined Weight-to-Power ratio $\approx 3,8 \text{ kg/Kw}$



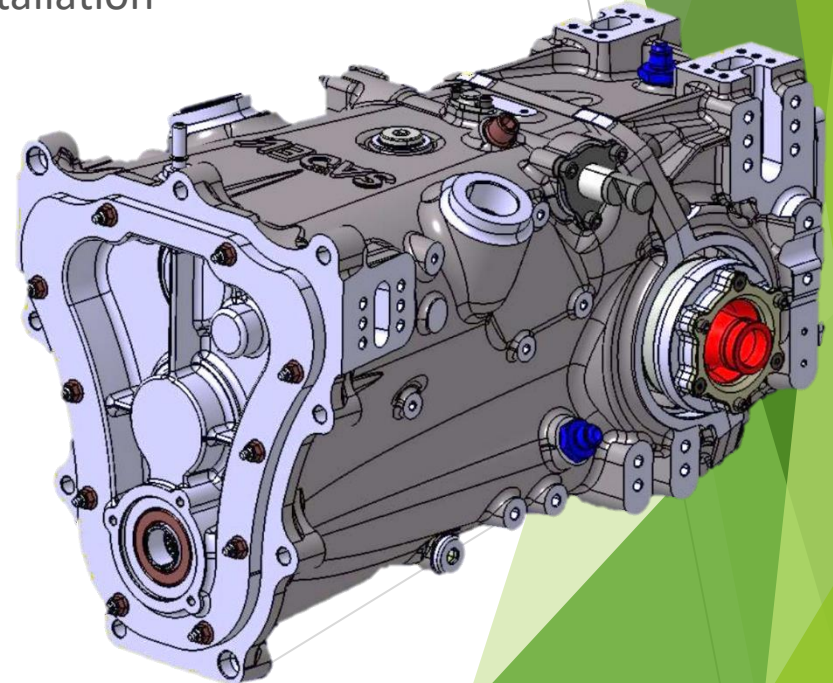
According to the FIA Technical Regulation, TATUUS F4 T-421 chassis is designed to allow the fitting of an Energy Storage (ES) unit enabling the installation of an hybrid powertrain.

The Energy Storage Volume is a protected enclosure surrounded by crushable structure and a push-off-tested removable bulkhead

TRANSMISSION

Bespoke reversed gearbox casing co-engineered in collaboration with SADEV:

- SLR75LW
- Transaxle Gearbox
- Reverse gearbox designed to optimize weight distribution
- Casing designed to optimize MARELLI ESA2 installation
- 6 ratios + reverse speed
- Wide range of ratios
- Contactless angular position sensor
- 4 satellites differential
- Aluminum housing
- TATUUS specific suspensions fixing points

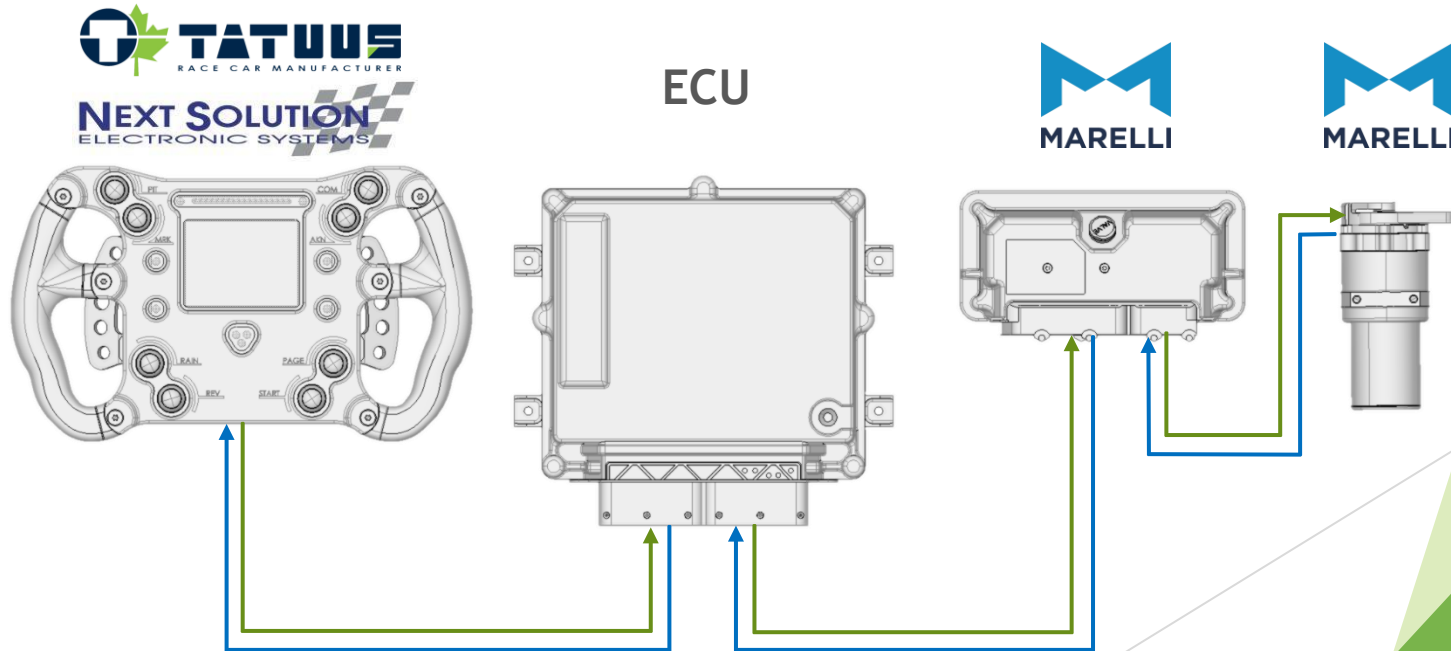


SADEV
RACING TRANSMISSION



GEARSHIFT SYSTEM

- Bespoke TATUUS / NEXT SOLUTION steering wheel with paddle-shift system
- MARELLI GCU
- Improved compact and lightweight MARELLI Electronic Shift Actuator (ESA2)
- Compatible with most engine manufacturer's ECUs



SAFETY

FIA F4 approved:

- Safety cell with co-laminated anti-intrusion panels to optimize weight
- TATUUS HALO
- Front crash structure with replaceable tip and fast lock-unlock system
- Rear crash structure
- Front anti-intrusion panel
- Removable head protection
- Removable leg protection
- 3-sizes carbon fiber extractable seat for the best ergonomics and safety
- Cockpit foam gap fillers to protect the driver in case of side accident
- OMP Electrically-operated fire extinguisher
- SABELT 6 point safety harness
- Wheels and rear crash structure retaining cables
- FT3/FT5 fuel cell (tbc from FIA)
- Rear led light
- Tail lights on the endplates

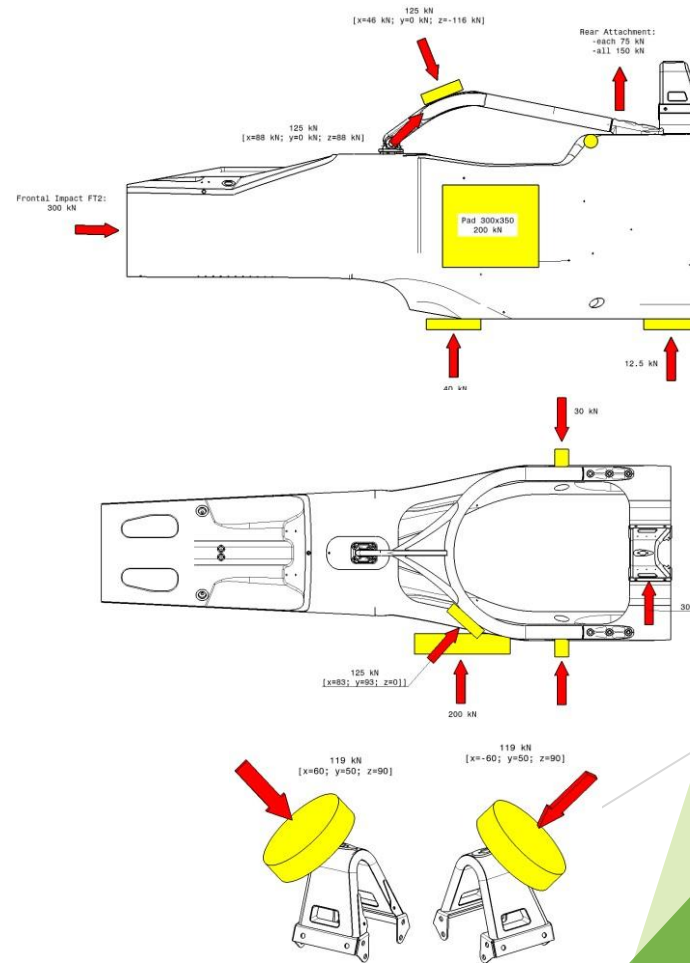


SAFETY



Following the last FIA safety Regulation stipulating more than 20 homologation tests, the TATUUS F4 T-021 chassis complies with the current safety standards:

- Art. 14.4 Seat Belt Anchorages
- Art. 15.5.2 Tethering
- Art. 15.4.11 Forward side Panel
- Art. 16.2 Dynamic Test
- Art. 16.3 Survival Cell Frontal Impact (FT2)
- Art. 16.4 Rear Dynamic Test
- Art. 16.5 Steering column test
- Art. 17.2 Principal Roll Structure (2x)
- Art. 17.3 Secondary Roll Structure (HALO) (4x)
- Art. 18.6 Static Test push-off
- Art. 18.2 Chassis side strength test
- Art. 18.3 Fuel tank floor test
- Art. 18.4 Cockpit floor test
- Art. 18.5 Cockpit rim static side tests
- Art. 18.7 Main side Panel
- Art. 18.8 Rear push-off test
- Art. 18.9 Frontal Anti Intrusion Panel static test
- Art. 18.10 Seat Bulkhead

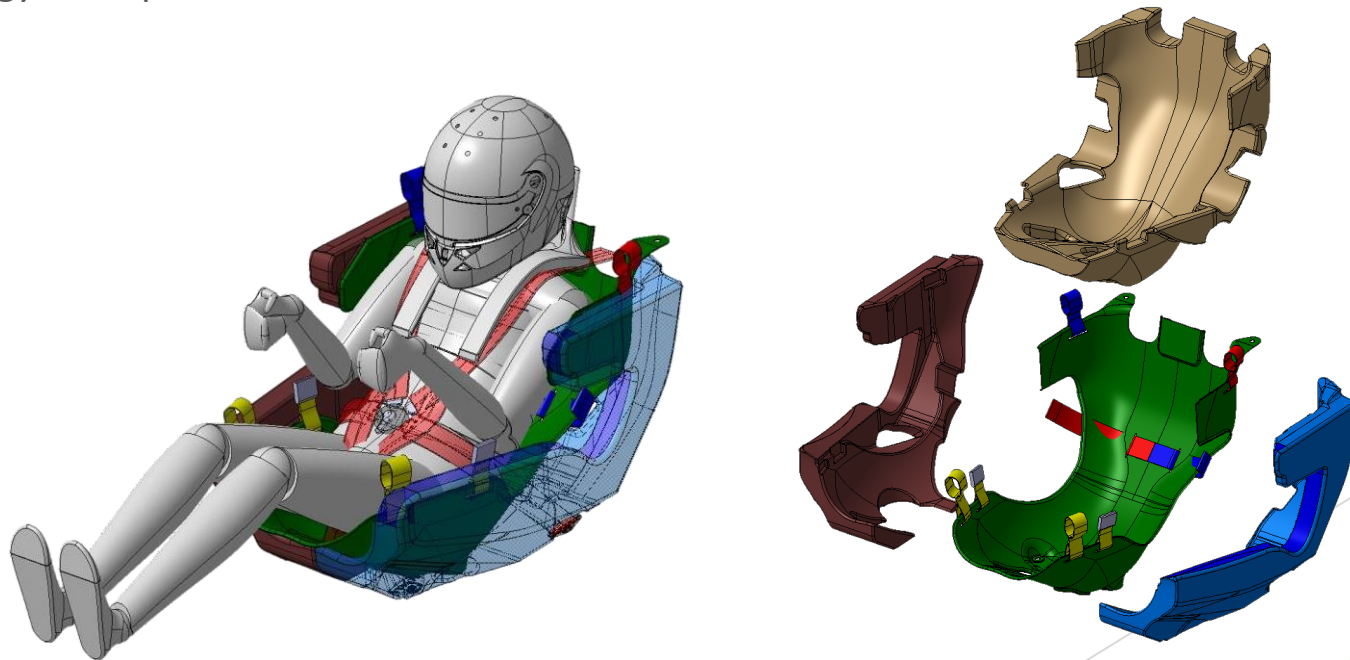


SAFETY

To enhance the ergonomics of the car, the chassis is designed to accommodate drivers from less than 1,50m up to more than 2,00m. The pedal box has a wide adjustment range.

To further increase the protection of the driver in case of side impact, the space between the chassis and the seat is filled with energy-absorbing foam.

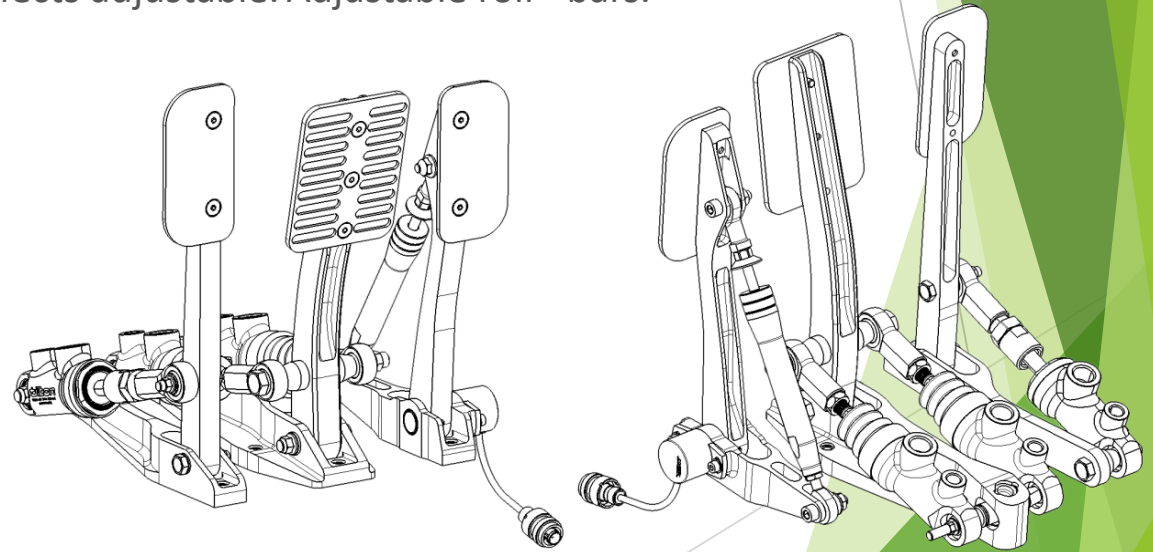
The seat is available in 3 different sizes and therefore allows a better shape around the body, limiting the thickness of the foam needed to fit the driver in order to better control the energy absorption.



MECHANIC



- Bespoke TATUUS Pedal box, with independent adjustment of throttle, brake and clutch pedal positions
- Front Suspensions:
Double wishbone with pushrods, twin damper (bump and rebound adjustable), EIBACH 36mm springs. Camber and toe adjustable. Adjustable roll-bars.
- Rear Suspensions:
Double wishbone with pushrods, twin damper (bump and rebound adjustable), EIBACH 36mm springs. Camber, toe and anti-effects adjustable. Adjustable roll- bars.
- Fully machined aluminum Steering Box
- Fully machined aluminum Uprights
- Brakes:
4 pistons brake calipers
Floating disks, light ventilated rotor
- Rims:
Front: OZ Aluminum 8 x 13"
Rear: OZ Aluminum 10 x 13"
- Tires:
Front: 200 to 250 x 13
Rear: 240 to 290 x 13



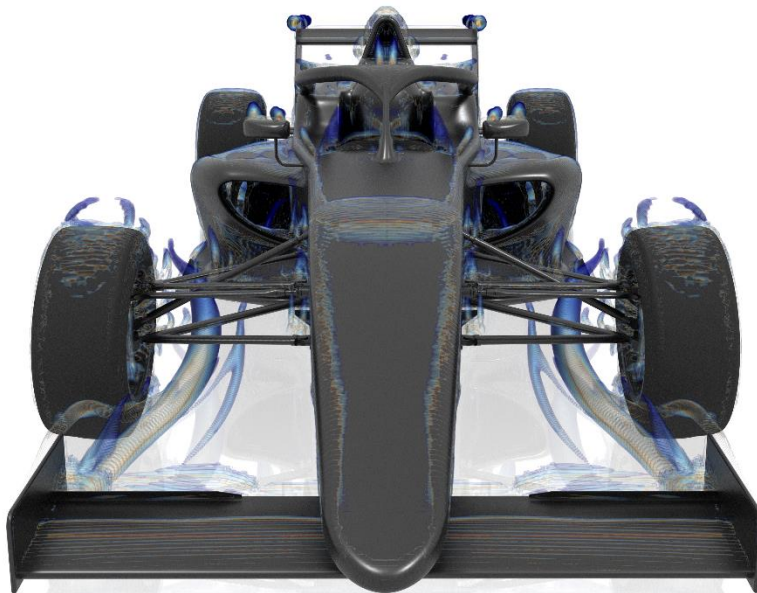
BODYWORK

- Fully carbon fiber bodywork, carbon fiber cockpit panels
- Kevlar reinforced areas to limit the wearing of the most exposed surfaces
- Radio-transparent areas for Radio / GPS / Transponder
- Adjustable FIA standard airfoil carbon fiber front wing
- Adjustable FIA standard airfoil rear wing
- FIA standard airfoil beam wing
- FIA approved tail lights on the endplates
- Louvers on the sidepods to improve cooling air extraction
- 10mm thick wood plank + 5mm skid to protect the chassis from bottoming damages



AERODYNAMICS

- CFD optimized aero surfaces
 - CFD optimized cooling
 - Rear wing position optimized to improve underbody – beam wing – main plane coupling
 - Louvers on the sidepods to improve cooling air extraction



- Full aero-map with:
 - Front wing sensitivity
 - Front gurney flap sensitivity
 - Rear wing sensitivity
 - Front Ride Height sensitivity
 - Rear Ride Height sensitivity



DATA SYSTEM

- Front and Rear brake pressure
- Steering angle
- Front wheels speeds
- Throttle 2-lines redundant signal
- CAN-thru paddle shift signal
- ADR system compatible
- CAN-driven rain and tail lights
- AIM Camera system with customizable data overlay
- All the main car parameters are available on the steering dash



DIMENSIONS

- Wheelbase: 2800 mm
- Front overhang: 1150 mm
- Rear overhang: 840 mm
- Front track: 1515 mm
- Rear track: 1470 mm
- FIA defined Weight-to-Power ratio $\approx 3,8$ kg/kW



SERVICES

In addition to the ongoing development and optimization of its cars, TATUUS is committed to offering the best service to its customers.

TATUUS engineers provide remote and on-site support answering to the client specific needs, and in particular questions relating to the car engineering, electrical & software equipment, maintenance, functioning procedures.

Engineering Support.

Tatuus offers technical support on track to many championships : most of the races of the first season, including pre-season tests : some of the races of the following seasons.

Service Trailer.

TATUUS Truck is available upon request on any European race series. This service supports team by allowing them to acquire spare parts on track.



TATUUS 2014 F.4 1° GENERATION



With an excellent ratio between cost and performance, the 2014 TATUUS F4 chassis is still conquering the market.

With more than 300 chassis, powered by **Abarth-Autotecnica Motori**, sold from 2014 to 2020, the T014 has been running in:

- Italian F4 Championship
- ADAC F4 Championship
- Spanish Formula 4 Championship
- F4 UAE Championship
- NEZ North European F4 Championship

It has also been used as a base to develop the cars that currently competes in:

- British F3 Championship
- U.S. F2000 Championship
- Indy Pro 2000 Championship



MAIN EVOLUTIONS FROM F.4 T014 TO F.4 T-421



Compared to the previous version, the new F4 T-421 offers:

- TATUUS HALO
- Safer Chassis
- Improved cockpit ergonomics
- Improved protection from side accidents
- Lighter Electronic Gearshift System
- New data acquisition system and software Marelli
- New bespoke steering wheel
- Improved braking system
- Room for an Energy Storage
- New bespoke lighter Gearbox
- Additional tail-light on the endplates
- Higher performing crash structures
- Bespoke pedal box

CONTACTS

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