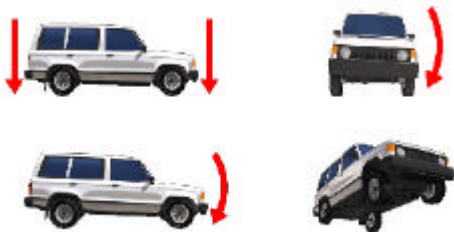


Project codename: **LUDO-HELVEN**

Vehicle: FORD-PUMA 550HP x4x
 Belgium Rally-Cross championship
 Weight: front: 715kg
 Rear: 505kg



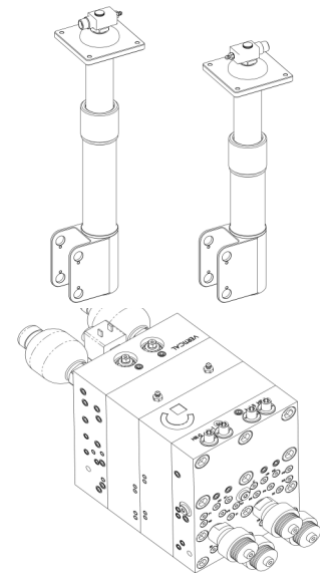
Suspension parameters



	Spring rate	Damper rate
Vertical	30 N/mm	1600 N/ms ⁻¹
Roll	180 N/mm	5600 N/ms ⁻¹
Pitch	80 N/mm	6000 N/ms ⁻¹
Axle crossing	25 N/mm	1600 N/ms ⁻¹
Understeer	Neutral	Neutral

Suspension actuators design

Front and rear Mc-Person struts
 Materials: Aluminium and stainless steel



Central device design

Racing Prototype **CREUAT-H3a**
 Separated control for spring rates and damping rates for all modal movements

Comments:

The prototype was particularly notable on :

- Low axle spring rate that created high steering immunity against the road irregularities. Pilot reported huge increase in steer control, specially on situations where normal suspension would have caused loss of control.
- Adjusted damper ratios increased the vehicle stability without compromising traction in the circuit fast corners.