

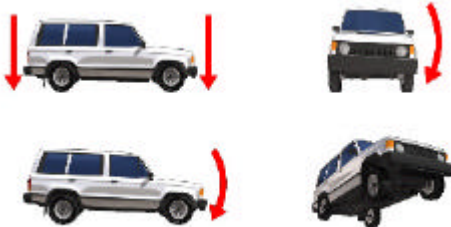
Project codename: **DEFENDER**

Vehicle: LAND ROVER DEFENDER 90
Street car

Weight: front: 850kg
Rear: 700kg



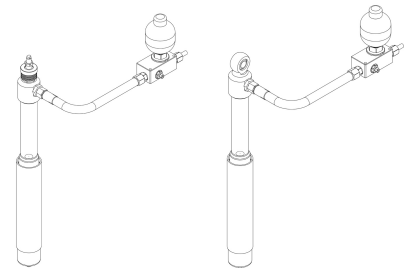
Suspension parameters



	Spring rate	Damper rate
Vertical	20 N/mm	1600 N/ms ⁻¹
Roll	60 N/mm	4000 N/ms ⁻¹
Pitch	35 N/mm	2500 N/ms ⁻¹
Axle crossing	25 N/mm	2000 N/ms ⁻¹
Understeer	Neutral	Neutral

Suspension actuators design

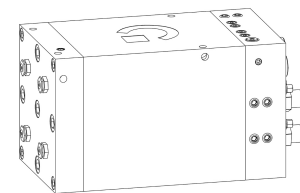
Front and rear Rigid axle
Materials: Anodized Aluminium



Central device design

4x4 Prototype **CREUAT-H2c**
(Low vertical stiffness to increase comfort without impairing stability)

Economical System central device. Production costs below 850€ for serial production.



Comments:

Increased traction in all conditions and steer immunity over bumpy roads due to low axle-crossing spring and damping rates.
Higher pitch stiffness increases vehicle corner entry.
Higher roll damping rate increases vehicle stability and steer.
Low vertical stiffness improves comfort on rough tracks.
H2 CD system design is simple and can be manufactured on a low budget for serial applications.