

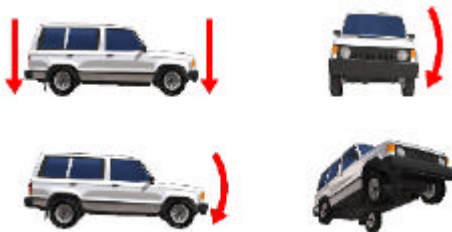
Project codename: **QUAD**

Vehicle: Yamaha ATV Grizzly  
QUAD ATV

Weight: front: 150kg  
Rear: 130kg



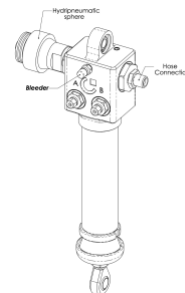
### Suspension parameters



	Spring rate	Damper rate
Vertical	6 N/mm	400 N/ms <sup>-1</sup>
Roll	20 N/mm	2000 N/ms <sup>-1</sup>
Pitch	12 N/mm	900 N/ms <sup>-1</sup>
Axle crossing	8 N/mm	600 N/ms <sup>-1</sup>
Understeer	Neutral	Neutral

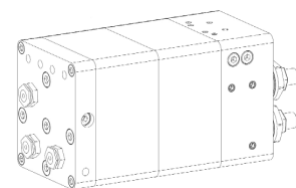
### Suspension actuators design

Front and rear Parallel A-arms  
Materials: Anodized Aluminium



### Central device design

Racing Prototype **CREUAT-H2d**  
Simple and economical central device  
Estimated serial production under 300€



### Comments:

- Increased traction in all conditions
- Steer immunity to bumpy roads
- Higher pitch and roll stiffness increased vehicle stability at high speeds, specially during road driving.
- Low vertical stiffness improved comfort on rogh tracks.