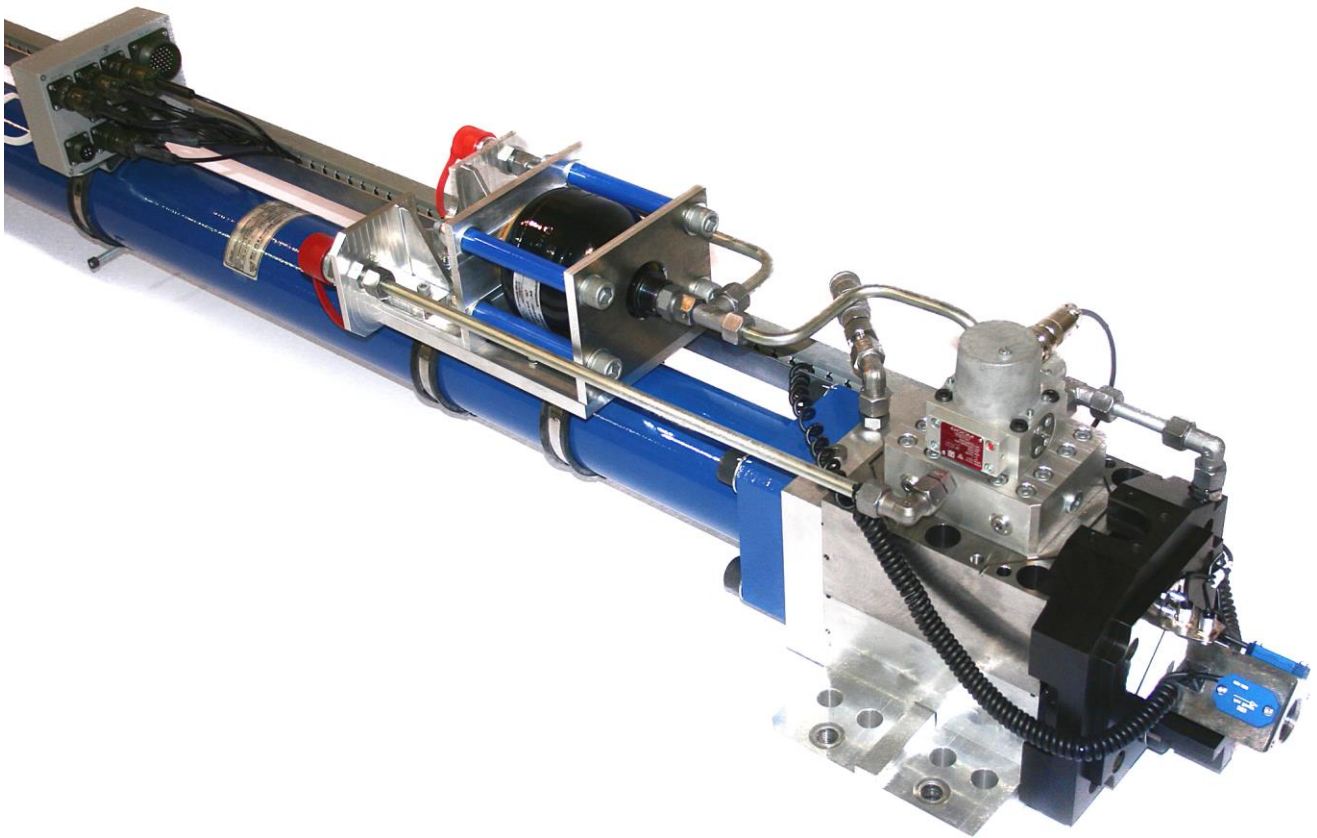


Intrusion Cylinder



- Controlled intrusion pulse
- Full loop control
- High dynamic for crash pulses
- Modular system
- Pneumatic Actuator
- Hydraulic controlled

What it is

The DSD Intrusion Cylinder is a high performance crash-simulation actuator. It gives you the possibility perform closed loop controlled crash loads on different test objects with accelerations up to 200g and forces up to 180 kN!

The **Intrusion Cylinder** can be shot static or dynamically together with a sled. Running a controlled intrusion pulse allows a much more detailed view on the crash phenomenon without causing high costs.

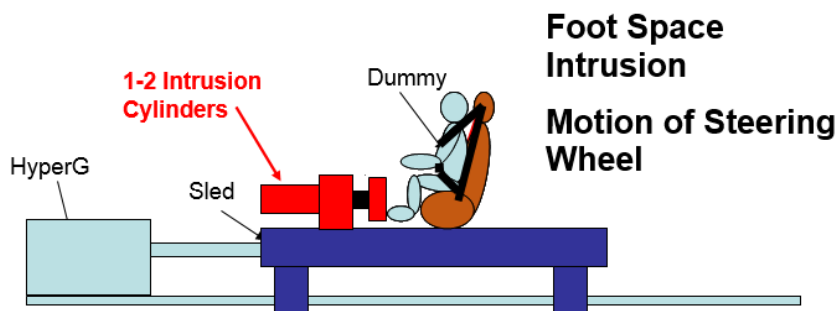
DSD provides several sizes:

According to customer's need DSD provides several sizes of the intrusion cylinder. Depending on the number of brake-blocks used the force of a cylinder is from 60 to 180 kN.



How it works

Air pressure up to 200 bar in a cylinder is accelerating a stable ram. The acceleration of the ram is modulated by hydraulic brakes that are controlled by an ultra fast valve. Therefore acceleration, speed and way are controlled very precisely!



Facts

Number of cylinders	up to 8 – only 1 is needed for CRS-testing
Standard force/cylinder	60, 120, 180 kN
Max. acceleration	150g
Standard stroke	on sled: 400mm, static version: 600mm
Min. distance between two intrusion areas	225mm