

Hydraulic programmable sled deceleration system to non-destructively reproduce complex crash pulses.

- Performs all standard component tests as well as complex crash pulses
- Initial peak prevention
- Excellent reproduction of both the deceleration pulse and velocity curve
- High accuracy
- Can be integrated into existing crash facility



Child Seat Tests	Seat Belt Tests	Battery Tests
<ul style="list-style-type: none"> <li>▪ ECE R44</li> <li>▪ ECE R129</li> <li>▪ FMVSS 213</li> <li>▪ ADAC frontal and side impact</li> </ul>	<ul style="list-style-type: none"> <li>▪ ECE R16</li> <li>▪ AK-LV106</li> <li>▪ FMVSS 208</li> </ul>	<ul style="list-style-type: none"> <li>▪ ECE R100</li> <li>▪ GB/T 31467.3-2015</li> </ul>
Seat Tests	Rear Impact Tests	Other Applications
<ul style="list-style-type: none"> <li>▪ ECE R80</li> <li>▪ ECE R17</li> <li>▪ FAR 25.562 (aircraft seat tests)</li> </ul>	<ul style="list-style-type: none"> <li>▪ FMVSS 202a</li> <li>▪ IIHS RCAR-IIWPG</li> </ul>	<ul style="list-style-type: none"> <li>▪ DIN ISO 27955 (securing of cargo)</li> </ul>

Table 1: HydroBrake pulses, application examples (individual vehicle pulses on request)

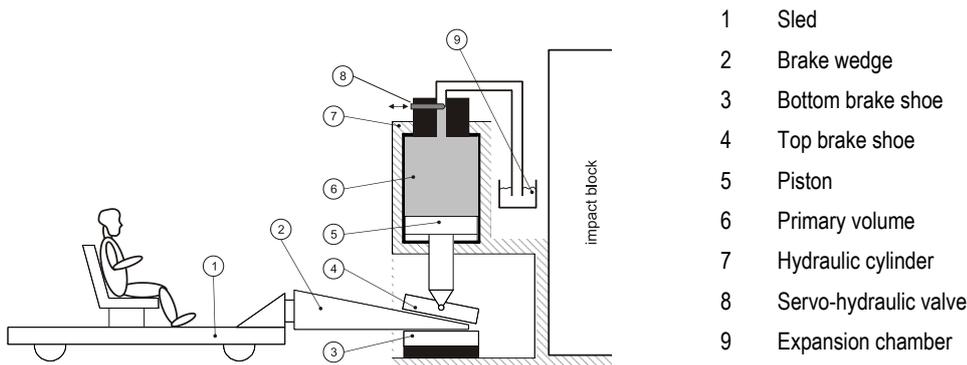


Figure 1: Schematic side view

**TECHNICAL SPECIFICATIONS**

Max. braking force	2 MN / 3.2 MN
Max. speed	80 km/h
Max. deceleration examples	110 G @ 500 kg payload and 2 MN 95 G @ 2,000 kg payload and 3.2 MN
Pulse control	Servo valve
Power supply	11 kVA, 380...480 VAC, 50/60 Hz, CEE 32 A (2 MN) 15 kVA, 380...480 VAC, 50/60 Hz, CEE 32 A (3.2 MN)
Max. jerk	15 G/ms
Max. braking distance	1,800 mm
Typical speed deviation for Hydrobrake pulses (see table 1)	± 0.5 km/h
Typical acceleration deviation for Hydrobrake pulses (see table 1)	± 1 G RMS (CFC60, 0...30 G)
Time span between two tests	< 10 min
Dimensions (L x W x H)	1,173 mm x 2,250 mm x 1,902 mm (2 MN) 1,160 mm x 2,500 mm x 2,053 mm (3.2 MN)
Weight	3,943 kg (2 MN) 5,541 kg (3.2 MN)

- Scope of supply**
- HydroBrake
  - Safety guard
  - Crashsoft control software

- Options**
- Impact wedge
  - Universal test sled
  - Maintenance services