

Hydrobrake

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

- | Allows pre-crash braking tests
- | Performs all standard component tests as well as complex crash pulses
- | Initial peak prevention
- | Excellent reproduction of both the deceleration pulse and velocity curve
- | Can be integrated into existing crash facility
- | Suitable for pitch, yaw and roll testing



Child Seat Tests	Seat Belt Tests	Battery Tests
ECE R44	ECE R16	ECE R100
ECE R129	AK-LV106	GB/T 31467.3-2015
FMVSS 213	FMVSS 208	
ADAC child seat test pulse		
Seat Tests	Rear Impact Tests	Other Applications
ECE R80	FMVSS 202a	DIN ISO 27955 (securing of cargo)
ECE R17	IIHS RCAR-IIWPG	
FAR 25.562 (aircraft seat tests)		

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

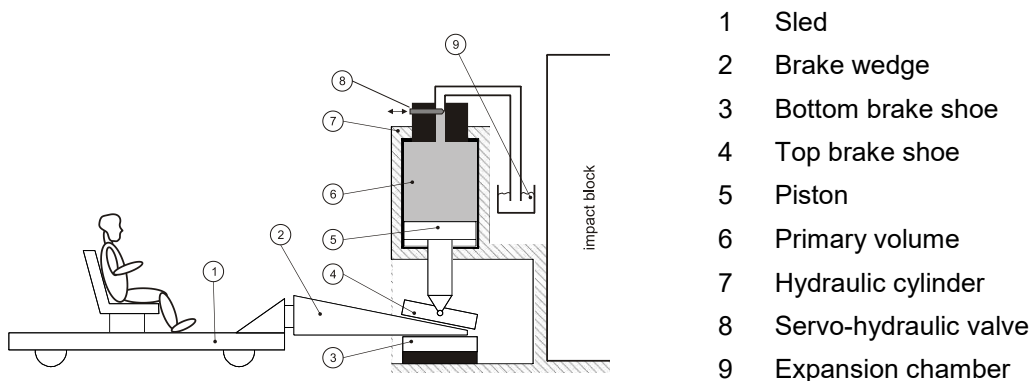


Figure 1: Schematic side view

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

Optional equipment | Impact wedge
| Universal test sled
| Maintenance services