

MicroTrack rail guided pre-crash deceleration system for realistic occupant and vehicle data analysis. Supports drive system brakes. Mounted behind vehicle or sled to provide exact braking maneuvers.

- Programmable brake profiles for realistic and gradual deceleration
- On-board control unit connected via trailing cable
- Servo-controlled
- Shockproof



Figure 1: M=Brake trolley with guard cover

- 1 Kink protection for trailing cables
- 2 Trailing cable holder
- 3 M=DRIVE, battery unit optional
- 4, 5, 6 Coupling unit
- 7 Hydraulic unit
- 8 Front end
- 9 Brake cable cars

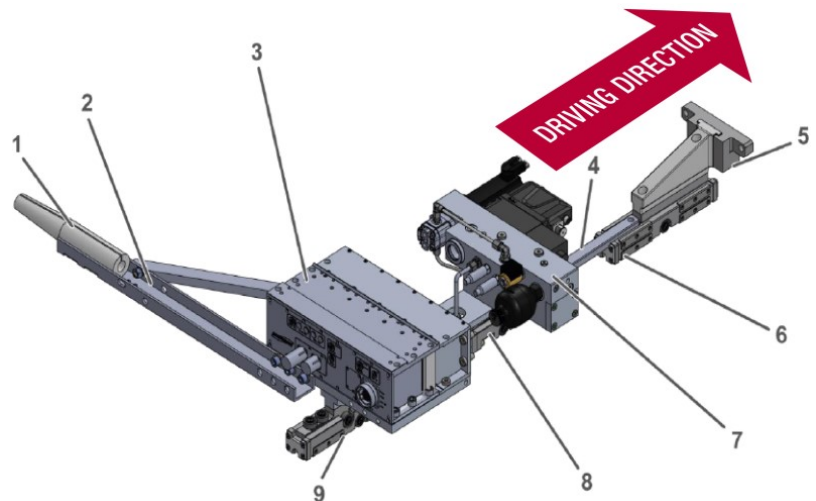


Figure 2: M=BRAKE main components

TECHNICAL SPECIFICATIONS

Max. braking force	45 kN
Max. braking pressure	150 bar
Brake pistons	16
Max. speed	100 km/h
Min. recommended track length	150 m, MicroTrack
Payload example	5,200 kg @ 0.8 G
Deceleration example 1	0.6 G from 100 km/h to 64 km/h
Deceleration example 2	Step 1
	Step 2
	Step 3
Power supply for trailing cable cabinet	10 kVA, 380...480 VAC, 50/60 Hz
Trigger	PLC via trailing cable

Mass	85 kg
Dimensions above rail (L x W x H)	1,220 mm x 1,230 mm x 175 mm
Total length (Figure 2)	1,260 mm
Example operation with 2 extension rods:	
Approximate distance to test object	2,320 mm (depending on film pit dimension)
Total length (in rail)	3,420 mm

- Scope of supply**
- M=BRAKE trolley
 - Trailing cable including cabinet
 - Installation and training

- Required equipment**
- Sled coupler or vehicle coupler

- Options**
- Extension rods
 - Onboard UPS
 - Universal test sled
 - MESSRING maintenance service
 - Battery unit for M=DRIVE