

Restraint system that allows the controlled stop of a moving barrier. Designed for second impact avoidance of heavy moving barriers travelling with high test speeds like the NHTSA OMDB.

- Maximum operating safety – minimized risk of injury and damage
- Second impact avoidance and controlled emergency stops
- Mechanical operating principle – no complex programming or facility integration necessary
- Easy handling – compact onboard system
- Adjustable braking force of up to 35 kN

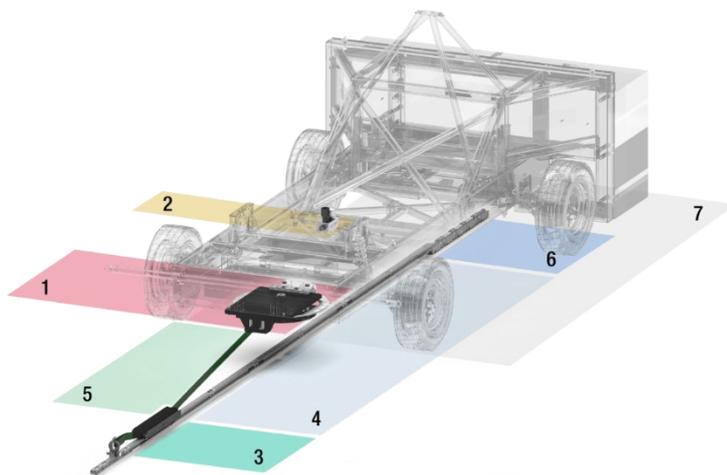
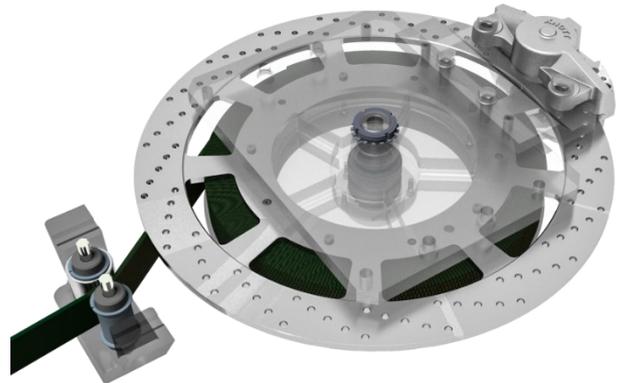


Figure 1: Main components barrier restrainer

Barrier Restrainer

- 1 Hydraulic disc brake
- 2 Brake control unit
- 3 Rear trolley
- 4 Push rod
- 5 Synthetic belt

Facility requirements

- 6 MicroTrack main trolley
- 7 Moving barrier

TECHNICAL SPECIFICATIONS

Barrier Restrainer	
Max. braking force	35 kN
Typical free-run time post impact	300 ms
Weight (hydraulic disc brake and brake control unit)	131 kg
Dimensions hydraulic disc brake (L x W x H)	731 mm x 690 mm x 209 mm
Dimensions brake control unit (L x W x H)	167 mm x 60 mm x 96 mm
Length (push rod and rear trolley)	6,200 mm
Max. test speed	90 km/h
Max. weight of barrier	2,500 kg
Facility Requirements	
Track and propulsion system	MESSRING MicroTrack rail system and MESSRING propulsion system (others on request)

Scope of supply ▪ Barrier restrainer

Options ▪ NHTSA OMDB Moving Barrier
 ▪ Synthetic belts
 ▪ Hand pump for charging hydraulic brake system