

Designed to reproduce various types of embankment rollover crash tests with a customizable length of embankment ramp.

- Adjustable ramp angle from 30° to 50° in steps of 5°
- Height adjustable sled platform
- Precise guidance of sled and uncoupling of test vehicle
- Restraint system for test vehicles – safely keeps the vehicle onboard the test sled during an emergency stop



Figure 1: Embankment Rollover

- 1 Height adjustable sled
- 2 Crush tube brake system
- 3 Embankment Rollover Ramp

TECHNICAL SPECIFICATIONS

Test Vehicle

Max. speed	50 km/h
Max. weight	3,500 kg
Max. center of gravity height	1,200 mm

Embankment Rollover Sled

Weight	3,109 kg
Dimensions (L x W x H)	5,559 mm x 4,080 mm x 2,565 mm
Sled platform dimensions (L x W)	4,300 mm x 2,450 mm

Sled platform height	596...2,500 mm
Power supply	110/230 VAC (additional options on request)
Embankment Rollover Ramp	
Dimensions (L x W x H)	26,365 mm x 7,248 mm x 3,105 mm
Ramp angle	30...50° (in 5° steps)
Drive-up angle between ramp and sled (primary segment)	15°
Surface friction	$\mu \geq 1.2$
Number of primary segments	1
Number of middle segments	9
Number of final segments	1
Dimensions primary segment (L x W x H)	1,204 mm x 2,758 mm x 2,505 mm
Dimensions middle segment (L x W x H)	2,235 mm x (7,299...7,550) mm x 3,105 mm
Dimensions final segment (L x W x H)	2,811 mm x (6,714...7,217) mm x 3,100 mm
Weight primary segment	550 kg
Weight middle segment	2,940 kg
Weight final segment	7,250 kg
Crush Tube Brake System	
Number of brake units	2 (1 per side)
Max. number of crush tubes per unit	8
Max. brake force per unit	500 kN
Weight per unit	244 kg (without tubes)
Dimensions per unit (L x W x H)	1,260 mm x 470 mm x 293 mm

Scope of supply

- Embankment Rollover Sled
- Embankment Rollover Ramp
- Crush tube brake system (including one set of crush tubes)
- Vehicle restraint system

Options

- Steering control
- Additional ramp segments
- Floor anchors for installation of ramp and brake system
- Maintenance service