

Figure1: Mobile "Revolver" impact block

- **Mobile for car-to-car tests**
- **Automatic guidance**
- **Short preparation times**
- **Noncritical even on uneven ground**
- **Total mass $\geq 90,000$ kg**
- **4 points fixed to the foundation**
- **Four hydraulic undercarriages**

Introduction

As a result of its hydraulic undercarriage system and heavy-duty wheels, the mobile block requires a floor with a lot lower quality in terms of flatness than models based on air cushions. The remote control, the operating programmes available and the integrated hydraulic drive system make it easy and quick to move and turn the block. The block is connected to the actual foundation at its four corners and for high crash loads it can also be actively braced with it.

Mobile Revolver Block - Type 2-EB-A



- Freely movable in defined areas
- Capacity 3.2 MN at 600 mm / 2.5 MN at 800 mm
- Automatic drive programmes to the crash position
- All four sides can be used as impact surfaces
- Turns through 360° in less than 10 minutes
- Climbing power 1 %
- Total mass $\geq 90,000$ kg
- Attached to the foundation at four points
- Four hydraulic undercarriages with two heavy-duty wheels each
- Noncritical even on uneven surfaces or floor fixtures (rail tracks!)

Figure2: Revolver block

The mobile revolver block has an intelligent, electronically monitored steering system, which, in conjunction with induction loops fitted into the floor, ensures simple and safe movement of the block. It can therefore be guided almost automatically from any position in its movement range to the crash position. Its four impact plates and its ability to rotate on the spot mean that preparation times for different test configurations can be reduced considerably.

Examples of positions of the revolver block

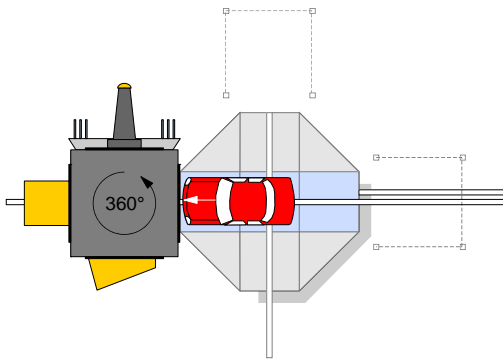


Figure 3: Revolver block in crash position for angular systems

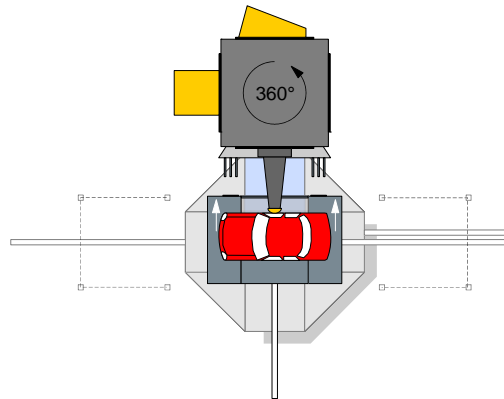


Figure 4: Revolver block in crash position for pole impact tests

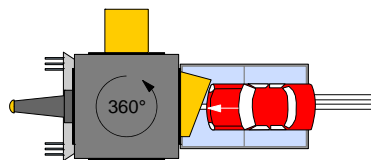


Figure 5: Revolver block in crash position for rectangular film pits

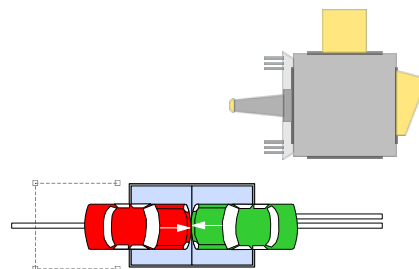


Figure 6: Revolver block in any parking position for e.g. rectangular film pits

Technical Specifications

Block dimensions	approx. 4.9 m x 4.9 m x 2.5 m
Max. application of force (impact height 600/800mm)	2.5/3.2 MN
Number of undercarriages	4
Number of hoist cylinders	4
Number of steering cylinders	4
Number of steering programmes	7
Number of heavy-duty wheels (controlled and steered in pairs)	8
Driven wheels	4
Positioning accuracy	±10 mm
Movement speed	0.01...0.1 m/s (continuously variable)
Climbing power	1%
Number of impact plates	4 (2,500 x 3,500 mm)
Braking distance	50 mm
Lifting height	120 mm
Block mass (without fittings)	approx. 90,000kg

Attachment Barriers



Figure 7: Offset barrier



Figure 8: Pole barrier



Figure 9: 30° barrier



Figure 10: offset barrier extension

Mobile Concrete Impact Block - Type 2-EB-B



Figure 11: Revolver block

- Can be moved sideways
- Integrated drive
- Block chassis with hydraulic undercarriages
- Noncritical for uneven floors
- Total mass $\geq 90,000$ kg
- Attached to the foundation at four points

The mobile revolver block has an intelligent, electronically monitored steering system, which, in conjunction with induction loops fitted into the floor, ensures simple and safe movement of the block. It can therefore be guided almost automatically from any position in its movement range to the crash position. Its four impact plates and its ability to rotate on the spot mean that preparation times for different test configurations can be reduced considerably.

Examples of positions of the revolver block

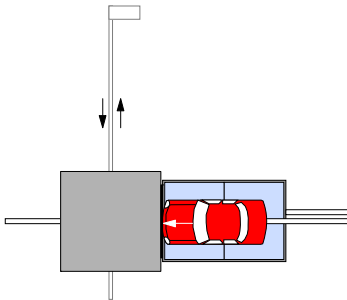


Figure 12: Mobile block in crash position

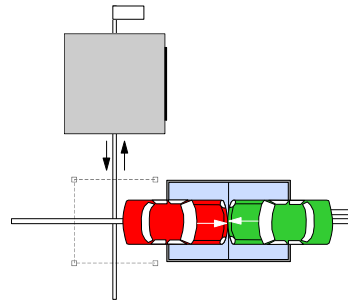


Figure 13: Mobile block in park position

Technical Specifications

Block dimensions	approx. 4.4 m x 4.8 m x 2.4 m
Max. application of force (impact height 800mm)	2.2 MN
Number of undercarriages	4
Number of hoist cylinders	16
Number of heavy-duty wheels	48
Positioning accuracy	± 10 mm
Number of impact plates	1 (4,000 x 2,000 mm)
Braking distance	50 mm
Lifting height	100 mm
Block mass	approx. 90,000 kg