

Retrofit ASC-Launcher (FMVSS 201)

- Smallest & most flexible FMVSS 201 Launcher worldwide
- Best in class accuracy with high speed closed loop control
- No pretest required for speed adjustment & low operating cost (\$ 1/launch)
- No hydraulics mean minimum maintenance cost & downtime
- Compatible with most test systems: BIA, ARIES, MTS, MGA, ...

Launcher Retrofit (FMVSS 201)

System Description

Retrofit your existing test equipment with a *Microsys* ASC FMVSS 201 launcher:

Many of the existing FMVSS 201 test systems in automotive test labs are no longer state of the art. Although in many cases the existing impactor test system structure is still in good shape, the existing launchers do not have the required accuracy or the ability to perform testing in small vehicles.

The *Microsys* Advanced Speed Control (ASC) FMVSS 201 launcher can now be installed as stand alone launcher to replace the old or lower performance launchers from BIA, ARIES, MTS, MGA, Ernst and others. The retrofit can easily be installed, even if the old launcher has hydraulic propulsion.

The *Microsys* ASC launcher comes with a control system and software to select the required speed at impact and to start the launch process. The global movement of the test system is still performed done by the existing structure and software.

The standalone launcher is screwed to the existing equipment arm. A customized extension of the arm can be used to improve the performance of the system inside small test vehicles.

The launcher is equipped with ASC closed loop control and has all benefits of the *Microsys* ASC launchers:

- No pretest required for speed adjustment
- Repeatability of speed at the impact ± 0.1 km/h
- Smallest FMVSS 201 launcher worldwide for efficient test inside the vehicle

Basic System Specification

- Work and Control Medium: Technical Nitrogen N2
- Supply Pressure N2: up to 16 bar
- Control System: B&R
- Required Power Supply: 3-phase AC 2,5 kW

System Performance

- Speed at impact: 18-25 km/h
- Accuracy of speed at the impact: ± 0.2 km/h
- Repeatability of speed at the impact: ± 0.1 km/h
- Accuracy of impact location: ± 5.0 mm

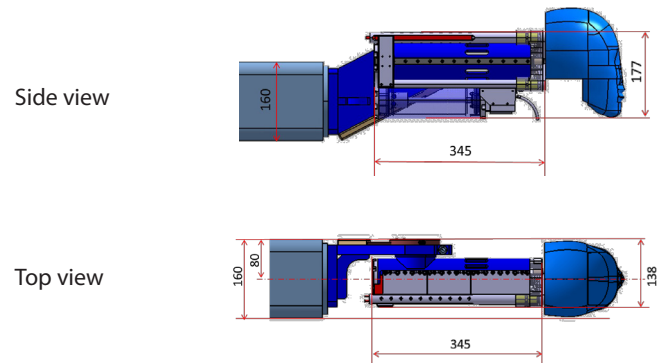
Load Cases



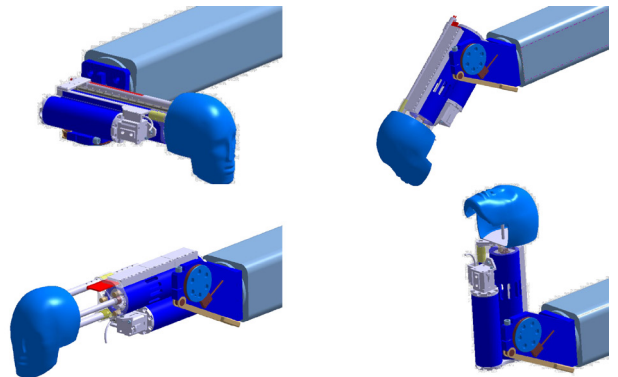
Free Motion Headform

- FMVSS 201 u/TP 201U

Basic System Dimensions



Most flexible FMVSS 201 Launcher



Control System & Data Analysis

Like all *Microsys* products, the ASC FMVSS 201 launcher is controlled by the *Microsys* SureFire software. SureFire provides a common test platform for *Microsys* impactor and airbag testing, which reduces the time and cost for training of technical personal. The *Microsys* PowerPlay software is a powerful data analysis and data processing tool. It can be used for post processing and automated reporting. DIADEM can be optionally included.

SureFire can also be configured to manage high speed cameras and lighting, as well to provide data acquisition and facility safety management.

Certified Quality

The *Microsys* test system is certified by TÜV and will be delivered with the CE mark. The ASC FMVSS 201 launcher is used by many OEM's for conformity of production testing, for vehicle engineering, self-certification and type approval.