

Safety systems

AMF-BRUNS PROTEKTOR 2.0

Occupant & Wheelchair Restraint System according to ISO 10542



reddot winner 2020



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PROTEKTOR 2.0

Occupant & Wheelchair Restraint System

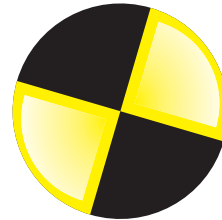
In the 1970s, AMF-Bruns was the first manufacturer in the world to develop a retractor 4-point safety system. Other suppliers followed this example only 20 years later. In the meantime, the AMF-Bruns PROTEKTOR system has become the international standard for securing wheelchairs and their occupants in vehicles.

AMF-Bruns' high standards are complemented by dedicated work in national and international standards committees. Close cooperation with institutions including TÜV, the Federal Highway Research Institute (BAST), the Dynamic Test Center (Switzerland) and the Union Technique de l'Automobile, du Motorcycle et du Cycle (France) ensures constant improvement and control of the PROTEKTOR systems. In the company's own test centre, further developments are constantly being driven forward.

The PROTEKTOR system is easy, fast and safe to use and one of the best systems on the market.



In parallel with this development, AMF-Bruns has been permanently testing the PROTEKTOR system according to worldwide standards since the 1970s. In all tests, the safety results of the PROTEKTOR system always exceeded the required safety standards. Even in the case of heavy electric wheelchairs, the



PROTEKTOR restraint system ensures maximum safety. Dynamic crash tests at a speed of 50 km/h and an acceleration of 20 g, numerous static test series as well as practical driving tests with wheelchairs and dummies prove this repeatedly.

STABDARDS

The AMF-Bruns PROTEKTOR System complies with the following national and international standards: ISO 10542-1, DIN 75078-2, CSA Z 605, FMVSS/CMVSS, AS 2596, SAE J 2249, 2001/85/EC

PROTEKTOR 2.0 - THE NEW GENERATION

PROTEKTOR 2.0 is the new generation of the proven occupant and wheelchair restraint system and sets new standards in safety, design and functionality! The retractors convince with a compact, flat design and improved control elements.

SAFE DIVERSITY

The PROTEKTOR 2.0 occupant and wheelchair restraint system offers a wide range of variants:

4 stud fitting or mono fitting are used for anchoring to the floor. The wheelchair is attached using a loop, hook or carabiner.

It is compatible with all wheelchairs and vehicles and is ideal for use with wheelchairs with an integrated lap belt.

Regardless of which variant you choose - BlackSeries, SilverSeries or PlatinumSeries - the PROTEKTOR 2.0 system offers proven safety according to ISO 10542 and DIN 75078.

The PlatinumSeries from AMF-Bruns additionally meets the requirements of DIN 75078-2 and is suitable for applications up to a total weight of 160 kg.

The BlackSeries is the lightweight amongst the retractor systems. It features a robust, black ABS housing and an easy-to-use semi-automatic pull-out.



SPECIFICATION

- Durable and lightweight ABS housing
- Semi-automatic pull-out
- Rotary knob for retensioning the belt without effort
- Easy, intuitive operation
- Robust construction and compact design
- Wheelchair attachment with loop, hook or carabiner
- Floor anchorage with 4 stud fitting or mono fitting
- Retraktor system includes:
 - 4x retractor belt + 1x pelvic belt (Pro 4) or
 - 2x retractor belt + 2x static belt + 1x pelvic belt (Pro 2)

The high-quality housing of the SilverSeries restraints is made of die-cast zinc - a material that makes the retractors particularly robust and which has proven itself in daily use in vehicles.



SPECIFICATION

- Particularly high-quality and robust die-cast zinc housing
- Fully automatic pull-out
- Self-tensioning
- Rotary knob for retensioning the belt without effort
- Easy, intuitive operation
- Robust construction and compact design
- Wheelchair attachment with loop, hook or carabiner
- Floor anchorage with 4 stud fitting or mono fitting
- Retraktor system includes:
 - 4x retractor belt + 1x pelvic belt (Pro 4) or
 - 2x retractor belt + 2x static belt + 1x pelvic belt (Pro 2)

WHEELCHAIR ADAPTER SYSTEM PROSAFE

The wheelchair adapter system ProSafe is a specially developed safety system for securing wheelchairs and occupants in a WAV (= wheelchair accessible vehicle). The AMF-Bruns ProSafe adapter system guarantees quick and error-free attachment of the wheelchair to the vehicle floor.



BENEFITS OF THE ADAPTER SYSTEM

- » Fast and error-free attachment (4 clearly defined points)
- » Safe use and optimal guidance of the integrated lap belt (prevention of serious injuries)
- » Compatible with shoulder belt
- » AMF-Bruns is the only manufacturer of the wheelchair adapter system with integrated lap belt
- » Individually adapted to wheelchair

Note: Since 2020, the adapters have only been installed with heavy-duty eyelets.

PLATINUMSERIES

Weight increases due to electric wheelchairs and wheelchair users require a wheelchair restraint system that can withstand higher loads. AMF-Bruns developed the new PROTEKTOR 2.0 PlatinumSeries after intensive crash tests indicated the need for more durable and robust retractors. The PlatinumSeries is a heavy-duty 4-point securement system for wheelchairs and their occupants, suitable for a total weight of up to 160 kg – creating a new level of safety!



SPECIFICATION

- 4-point securement system for use up to a total weight of 160 kg
- Robust construction and compact design
- Rotary knob for retensioning the belt without effort
- Easy, intuitive operation
- Wheelchair attachment with loop, hook or carabiner
- Floor anchorage with 4 stud fitting or mono fitting
- Retractor system includes: 4x retractor belt + 1x pelvic belt
- PlatinumSeries is compatible with all wheelchairs and vehicles



PLATINUMSERIES **BLACK**

with semi-automatic pull-out and robust ABS housing



PLATINUMSERIES **SILVER**

with automatic pull-out and high-quality die-cast zinc housing



+ Tomorrow's safety today!

FUTURE**SAFE** Head & Backrest

FutureSafe is a safe, space-saving and comfortable patented safety system, which is flexibly customizable and comes with an integrated shoulder belt for the wheelchair occupant.

PROTEKTOR 2.0 Occupant & Wheelchair Restraint System

The occupant & wheelchair restraint system from AMF-Bruns meets DIN 75078-2 and ISO 10542

PRO**SAFE** 'Kraftknotenadapter' Integrated Lap Belt

With the 'Kraftknotenadapter' system the wheelchair is quickly and precisely fitted to the vehicle's floor. It comes with a pelvic belt for the wheelchair occupant.



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