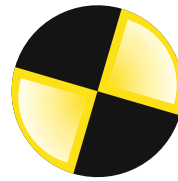LAP BELT
CONNECTOR

reddot winner 2020

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 Motocycle 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.

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.

STANDARDS

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 floor anchorage offers 4 stud fitting and mono fitting. The wheelchair attachment can be connected via loop, hook or carabiner. The AMF-Bruns PROTEKTOR system is easy, fast and safe to use and one of the best systems on the market. 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.

Tomorrow's **safety** today!

BLACKSERIES

The BlackSeries is tested according to ISO 10542 and is the lightweight amongst the retractor systems. It features a robust, black ABS housing and an easy-to-use semi-automatic pull-out.

LAP BELT
CONNECTOR

reddot winner 2020

BLACKSERIES

Wheelchair Restraint Systems with Loop

4 STUD FITTING / FLEXIBLE

PROTEKTOR® 2.0 System **Pro 2 B LV**
with loop and 4 stud fitting, flexible

- 2x retractor belt LV
- 2x static belt LV
- 1x pelvis belt

Item No. H 450 502 LV

PROTEKTOR® 2.0 System **Pro 4 B LV**
with loop and 4 stud fitting, flexible

- 4x retractor belt LV
- 1x pelvis belt

Item No. H 450 504 LV

MONO FITTING

PROTEKTOR® 2.0 System **Pro 2 B LM**
with loop and mono fitting

- 2x retractor belt LM
- 2x static belt LM
- 1x pelvis belt

Item No. H 450 502 LM

PROTEKTOR® 2.0 System **Pro 4 B LM**
with loop and mono fitting

- 4x retractor belt LM
- 1x pelvis belt

Item No. H 450 504 LM

GENERAL NOTE!
Static belts are only permitted for front attachment.

Tomorrow's
safety today!

Wheelchair Restraint Systems with Hook

4 STUD FITTING / FLEXIBLE

PROTEKTOR® 2.0 System **Pro 2 B HV**
with hook and 4 stud fitting, flexible

- 2x retractor belt HV
- 2x static belt HV
- 1x pelvis belt

Item No. H 450 522 HV

PROTEKTOR® 2.0 System **Pro 4 B HV**
with hook and 4 stud fitting, flexible

- 4x retractor belt HV
- 1x pelvis belt

Item No. H 450 524 HV

MONO FITTING

PROTEKTOR® 2.0 System **Pro 2 B HM**
with hook and mono fitting

- 2x retractor belt HM
- 2x static belt HM
- 1x pelvis belt

Item No. H 450 522 HM

PROTEKTOR® 2.0 System **Pro 4 B HM**
with hook and mono fitting

- 4x retractor belt HM
- 1x pelvis belt

Item No. H 450 524 HM

BLACKSERIES

Wheelchair Restraint Systems with Carabiner

4 STUD FITTING / FLEXIBLE

PROTEKTOR® 2.0 System **Pro 2 B CV**
with carabiner and 4 stud fitting, flexible

- 2x retractor belt CV
- 2x static belt CV
- 1x pelvis belt

Item No. H 450 552 CV

PROTEKTOR® 2.0 System **Pro 4 B CV**
with carabiner and 4 stud fitting, flexible

- 4x retractor belt CV
- 1x pelvis belt

Item No. H 450 554 CV

MONO FITTING

PROTEKTOR® 2.0 System **Pro 2 B CM**
with carabiner and mono fitting

- 2x retractor belt CM
- 2x static belt CM
- 1x pelvis belt

Item No. H 450 552 CM

PROTEKTOR® 2.0 System **Pro 4 B CM**
with carabiner and mono fitting

- 4x retractor belt CM
- 1x pelvis belt

Item No. H 450 554 CM

Tomorrow's **safety** today!

Retractors

RETRACTORS WITH LOOP

Retractor B LV
with loop and
4 stud fitting, flexible

Item No. H 450 509 LV

Retractor B LM
with loop and
mono fitting

Item No. H 450 509 LM

RETRACTORS WITH HOOK

Retractor B HV
with hook and
4 stud fitting, flexible

Item No. H 450 534 HV

Retractor B HM
with hook and
mono fitting

Item No. H 450 534 HM

RETRACTORS WITH CARABINER

Retractor B CV
with carabiner and
4 stud fitting, flexible

Item No. H 450 564 CV

Retractor B CM
with carabiner and
mono fitting

Item No. H 450 564 CM

PROTEKTOR® 2.0

Static Belts

STATIC BELT WITH 4 STUD FITTING

Static Belt LV
with loop and
4 stud fitting
(front attachment)

Item No. H 450 510 LV

Static Belt HV
with hook and
4 stud fitting
(front attachment)

Item No. H 450 535 HV

Static Belt CV
with carabiner and
4 stud fitting
(front attachment)

Item No. H 450 565 CV

STATIC BELT WITH MONO FITTING

Static Belt LM
with loop and
mono fitting
(front attachment)

Item No. H 450 510 LM

Static Belt HM
with hook and
mono fitting
(front attachment)

Item No. H 450 535 HM

Static Belt CM
with carabiner and
mono fitting
(front attachment)

Item No. H 450 565 CM

Tomorrow's **safety** today!

BELT SYSTEMS

Electric Belt L
with loop
Length: 3.6 m
(front attachment)

Item No. H 450 240 L

Electric Belt H
with hook
Length: 3.6 m
(front attachment)

Item No. H 450 240 H

Electric Belt C
with carabiner
Length: 3.6 m
(front attachment)

Item No. H 450 240 C

HOUSING

Top Cover (ABS)
for electric belt
(front attachment)

Item No. H 350 632

Bottom Cover (ABS)
for electric belt
(front attachment)

Item No. H 350 633

Housing (ABS)
for electric belt,
top and bottom cover
(front attachment)

Item No. H 350 634

Zinc Die-Cast Housing
for electric belt,
top and bottom cover
(front attachment)

Item No. H 350 257

1
2
3
4
5
6
7
8
9
10
11
12
13

SILVERSERIES

The ISO 10542 tested SilverSeries has an automatic
pull-out. The high-quality zinc die-cast housing is
particularly robust and suitable for daily use in the
vehicle.

reddot winner 2020

SILVERSERIES

Wheelchair Restraint Systems with Loop

4 STUD FITTING / FLEXIBLE

PROTEKTOR® 2.0 System **Pro 2 S LV**
with loop and 4 stud fitting, flexible

- 2x retractor belt LV
- 2x static belt LV
- 1x pelvis belt

Item No. H 450 501 LV

PROTEKTOR® 2.0 System **Pro 4 S LV**
with loop and 4 stud fitting, flexible

- 4x retractor belt LV
- 1x pelvis belt

Item No. H 450 503 LV

MONO FITTING

PROTEKTOR® 2.0 System **Pro 2 S LM**
with loop and mono fitting

- 2x retractor belt LM
- 2x static belt LM
- 1x pelvis belt

Item No. H 450 501 LM

PROTEKTOR® 2.0 System **Pro 4 S LM**
with loop and mono fitting

- 4x retractor belt LM
- 1x pelvis belt

Item No. H 450 503 LM

GENERAL NOTE!
Static belts are only permitted for front attachment.

Tomorrow's **safety** today!

Wheelchair Restraint Systems with Hook

4 STUD FITTING / FLEXIBLE

PROTEKTOR® 2.0 System **Pro 2 S HV**
with hook and 4 stud fitting, flexible

- 2x retractor belt HV
- 2x static belt HV
- 1x pelvis belt

Item No. H 450 520 HV

PROTEKTOR® 2.0 System **Pro 4 S HV**
with hook and 4 stud fitting, flexible

- 4x retractor belt HV
- 1x pelvis belt

Item No. H 450 525 HV

MONO FITTING

PROTEKTOR® 2.0 System **Pro 2 S HM**
with hook and mono fitting

- 2x retractor belt HM
- 2x static belt HM
- 1x pelvis belt

Item No. H 450 520 HM

PROTEKTOR® 2.0 System **Pro 4 S HM**
with hook and mono fitting

- 4x retractor belt HM
- 1x pelvis belt

Item No. H 450 525 HM

SILVERSERIES

Wheelchair Restraint Systems with Carabiner

4 STUD FITTING / FLEXIBLE

PROTEKTOR® 2.0 System **Pro 2 S CV**
with carabiner and 4 stud fitting, flexible

- 2x retractor belt CV
- 2x static belt CV
- 1x pelvis belt

Item No. H 450 550 CV

PROTEKTOR® 2.0 System **Pro 4 S CV**
with carabiner and 4 stud fitting, flexible

- 4x retractor belt CV
- 1x pelvis belt

Item No. H 450 555 CV

MONO FITTING

PROTEKTOR® 2.0 System **Pro 2 S CM**
with carabiner and mono fitting

- 2x retractor belt CM
- 2x static belt CM
- 1x pelvis belt

Item No. H 450 550 CM

PROTEKTOR® 2.0 System **Pro 4 S CM**
with carabiner and mono fitting

- 4x retractor belt CM
- 1x pelvis belt

Item No. H 450 555 CM

Tomorrow's
safety today!

Retractors

RETRACTORS WITH LOOP

Retractor S LV
with loop and
4 stud fitting, flexible

Item No. H 450 505 LV

Retractor S LM
with loop and
mono fitting

Item No. H 450 505 LM

RETRACTORS WITH HOOK

Retractor S HV
with hook and
4 stud fitting, flexible

Item No. H 450 530 HV

Retractor S HM
with hook and
mono fitting

Item No. H 450 530 HM

RETRACTORS WITH CARABINER

Retractor S CV
with carabiner and
4 stud fitting, flexible

Item No. H 450 560 CV

Retractor S CM
with carabiner and
mono fitting

Item No. H 450 560 CM

PROTEKTOR® 2.0

Static Belts

STATIC BELT WITH 4 STUD FITTING

Static Belt LV
with loop and
4 stud fitting
(front attachment)

Item No. H 450 510 LV

Static Belt HV
with hook and
4 stud fitting
(front attachment)

Item No. H 450 535 HV

Static Belt CV
with carabiner and
4 stud fitting
(front attachment)

Item No. H 450 565 CV

STATIC BELT WITH MONO FITTING

Static Belt LM
with loop and
mono fitting
(front attachment)

Item No. H 450 510 LM

Static Belt HM
with hook and
mono fitting
(front attachment)

Item No. H 450 535 HM

Static Belt CM
with carabiner and
mono fitting
(front attachment)

Item No. H 450 565 CM

Tomorrow's
safety today!

BELT SYSTEMS

Electric Belt L
with loop
Length: 3.6 m
(front attachment)

Item No. H 450 240 L

Electric Belt H
with hook
Length: 3.6 m
(front attachment)

Item No. H 450 240 H

Electric Belt C
with carabiner
Length: 3.6 m
(front attachment)

Item No. H 450 240 C

HOUSING

Top Cover (ABS)
for electric belt
(front attachment)

Item No. H 350 632

Bottom Cover (ABS)
for electric belt
(front attachment)

Item No. H 350 633

Cover (ABS)
for electric belt,
top and bottom cover
(front attachment)

Item No. H 350 634

Zinc Die-Cast Cover
for electric belt,
top and bottom cover
(front attachment)

Item No. H 350 257

PLATINUM
SERIES·HD160

HEAVY DUTY
160 KG

LAP BELT CONNECTOR

LAP BELT CONNECTOR

reddot winner 2020

PLATINUMSERIES

Occupant & Wheelchair Restraint System

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 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!

THESE FACTS MAKE ALL THE DIFFERENCE

» 4-point securement system for use up to a total weight of 160 kg

» Robust construction and compact design

» Simple application and easy operation

» PlatinumSeries is compatible with all wheelchairs and vehicles

» Complies with ISO 10542, WC18 and DIN 75078-2 with integrated lap belt

» Ensures a safe connection between wheelchair and vehicle, even if the wheelchair deforms in an accident

PLATINUMSERIES *BLACK*

with semi-automatic pull-out
and robust ABS housing

PLATINUMSERIES *SILVER*

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

PLATINUMSERIES *BLACK*

Retractors

RETRACTORS WITH LOOP

Retractor PB LV
with loop and
4 stud fitting, flexible

Item No. H 450 809 LV

Retractor PB LM
with loop and
mono fitting

Item No. H 450 809 LM

RETRACTORS WITH HOOK

Retractor PB HV
with hook and
4 stud fitting, flexible

Item No. H 450 834 HV

Retractor PB HM
with hook and
mono fitting

Item No. H 450 834 HM

RETRACTORS WITH CARABINER

Retractor PB CV
with carabiner and
4 stud fitting, flexible

Item No. H 450 864 CV

Retractor PB CM
with carabiner and
mono fitting

Item No. H 450 864 CM

Tomorrow's
safety today!

Wheelchair Restraint Systems

4 STUD FITTING / FLEXIBLE

PROTEKTOR® 2.0 System **Pro 4 PB LV**
with loop and 4 stud fitting, flexible

- 4x retractor belt LV
- 1x pelvis belt

Item No. H 450 804 LV

PROTEKTOR® 2.0 System **Pro 4 PB HV**
with hook and 4 stud fitting, flexible

- 4x retractor belt HV
- 1x pelvis belt

Item No. H 450 824 HV

PROTEKTOR® 2.0 System **Pro 4 PB CV**
with carabiner and 4 stud fitting, flexible

- 4x retractor belt CV
- 1x pelvis belt

Item No. H 450 854 CV

PLATINUMSERIES *SILVER*

Retractors

RETRACTORS WITH LOOP

Retractor PS LV
with loop and
4 stud fitting, flexible

Item No. H 450 805 LV

Retractor PS LM
with loop and
mono fitting

Item No. H 450 805 LM

RETRACTORS WITH HOOK

Retractor PS HV
with hook and
4 stud fitting, flexible

Item No. H 450 830 HV

Retractor PS HM
with hook and
mono fitting

Item No. H 450 830 HM

RETRACTORS WITH CARABINER

Retractor PS CV
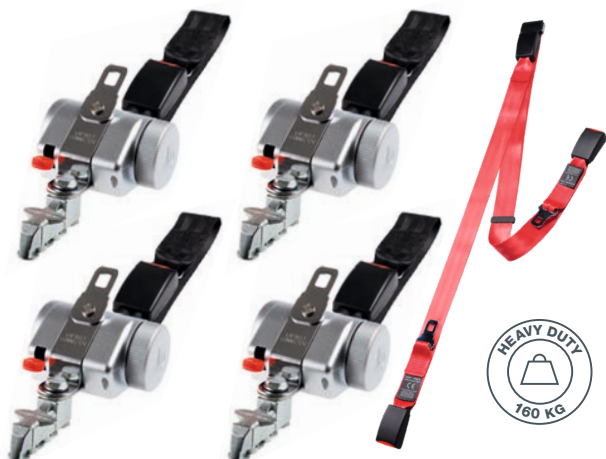with carabiner and
4 stud fitting, flexible

Item No. H 450 860 CV

Retractor PS CM
with carabiner and
mono fitting

Item No. H 450 860 CM

Tomorrow's **safety** today!

Wheelchair Restraint Systems

4 STUD FITTING / FLEXIBLE

PROTEKTOR® 2.0 System **Pro 4 PS LV**
with loop and 4 stud fitting, flexible
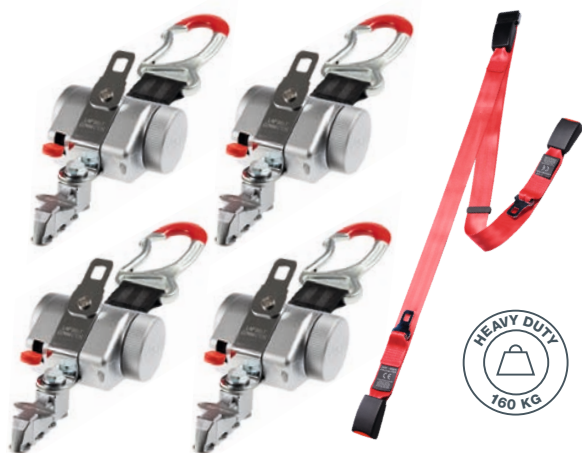
- 4x retractor belt LV
- 1x pelvis belt

Item No. H 450 803 LV

PROTEKTOR® 2.0 System **Pro 4 PS HV**
with hook and 4 stud fitting, flexible

- 4x retractor belt HV
- 1x pelvis belt

Item No. H 450 825 HV

PROTEKTOR® 2.0 System **Pro 4 PS CV**
with carabiner and 4 stud fitting, flexible

- 4x retractor belt CV
- 1x pelvis belt

Item No. H 450 855 CV

PROTEKTOR® 2.0

Occupant Restraint Systems

Pelvis Belt

Standard length
Item No. H 450 200

XL length
Item No. H 450 198

Automatic Pelvis Belt
with flexible buckle

Length: 300 mm
Item No. H 350 205

Automatic Pelvis Belt

Item No. H 350 207

Flexible Buckle

Length: 300 mm
Item No. H 350 210

Automatic Shoulder Belt
no height adjustment

Item No. H 450 225

Automatic Shoulder Belt
height adjustment

Item No. H 450 235

Automatic Shoulder Belt
no height adjustment with
2x 4 stud fitting

Item No. H 450 250

Automatic Shoulder Belt
height adjustment to the
rail with 2x 4 stud fitting

Item No. H 450 239

Static Shoulder Belt
with velcro fastener

Item No. H 350 226

Static Shoulder Belt
with buckle
two-part

Item No. H 350 227

Automatic Shoulder Belt
height adjustment with retractor

Item No. H 450 255

Harness Belt
(only in combination with shoulder belt)

4 stud fitting
Item No. H 450 222

Mono fitting
Item No. H 450 223

Automatic 3-Point Belt
no height adjustment

Item No. H 350 230

Automatic 3-Point Belt
height adjustment

Item No. H 450 231

Automatic 3-Point Belt
no height adjustment with 2x 4 stud fitting

Item No. H 350 251

Automatic 3-Point Belt
height adjustment with 2x 4 stud fitting

Item No. H 450 252

WAV Automatic 3-Point Belt
no height adjustment with 2x flexible buckle

Item No. H 350 232

WAV Automatic 3-Point Belt
height adjustment with 2x flexible buckle

Item No. H 350 233
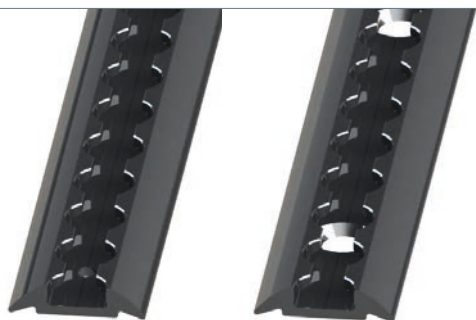
Secure Loop

Length: 300 mm
Item No. H 350 238

PROTEKTOR® 2.0

Floor Systems

Surface Rail

not pre-drilled (length)
1,000 mm	**Item No. H 150 132**
1,500 mm	**Item No. H 150 134**
1,750 mm	**Item No. H 150 135**
3,000 mm	**Item No. H 150 136**

pre-drilled (length))
3,000 mm	**Item No. H 150 385**

Insert Rail

not pre-drilled (length)
1,750 mm	**Item No. H 150 120**
3,500 mm	**Item No. H 150 130**

pre-drilled (length)
3,500 mm	**Item No. H 150 375**

End Cap for Surface Rail

Item No. 200261878

End Cap for Insert Rail

Item No. 200261840

4 Stud Fitting

excl. bolt
Item No. 200414278

incl. bolt
Item No. H 150 615

Mono Disc
(floor mounting)
incl. bolt M12

50 mm
Item No. H 150 917

70 mm
Item No. H 150 919

Mono Fitting
(complete)
incl. bolt M12

50 mm
Item No. H 150 915

Mono Fitting
(headpiece)
incl. bolt M12

50 mm
Item No. H 150 916

Tomorrow's **safety** today!

PROTEKTOR® 2.0

Floor Pocket

Item No. 200269390

Zinc Die-Cast Cover
for anchorage points,
top and bottom cover with
90° angle

Item No. H 350 256

EasyBag
for wheelchair restraints

Item No. 10019363

Emergency Cutter

Item No. 10020724