



PRODUCT CATALOGUE

F. Hesterberg & Söhne GmbH & Co. KG

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WE ARE PLEASED TO WORK FOR YOU!

Traditional company and trendsetter, all in one

Hesterberg is one of the leading international manufacturers and suppliers of trailer superstructure and fastening systems with more than 230 years of tradition. The Hesterberg headquarter is in Ennepetal, Germany. This is where the ideas are developed and the products manufactured. Customers around the globe trust our products because of their reliability.

Security under the sign of the pigeon Our trademark since 1895

Our customers have associated quality products "Made in Germany" with the HESTAL brand name for many decades. They value the know-how and innovative product developments we have achieved over the years. Our roots go back to the 18th century. In 1780 the production of steel products for agricultural use was the cornerstone, the distribution of agriculture fasteners under the sign of the pigeon in 1895 a milestone.



In 1956 the trademark – HESTAL – was created, representing the company Hesterberg and its products.

Customer in focus

The fulfilment of customer needs and requirements plays a central role in our company principles. Therefore, we are fully committed to meet your high expectations in our products contineously.



HESTERBERG AS MOBILITY AND SYSTEM PARTNER OF THE TRANSPORT INDUSTRY

As a partner of the transport and logistics industry and member of the BPW group, we support you with tailor-made solutions that help you fulfil your transport order as efficiently as possible. With durable products and comprehensive services, we as a mobility partner help vehicle operators to make the whole loading and transport process safer and more efficient.

And as a system partner for vehicle manufacturers, we supply everything that optimises the vehicles and the production process. With Hesterberg as a system partner, you get everything from a single source. The products perfectly match and function together to offer the greatest possible benefit to the customer. During the development of our holistic systems and components, we pay particular attention to the demands and needs of the transport operators to enable them to fulfil their transport orders safely and efficiently.

And we have just one goal:

To always offer you exactly the solution that pays off for you in the end.

In concrete terms that means for our partners:

Individual consulting and development of components

High-quality system solutions

Customer-oriented supply concepts supporting your production process

To achieve this we offer uncompromising quality for high reliability and long service life, weight and time-saving concepts for lower operating and maintenance costs and personal after-sales service.

A complete portfolio based on the modular principle guarantees you the greatest possible flexibility: from individual components that represent the highest quality and reliability, through to complete, intelligent systems and user-friendly solutions.

The brands of the BPW Group:



HBN-Teknik_{AS}

HESTAL



idem
telematic

COMPONENTS

OVERVIEW



➤ HESTAL *TensionMaster II*

HESTAL *TensionMaster II*

The TensionMaster is a tarpaulin tensioner with simple operation and compact design.

Technology

- › Quick and easy screw assembly
- › Available with slotted shaft or squared shaft
- › Simple untightening of the tarpaulins (no additional holding of the retainer necessary)
- › Only high-strength materials are used for production
- › Optional: Customs cover cap

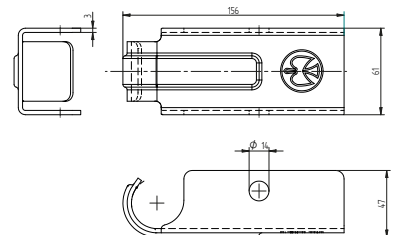
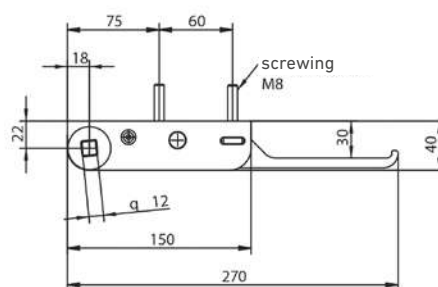
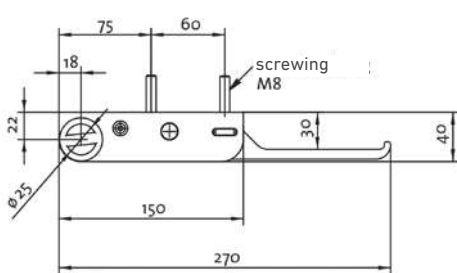
With slotted shaft



With squared shaft



Customs cover cap



HESTAL *TensionMaster II* – INDIVIDUAL COMPONENTS

Description	Weight [kg]	Article No.
TensionMaster II with slotted shaft for tube Ø 35 mm Left side Right side	1,40	6.141.204.98 6.141.203.98
TensionMaster II with squared shaft for tube Ø 27 mm Left side Right side	1,40	6.141.202.98 6.141.201.98
Customs cover cap	0,07	6.141.201.97
TM II main body with transport lock	1,40	6.141.200.99

HESTAL *TensionMaster II* – SPARE PART SETS

Description	Weight [kg]	Article No.
<p>Installation set for squared shaft version</p> <p>Squared tensioner shaft M washer Rivet Untightening sticker German Untightening sticker English Installation instructions Operation sticker Ziplock bag</p>	1,20	6.850.052.00
<p>Installation for slotted shaft version</p> <p>Slotted shaft M washer Rivet Untightening sticker in German Untightening sticker in English Installation instructions Operation sticker Ziplock bag</p>	1,20	6.850.053.00

OVERVIEW



- **HESTAL Vario-/SlimMaster 900, 901, 904, 905**
- **HESTAL VarioMaster 902, 903**
- **Curtainsider pillar system 951**

HESTAL Vario-/SlimMaster 900, 901, 904, 905

The HESTAL pillar system Vario-/SlimMaster 900, 901, 904 and 905 is used as middle pillar for curtainsider vehicles.

Technology

- › Robust, secure, and positive-fit connection to the outer frame by means of a pillar bearing
- › The connection between CS pillar and outer frame is like a fixed bearing connection, creating a stable and high-strength CS pillar system
- › Double safeguard of the mechanics
- › Internal load height > 3m possible
- › Top trolleys and telescope can be used for a wide range of roof rails
- › Pockets positionable in 5mm steps
- › All components are KTL coated
- › Pillar bearings for bolting and welding
- › Adjustable fastening system allows driving with a lifted roof (under consideration of legal regulations)
- › DEKRA tested and certified

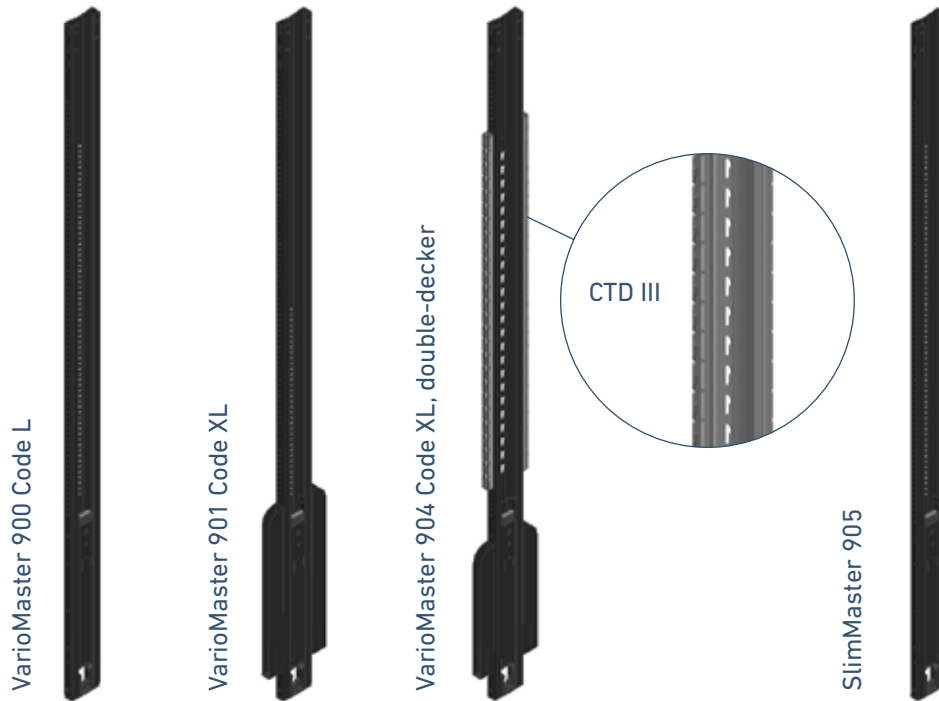
Versions

- › VarioMaster 900 "Code L" to DIN EN 12642
- › VarioMaster 901 "Code XL" to DIN EN 12642
- › VarioMaster 904 double-decker "Code XL" to DIN EN 12642
- › VarioMaster 905 SlimMaster "Code XL" to DIN EN 12642

Accessories

Attached

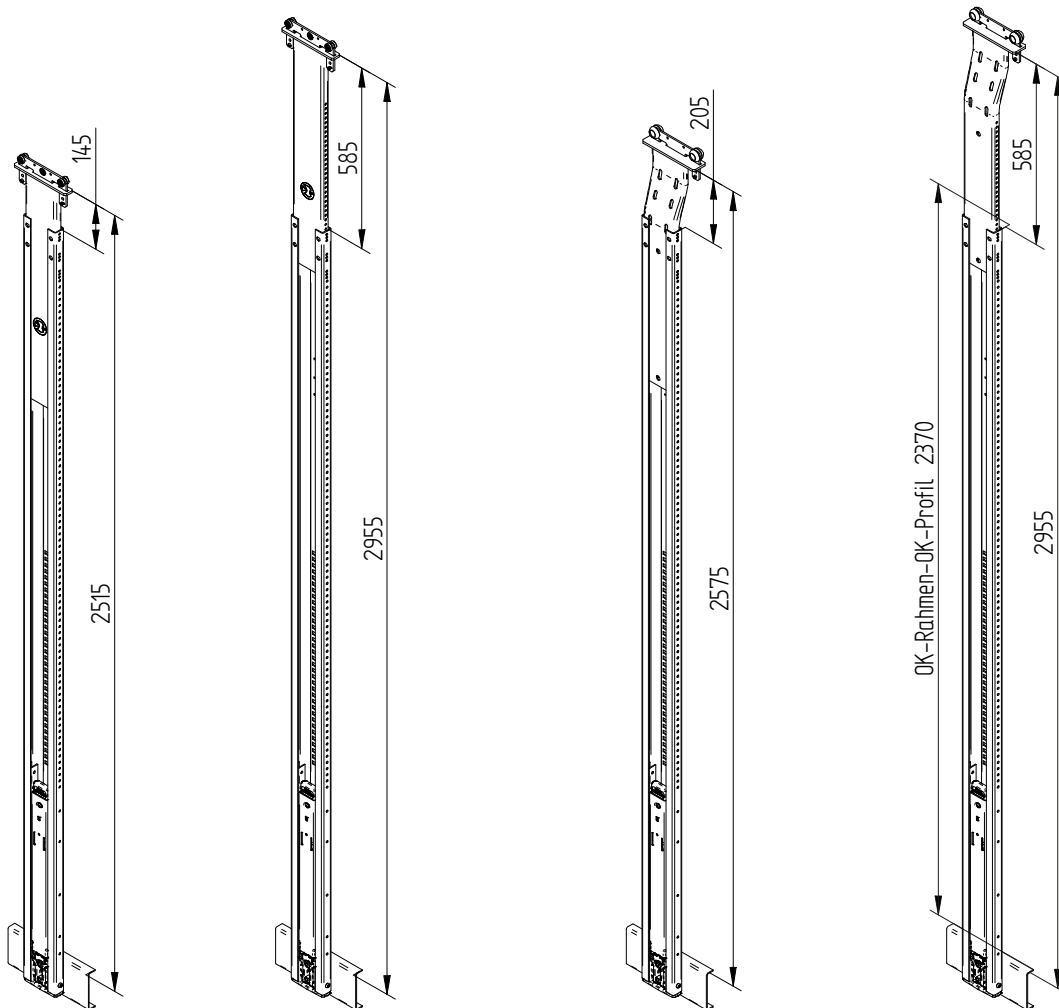
HESTAL Vario-/SlimMaster 900, 901, 904, 905



Description	Weight [kg]	Article No.
CS pillar 900 Code L with slat stowages, without pockets	21,60	6.800.197.00
CS pillar 900 Code L without slat stowages, without pockets	19,50	6.800.175.00
CS pillar 901 Code XL with slat stowages, without pockets	23,10	6.800.198.00
CS pillar 901 Code XL with long slat stowages, without pockets	22,50	6.800.265.00
CS pillar 901 Code XL without slat stowages, without pockets	21,00	6.800.174.00
CS pillar long 901 Code XL with slat stowages, without pockets	24,70	6.800.212.00
CS pillar long 901 Code XL with long slat stowages, without pockets	23,20	6.800.259.00
CS pillar long 901 Code XL without slat stowages, without pockets	22,60	6.800.211.00
CS pillar 904 Code XL (double-decker) with slat stowages and CTD III perforated rails	27,50	6.800.216.00
CS pillar 904 Code XL (double-decker) without slat stowages, without perforated rail	21,00	6.800.206.00
SlimMaster 905	14,50	6.800.353.00

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HESTAL Vario-/SlimMaster 900, 901, 904, 905

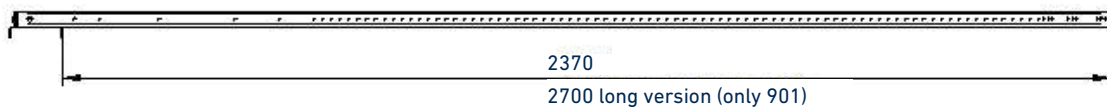


with straight top trolley
representation of min. length

with straight top trolley
representation of max. length

with cranked top trolley
representation of min. length

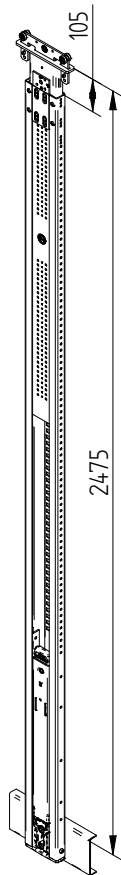
with cranked top trolley
representation of max. length



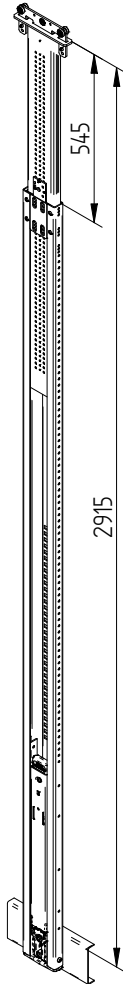
SlimMaster 905

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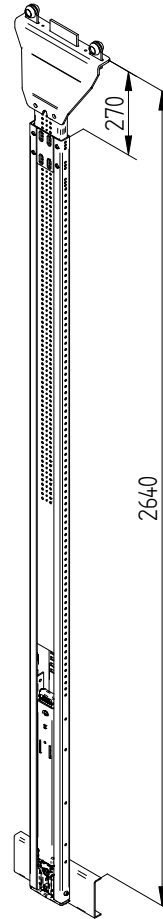
HESTAL VarioMaster 900, 901, 904



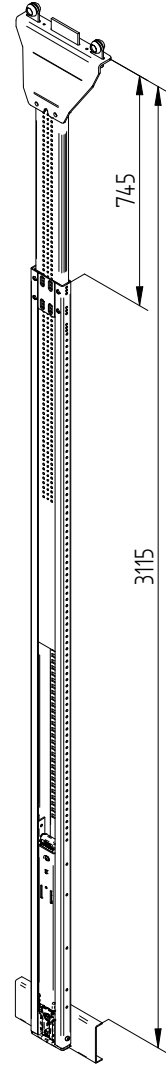
with straight telescope
representation of max. length



with straight telescope
representation of max. length



with cranked telescope
representation of min. length



with cranked telescope
representation of max. length

HESTAL VarioMaster 902, 903

The HESTAL pillar system VarioMaster 902 and 903 is used as middle pillars for curtainsider vehicles.

Technology

- › Robust and versatile connections to the outer frame
- › The connection between CS pillar and outer frame is like a floating bearing connection
- › Individual positioning of the VarioMaster on the outer frame (except for single pillar bearings)
- › Internal load height 2500mm to 3100mm
- › Top trolleys and telescopes can be used for a wide range of roof rails
- › Pockets positionable in 5mm steps
- › All components are KTL coated
- › Single pillar bearings for bolting and welding
- › Screw-on protection profile for aluminium frame
- › DEKRA tested

Versions

- › VarioMaster 902 "Code L" to DIN EN 12642
- › VarioMaster 903 "Code L" to DIN EN 12642

HESTAL *VarioMaster* 902, 903

VarioMaster 902 Code L



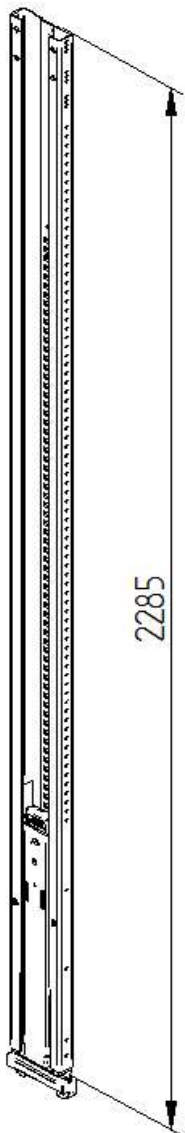
VarioMaster 903 Code L



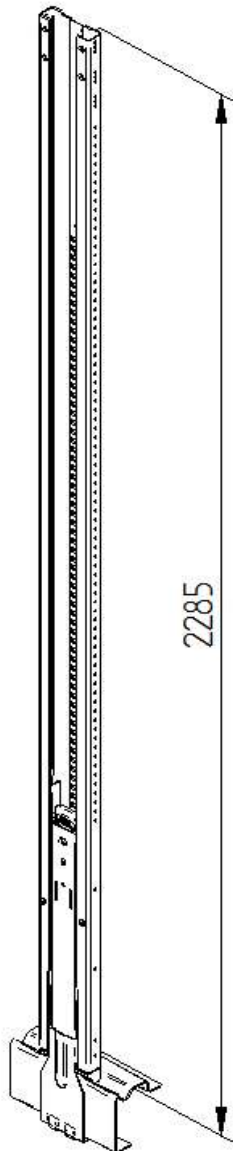
Description	Weight [kg]	Article No.
CS pillar 902 - short without pockets, without slat stowages	15,80	6.800.182.00
CS pillar 902 - long without pockets, without slat stowages	17,35	6.800.183.00
CS pillar 903 - short without pockets, without slat stowages	16,46	6.800.184.00
CS pillar 903 - long without pockets, without slat stowages	18,01	6.800.185.00

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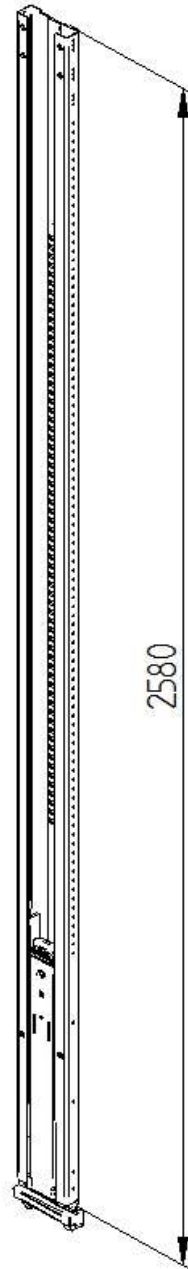
HESTAL VarioMaster 902, 903



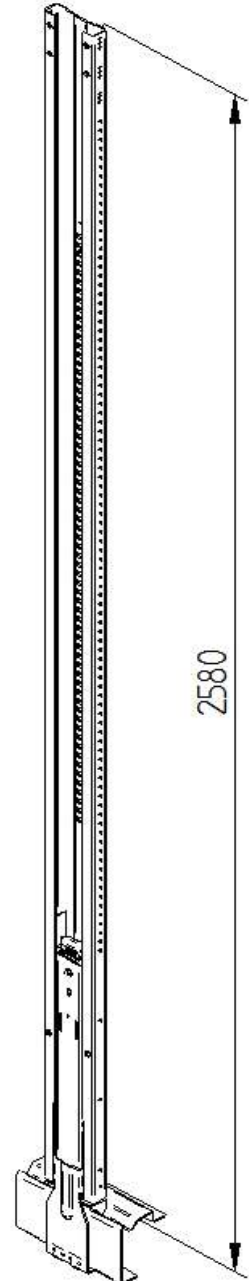
CS pillar 902 short



CS pillar 903 short



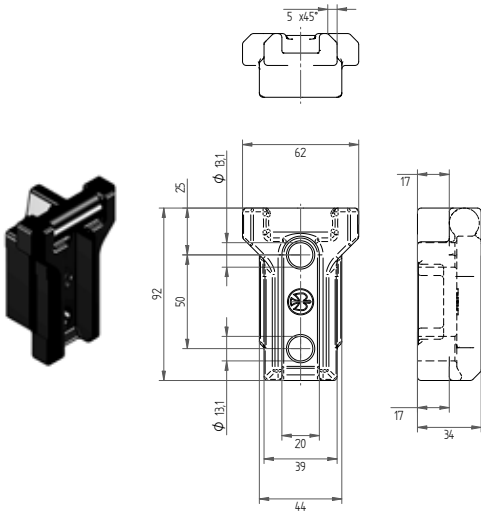
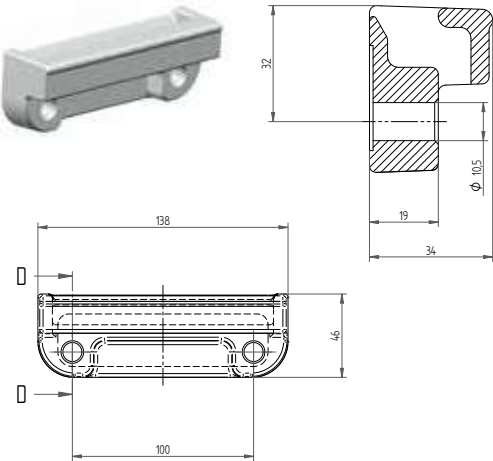
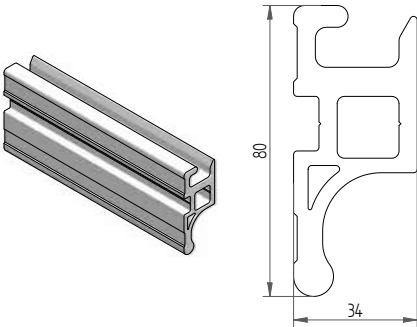
CS pillar 902 long



CS pillar 903 long

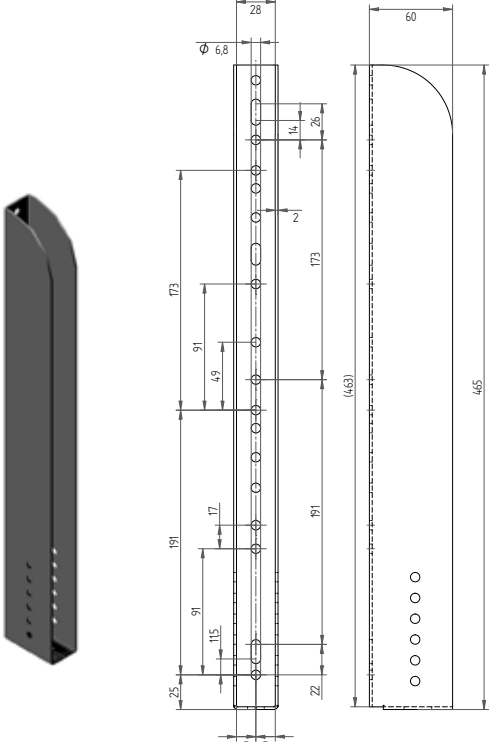
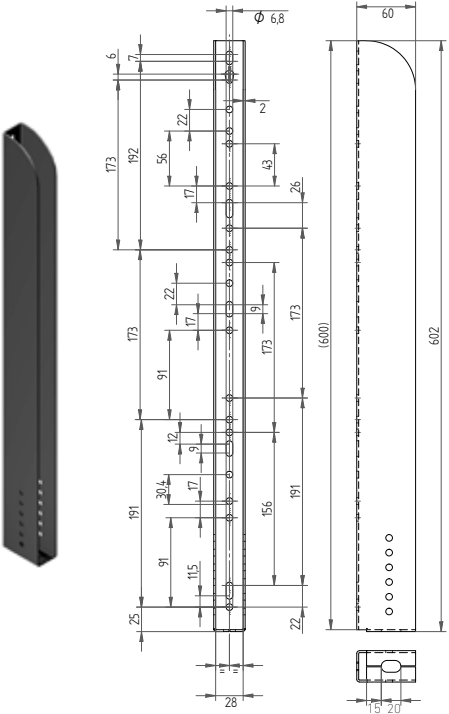
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HESTAL Vario-/SlimMaster 900, 901, 902, 903, 904, 905 – ACCESSORIES

Figure	Description	Weight [kg]	Article No.
	<p>Pillar bearing 910.1</p> <p>M12 raw M12 KTL</p> <p>M14 raw M14 KTL</p>	<p>0,61</p>	<p>6.090.151.98 6.090.151.99</p> <p>6.090.220.98 6.090.220.99</p>
	<p>Single pillar bearing 902</p>	<p>0,61</p>	<p>6.090.121.99</p>
	<p>Ram protection profile 902 6800mm</p>	<p>19,80</p>	<p>6.090.116.68</p>

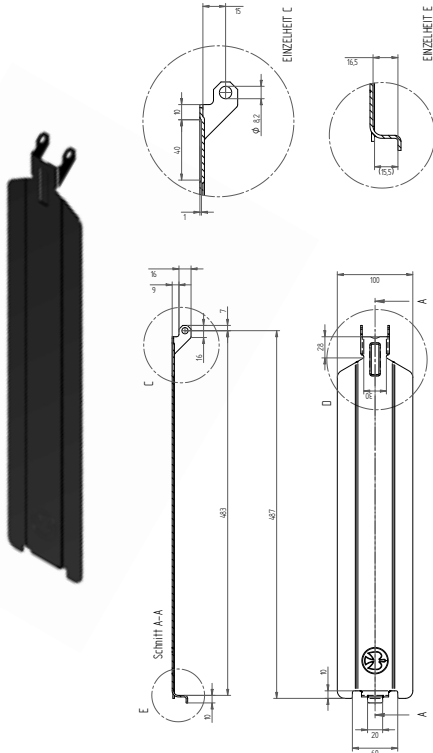
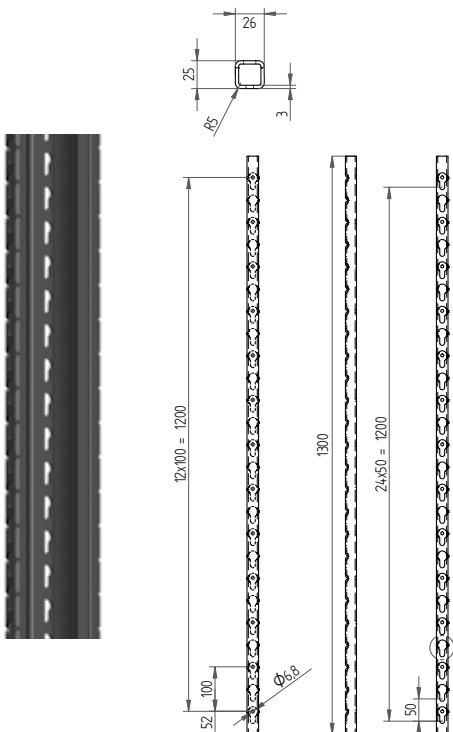
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HESTAL Vario-/SlimMaster 900, 901, 902, 903, 904, 905 – ACCESSORIES

Figure	Description	Weight [kg]	Article No.
	<p>Slat storage 465mm</p>	<p>1,03</p>	<p>6.800.174.09</p>
	<p>Slat storage 600mm</p>	<p>1,37</p>	<p>6.800.182.09</p>

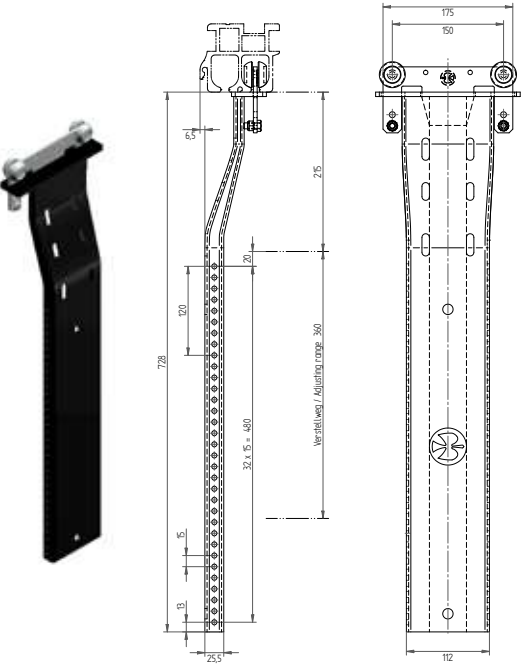
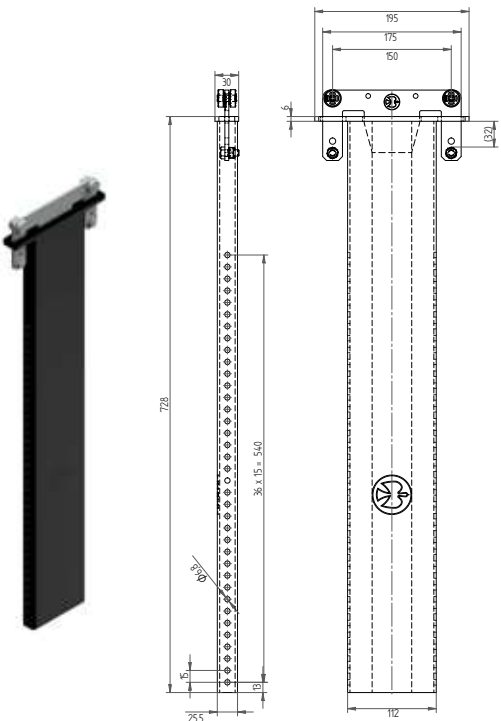
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HESTAL Vario-/SlimMaster 900, 901, 902, 903, 904, 905 – Accessories

Figure	Description	Weight [kg]	Article No.
	<p>Front panel</p>	<p>0,73</p>	<p>6.800.218.02</p>
	<p>Double-decker CTD II</p>	<p>2,20</p>	<p>6.800.216.01</p>

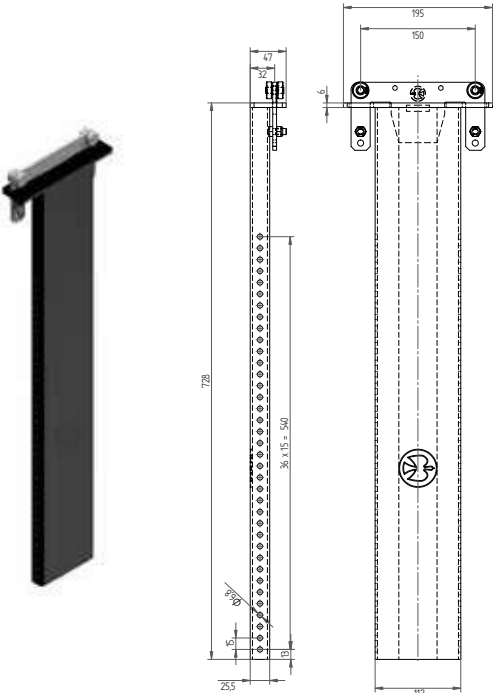
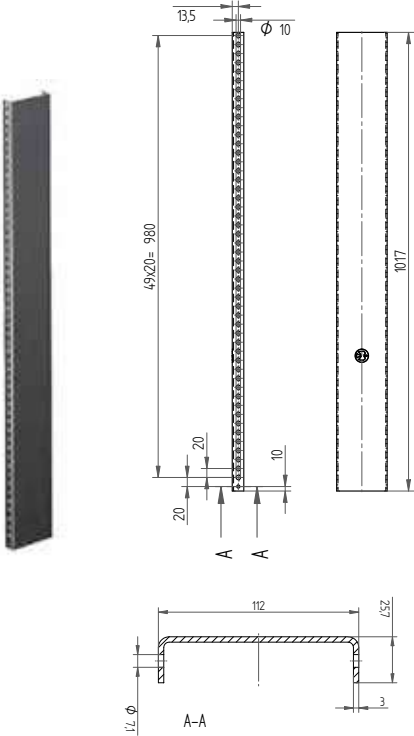
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HESTAL Vario-/SlimMaster 900, 901, 902, 903, 904, 905 – Accessories

Figure	Description	Weight [kg]	Article No.
	<p>Top trolley, cranked</p>	<p>4,46</p>	<p>6.090.153.00</p>
	<p>Top trolley, straight</p>	<p>4,08</p>	<p>6.090.154.00</p>

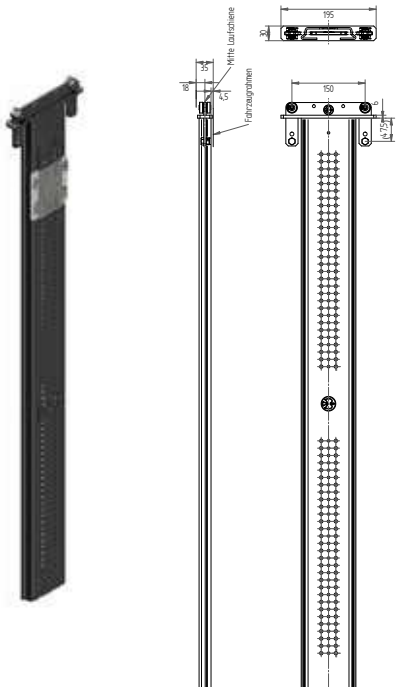
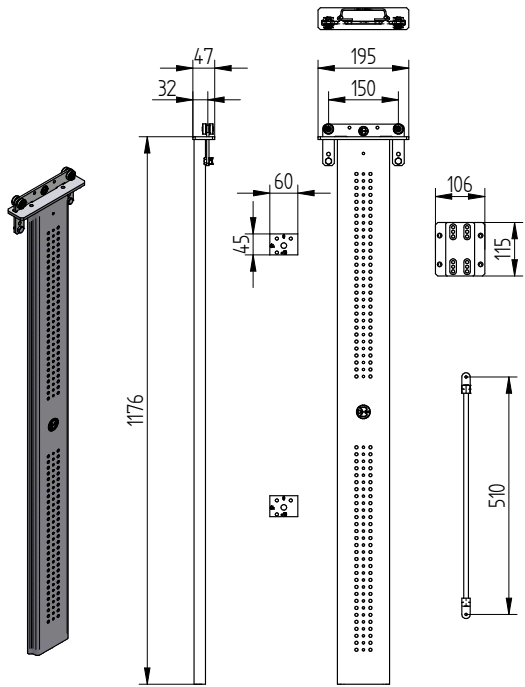
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HESTAL Vario-/SlimMaster 900, 901, 902, 903, 904, 905 – ACCESSORIES

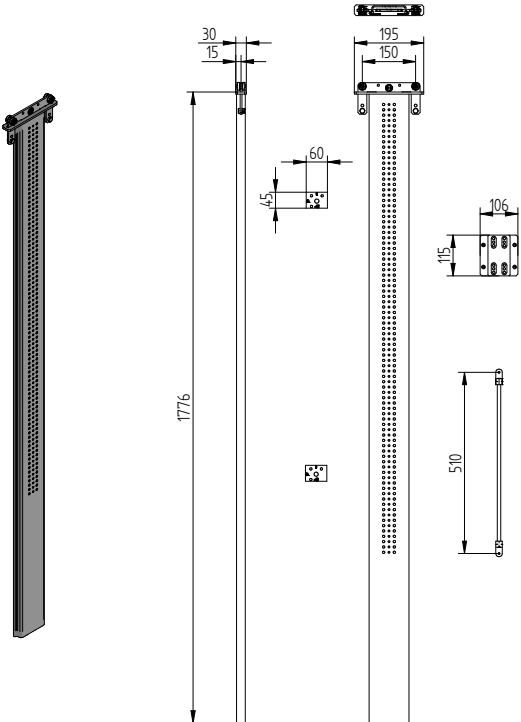
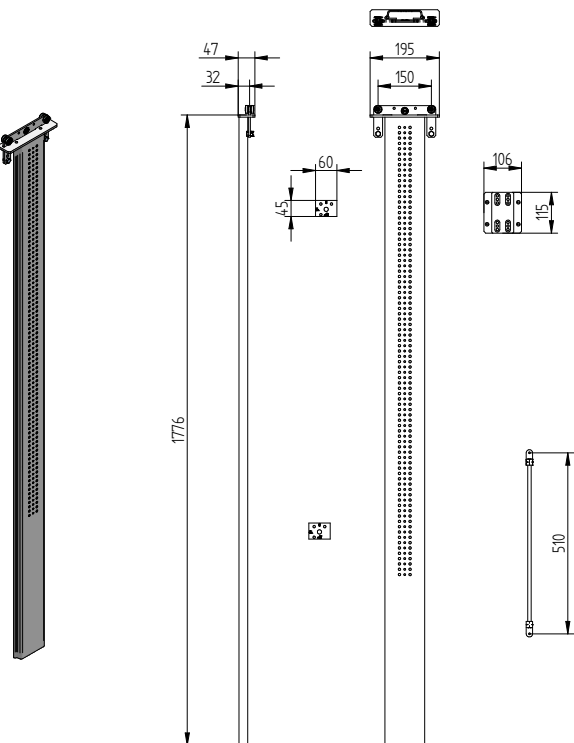
Figure	Description	Weight [kg]	Article No.
	<p>Top trolley, offset</p>	<p>4,48</p>	<p>6.090.157.00</p>
	<p>Reinforcing profile for XL pillars in combination with a trolley</p>	<p>3,49</p>	<p>6.800.174.12</p>

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HESTAL Vario-/SlimMaster 900, 901, 902, 903, 904, 905 – ACCESSORIES

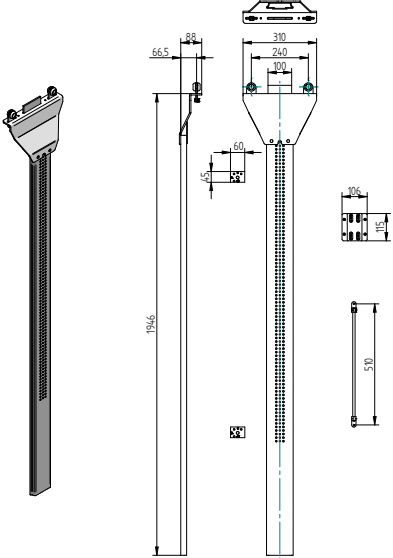
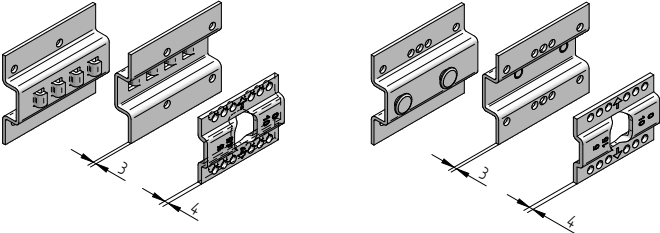

Figure	Description	Weight [kg]	Article No.
	<p>Telescope 912.1 Short</p>	<p>6,50</p>	<p>6.090.155.00</p>
	<p>Telescope 912.2 Short – offset rollers</p>	<p>7,60</p>	<p>6.090.159.00</p>

HESTAL Vario-/SlimMaster 900, 901, 902, 903, 904, 905 – ACCESSORIES

Figure	Description	Weight [kg]	Article No.
	<p>Telescope 912.3 Long</p>	<p>9,50</p>	<p>6.090.156.00</p>
	<p>Telescope 912.4 Long – offset rollers</p>	<p>9,50</p>	<p>6.090.181.00</p>

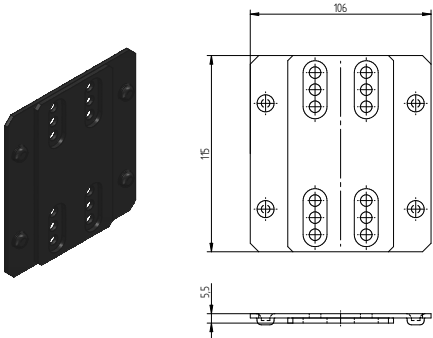
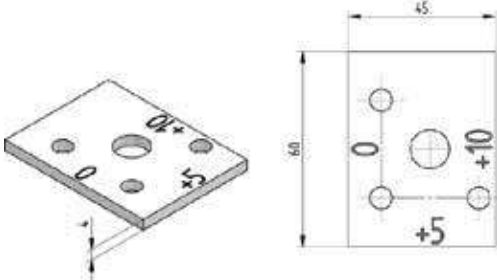
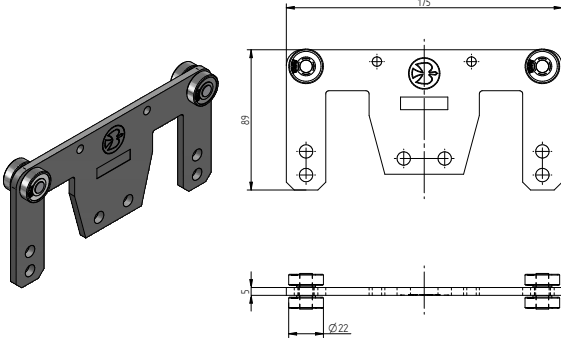
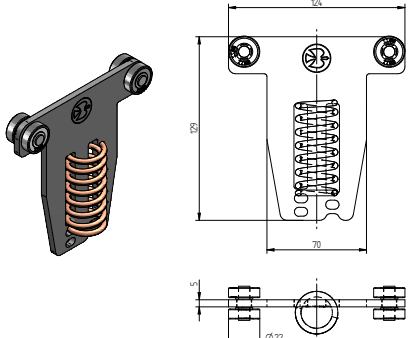
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HESTAL Vario-/SlimMaster 900, 901, 902, 903, 904, 905 – ACCESSORIES

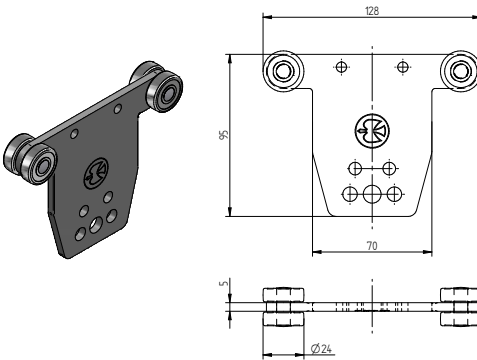
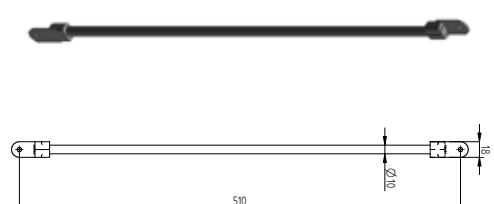


Figure	Description	Weight [kg]	Article No.
	<p>Telescope 912.5 Long</p>	<p>12,35</p>	<p>6.090.177.00</p>
	<p>Plug-in unit for telescope pillars for double-decker pillar 904</p>	<p>0,36 0,33</p>	<p>6.090.158.00 6.090.206.00</p>
	<p>Tensioning cable (500–640mm lifting height) Tensioning cable set Tensioning cable (500–640mm lifting height) Hemlok rivet 6.4 x 19.0 Blind rivet 4.8 x 14.7</p>	<p>0,09 1,07</p>	<p>6.090.160.25 6.850.036.00</p>

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HESTAL Vario-/SlimMaster 900, 901, 902, 903, 904, 905 – SPARE PARTS

Figure	Description	Weight [kg]	Article No.
	<p>Telescope stop</p>	<p>0,36</p>	<p>6.090.248.00</p>
	<p>Stop plate</p>	<p>0,08</p>	<p>6.090.145.04</p>
	<p>Rollers</p>	<p>0,47</p>	<p>6.090.155.52</p>
	<p>Rollers with spring damping</p>	<p>0,43</p>	<p>6.090.226.00</p>

HESTAL Vario-/SlimMaster 900, 901, 902, 903, 904, 905 – SPARE PARTS

Figure	Description	Weight [kg]	Article No.
	<p>Rollers narrow</p>	<p>0,34</p>	<p>6.090.284.51</p>
	<p>Tensioning cable (400–450mm lifting height)</p>	<p>0,07</p>	<p>6.090.155.25</p>
	<p>Locking set for VarioMaster 900 Locking slide Pressure spring Blind rivet (flat-head M-Lock)</p>	<p>0,34</p>	<p>6.850.038.00</p>
	<p>Dampers set Damping strip spacer Hexagon bolt M8x18 Self-locking Hexagon nut M8</p>	<p>0,17</p>	<p>6.850.041.00</p>

CURTAINSIDER PILLAR SYSTEM 951

The HESTAL CS 951 pillar system is used as middle pillar for commercial vehicles with laterally sliding tarpaulins.

Technology

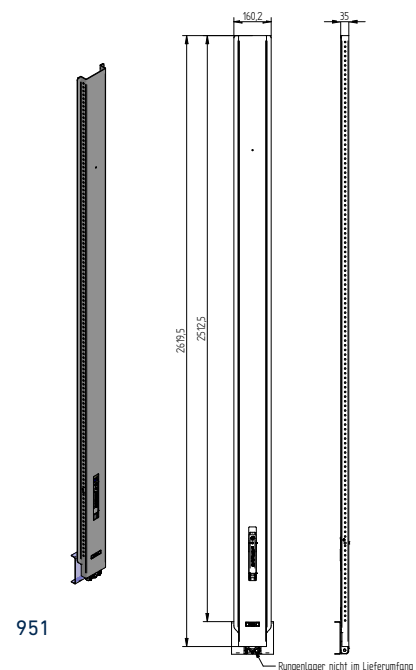
- › Pillar thickness of 35mm in conjunction with high-strength material
- › Secured with a double locking mechanism to avoid unintentional opening
- › Proven knee-lever principle within the fastening mechanism
- › Internal rocker allows the pillar to be easily brought back into its original position after opening
- › Pockets positionable in 5mm steps
- › Slat stowages in 4 different positions
- › Roof connection can be adapted (in 10mm steps)
- › Pillar bearing identical with SolidMaster
- › TÜV tested and certified in accordance with DIN EN 12642-XL

Versions

KTL coated in accordance with FHS-TL 9.13

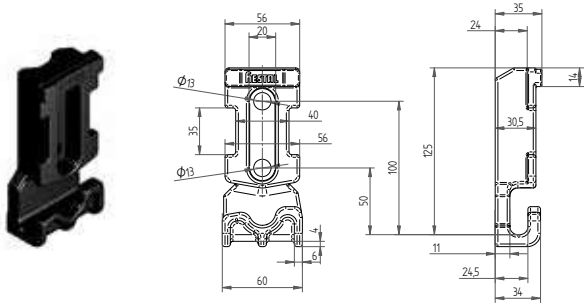
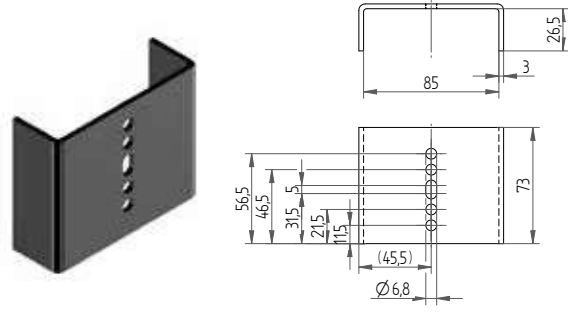
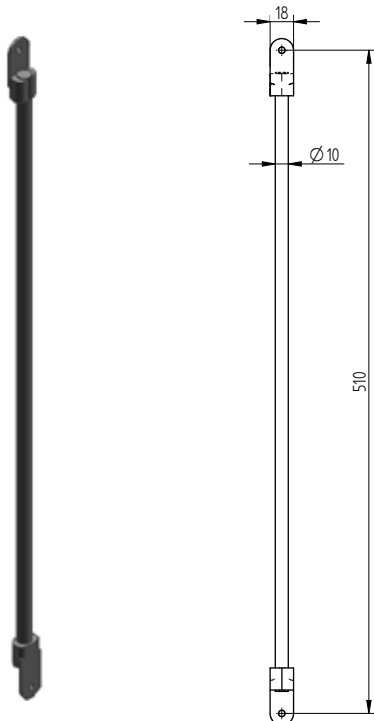
Accessories

Slat stowages p. 16, Pockets p. 17

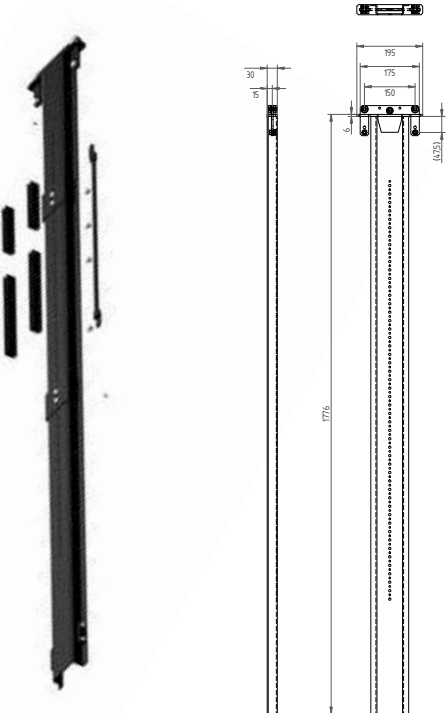
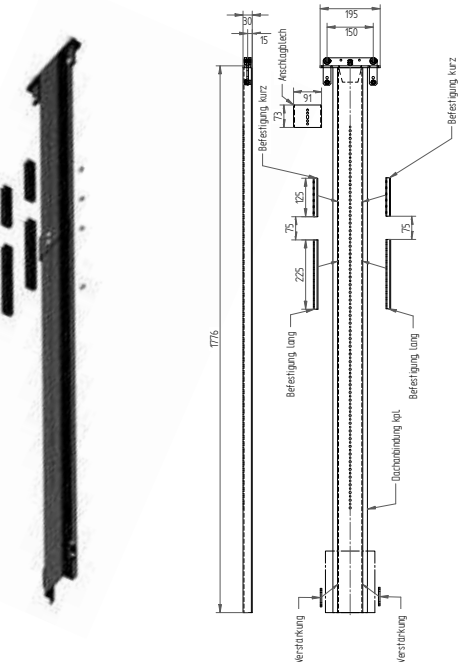


Description	Weight [kg]	Article No.
CS pillar 951	16,85	6.800.462.00

CURTAINSIDER PILLAR SYSTEM 951 – ACCESSORIES

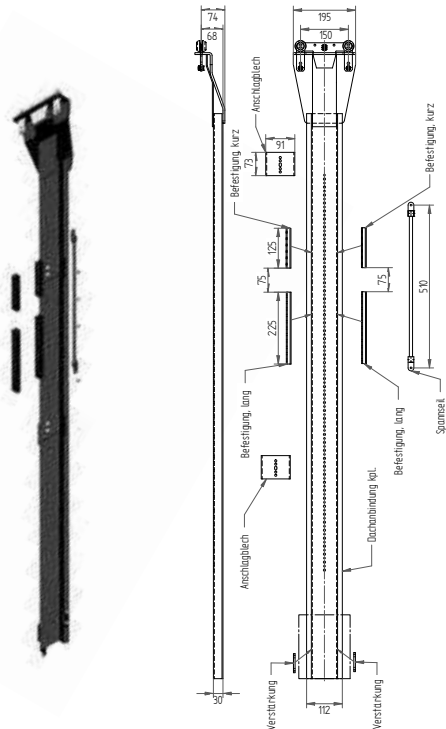
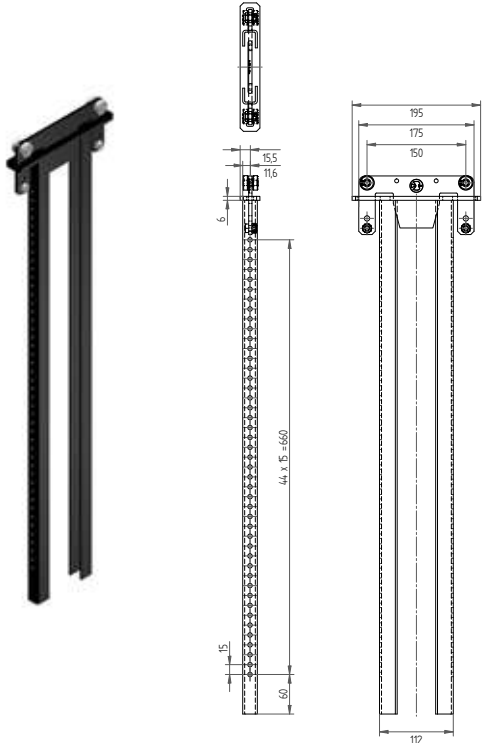
Figure	Description	Weight [kg]	Article No.
	<p>Pillar bearing M12 M14</p>	<p>0,88 0,74</p>	<p>6.090.201.99 6.090.227.99</p>
	<p>Stop plate</p>	<p>0,24</p>	<p>6.800.409.13</p>
	<p>Tensioning cable 510mm (400–450mm lifting height)</p>	<p>0,07</p>	<p>6.090.155.25</p>

CURTAINSIDER PILLAR SYSTEM 951 – ACCESSORIES

Figure	Description	Weight [kg]	Article No.
	<p>Telescope set, Code XL Straight Offset</p>	<p>6,78</p>	<p>6.090.237.00 6.090.245.00</p>
	<p>Top trolley set, Code XL Straight Offset</p>	<p>6,78</p>	<p>6.090.238.00 6.090.246.00</p>

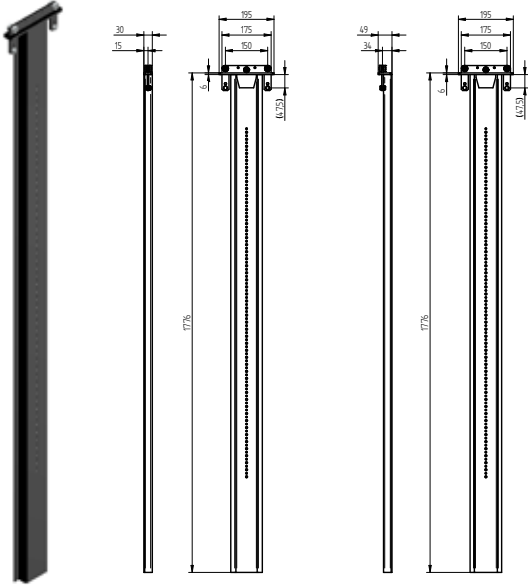
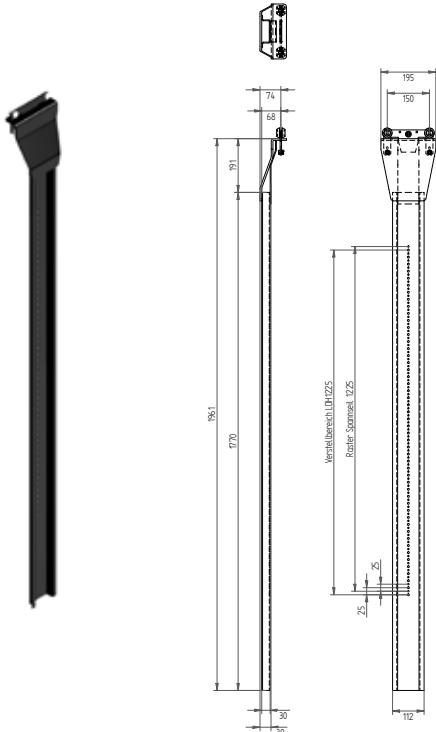
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CURTAINSIDER PILLAR SYSTEM 951 – ACCESSORIES

Figure	Description	Weight [kg]	Article No.
 <p>Technical drawing showing a perspective view of a long metal beam and a detailed cross-section of the top trolley assembly. Labels include: Anschlagblech, Befestigung kurz, Befestigung lang, Spannsatz, Befestigung vgl., and Verstärkung. Dimensions include 74, 68, 195, 150, 91, 73, 75, 125, 725, 75, 510, 50, 112, and 38.</p>	<p>Telescope set Code XL – cranked</p> <p>Top trolley set Code XL – cranked</p>	<p>9,88</p>	<p>6.090.240.00</p> <p>6.090.244.00</p>
 <p>Technical drawing showing a perspective view of a top trolley and a detailed cross-section. Labels include: 6, 15, 11,6, 195, 175, 150, and 112. Dimensions include 195, 175, 150, 112, 15, 11,6, and 6.</p>	<p>Top trolley, complete Straight Offset</p>	<p>3,52 3,41</p>	<p>6.090.239.00</p> <p>6.090.247.00</p>

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CURTAINSIDER PILLAR SYSTEM 951 – ACCESSORIES

Figure	Description	Weight [kg]	Article No.
 <p style="text-align: center;">6.090.237.55 6.090.245.55</p>	<p>Roof connection, complete</p> <p>Straight Offset</p>	<p>6,78</p>	<p>6.090.237.55 6.090.245.55</p>
	<p>Roof connection, cranked</p>	<p>9,88</p>	<p>6.090.240.55</p>

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OVERVIEW



➤ **HESTAL *SolidMaster* 801**

HESTAL *SolidMaster* 801

The HESTAL pillar system SolidMaster 801 is used for open and closed flatbed superstructures.

- Pillars for 400, 500, 600, 800, 1000mm dropsides
- Pillars with curtainside attachment for vehicles with roof structures

Technology

- › SolidMaster 801 is combined with the reliable HESTAL dropside fasteners
- › The system uses one hand lever
- › Fastener pockets are mounted on the pillar
- › System has an integrated cargo pressure detection
- › Robust, secure, and positive-fit connection to the outer frame
- › Double safeguard of the mechanics
- › Different fastening techniques can be used all around the superstructure
- › Standard versions are KTL coated

Variants

- › SolidMaster 801M - Middle pillar
- › SolidMaster 801MS - Middle pillar with curtainside attachment
- › SolidMaster 801H - Rear pillar
- › SolidMaster 801HS - Rear pillar with curtainside attachment

Versions

KTL coated in accordance with FHS-TL 9.13

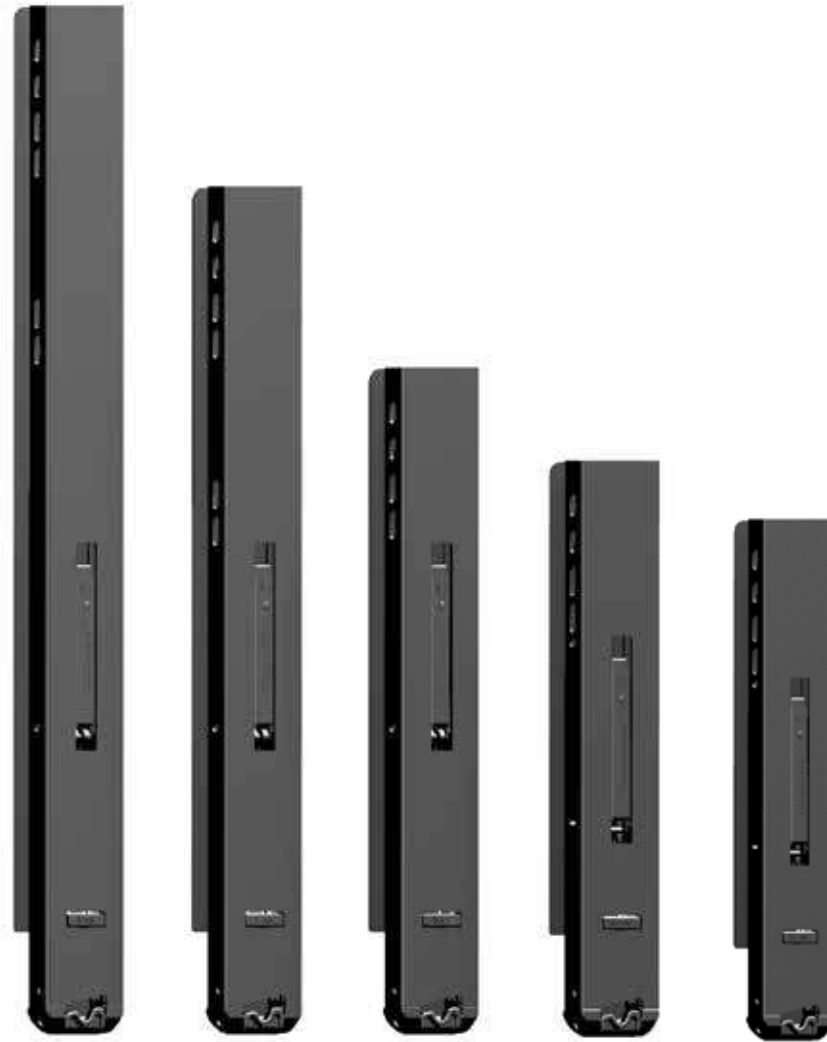
Accessories

See SolidMaster accessories p. 60

Supplements

Fasteners 686, 681, 710 and 715, safety dropside hinges 654N, 655N and 657, pockets, top trolleys, telescopes

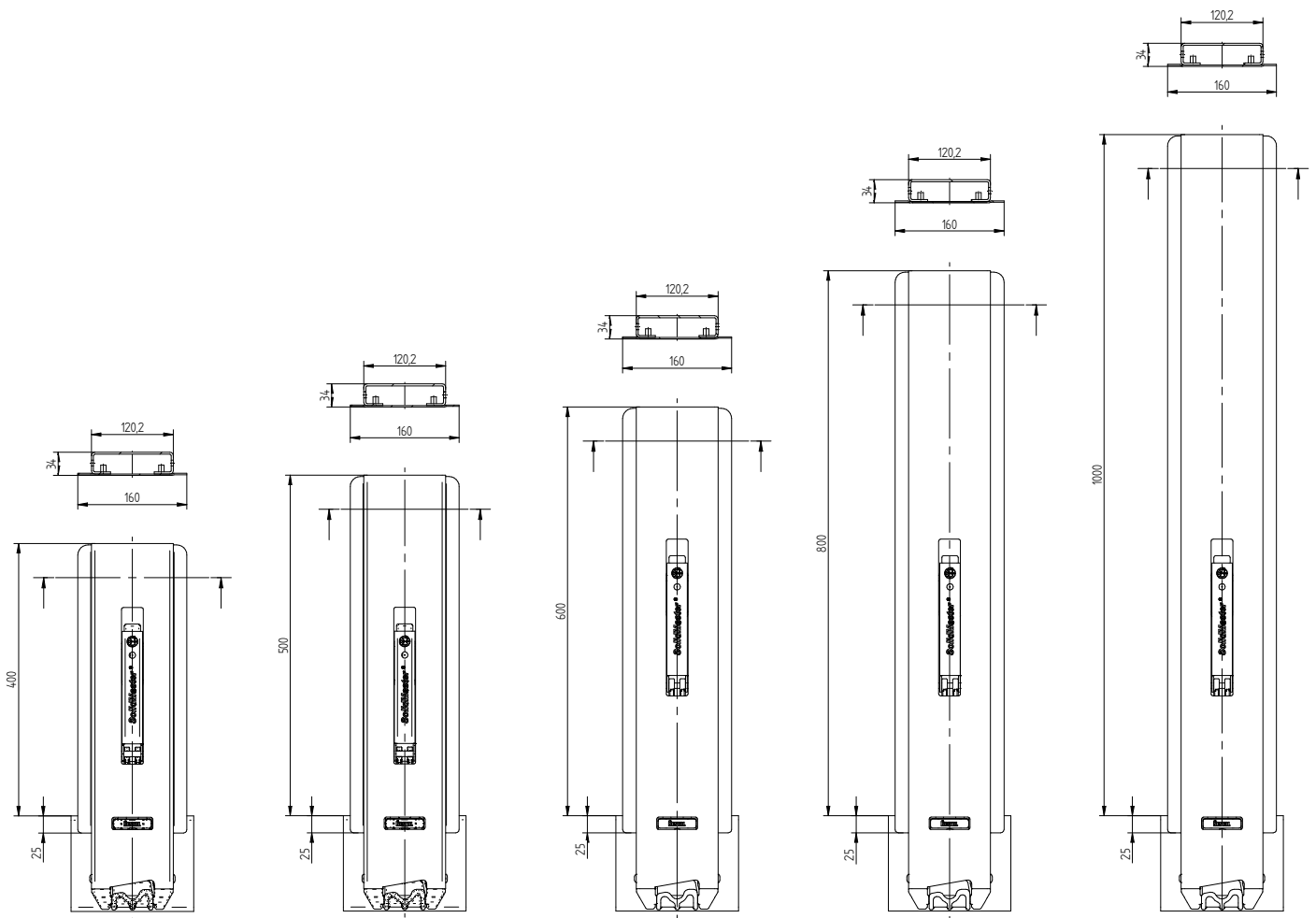
Abbreviation	Explanation	Abbreviation	Explanation
801	Type of pillar	S	Curtainside attachment
H	Rear pillar	KTL	KTL coating
M	Middle pillar		

HESTAL *SolidMaster* 801M - MIDDLE PILLAR WITHOUT CURTAINSIDE ATTACHMENT

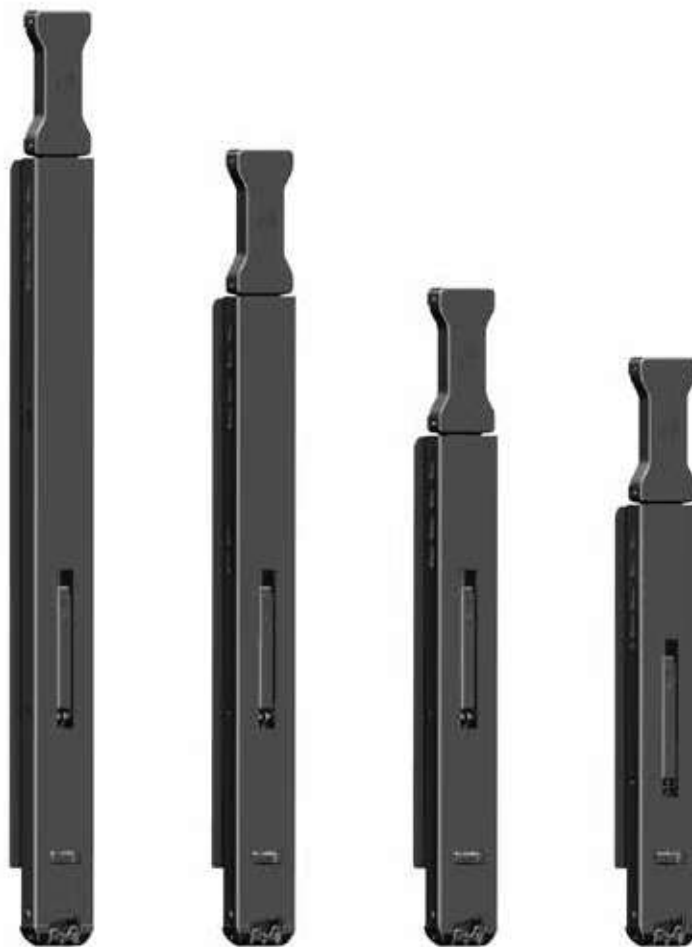
Length [mm]	Weight [kg]	Article No.
400	7,60	6.080.538.00
500	8,10	6.080.460.00
600	8,90	6.080.464.00
800	10,50	6.080.468.00
1000	12,00	6.080.472.00

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HESTAL *SolidMaster* 801M - MIDDLE PILLAR WITHOUT CURTAIN SIDE ATTACHMENT



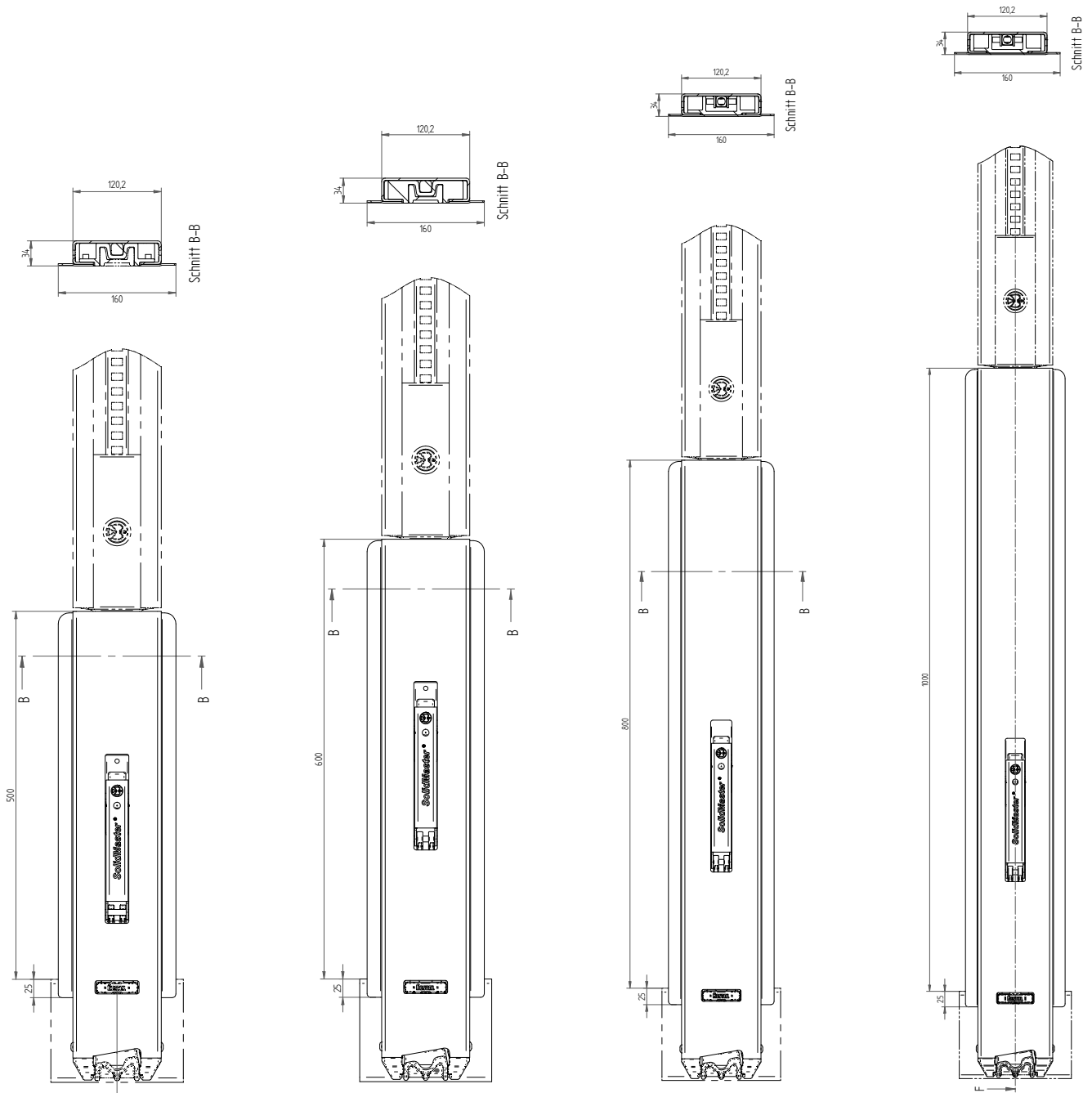
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HESTAL *SolidMaster* 801MS - MIDDLE PILLAR WITH CURTAINSIDE ATTACHMENT

Length [mm]	Weight [kg]	Article No.
500	9,50	6.080.462.00
600	10,30	6.080.466.00
800	12,20	6.080.470.00
1000	14,10	6.080.474.00

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HESTAL *SolidMaster* 801MS -MIDDLE PILLAR WITH CURTAINSIDE ATTACHMENT



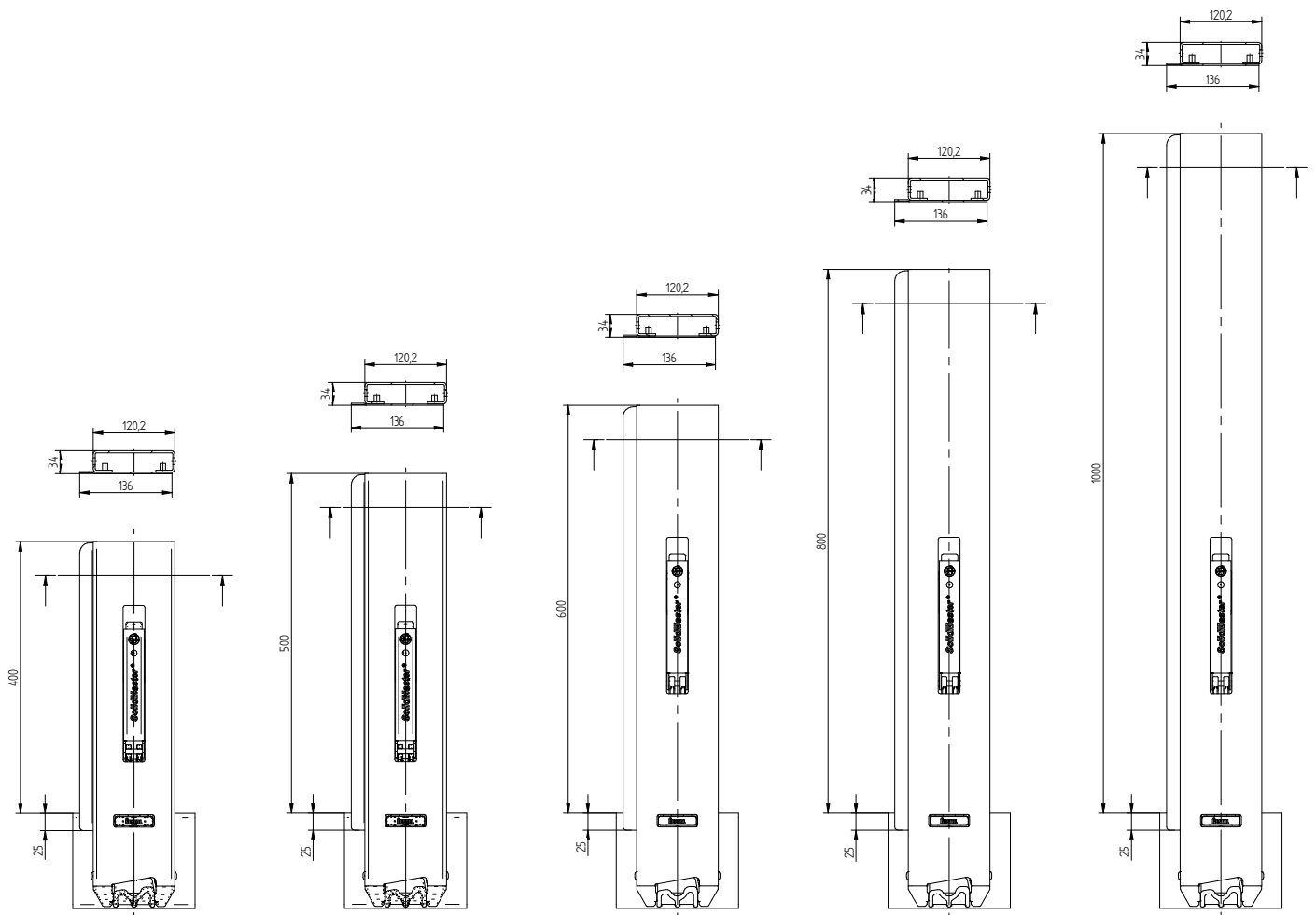
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HESTAL *SolidMaster* 801H - REAR PILLAR WITHOUT CURTAIN SIDE ATTACHMENT

Length [mm]	Seite	Weight [kg]	Article No.
400	Left	7,23	6.080.550.00
400	Right	7,23	6.080.551.00
500	Left	8,05	6.080.484.00
500	Right	8,05	6.080.485.00
600	Left	9,01	6.080.492.00
600	Right	9,01	6.080.493.00
800	Left	10,47	6.080.500.00
800	Right	10,47	6.080.501.00
1000	Left	11,94	6.080.508.00
1000	Right	11,94	6.080.509.00

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HESTAL *SolidMaster* 801H - REAR PILLAR WITHOUT CURTAIN SIDE ATTACHMENT



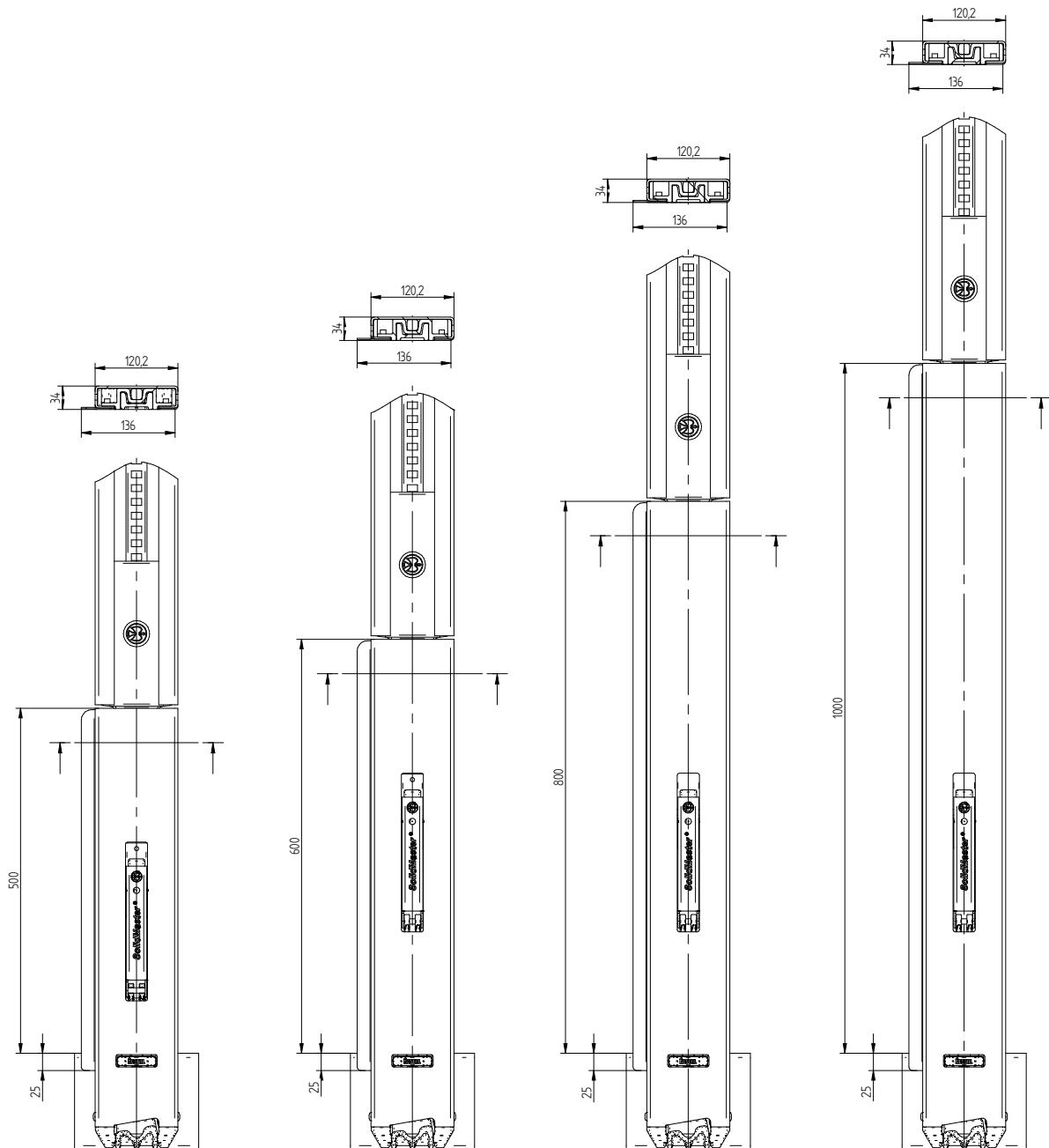
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HESTAL *SolidMaster* 801HS - REAR PILLAR WITH CURTAINSIDE ATTACHMENT

Length [mm]	Seite	Weight [kg]	Article No.
500	links	9,50	6.080.488.00
500	right	9,50	6.080.489.00
600	links	10,30	6.080.496.00
600	right	10,30	6.080.497.00
800	links	12,20	6.080.504.00
800	right	12,20	6.080.505.00
1000	links	14,10	6.080.512.00
1000	right	14,10	6.080.513.00

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HESTAL *SolidMaster* 801HS - REAR PILLAR WITH CURTAINSIDE ATTACHMENT



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OVERVIEW



➤ **HESTAL *SolidMaster 802***

HESTAL *SolidMaster* 802

The HESTAL pillar system SolidMaster 802 is used for open and closed flatbed superstructures.

- Pillars for 400, 500, 600, 800, 1000mm dropsides
- Pillars with curtainside attachment for vehicles with roof structures

Technology

- › SolidMaster 802 has integrated dropside fasteners
- › Is combined with the reliable HESTAL dropside fasteners
- › The system uses two hand lever
- › Fastener pocket is mounted on the dropside
- › System has an integrated cargo pressure detection
- › Robust, secure, and positive-fit connection to the outer frame
- › Double safeguard of the mechanics
- › Standard versions are KTL coated

Variants

- › SolidMaster 802M - Middle pillar with integrated fasteners
- › SolidMaster 802MS - Middle pillar with integrated fasteners & curtainside attachment
- › SolidMaster 802H - Rear pillar with integrated fasteners
- › SolidMaster 802HS - Rear pillar with integrated fasteners & curtainside attachment
- › SolidMaster 802P - Front pillar with integrated fasteners
- › SolidMaster 802R - Corner pillar (profile with integrated fastener for existing corner pillar)

Versions

KTL coated in accordance with FHS-TL 9.13

microZINQ® in accordance with FHS-TL 9.37

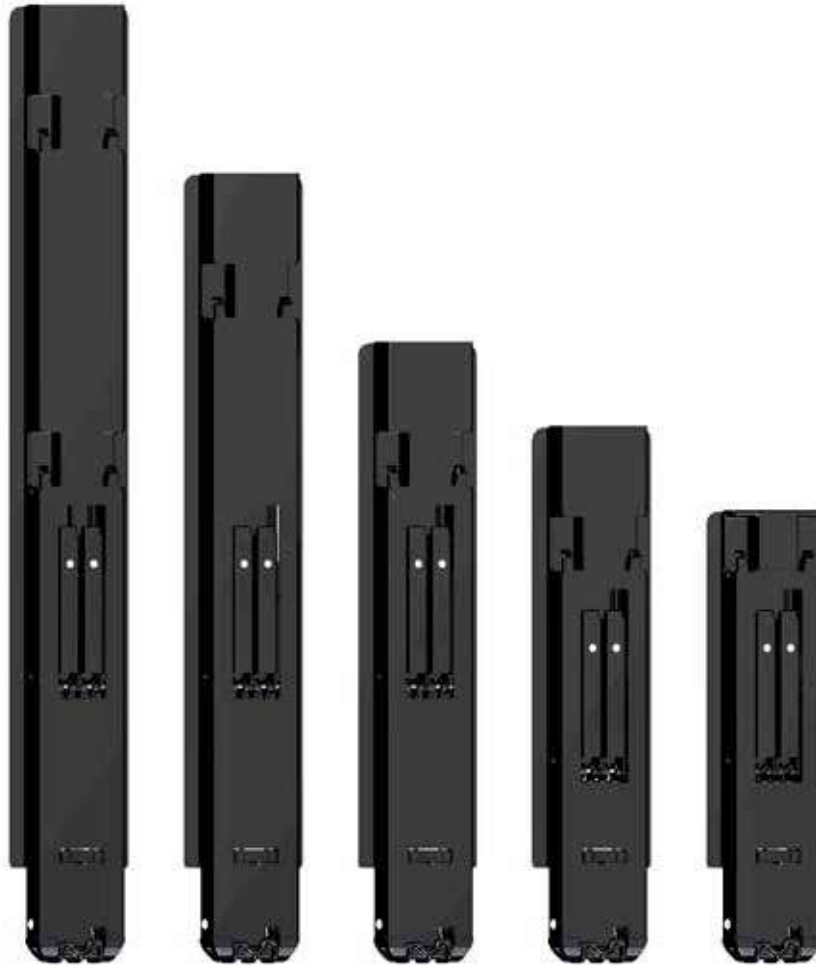
Accessories

Attached

Supplements

Safety dropside hinges 654N, 655N and 657, pockets, top trolleys, telescopes

Abbreviation	Explanation	Abbreviation	Explanation
802	Type of pillar	S	Curtainside attachment
H	Rear pillar	gVZ+Dp	Electro galvanised and thick-film-passivated
M	Middle pillar	KTL	KTL coating
P	Front pillar (fixed to frame)	mVZ	microZINQ® coating
R	Corner pillar module (profile with integrated fastener for existing corner pillar)		

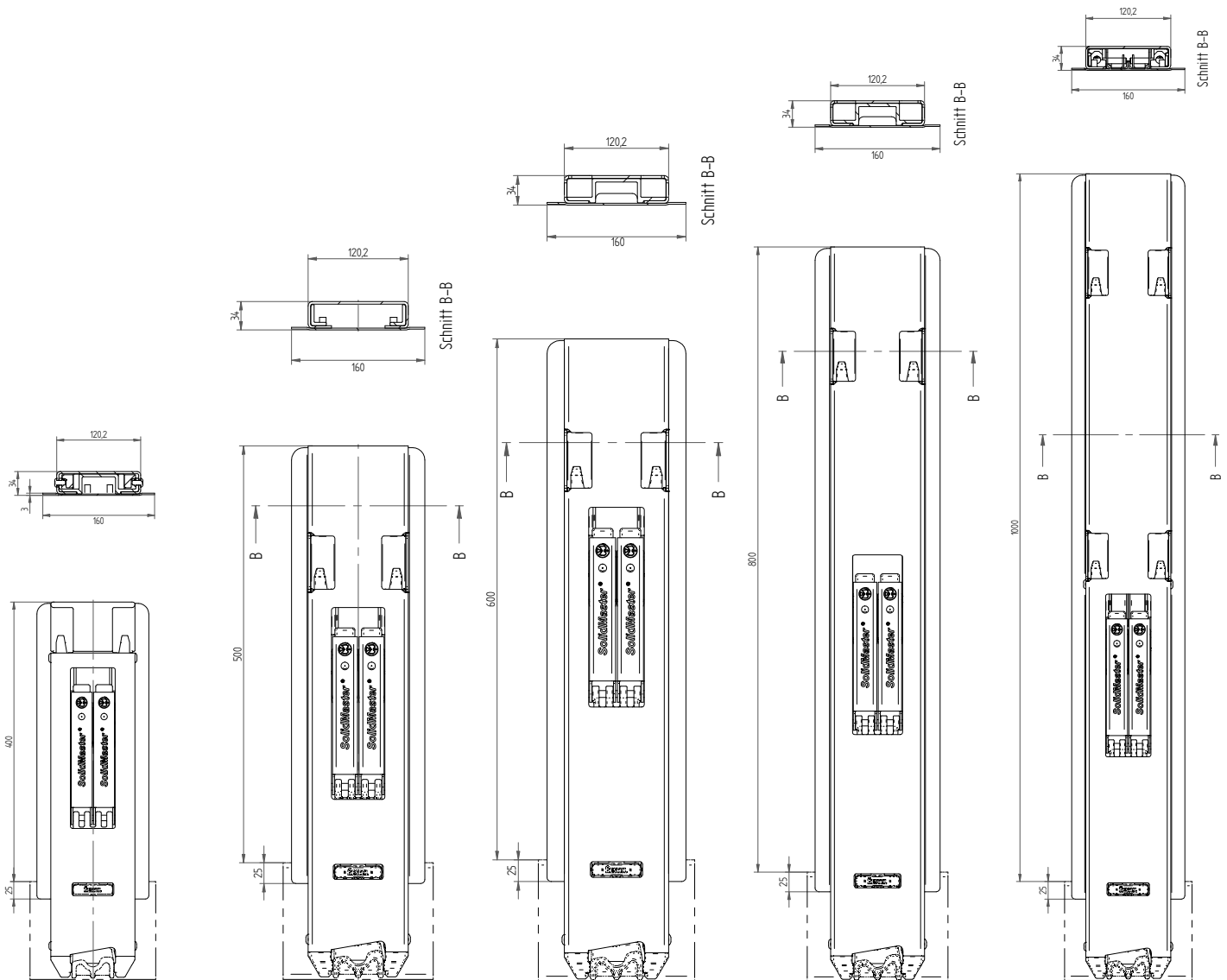
HESTAL *SolidMaster* 802M - MIDDLE PILLAR WITH INTEGRATED FASTENERS

Length [mm]	Weight [kg]	Article No.	
		KTL coating	microZINQ® coating
400	8,90	6.080.539.00	6.080.813.00
500	9,50	6.080.461.00	6.080.816.00
600	10,40	6.080.465.00	6.080.822.00
800	12,10	6.080.469.00	6.080.828.00
1000*	14,80	6.080.473.00	6.080.834.00

*with double locking

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HESTAL SolidMaster 802M - MIDDLE PILLAR WITH INTEGRATED FASTENERS



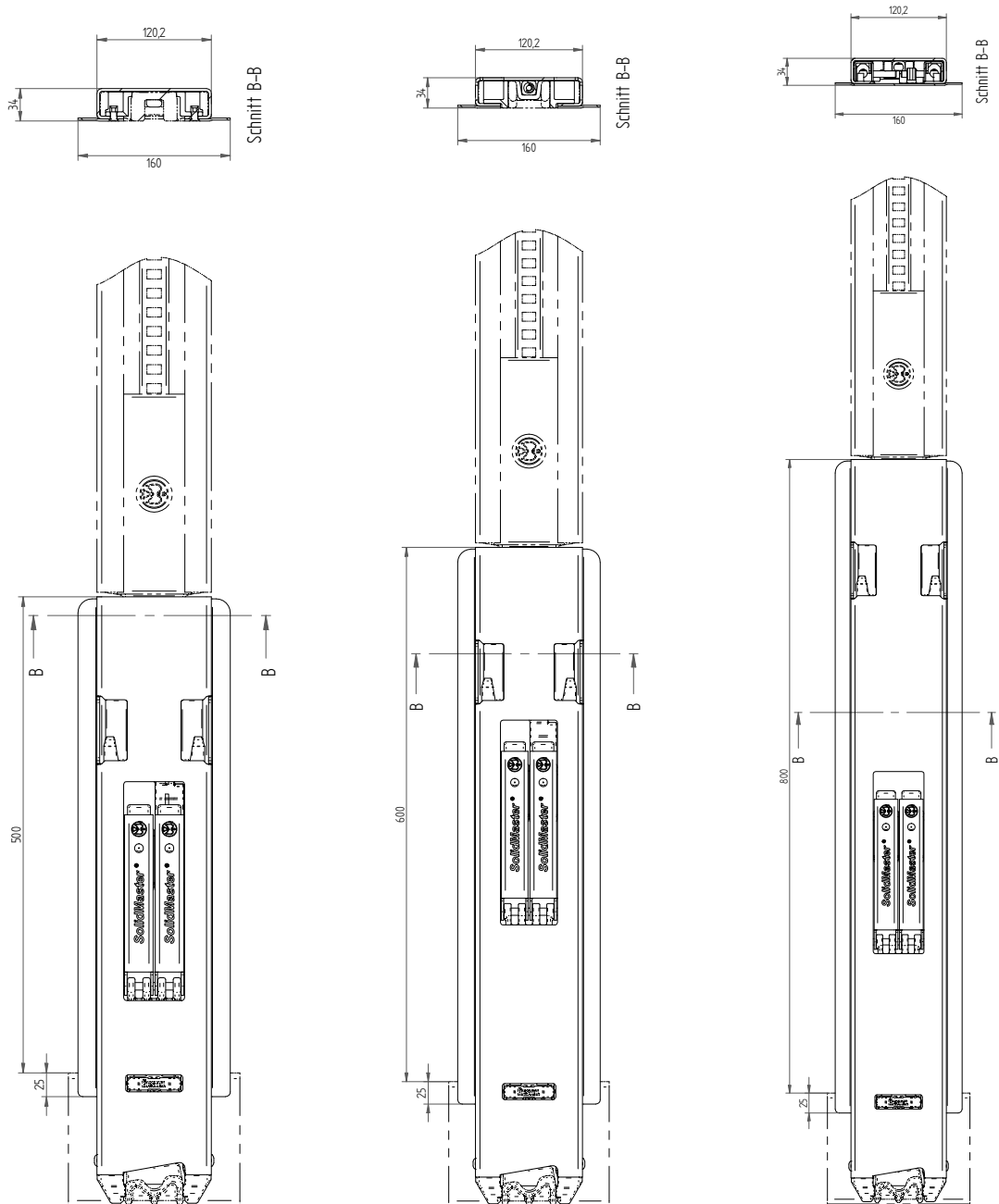
HESTAL *SolidMaster* 802MS – MIDDLE PILLAR WITH INTEGRATED FASTENERS & CURTAINSIDE ATTACHMENT

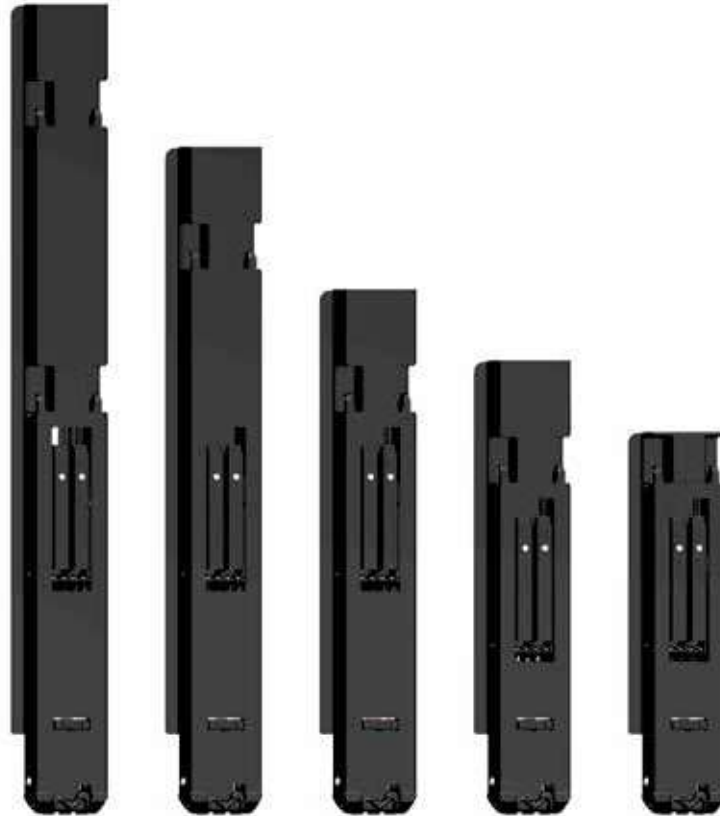


Length [mm]	Weight [kg]	Article No.	
		KTL coating	microZINQ® coating
500	9,70	6.080.463.00	6.080.819.00
600	10,60	6.080.467.00	6.080.825.00
800	12,60	6.080.471.00	6.080.831.00

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**HESTAL *SolidMaster* 802MS –
MIDDLE PILLAR WITH INTEGRATED FASTENERS & CURTAINSIDE ATTACHMENT**



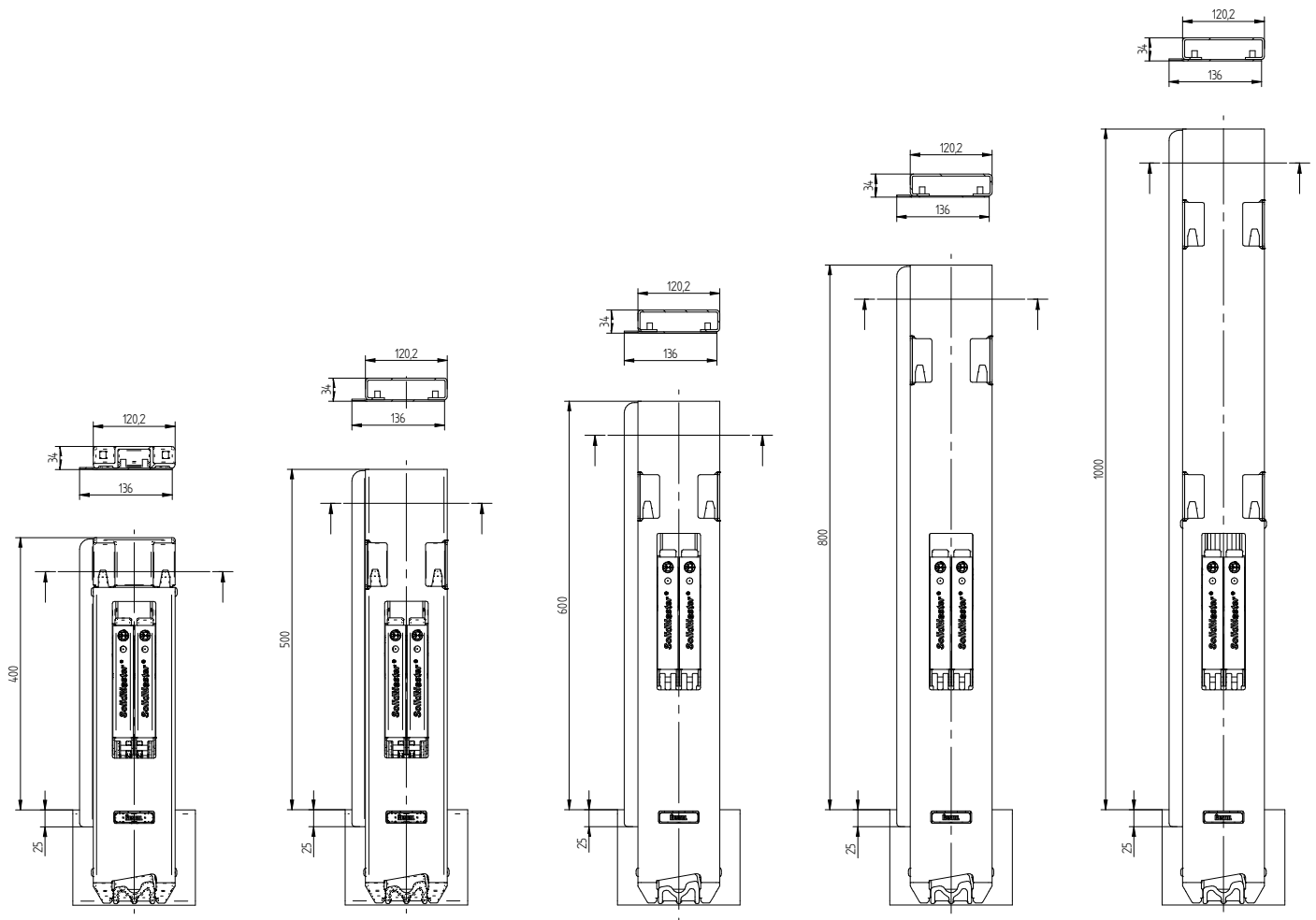
HESTAL *SolidMaster* 802H - REAR PILLAR WITH INTEGRATED FASTENERS

Length [mm]	Side	Weight [kg]	Article No.	
			KTL coating	microZINQ® coating
400	Left	8,50	6.080.552.00	6.080.814.00
400	Right	8,50	6.080.553.00	6.080.815.00
500	Left	9,20	6.080.486.00	6.080.817.00
500	Right	9,20	6.080.487.00	6.080.818.00
600	Left	10,10	6.080.494.00	6.080.823.00
600	Right	10,10	6.080.495.00	6.080.824.00
800	Left	12,10	6.080.502.00	6.080.829.00
800	Right	12,10	6.080.503.00	6.080.830.00
1000*	Left	14,80	6.080.510.00	6.080.835.00
1000*	Right	14,80	6.080.511.00	6.080.836.00

*with double locking

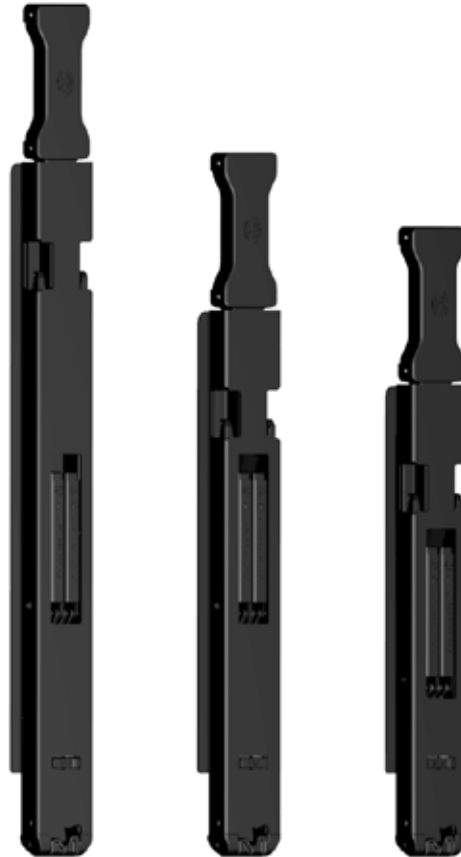
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HESTAL *SolidMaster* 802H – REAR PILLAR WITH INTEGRATED FASTENERS



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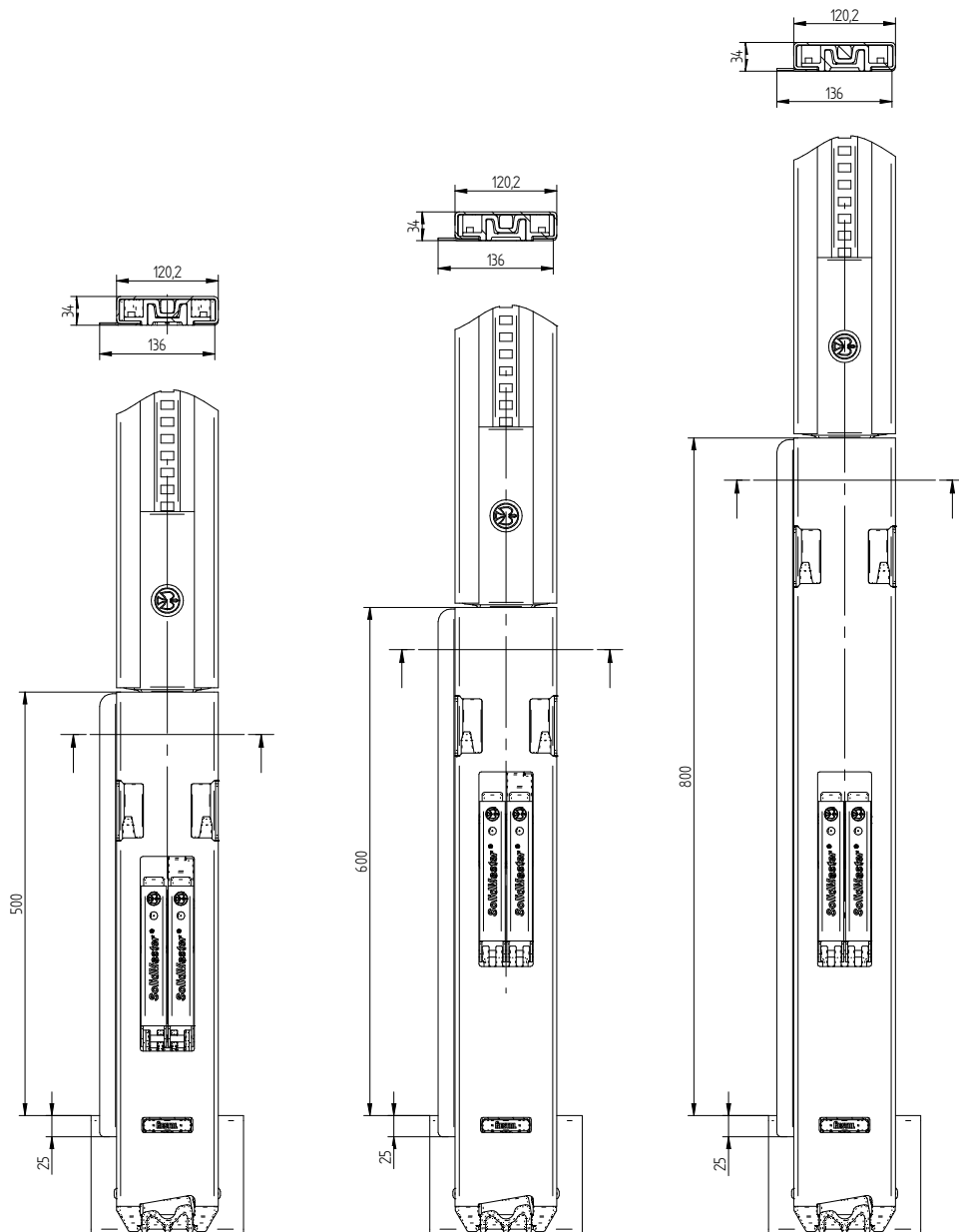
HESTAL *SolidMaster* 802HS – REAR PILLAR WITH INTEGRATED FASTENERS & CURTAINSIDE ATTACHMENT



Length [mm]	Side	Weight [kg]	Article No.	
			KTL coating	microZINQ® coating
500	Left	9,20	6.080.490.00	6.080.820.00
500	Right	9,20	6.080.491.00	6.080.821.00
600	Left	10,10	6.080.498.00	6.080.826.00
600	Right	10,10	6.080.499.00	6.080.827.00
800	Left	12,10	6.080.506.00	6.080.832.00
800	Right	12,10	6.080.507.00	6.080.833.00

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**HESTAL *SolidMaster* 802HS –
REAR PILLAR WITH INTEGRATED FASTENERS & CURTAINSIDE ATTACHMENT**



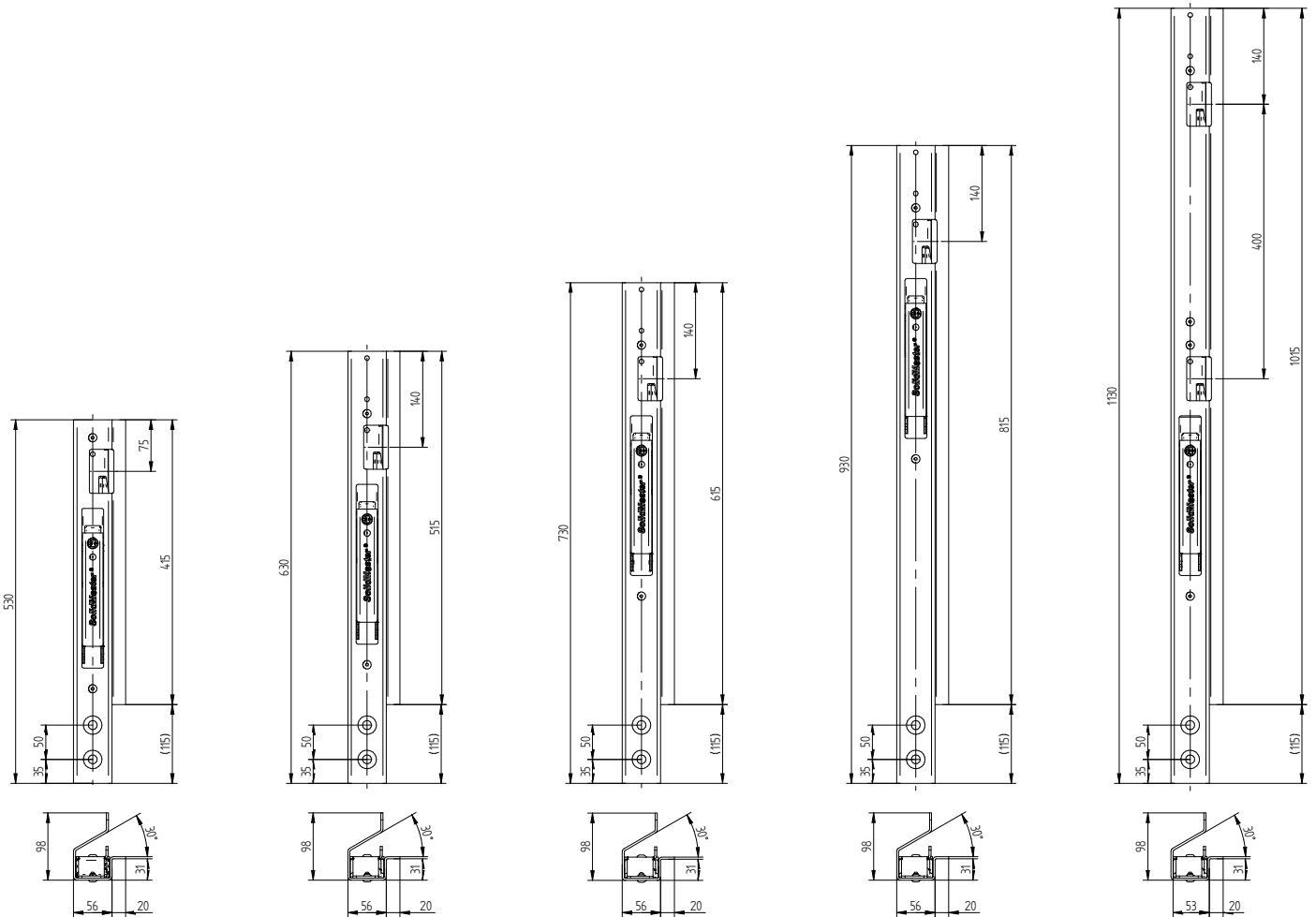
HESTAL *SolidMaster* 802P - FRONT PILLAR WITH INTEGRATED FASTENERS

Length [mm]	Side	Weight [kg]	Article No.	
			KTL coating	microZINQ® coating
400	Left	3,80	6.080.574.00	6.080.902.00
400	Right	3,80	6.080.575.00	6.080.903.00
500	Left	4,40	6.080.518.00	6.080.904.00
500	Right	4,40	6.080.519.00	6.080.905.00
600	Left	4,90	6.080.516.00	6.080.906.00
600	Right	4,90	6.080.517.00	6.080.907.00
800	Left	6,00	6.080.520.00	6.080.908.00
800	Right	6,00	6.080.521.00	6.080.909.00
1000*	Left	8,20	6.080.524.00	6.080.910.00
1000*	Right	8,20	6.080.525.00	6.080.911.00

*with double locking

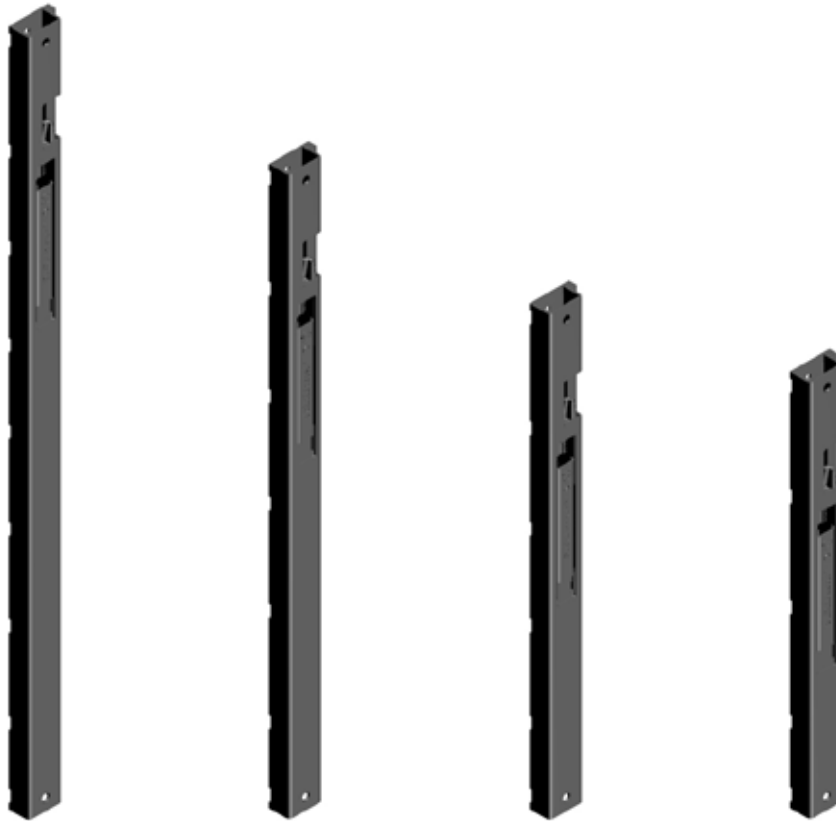
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HESTAL *SolidMaster* 802P - FRONT PILLAR WITH INTEGRATED FASTENERS



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HESTAL *SolidMaster* 802R - CORNER PILLAR (PROFILE WITH INTEGRATED FASTENER FOR EXISTING CORNER PILLAR)

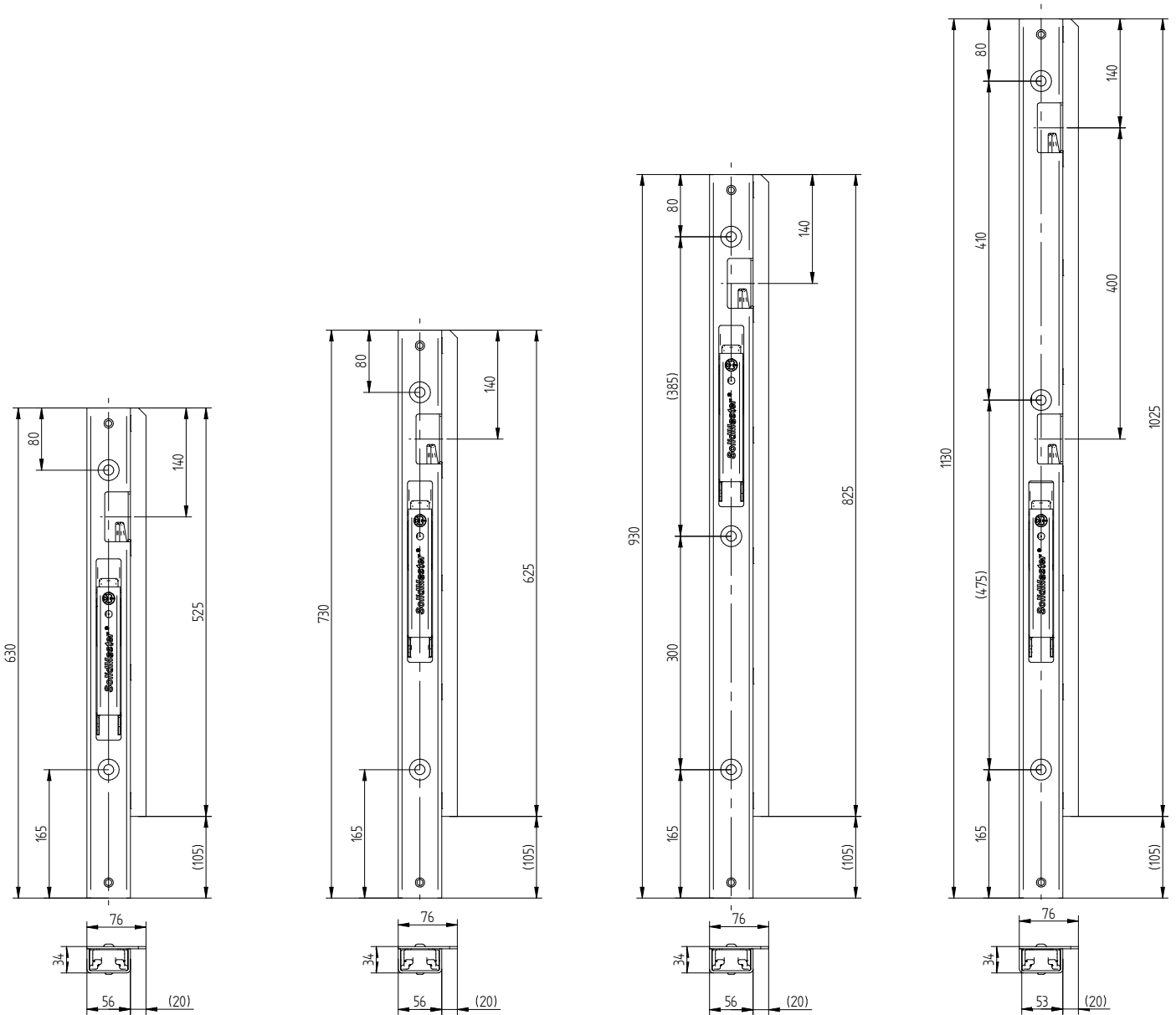


Length [mm]	Side	Weight [kg]	Article No.	
			KTL coating	microZINQ® coating
500	Left	3,20	6.080.526.00	6.080.922.00
500	Right	3,20	6.080.527.00	6.080.923.00
600	Left	3,60	6.080.528.00	6.080.924.00
600	Right	3,60	6.080.529.00	6.080.925.00
800	Left	4,50	6.080.530.00	6.080.926.00
800	Right	5,30	6.080.531.00	6.080.927.00
1000*	Left	6,10	6.080.534.00	6.080.928.00
1000*	Right	6,10	6.080.535.00	6.080.929.00

*with double locking

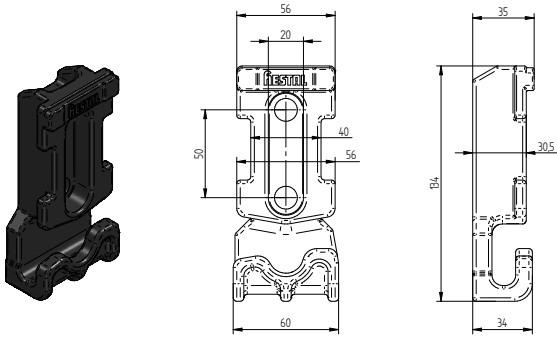
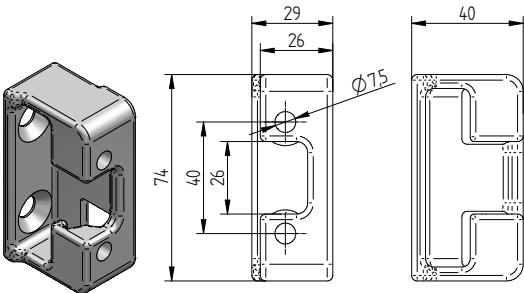
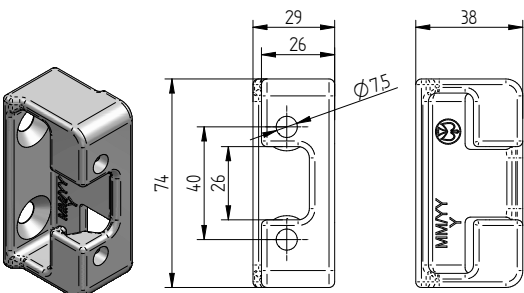
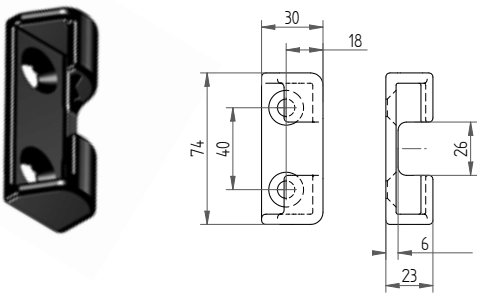
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**HESTAL *SolidMaster* 802R - CORNER PILLAR
(PROFILE WITH INTEGRATED FASTENER FOR EXISTING CORNER PILLAR)**



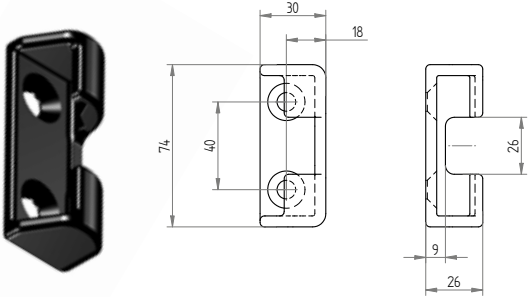
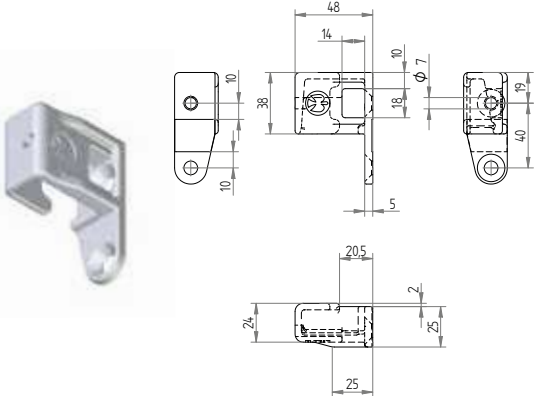
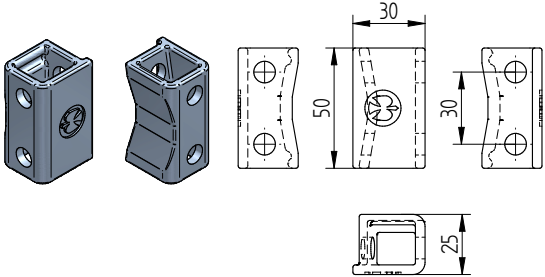
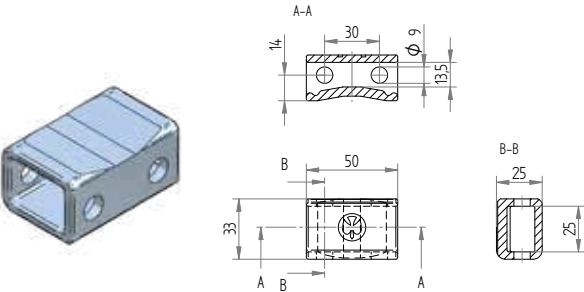
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DROPSIDE PILLARS – ACCESSORIES

Figure	Description	Weight [kg]	Article No.
	<p>801/802 Pillar bearing</p> <p>M12 raw M12 KTL M12 galvanised M14 raw M14 KTL</p>	<p>0,85</p>	<p>6.090.201.98 6.090.201.99 6.090.291.99 6.090.293.00 6.090.227.00</p>
	<p>801M Pillar pocket for fastener 681</p>	<p>0,26</p>	<p>6.071.167.99</p>
	<p>801M Pillar pocket for fastener 681</p>	<p>0,23</p>	<p>6.071.171.99</p>
	<p>801H Pillar pocket for fastener 681</p>	<p>0,15</p>	<p>6.071.165.99</p>

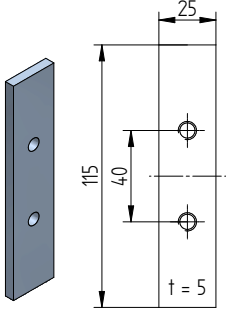
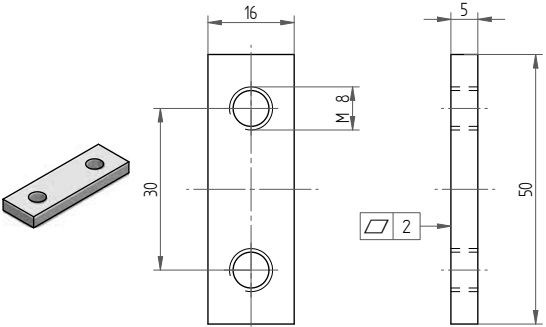
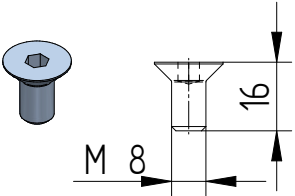
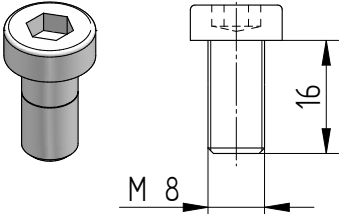
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DROPSIDE PILLARS – ACCESSORIES

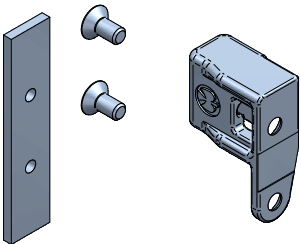
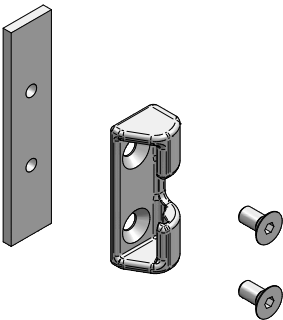
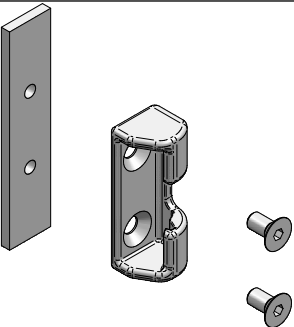
Figure	Description	Weight [kg]	Article No.
	<p>801H Pillar pocket high for fastener 681</p>	<p>0,17</p>	<p>6.071.166.99</p>
	<p>801M Pillar pocket for fastener 710</p> <p>Left Right</p>	<p>0,20</p>	<p>6.071.159.99 6.071.160.99</p>
	<p>802H Fastener pocket</p> <p>KTL Electro galvanised & thick-film-passivated</p>		<p>6.071.164.99 6.071.178.99</p>
	<p>802M Fastener pocket</p> <p>KTL Electro galvanised & thick-film-passivated</p>		<p>6.071.156.99 6.071.177.99</p>

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DROPSIDE PILLARS – ACCESSORIES

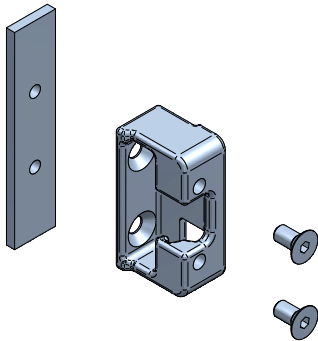

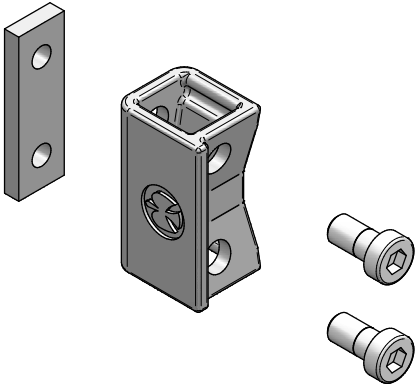
Figure	Description	Weight [kg]	Article No.
	<p>801 Threaded plate M8</p>		<p>6.071.158.00</p>
	<p>802 Threaded plate M8</p>	<p>0,03</p>	<p>6.071.157.00</p>
	<p>801 Countersunk head screw M8x16</p>	<p>0,01</p>	<p>6.071.159.10</p>
	<p>802 Fillister head screw M8x16</p>	<p>0,01</p>	<p>6.071.156.10</p>

DROPSIDE PILLARS – ACCESSORIES

Figure	Description	Weight [kg]	Article No.
	<p>801M SolidMaster accessory set, right Pillar pocket Countersunk head screw M8x16 Threaded plate</p>	0,31	6.850.047.00
	<p>801M SolidMaster accessory set, left Pillar pocket Countersunk head screw M8x16 Threaded plate</p>	0,31	6.850.051.00
	<p>801H SolidMaster accessory set for rear pillar Pillar pocket Countersunk head screw M8x16 Threaded plate</p>	0,25	6.850.048.00
	<p>801H SolidMaster accessory set for rear pillar high Pillar pocket Countersunk head screw M8x16 Threaded plate</p>	0,25	6.850.049.00

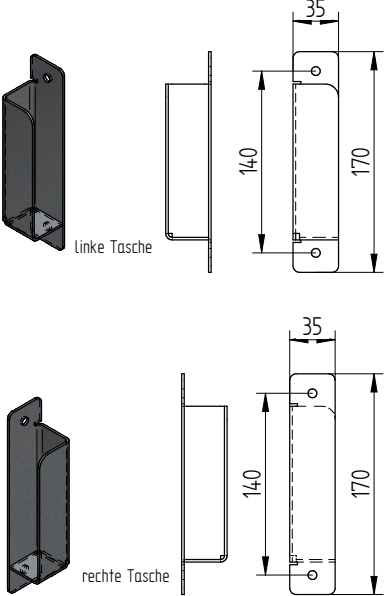
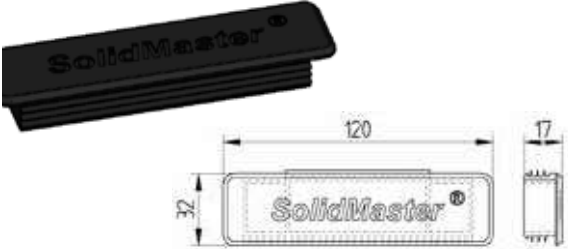
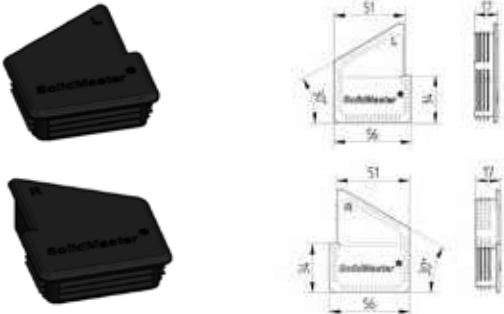
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DROPSIDE PILLARS – ACCESSORIES

Figure	Description	Weight [kg]	Article No.
	<p>801M SolidMaster accessory set for middle pillar Pillar pocket Countersunk head screw M8x16 Threaded plate</p>	0,25	6.850.050.00
	<p>802M SolidMaster accessory set for middle pillar KTL Electro galvanised & thick-film-passivated Fastener pocket Fillister head screw M8x16 Threaded plate</p>	0,19	<p>6.850.054.00 6.850.078.00</p>
	<p>802H SolidMaster accessory set for rear pillar KTL Electro galvanised & thick-film-passivated Fastener pocket Fillister head screw M8x16 Threaded plate</p>	0,25	<p>6.850.055.00 6.850.079.00</p>

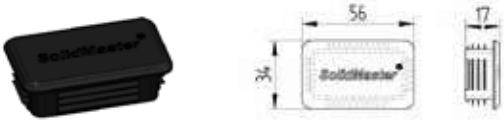
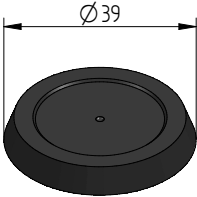
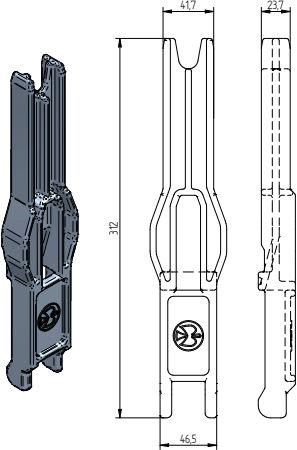
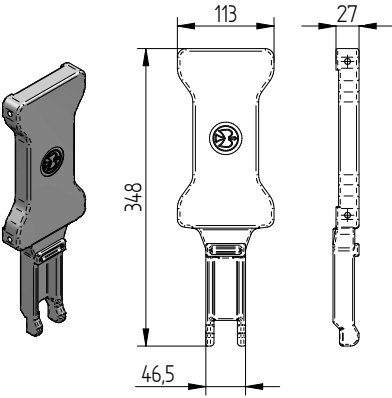
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DROPSIDE PILLARS – ACCESSORIES

Figure	Description	Weight [kg]	Article No.
	<p>802H Pocket Left Right</p>	<p>0,23</p>	<p>6.800.442.00 6.800.442.10</p>
	<p>801/802M Cover cap</p>	<p>0,02</p>	<p>6.090.214.01</p>
	<p>802P Cover cap Left Right</p>	<p>0,02</p>	<p>6.090.214.02 6.090.214.03</p>

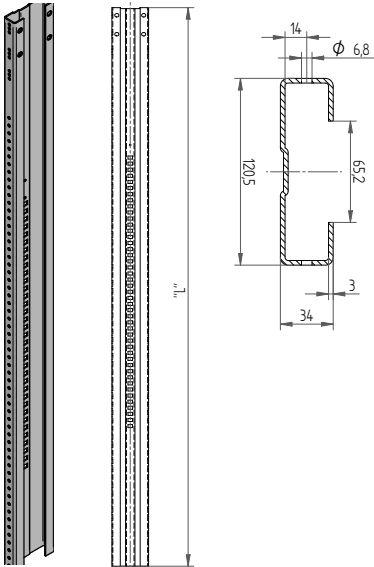
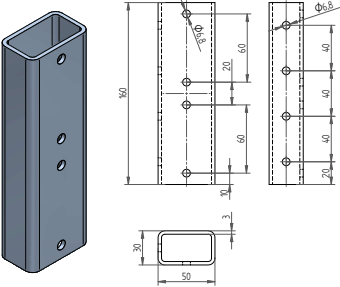
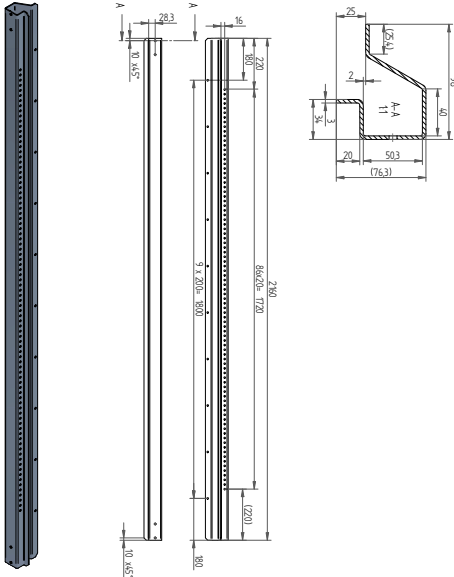
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DROPSIDE PILLARS – ACCESSORIES

Figure	Description	Weight [kg]	Article No.
	<p>802R Cover cap</p>	<p>0,02</p>	<p>6.090.214.04</p>
	<p>802PR Cover cap screw hole</p>		<p>6.670.006.01</p>
	<p>801/802S Centre piece narrow Raw KTL</p>	<p>1,40</p>	<p>6.090.204.98 6.090.204.99</p>
	<p>801/802S Centre piece KTL Without thread With thread</p>	<p>2,14</p>	<p>6.090.203.99 6.090.203.50</p>

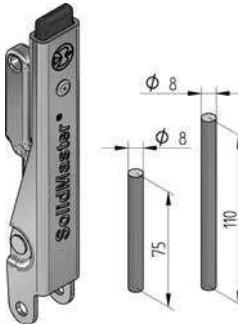
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DROPSIDE PILLARS – ACCESSORIES

Figure	Description	Weight [kg]	Article No.
	<p>801/802S C-Profile for curtainside attachment</p> <p>Length: 1425mm 1625mm 1775mm 1830mm</p>	<p>7,30 8,36 9,09 9,39</p>	<p>6.090.219.10 6.090.219.30 6.090.219.20 6.090.219.40</p>
	<p>802P Adapter for front pillar extension</p>	<p>0,52</p>	<p>6.090.211.02</p>
	<p>802P Front pillar extension for front pillar 2160mm</p> <p>KTL Galvanised</p>	<p>0,02</p>	<p>6.090.211.01 6.090.211.03</p>

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DROPSIDE PILLARS – ACCESSORIES

Figure	Description	Weight [kg]	Article No.
	<p>802 SolidMaster Spare part set hand lever mechanism</p> <p>BG drive Bolt Ø 8x75 Bolt Ø 8x110 Repair instructions Drawing Ziplock bag DIN A5</p>	0,34	6.850.040.00

OVERVIEW



- **HESTAL *LiftMaster* mechanical 750N**
- **HESTAL *LiftMaster* mechanical 770N**
- **HESTAL *LiftMaster* hydraulic 771N**
- **HESTAL *LiftMaster* hydraulic 855N**

HESTAL *LiftMaster*

Hesterberg provides the commercial vehicle industry with numerous roof height adjustment systems under the name HESTAL *LiftMaster*. These are mainly used in curtainsider vehicles (trucks, trailers and swap bodies).

The *LiftMaster* is basically used for two reasons:

Firstly, to lift the vehicle roof for loading and unloading operations and to lower it afterwards. By this the entire cargo space can be used right up to the roof, because the required loading height is ensured by the lifted roof.

Secondly, to adjust the height of the vehicle roof to the required loading volume. On the one hand, the roof can be lifted and pegged for more space during transportation (under consideration of the total permitted vehicle height) or, on the other hand, lowered completely for efficient fuel consumption.







Advantages

- › Optimal use of cargo space due to maximum loading
- › Permanent height pegging allows to drive with a lifted or lowered roof (under consideration of the total permitted vehicle height)
- › Suitable for roof weights (including pillars, tarpaulin, etc.) up to 1,600kg
- › Possible to lift the roof up to 580mm
- › Easy operation
- › Compact installation dimensions
- › High degree of corrosion protection due to KTL coating or galvanisation
- › Extensive product range for a large number of applications
- › Use of identical roof connection and hole patterns (guiding channel) for easy exchange of the different *LiftMaster* types

Product types

The HESTAL *LiftMaster* range consists of four different types which are interchangeable due to a modular design.

The following table gives an overview of the essential characteristics of these *LiftMaster* types to provide guidance for choosing an appropriate system.

LiftMaster type	750N	770N	771N	855N
Figure				
Principle	mechanism		hydraulics	
Drive type	knee lever single lift mechanism	knee lever push rod	compact hydraulics	hydropneumatics
Operation	manual	manual	manual	automatic
Roof weight [kg]	0 – 800	400 – 1,000	200 – 1,200	300 – 1,600
Roof lift [mm]	defined 300	variable up to max. 500	variable up to max. 550	variable up to max. 580
Max. pegging heights [mm]	50/100 (defined) or 60/100 (defined)	120/170 (in steps of 10) 300 (in steps of 50)	250 (in steps of 50) or 240 (in steps of 60)	450 (custom)
Min. installation length [mm]	2,747	2,451	2,477	1,641
Special features	for lighter roofs, very quick and simple, robust mechanics	broad range of applica- tions, quick and convenient, proven system	for heavy roofs, many pegging options, reliable hydraulics	for very frequent lifting of very heavy roofs, very convenient solution

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HESTAL *LiftMaster* 750N

The *LiftMaster* 750N is driven by a knee lever single lift mechanism which is supported by a gas spring. The integrated fall brake prevents the hand lever from being shifted suddenly especially in case of an accident. This ensures a high level of safety for the user.

The *LiftMaster* 750N is especially suited to vehicles with light roofs, because in addition to the complete lifting of the vehicle roof with just one stroke, the roof can also be actively pulled downwards and thus securely locked. This type is also popularly used for intercompany transportation with many loading and

unloading operations because the roof can be opened and closed very easy.

The *LiftMaster* 750N offers a defined roof height of 300mm and enables permanent pegging at heights of 50 or 100mm respectively 60 or 100mm so that driving with a lifted or lowered roof (under consumption of the total permitted vehicle height) is possible. Different gas springs are available for roof weights (including pillars, tarpaulin, etc.) up to 800kg. Upon request, the *LiftMaster* 750N can be fitted very easily with a customer logo on the hand lever.

Advantages

- › Suitable for roof weights (including pillars, tarpaulin, etc.) up to 800kg (different gas springs necessary)
- › Defined lifting of the roof by 300mm
- › Roof pegging to 50 or 100mm respectively to 60 or 100mm height possible
- › Very quick and easy opening and closing of the roof
- › Robust, compact and very secure design
- › Durable due to galvanised surfaces
- › Simple attaching of customer logos onto the hand lever
- › Certified by the German Social Accident Insurance (DGUV -Deutsche Gesetzliche Unfallversicherung)



Standard product versions

Basic modules <i>LiftMaster</i> 750N		Basic module Hesterberg article number	Basic module BPW article number
Basic module with pegging heights 50/100 (without gas spring)		6.810.202.00	92.0000.7542
Basic module with pegging heights 60/100 (without gas spring)		6.810.232.00	92.0000.7771
Gas spring <i>LiftMaster</i> 750N		Gas spring Hesterberg article number	Gas spring BPW article number
Roof weight (including pillars, tarpaulin, etc.) [kg]	Nominal gas spring force [N]		
up to 330	600	6.810.202.84	92.0000.7547
330 – 480	900	6.810.202.60	92.0000.7543
480 – 600	1,300	6.810.202.68	92.0000.7544
600 – 700	1,400	6.810.202.72	92.0000.7545
700 – 800	1,600	6.810.202.76	92.0000.7546

In addition to the basic module a gas spring is needed for a functional *LiftMaster* 750N. The appropriate gas spring for the roof weight needs to be ordered separately.

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HESTAL *LiftMaster 770N*

The proven *LiftMaster 770N* uses a knee lever mechanism patented by Hesterberg to lift the vehicle roof. This *LiftMaster* type is characterised by a very high level of user convenience, because the principle of operation employed enables a very easy, quick and variable roof lift. In addition, optimal adjustment to the vehicle is possible by shortening the hand lever.

Synthetic bearings have recently been integrated into the *LiftMaster 770N* in order to improve the service life and the ease of use even more. The connection between the lifting mechanism and the guiding channel

will be optimised for an easy and convenient assembly from the outside.

The *LiftMaster 770N* is suitable for roof weights (including pillars, tarpaulin, etc.) up to 1,000kg and enables a variable roof lift of up to 500mm. Depending on the version, the roof can be pegged at a maximum height of 120, 170 or 300mm, so that driving with a lifted or lowered roof (under consumption of the total permitted vehicle height) is possible. Thus the *LiftMaster 770N* covers a wide spectrum of applications.

Advantages

- › For roof weights (including pillars, tarpaulin, etc.) up to 1,000kg
- › Variable lifting of the roof up to 500mm possible
- › Roof pegging up to 120, 170 or 300mm (with steps of 10 or 50mm possible)
- › Proven and reliable system for a broad spectrum of applications
- › Improved service life due to synthetic bearings
- › Ergonomic, easy and very quick operation
- › Assembly from outside possible
- › Adaptable to vehicle and user by shortening the hand lever
- › Certified by the German Social Accident Insurance (DGUV -Deutsche Gesetzliche Unfallversicherung)



Standard product versions

Max. lifting height [mm]	300		400		500	
Max. pegging height [mm]	120 (in steps of 10)	120 (in steps of 10)	120 (in steps of 10)	120 (in steps of 10)	170 (in steps of 10)	300 (in steps of 50)
Complete system Hesterberg article number	6.810.179.00	6.810.168.00	6.810.169.00	6.810.169.00	6.810.183.00	6.810.199.00
Complete system BPW article number	92.0000.5330	95.0000.0030	95.0000.0031	95.0000.0031	92.0000.7419	92.0000.5791

Special versions possible upon request.

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HESTAL *LiftMaster* 771N

New to the series is the *LiftMaster* 771N which uses a compact hydraulic system that has already been proven in large-scale production. Thanks to the optimised hydraulics and the doubly supported hand lever, this *LiftMaster* type is characterised by a very ergonomic and easy operation.

The *LiftMaster* 771N can be used for roof weights (including pillars, tarpaulin, etc.) up to 1,200kg. The roof can be lifted incrementally up to 550mm and pegged at heights of 50, 100, 150, 200 and 250mm or

60, 120, 180 and 240mm without tools, so that driving with a lifted or lowered roof (under consumption of the total permitted vehicle height) is possible.

The *LiftMaster* 771N is characterised by a high-quality and robust two-pipe design. The integrated overload safeguard protects against incorrect operation. A long service life is thus ensured. The roof connection is part of the *LiftMaster* modular system, whereby an easy conversion to this version is possible.

Advantages

- › For roof weights (including pillars, tarpaulin, etc.) up to 1,200kg
- › Variable lifting of the roof up to 550mm possible
- › Adjustment of the roof pegging without tools (in steps of 50 or 60mm) possible up to a maximum height of 250 or 240mm
- › Highly reliable system proven in large-scale production
- › Robust and high-quality two-pipe design
- › Optimised power transmission of the hydraulics
- › Ergonomic and easy operation
- › Integrated overload protection for the prevention of damage to the hydraulics in the event of incorrect operation



Standard product versions

<i>LiftMaster</i> 771N	Hesterberg article number	BPW article number
Complete system for a maximum pegging height of 250mm (in steps of 50mm)	6.810.221.00	92.0000.7548
Complete system for a maximum pegging height of 240mm (in steps of 60mm)	6.810.231.00	92.0000.7756

HESTAL *LiftMaster* 855N

The hydropneumatic *LiftMaster* 855N is offered as a tailored solution. The *LiftMaster* roof height adjustment units are connected individually with pre-filled and customised hydraulic hoses to the central hydraulic unit.

The *LiftMaster* 855N is especially well-suited for frequent lifting of very heavy roofs up to a maximum weight of 1,600kg, which can be lifted either unilaterally or completely. The roof can be lifted automatically with this *LiftMaster* type up to 580mm and pegged to a maximum height of 450mm, whereby the pegging

height needs to be defined and introduced by the customer.

The automatic operation of the *LiftMaster* 855N is secured by a dead man's switch. In default, the roof can also be lifted with the integrated hand pump. The quick-release couplings of the hydraulic hoses do not only enable a simple initial installation but also an easy exchange in case of damage.

Advantages

- › For roof weights (including pillars, tarpaulin, etc.) up to 1,600kg
- › Variable lifting of the roof up to 580mm possible
- › Pegging heights up to a maximum height of 450mm possible, to be defined and introduced by the customer
- › Convenient and easy operation
- › Robust and reliable system, even for high frequency usage and heavy roofs
- › Quick roof lifting due to central control by the hydraulic unit
- › In case of default lifting with hand pump possible
- › Integrated overload protection for the prevention of damage to the hydraulics in the event of incorrect operation



Standard product versions

<i>LiftMaster</i> 855N	Hesterberg article number	BPW article number
System without hoses	6.810.090.00	95.0000.0034

Please ask Hesterberg directly about hydraulic hoses which match your vehicle superstructure.

HESTAL LiftMaster 750N – INDIVIDUAL COMPONENTS

Figure	Description	Weight [kg]	Article No.
	BG guiding channel for LiftMaster 750N	2,08	6.810.202.99
	BG2 push tab for LiftMaster 750N	3,80	6.810.202.98
	BG knee-lever, complete for LiftMaster 750N 50mm plug-in unit 60mm plug-in unit	3,77	6.810.202.97 6.810.232.99
	Gas spring for LiftMaster 750N Up to 330kg roof weight 330 to 480kg roof weight 480 to 600kg roof weight 600 to 700kg roof weight 700 to 800kg roof weight	0,21	6.810.202.84 6.810.202.60 6.810.202.68 6.810.202.72 6.810.202.76
	BG hand lever with hand lever bearing for LiftMaster 750N	2,50	6.810.202.96
	Set of small parts for LiftMaster 750N	0,26	6.810.202.57

HESTAL LiftMaster 770N – INDIVIDUAL COMPONENTS

Figure	Description	Weight [kg]	Article No.
	BG guiding channel 120 for LiftMaster 770N, 771N, 855N	6,58	6.810.078.59
	BG guiding channel 170 for LiftMaster 770N	6,64	6.810.067.59
	BG guiding channel 300 for LiftMaster 770N	6,64	6.810.194.59
	BG lifting mechanism for LiftMaster 770N 300mm lifting height, 120mm pegging height 400mm lifting height, 120mm pegging height 500mm lifting height, 120mm pegging height 500mm lifting height, 170mm pegging height 500mm lifting height, 300mm pegging height	10,04	6.810.179.60 6.810.168.60 6.810.169.60 6.810.183.60 6.810.199.60
	BG hand lever for LiftMaster 770N	0,85	6.810.060.53
	Set of small parts for LiftMaster 770N and 855N	0,21	6.810.085.81

HESTAL LiftMaster 771N – INDIVIDUAL COMPONENTS

Figure	Description	Weight [kg]	Article No.
	BG guiding channel 120 for LiftMaster 770N, 771N, 855N	6,58	6.810.078.59
	Compact hydraulics for LiftMaster 771N	5,06	6.810.222.60
	Adapter rod for LiftMaster 771N	0,68	6.810.222.01
	BG retaining clamp with plug-in unit 50mm for LiftMaster 771N	0,30	6.810.221.98
	BG retaining clamp with plug-in unit 60mm for LiftMaster 771N	0,30	6.810.221.99
	BG hand lever with plug-in unit for LiftMaster 771N	0,49	6.810.221.50

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HESTAL LiftMaster 771N – INDIVIDUAL COMPONENTS

Figure	Description	Weight [kg]	Article No.
	Stop washer for LiftMaster 771N	0,02	6.810.221.07
	Guiding angle for LiftMaster 771N	0,06	6.810.221.02
	Pivot bearing for LiftMaster 750N, 770N, 771N, 855N	0,15	6.810.078.99

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HESTAL LiftMaster 855N – INDIVIDUAL COMPONENTS

Figure	Description	Weight [kg]	Article No.
	<p>BG guiding channel 120 for LiftMaster 770N, 771N, 855N</p>	6,58	6.810.078.59
	<p>Hydraulic cylinder for LiftMaster 855N</p>	3,00	6.810.088.53
	<p>Hydraulic unit for LiftMaster 855N</p>	6,14	6.810.088.03
	<p>Set of small parts for LiftMaster 770N and 855N</p>	0,21	6.810.085.81

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OVERVIEW



- **HESTAL *CargoMaster* 501, 502**
- **VarioSave**

HESTAL *CargoMaster*

The patented HESTAL *CargoMaster* is a specifically designed expander rope system for load securing. Thanks to this system, load securing equipment like straps, nets or tarpaulins does no longer need to be thrown over the loading good manually.

Due to an intelligent swivel and clamping technology, the unused straps, nets or tarpaulins are pulled for storage automatically very close under the vehicle roof. In this position they are not disturbing the loading process and are at hand any time to quickly and easily secure cargo from the ground.

The *CargoMaster* is mainly used in full-cover vehicles or curtainsiders (truck and trailer). The modular system can be integrated into the vehicle by using different fastening options and differs according to the type of load securing equipment used.

The system can be attached to the roof in two different ways. Type 501 enables a fixed connection of the *CargoMaster* with attachment straps or hose clamps. The attachment straps are wrapped around the roof beams while the hose clamps are attached to the roof bows.

Type 502 is a sliding rail system which is riveted to the roof rail. Due to the guided roller carriages the *CargoMaster* can be positioned not only easily but also exactly above the cargo. This enables a very fast, effective and safe load securing process.

Both *CargoMaster* roof attachment types are available as two variants. In case straps shall be used, Type S is needed, while Type N is suitable for nets and tarpaulins.

CargoMaster types

Type of roof attachment			Full-cover tarpaulin		Curtainsider	
			Type of load securing equipment			
			Straps (Type S)	Nets / Tarpaulins (Type N)	Straps (Type S)	Nets / Tarpaulins (Type N)
Type 501	Attachment straps for roof beams		✓			
	Hose clamps for roof bows		✓			✓
Type 502	Sliding rails for roof rails					✓ *

* Check of roof rail is necessary to ensure that the sliding rail can be attached (see check list)

CargoMaster roof attachment

Type 501	Type 502
Very light and high quality expander rope system	
Several options for roof attachments	
Safe and easy installation of the expander rope system under non-tensioned condition	
Easy and direct attachment to the roof with attachment straps or hose clamps	Quick and safe riveting of the sliding rail system to the roof rail due to an intelligent bracket system
	Size-optimised roller carriages with high quality ball bearing
	Expander rope system can be moved smoothly in longitudinal direction with the sliding rails

Components roof attachment Type 501

The attachment strap fastening consists of:

- › Attachment straps
- › Snap hooks

The hose clamp fastening consists of:

- › Hose clamps
- › Snap hooks
- › D-rings

Components roof attachment Type 502

- › Sliding rails
- › Single brackets
- › Double brackets
- › Stoppers
- › Rivets and screws

CargoMaster load securing equipment

The two *CargoMaster* Types S and N differ in the load securing equipment that shall be used to secure the cargo on the truck or trailer. While straps are connected to the expander ropes by means of guiding plates,

nets and tarpaulins are fixed by snap hooks. The load securing equipment is not included in the scope of delivery.



CargoMaster Type 502S



CargoMaster Type 502N

Benefits

- › Time saving because the strap lifts, nets or tarpaulins are always at hand and the cargo can be secured quickly and easily from the ground
- › Increase of durability and cleanness of the used load securing equipment
- › Minimised space of the *CargoMaster* expander rope system due to patented swivel and clamping technology
- › Improved traffic and work safety because the system can be used so easily and fast from the ground, that the motivation for load securing rises and the operator does not need to climb up the vehicle anymore.

Application examples



Space-saving system



Increased cleanness



Always at hand



Flexible system



Fast positioning



Easy load securing

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Product overview

Type of roof attachment	Type of load securing equipment			
	Type S for straps			
	Drawing	Number of CargoMaster	Hesterberg article number	BPW article number
Type 501 with attachment straps		1	1.000.319.00	92.0000.7313
		6	1.000.320.00	92.0000.7132
		12	1.000.321.00	92.0000.7137
Type 501 with hose clamps		1	1.000.322.00	92.0000.7314
		6	1.000.323.00	92.0000.7138
		12	1.000.324.00	92.0000.7139
Type 502 with roller carriages		1	1.000.310.00	92.0000.5711
		6	1.000.317.00	92.0000.7135
		12	1.000.318.00	92.0000.7136
Type 502 with roller carriages incl. sliding rail system (complete system)		6	1.000.315.00¹	92.0000.7133
		12	1.000.316.00²	92.0000.7134
	Type N for nets or tarpaulins			
Type 501 with attachment straps		1	1.000.329.00	92.0000.7842
		6	1.000.330.00	92.0000.7843
		12	1.000.331.00	92.0000.7844
Type 501 with hose clamps		1	1.000.332.00	92.0000.7845
		6	1.000.333.00	92.0000.7846
		12	1.000.334.00	92.0000.7847
Type 502 with roller carriages		1	1.000.326.00	92.0000.7856
		6	1.000.327.00	92.0000.7840
		12	1.000.328.00	92.0000.7841
Type 502 with roller carriages incl. sliding rail system (complete system)		6	1.000.335.00³	92.0000.7848
		12	1.000.336.00⁴	92.0000.7849
Sliding rail system suitable for Type S and Type N				
Sliding rail system		Small (7m-superstructures)	1.000.315.54	92.0000.7851
		Large (14m-superstructures)	1.000.316.54	92.0000.7852

Load securing equipment e.g. straps, nets or tarpaulins are not included in the scope of delivery

¹ 1.000.315.00 for 7m-superstructures = 1.000.315.54 + 1.000.317.00

² 1.000.316.00 for 14m-superstructures = 1.000.316.54 + 1.000.318.00

³ 1.000.335.00 for 7m-superstructures = 1.000.315.54 + 1.000.327.00

⁴ 1.000.336.00 for 14m-superstructures = 1.000.316.54 + 1.000.328.00

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VarioSAVE®

Load securing



VarioSAVE

In conjunction with our aluminium HESTAL BASE flat-bed kit, the VarioSAVE system is the positive-fit load securing for piece goods and long material in the field of steel and long load transports.

VarioSAVE can be positioned variably and used in longitudinal and transverse direction within the cargo space. Various methods of securing e.g. mobile bulkhead versions and variable lashing possibilities of the VarioSAVE sticks allow individual loading. This depends on the goods being transported.

The aluminium VarioSAVE system can also be used as a lashing point (Fig. 1). This enables the load securing aid to be optimised according to the goods being transported. As a result the loading time will be shortened significantly.

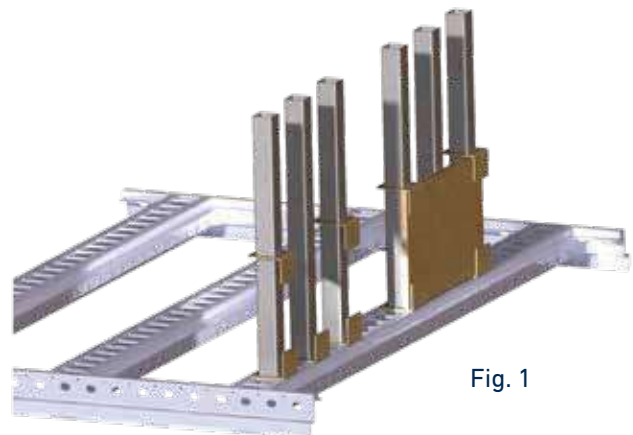


Fig. 1

Users say: "...never again without..."

"We save approx. 30 minutes loading time per vehicle during loading of our delivery vehicles on the eve, we can load with positive-fit locking in several levels and randomly need additional lashing aids ..."; says plant manager Mr Heimann at G. Elsinghorst Stahl und Technik GmbH in Bocholt who, with 7 vehicles, was one of the first VarioSAVE customers in Germany.

"VarioSAVE can be used very efficiently for mixed loads in regional delivery transports. 10 minutes load securing time can be easily saved at each place of unloading on the customer's premises. With four to six unloading points a day, that means up to 5 hours load securing time saved per week and vehicle."

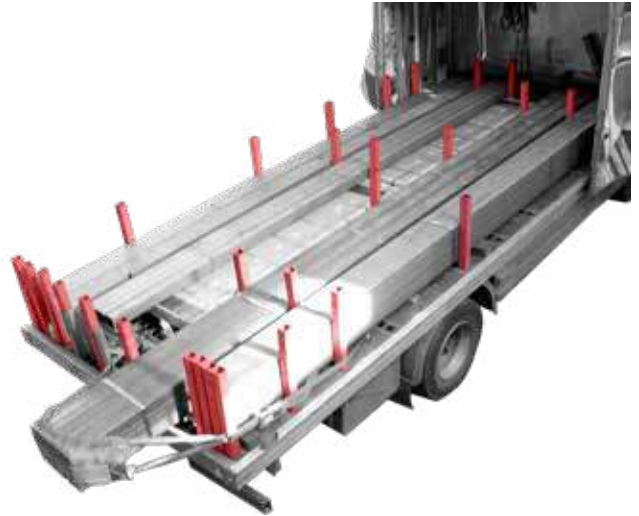
Background: G. Elsinghorst Stahl und Technik GmbH

G. Elsinghorst is a strong partner for industry, trade and the building sector. On a total area of 43,100m² for retail market, stores and offices, Elsinghorst with its stock of 12,000 tonnes of sectional steel, bar steel, plates, tubes, stainless steel and NF-metals ensures an optimum supply to the steel trade and structural steel industry in North-Rhine Westphalia and the Netherlands at any time.

The complete article can be read at www.variosave.de.

Technology

- › High-strength aluminium alloy
- › Max. load on cross beam in longitudinal direction: 1500 daN
- › Max. load on cross beam in transverse direction: 1000 daN
- › Sticks available in 600 and 1200mm height
- › Ground subsidence 27mm
- › Bolted version
- › Round bolts as lashing point in accordance with DIN EN 12640 up to 1500 daN loading capacity



VarioSAVE Aluminium

Benefits

- › Time saving during cargo securing (due to elimination of lashing)
- › Time saving during loading and unloading
- › Easy to operate
- › Significant reduction of cargo damages
- › Maximum flexibility for cargo securing
- › Increased transport safety due to positive-fit locking
- › Considerable reduction of damages in transit



Advantages

- › Weight saving:
 - Up to 40 % lighter compared to the steel version
 - Hence lower fuel consumption and
 - Increased payload
- › Ease of installation:
 - Quick installation due to modular system and clamped construction
- › Product reliability:
 - TÜV certification



OVERVIEW

[> Espagnolette lock HESTAL LockMaster 709](#)

ESPAGNOLETTE LOCK HESTAL *LockMaster 709.18*

The HESTAL LockMaster 709.18 can be used with curtainsider, flatbed, folding wall and box van superstructures. The LockMaster 709.18 impresses with its high-strength and robust and its easy handling.

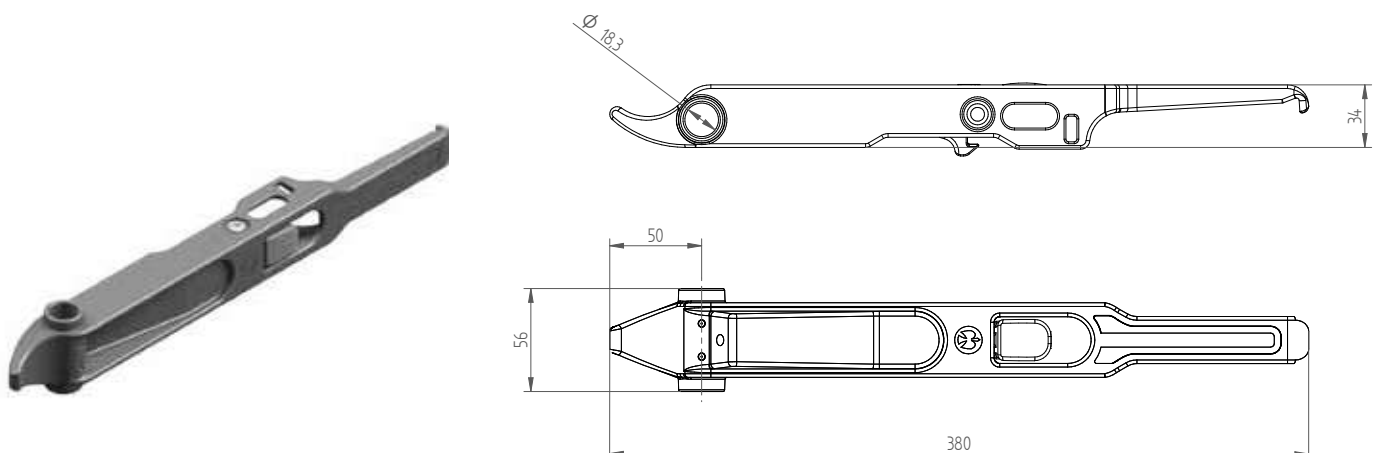
Technology

- › Self-locking safety button
- › The self-locking detent is additionally held in the closed position by a separate pawl
- › For 25mm and 30mm door thickness
- › Same version for left and right doors
- › Collision protection
- › Lockable with padlock + cylinder lock
- › Good closing behaviour for locking the doors
- › Customs version possible (German Customs Criminal Investigation Office certificate)
- › Optimised anti-rack properties
- › Retrofitting of door holding facility (door fix) possible
- › Pivotal spacing 22 + 1mm
- › For M8 (8.8) mounting bolts
- › Hot-dip galvanised version
- › Additional powder-coating of the clamping lever

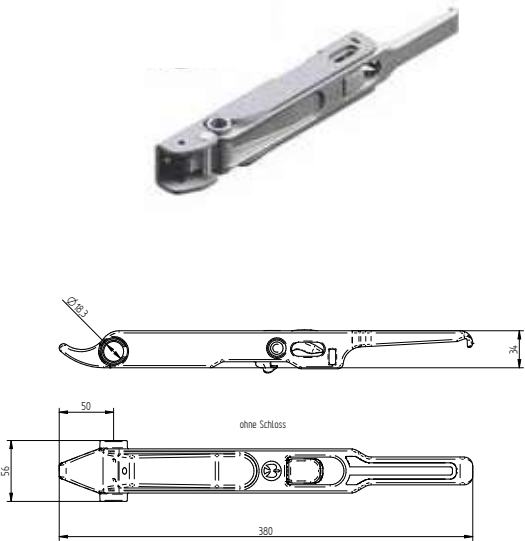
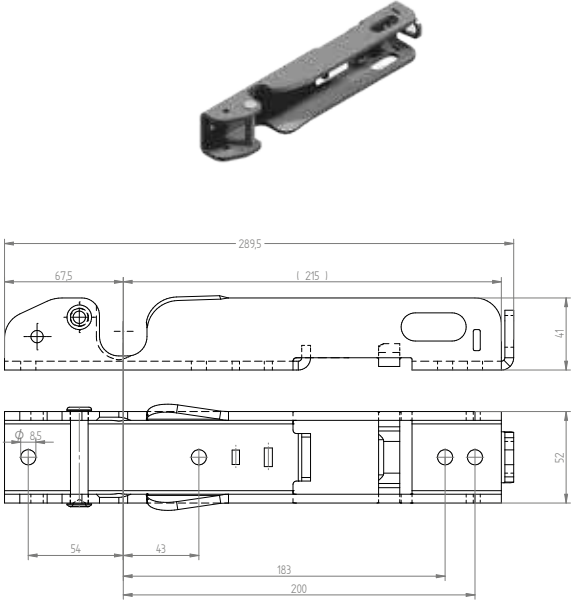
Versions

Hot-dip galvanised in accordance with FHS-TL 9.22

Clamping lever additionally powder-coated

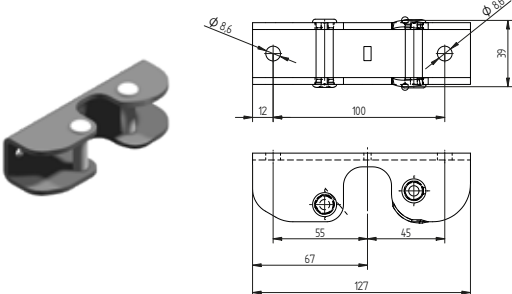
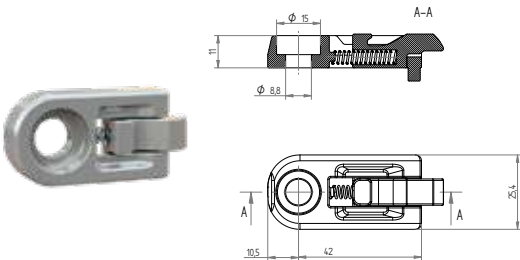
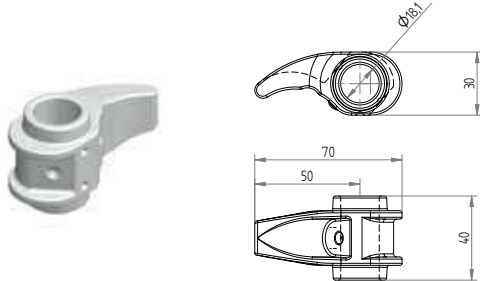


HESTAL LockMaster 709.18 – INDIVIDUAL COMPONENTS

Figure	Description	Weight [kg]	Article No.
	<p>Clamping lever Ø 18 mm Without lock With lock</p>	<p>1,15</p>	<p>6.141.233.98 6.141.233.99</p>
	<p>Counterholder, bottom</p>	<p>1,11</p>	<p>6.141.234.50</p>

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HESTAL LockMaster 709.18 – INDIVIDUAL COMPONENTS

Figure	Description	Weight [kg]	Article No.
	Leading clamping cam Ø 18mm	0,18	6.141.121.99
	Counterholder, top	0,38	6.141.695.99
	Door fix	0,08	6.141.719.99
	Clamping cam Ø 18 mm, standard	0,18	6.141.673.99

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OVERVIEW



- **Surface-mounted fastener HESTAL *LockMaster* 890**
- **Built-in fastener HESTAL *LockMaster* 891**
- **Built-in fastener HESTAL *LockMaster* 888**

SURFACE-MOUNTED FASTENER HESTAL *LockMaster 890*

The LockMaster 890 is a surface-mounted fastener for dry freight and refrigerated body van superstructures.

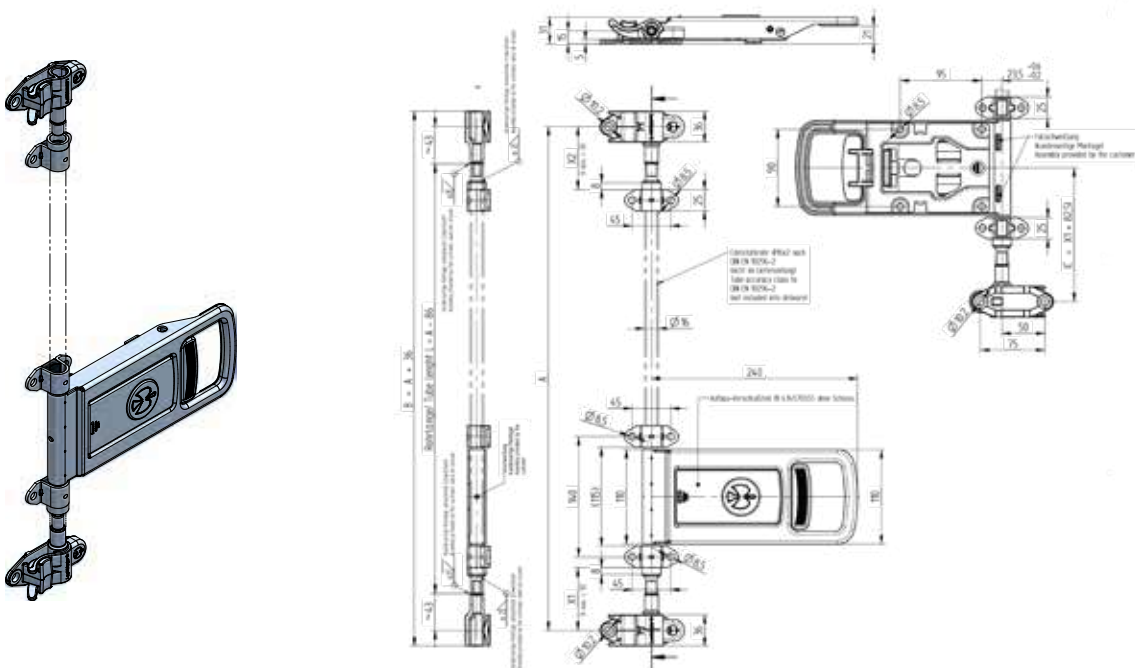
Technology

- › The design is very robust and of light weight
- › The different LockMaster versions are available without and with a cylinder lock (different closures are available)
- › Suitable for bar diameters of 16mm, 20mm and 27mm
- › The LockMaster 890 is the ideal and shapely surface-mounted fastener for dry freight and refrigerated body van superstructures
- › For a bar diameter of 27mm the LockMaster is also available with a flat bar handle. This is LockMaster 890.27NSE

Accessories

Attached

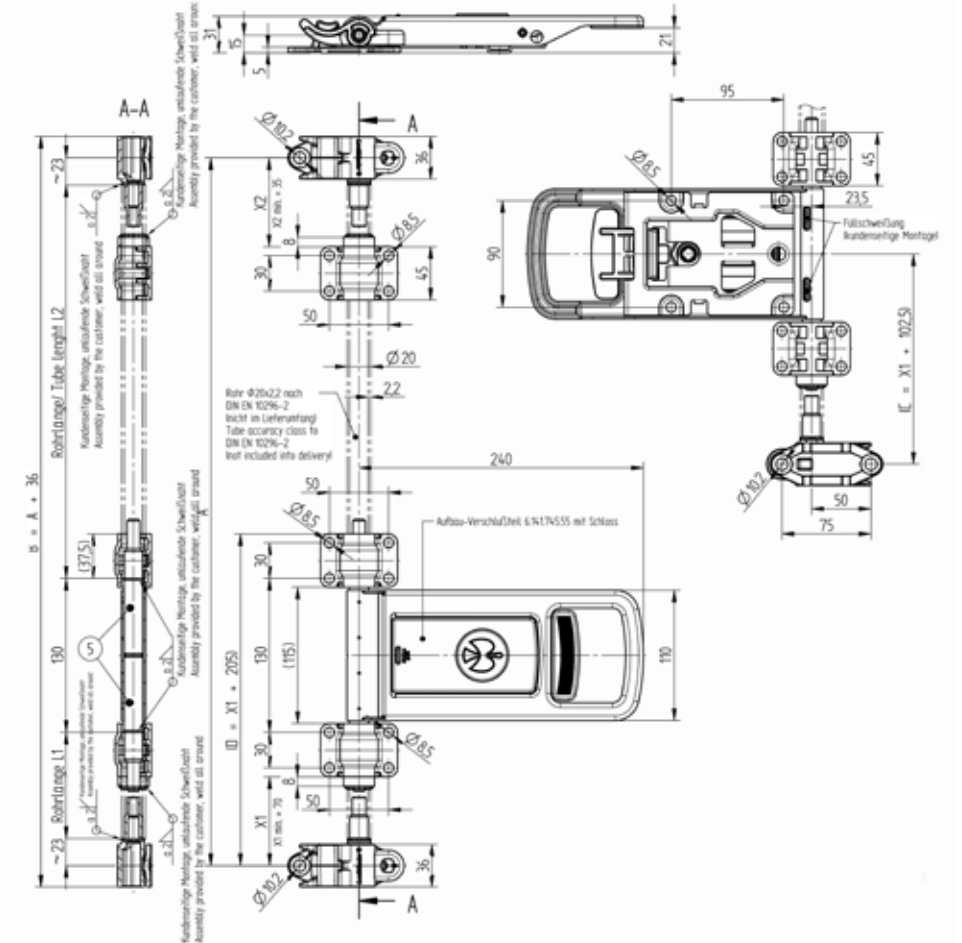
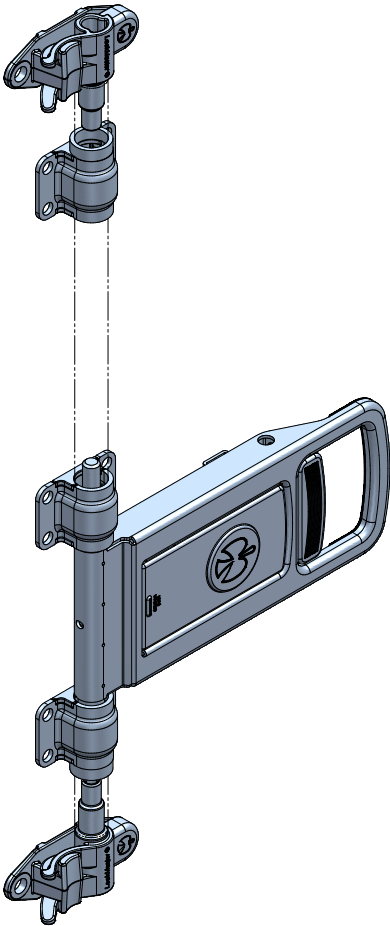
SURFACE-MOUNTED FASTENER HESTAL *LockMaster 890.16N*



Description	Weight [kg]	Article No.
LockMaster 890.16N - stainless steel, complete without lock	1,85	6.141.791.00
LockMaster 890.16N - stainless steel, complete with lock	1,85	6.141.792.00

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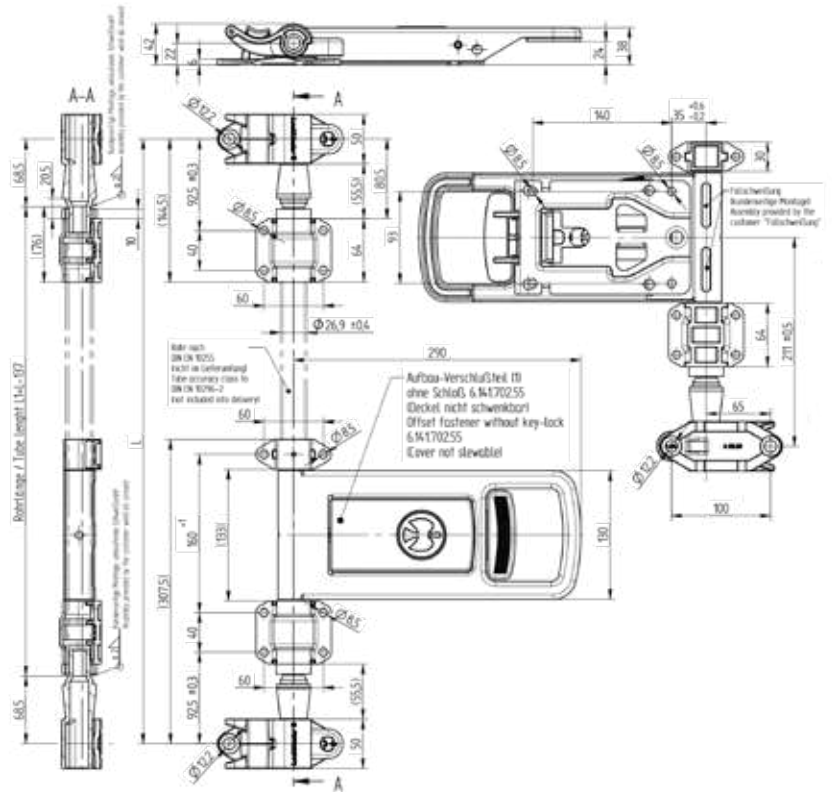
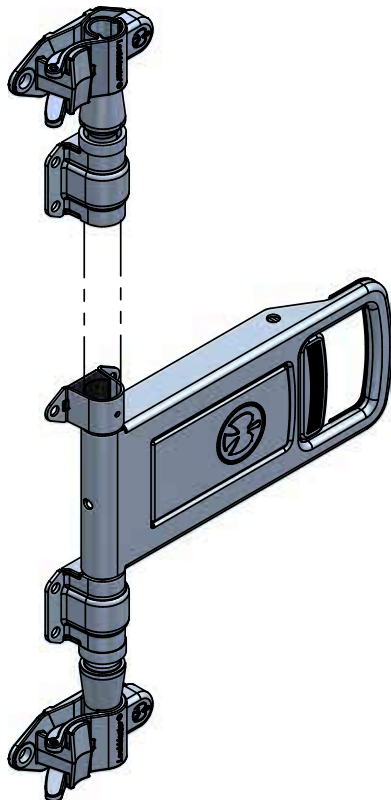
SURFACE-MOUNTED FASTENER HESTAL *LockMaster 890.20N*



Description	Weight [kg]	Article No.
LockMaster 890.20N - stainless steel, complete without lock	1,85	6.141.793.00
LockMaster 890.20N - stainless steel, complete with lock	1,85	6.141.794.00

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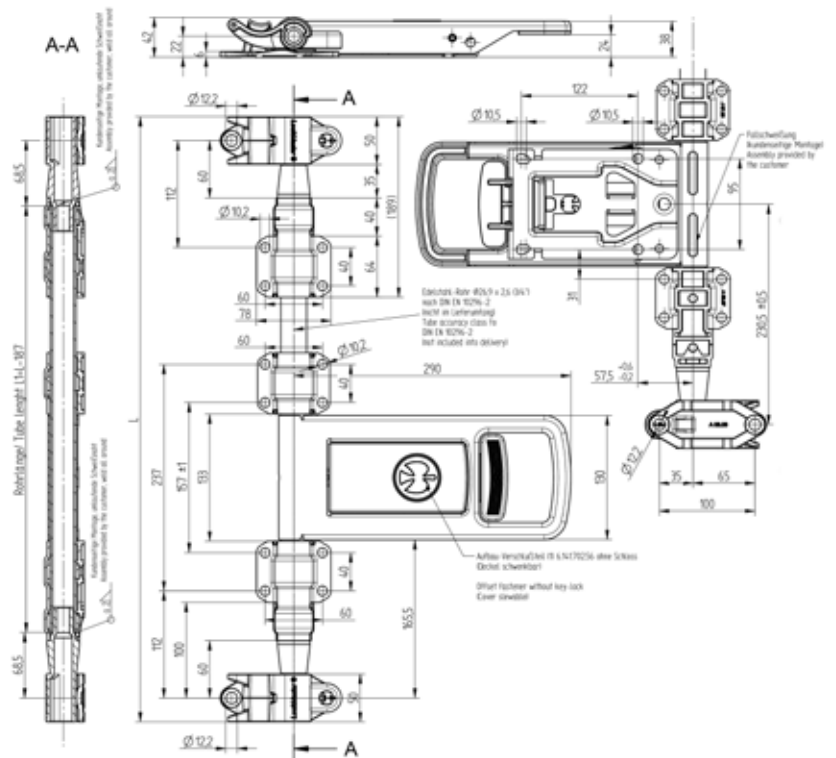
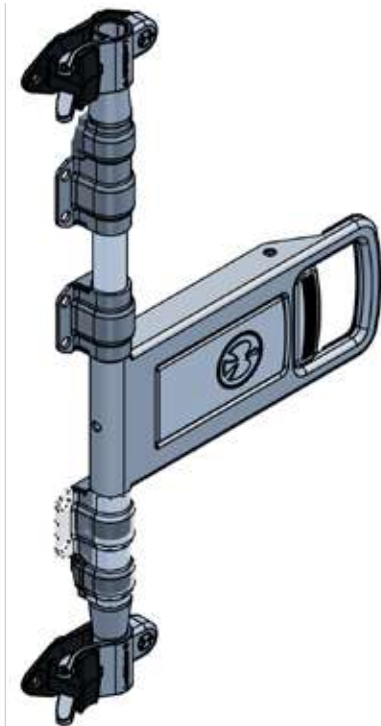
SURFACE-MOUNTED FASTENER HESTAL *LockMaster 890.27A*



Description	Weight [kg]	Article No.
LockMaster 890.27A - stainless steel, complete without lock	1,85	6.141.776.00
LockMaster 890.27A - stainless steel, complete with lock	1,85	6.141.777.00

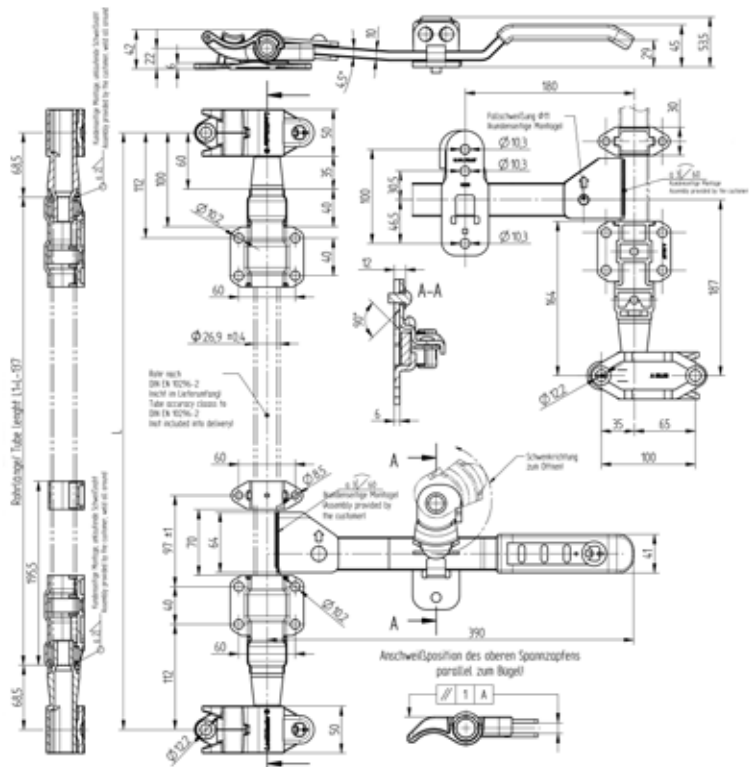
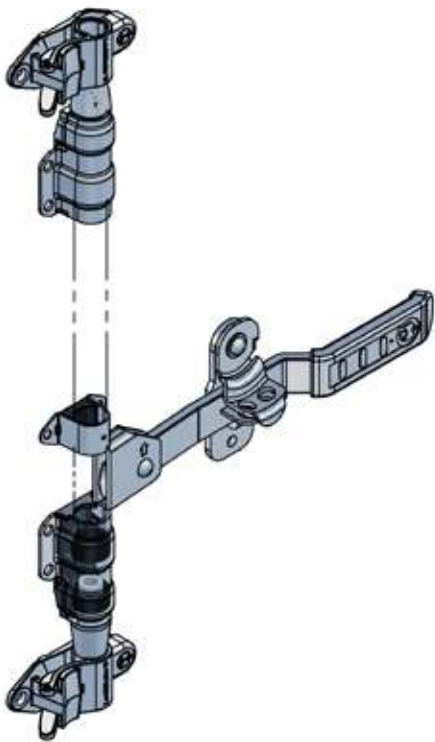
replacement for article no. 6.141.702 or 6.141.702.35

SURFACE-MOUNTED FASTENER HESTAL LockMaster 890.27N



Description	Weight [kg]	Article No.
LockMaster 890.27N - stainless steel, complete without lock	1,85	6.141.788.00
LockMaster 890.27N - stainless steel, complete with lock	1,85	6.141.789.00

SURFACE-MOUNTED FASTENER HESTAL *LockMaster 890.27NSE*



Description	Weight [kg]	Article No.
LockMaster 890.27NSE	1,85	6.141.790.00

BUILT-IN FASTENER HESTAL *LockMaster 891*

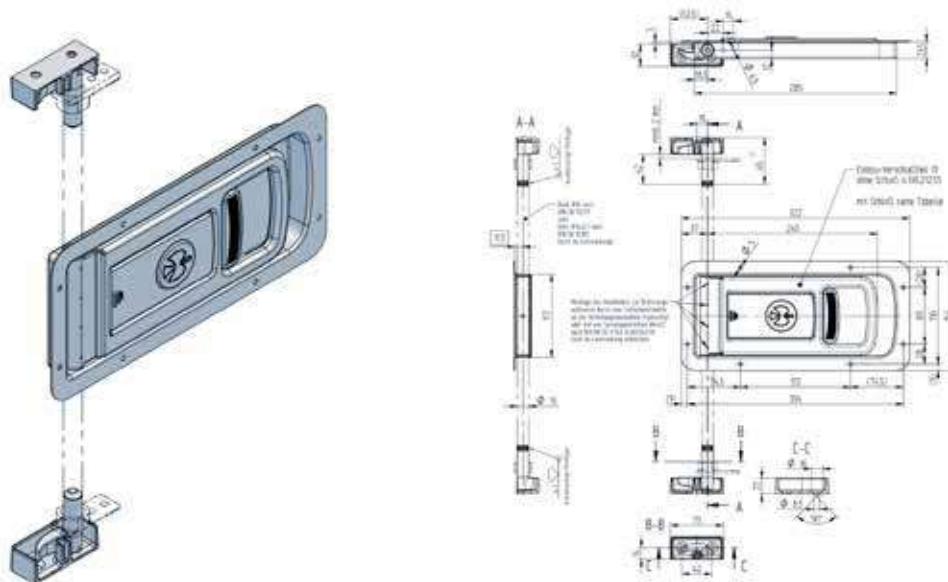
The LockMaster 891 is a built-in fastener for dry freight and refrigerated body van superstructures.

Technology

- › The design is very robust and of light weight
- › The different LockMaster versions are available without and with a cylinder lock (different closures are available)
- › The LockMaster 891 is the ideal built-in fastener for dry freight and refrigerated body van superstructures
- › Suitable for bar diameters of 16mm and 20mm
- › Different recess versions are available for a bar diameter of 16mm

Accessories

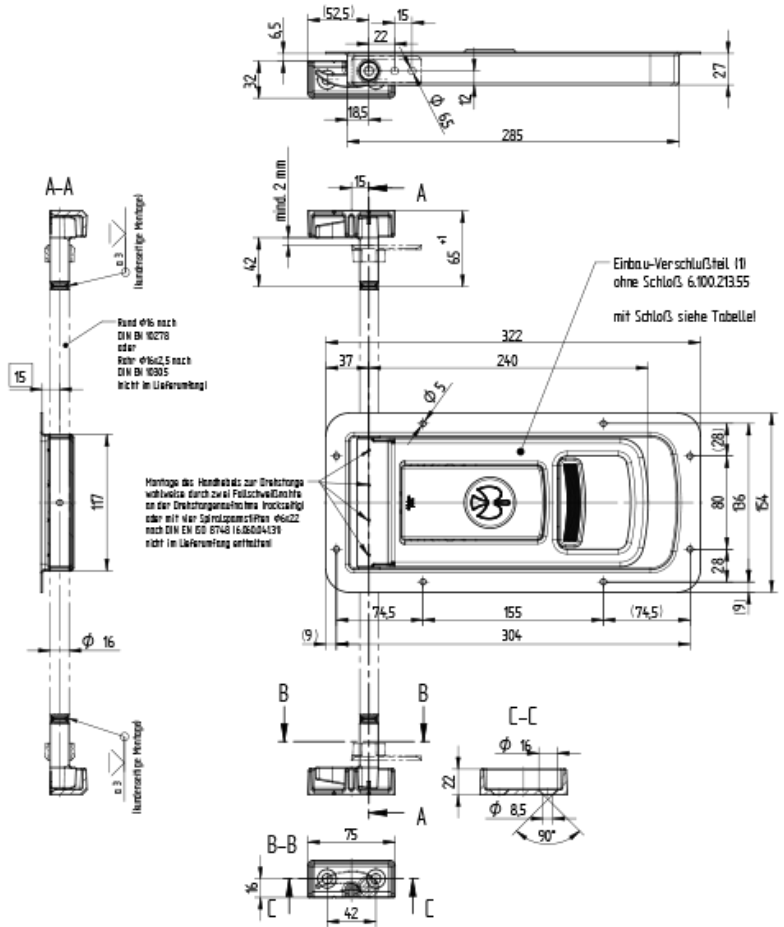
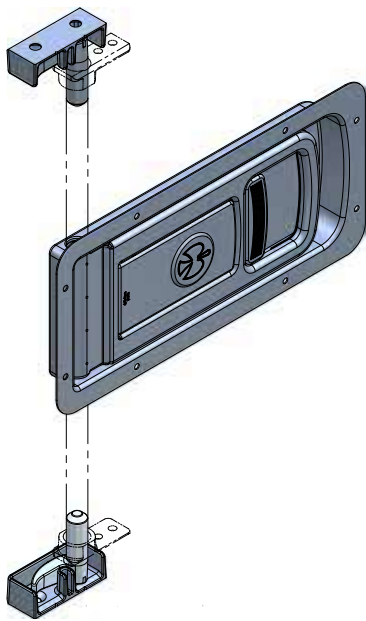
Attached

BUILT-IN FASTENER HESTAL *LockMaster 891.16*

Description	Weight [kg]	Article No.
LockMaster 891.16 - stainless steel, complete without lock	2,10	6.100.212.00
LockMaster 891.16 - stainless steel, complete with lock	2,10	6.100.216.00

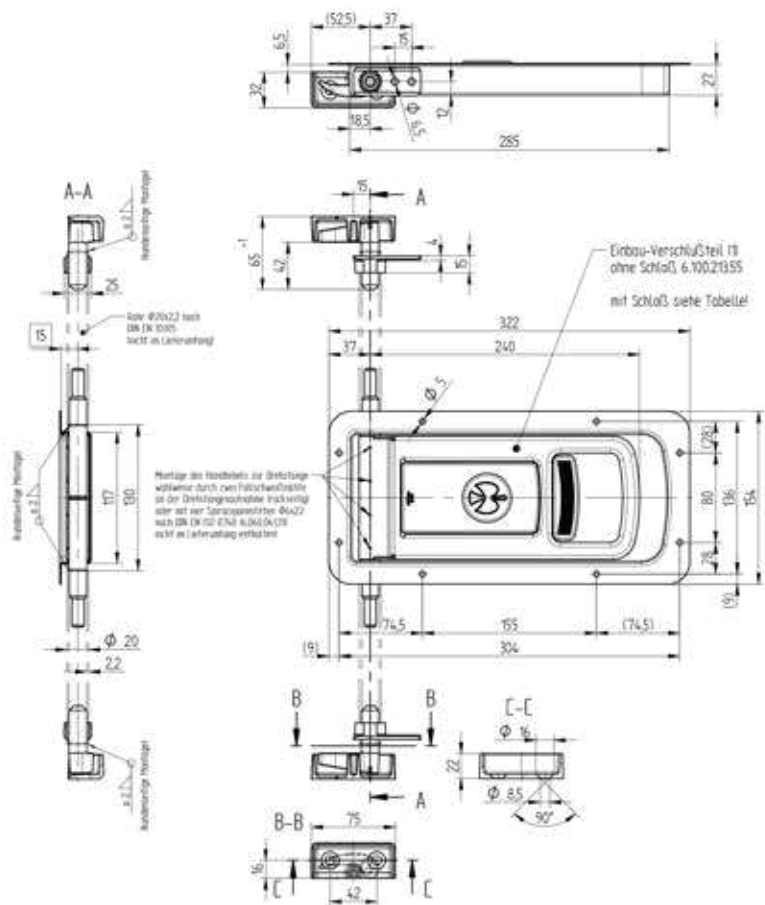
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BUILT-IN FASTENER HESTAL LockMaster 891.16T



Description	Weight [kg]	Article No.
LockMaster 891.16T - stainless steel, complete without lock	2,13	6.100.213.00
LockMaster 891.16T - stainless steel, complete with lock	2,13	6.100.226.00

BUILT-IN FASTENER HESTAL LockMaster 891.20



Description	Weight [kg]	Article No.
LockMaster 891.20 - stainless steel, complete without lock	2,60	6.100.215.00
LockMaster 891.20 - stainless steel, complete with lock	2,60	6.100.246.00

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BUILT-IN FASTENER HESTAL *LockMaster 888*

The LockMaster 888 is a built-in fastener for dry freight and refrigerated body van superstructures.

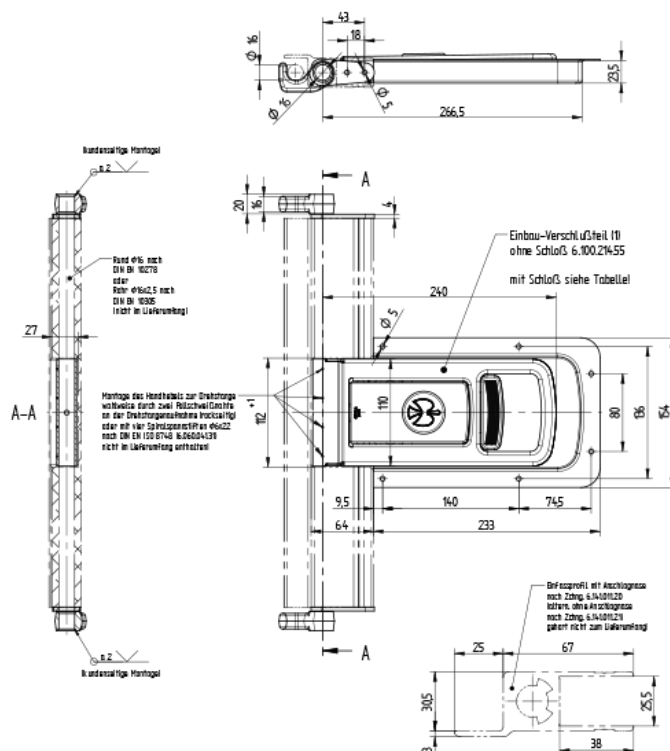
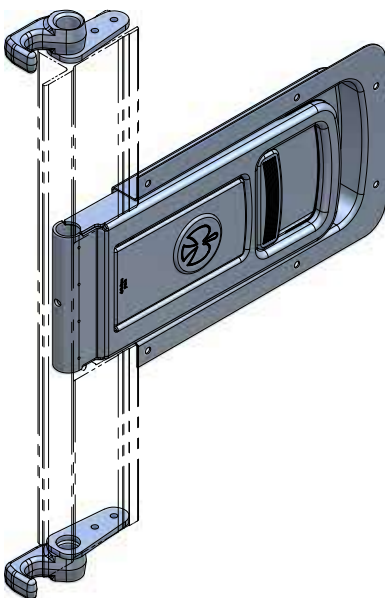
Technology

- › The design is very robust and of light weight
- › The different LockMaster versions are available without and with a cylinder lock (different closures are available)
- › LockMaster 888.16 is a built-in fastener for espagnolettes with a diameter of 16mm
- › Shortened recess to use the espagnolette which is guided through the bezel profile

Accessories

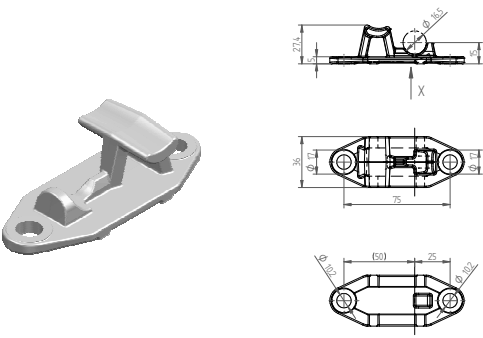
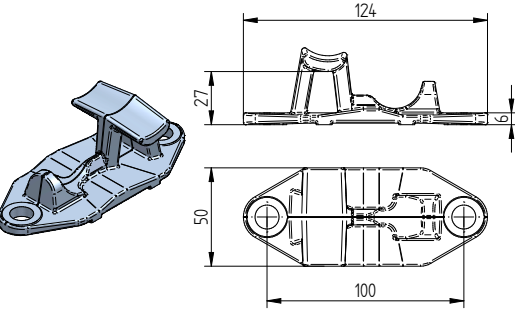
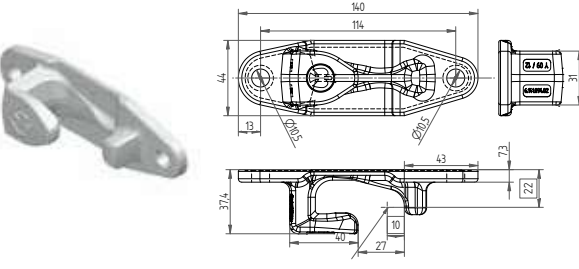
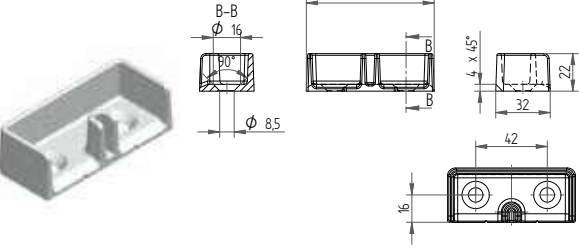
Attached

BUILT-IN FASTENER HESTAL *LockMaster 888.16*



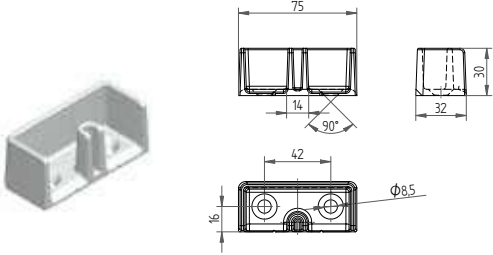
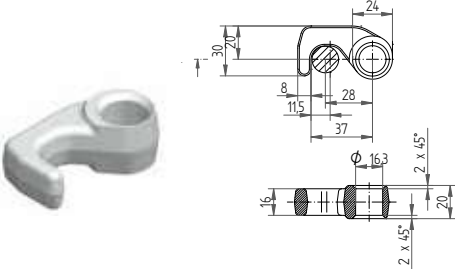
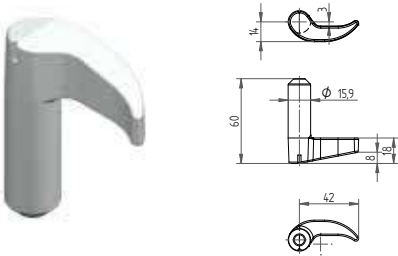
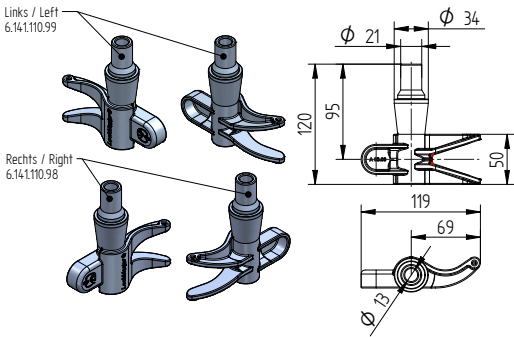
Description	Weight [kg]	Article No.
LockMaster 888.16 - stainless steel, complete without lock	1,775	6.100.214.00
LockMaster 888.16 - stainless steel, complete with lock	1,706	6.100.236.00

HESTAL LockMaster – INDIVIDUAL COMPONENTS

Figure	Description	Weight [kg]	Article No.
	<p>Counterholder 890.16N 890.20N</p>	0,14	6.141.703.97
	<p>Counterholder 890.27A 890.27N 890.27NSE</p>	0,28	6.141.110.97
	<p>Counterholder 890</p>	0,39	6.141.094.99
	<p>Lock case, narrow 891.16 891.16T 891.20</p>	0,14	6.100.212.97

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HESTAL LockMaster – INDIVIDUAL COMPONENTS

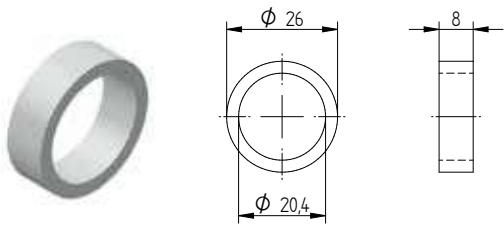
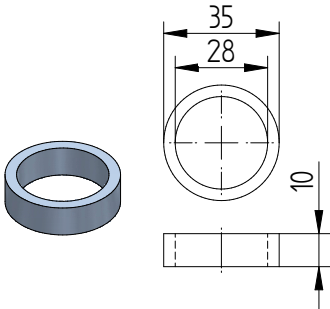
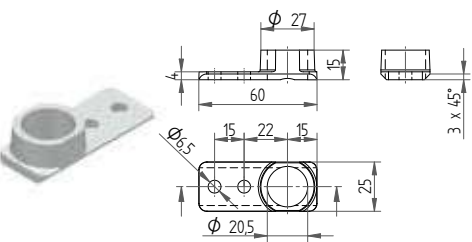
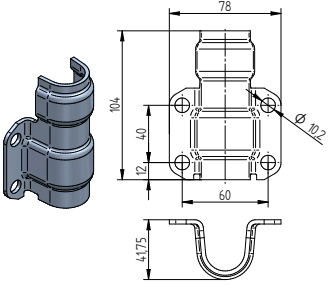
Figure	Description	Weight [kg]	Article No.
	<p>Lock case, high</p> <p>891.16 891.16T 891.20</p>	0,19	6.100.212.95
	<p>Finger</p> <p>888.16</p>	0,12	6.070.027.98
	<p>Rotating hook</p> <p>Left Right</p> <p>891.16 891.16T 891.20</p>	0,13	<p>6.100.212.98 6.100.212.99</p>
	<p>Clamping pin</p> <p>Left Right</p> <p>890.27A 890.27N 890.27NSE</p>	0,48	<p>6.141.110.99 6.141.110.98</p>

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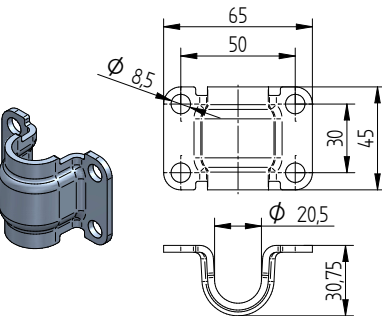
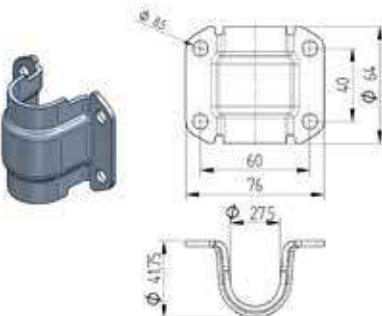
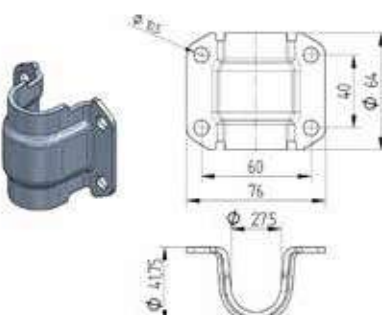
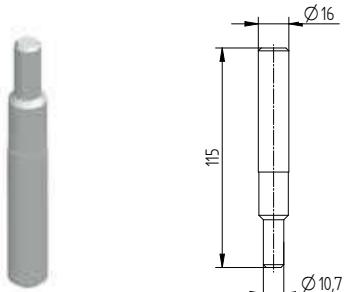
HESTAL LockMaster – INDIVIDUAL COMPONENTS

Figure	Description	Weight [kg]	Article No.
	<p>Clamping pin Left Right</p> <p>890.16N 890.20N</p>	0,19	<p>6.141.703.92 6.141.703.91</p>
	<p>Locking cam 890</p>	0,49	6.141.094.98
	<p>Cover plate 888.16</p>	0,01	6.070.025.01
	<p>Stop ring 890.16N</p>	0,01	6.141.703.16

HESTAL LockMaster – INDIVIDUAL COMPONENTS

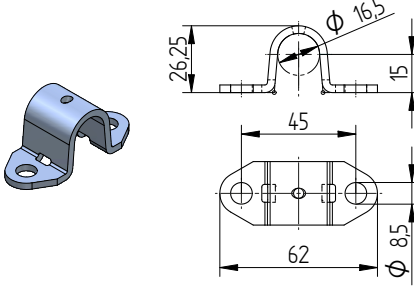
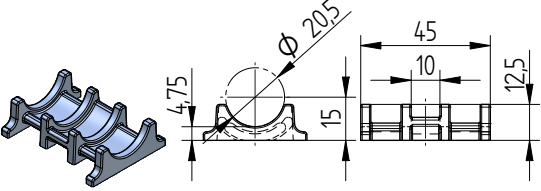
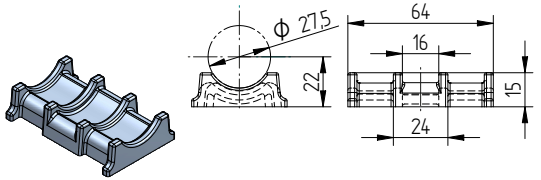
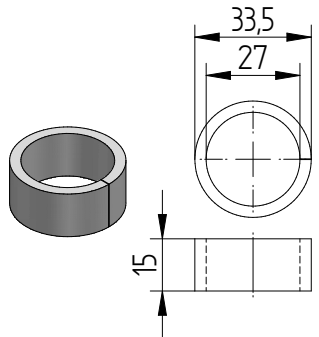
Figure	Description	Weight [kg]	Article No.
	<p>Stop ring 890.20N</p>	<p>0,01</p>	<p>6.141.704.19</p>
	<p>Stop ring 980.27A</p>	<p>0,03</p>	<p>6.140.828.00</p>
	<p>Guide 891.16 891.16T 891.20</p>	<p>0,05</p>	<p>6.100.212.96</p>
	<p>Bar holder, long 890.27N 890.27NSE</p>	<p>0,24</p>	<p>6.141.110.10</p>

HESTAL LockMaster – INDIVIDUAL COMPONENTS

Figure	Description	Weight [kg]	Article No.
	Bar holder 890.20N	0,10	6.141.704.10
	Bar holder M8 890.27A	0,18	6.141.702.10
	Bar holder M10 890.27N	0,18	6.141.702.18
	Rotating pin 890.20N 891.20	0,15	6.100.198.01

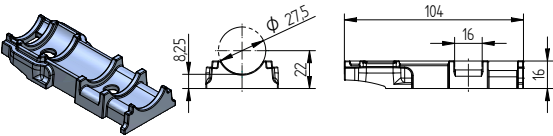
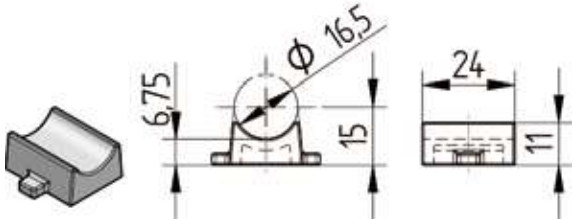
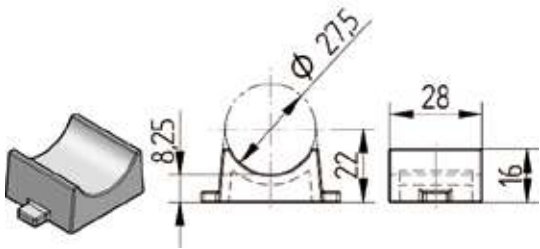
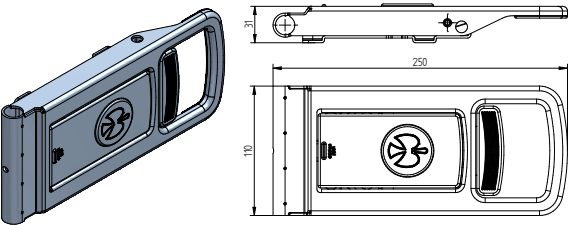
[Back to table of content](#)

HESTAL LockMaster – INDIVIDUAL COMPONENTS

Figure	Description	Weight [kg]	Article No.
	<p>Bar guide 890.16N</p>	0,05	6.141.703.13
	<p>Support 890.20N</p>	0,05	6.141.704.97
	<p>Support 890.27A 890.27N</p>	0,12	6.141.702.97
	<p>Plastic bushing 890.27A 890.27N 890.27NSE</p>	0,01	6.141.702.12

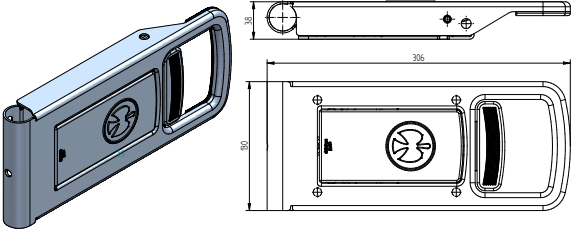
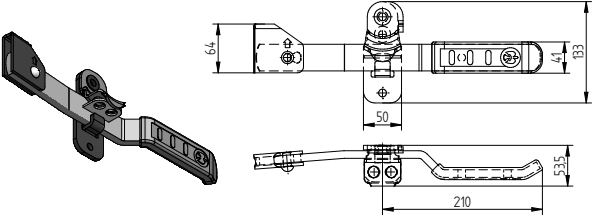
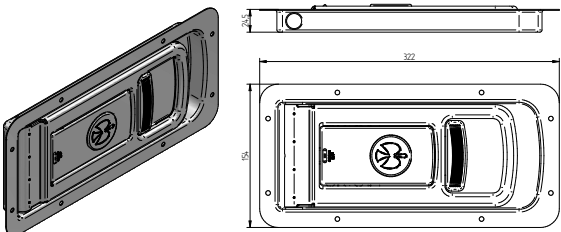
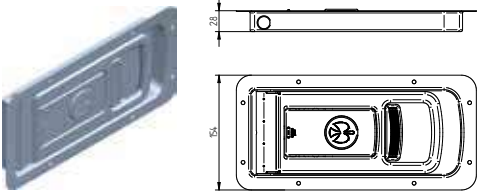
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HESTAL LockMaster – INDIVIDUAL COMPONENTS

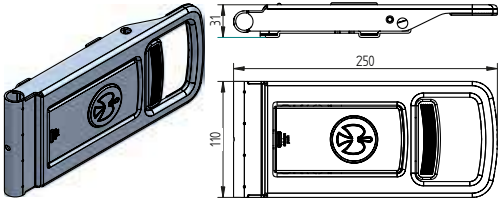
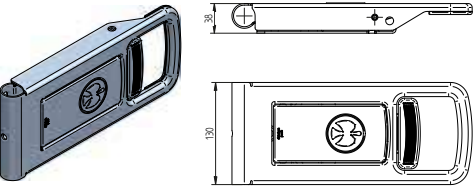
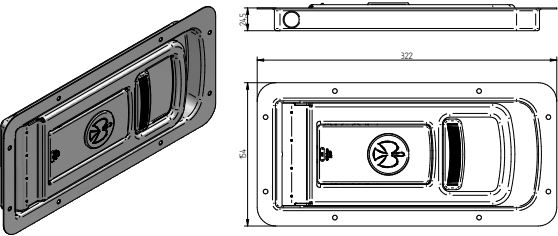
Figure	Description	Weight [kg]	Article No.
	<p>Support, long 890.27N 890.27NSE</p>	0,17	6.141.110.91
	<p>Guiding support 890.16N</p>	0,01	6.141.703.14
	<p>Guiding support 890.27A 890.27NSE</p>	0,01	6.141.702.14
	<p>Locking part, without lock 890.16N 890.20N</p>	1,03	6.141.703.55

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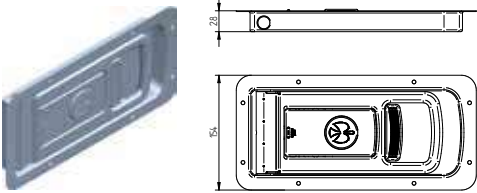
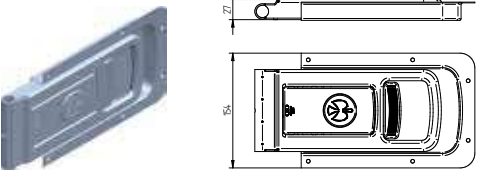
HESTAL LockMaster – INDIVIDUAL COMPONENTS

Figure	Description	Weight [kg]	Article No.
	<p>Locking part, without lock 890.27A 890.27N</p>	<p>1,69</p>	<p>6.141.702.55</p>
	<p>Locking part NSE 890.27NSE</p>	<p>1,47</p>	<p>6.141.726.55</p>
	<p>Locking part, without lock 891.16</p>	<p>1,55</p>	<p>6.100.212.55</p>
	<p>Locking part, without lock 891.16T 891.20</p>	<p>1,58</p>	<p>6.100.213.55</p>

HESTAL LockMaster – INDIVIDUAL COMPONENTS

Figure	Description	Weight [kg]	Article No.
	<p>Locking part, without lock 888.16</p>	<p>1,47</p>	<p>6.100.214.55</p>
	<p>Locking part, with lock (different closures available) 890.16N 890.20N</p>	<p>1,08</p>	<p>6.141.745.55</p>
	<p>Locking part, with lock (different closures available) 890.27A 890.27N</p>	<p>1,62</p>	<p>6.141.735.55</p>
	<p>Locking part, with lock (different closures available) 891.16</p>	<p>1,55</p>	<p>6.100.216.55</p>

HESTAL LockMaster – INDIVIDUAL COMPONENTS

Figure	Description	Weight [kg]	Article No.
	<p>Locking part, with lock (different closures available) 891.16T 891.20</p>	1,58	6.100.226.55
	<p>Locking part, with lock (different closures available) 888.16</p>	1,47	6.100.236.55

OVERVIEW



- Long-range fasteners 710, 712, 715
- Corner system 720
- Flat-bolt fasteners 680, 682, 686
- Tension-bolt fasteners 681

LONG-RANGE FASTENER 710

- For dropside vehicles
- Single locked; the locked position of the locking unit is held by an over dead centre position and a button locking device
- Easy to install, easy to operate
- Also available as customs version

Typical fields of application

- For 400 - 800mm dropsides
- The 710 fastener can be combined with the HESTAL SolidMaster dropside pillar system
- Depending on the installation situation and profile design, the 710 or 712 fastener is used, the 710 fastener has a plain front and an offset for the pillar connection at the back

Technology

- › Good closing behaviour thanks to interaction between pocket and bolt
- › Automatic adjustment
- › The hand lever folds in when the dropside is lowered
- › Unlocking and locking are both possible under cargo pressure
- › Cargo pressure detection by traction between bolt and pillar pocket
- › Above 600mm profile height the hand lever is covered by the tarpaulin
- › A special profile variant with lateral inspection openings for customs-specified dropside locking is available as an option for the 710 fastener

Versions

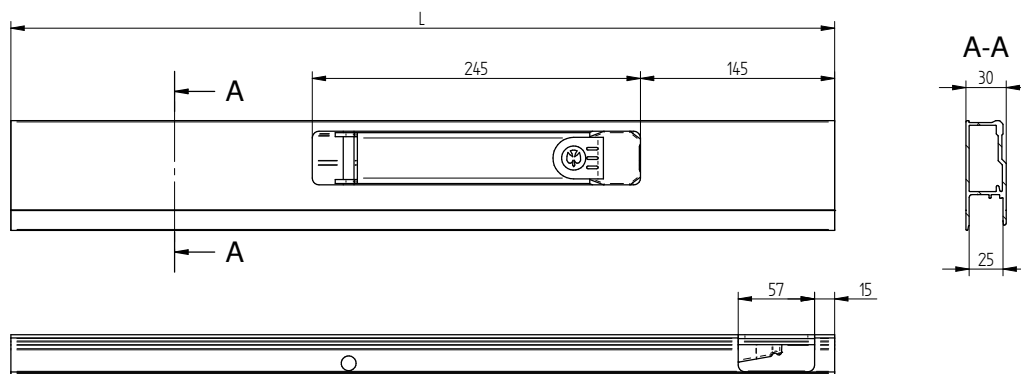
Locking mechanism: electro galvanised in accordance with FHS-TL 9.01

Aluminium profiles: available in various surface finishes, e.g. raw or anodised

Accessories

710.20 Pillar pocket, raw, for welding

Pillar pocket SolidMaster for screwing



710

LONG-RANGE FASTENER 710

Type	Description	Length [mm]	Weight [kg]	Article No.
710	Hand lever locking part without bezel, left		0,81	6.020.741.00
710	Hand lever locking part without bezel, right		0,81	6.020.740.00
710.4	Fastener in profile left, profile raw	400	1,36	6.021.601.00
710.4	Fastener in profile right, profile raw	400	1,36	6.021.600.00
710.4	Fastener in profile left, profile raw	415	1,38	6.020.749.00
710.4	Fastener in profile right, profile raw	415	1,38	6.020.748.00
710.5	Fastener in profile left, profile raw	500	1,50	6.021.669.00
710.5	Fastener in profile right, profile raw	500	1,50	6.021.668.00
710.5	Fastener in profile left, profile raw	515	1,52	6.020.781.00
710.5	Fastener in profile right, profile raw	515	1,52	6.020.780.00
710.5	Fastener in profile left, profile raw with PA strip	515	1,51	6.021.579.00
710.5	Fastener in profile right, profile raw with PA strip	515	1,51	6.021.580.00
710.6	Fastener in profile left, profile raw	600	1,65	6.020.854.00
710.6	Fastener in profile right, profile raw	600	1,65	6.020.853.00
710.6	Fastener in profile left, profile raw	615	1,67	6.020.751.00
710.6	Fastener in profile right, profile raw	615	1,67	6.020.750.00
710.6	Fastener in profile left, profile raw with PA strip	615	1,65	6.021.581.00
710.6	Fastener in profile right, profile raw with PA strip	615	1,65	6.021.582.00
710.7	Fastener in profile left, profile raw	715	1,82	6.021.577.00
710.7	Fastener in profile right, profile raw	715	1,82	6.021.578.00
710.8	Fastener in profile left, profile raw	800	1,94	6.020.883.00
710.8	Fastener in profile right, profile raw	800	1,94	6.020.882.00
710.8	Fastener in profile left, profile raw	815	1,96	6.020.753.00
710.8	Fastener in profile right, profile raw	815	1,96	6.020.752.00
710.8	Fastener in profile left, profile raw with PA strip	815	1,94	6.021.583.00
710.8	Fastener in profile right, profile raw with PA strip	815	1,94	6.021.584.00
710.10	Fastener in profile left, profile raw	1015	2,26	6.020.816.00
710.10	Fastener in profile right, profile raw	1015	2,26	6.020.815.00
710.20	Pillar pocket, raw left		0,12	6.071.147.99
710.20	Pillar pocket, raw right		0,12	6.071.146.99
720	Cover cap, right		0,01	6.020.831.09
720	Cover cap, left		0,01	6.020.832.09

Further versions upon request

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LONG-RANGE FASTENER 712

- For dropside vehicles
- Single locked; the locked position of the locking unit is held by an over dead centre position and a button locking device
- Easy to install, easy to operate
- Also available as customs version

Typical fields of application

- For 400 - 800mm dropsides
- Depending on the installation situation use 710 or 712 locking system

Technology

- › Good closing behaviour thanks to interaction between pocket and bolt
- › Automatic adjustment
- › The hand lever folds in when the dropside is lowered
- › Unlocking and locking are both possible under cargo pressure
- › Cargo pressure detection by traction between bolt and pillar pocket
- › Above 600mm profile height the hand lever is covered by the tarpaulin
- › A special profile variant with lateral inspection openings for customs-specified dropside locking is available as an option for the 712 fastener

Versions

Locking mechanism: electro galvanised in accordance with FHS-TL 9.01

Aluminium profiles: available in various surface finishes, e.g. raw or anodised

Accessories

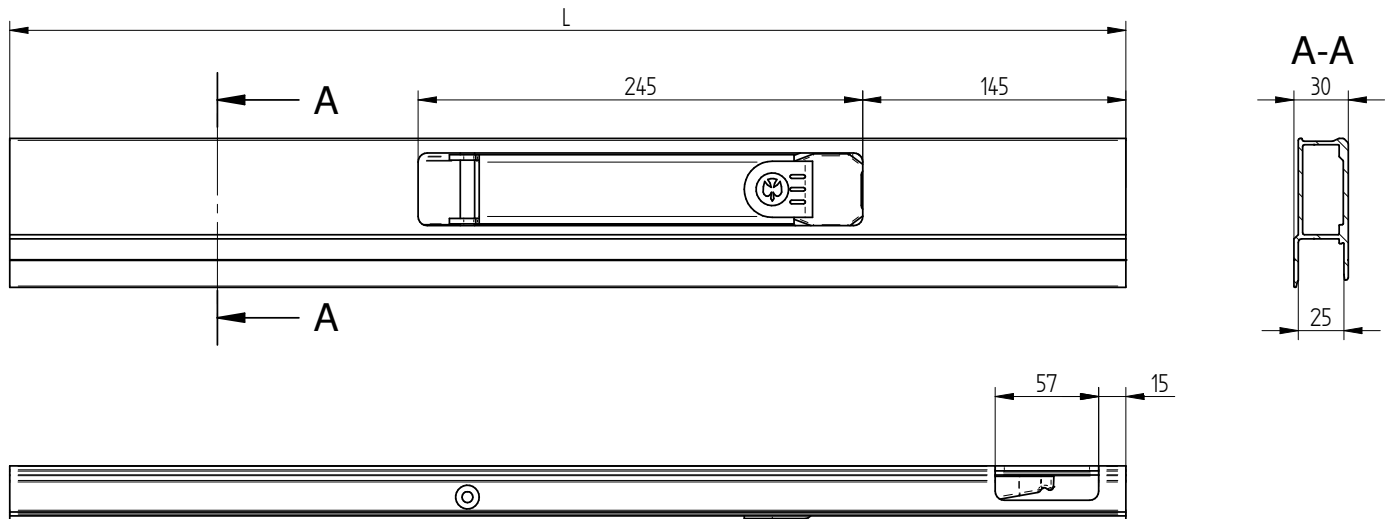
710.20 Pillar pocket, raw, for welding

Pillar pocket SolidMaster for screwing



712

LONG-RANGE FASTENER 712



Type	Description	Length [mm]	Weight [kg]	Article No.
712.4	Fastener in profile left, profile raw	415	1,37	6.020.804.95
712.4	Fastener in profile right, profile raw	415	1,37	6.020.803.95
712.5	Fastener in profile left, profile raw	515	1,52	6.020.808.95
712.5	Fastener in profile right, profile raw	515	1,52	6.020.807.95
712.6	Fastener in profile left, profile raw	615	1,67	6.020.800.95
712.6	Fastener in profile right, profile raw	615	1,67	6.020.799.95
712.8	Fastener in profile left, profile raw	815	1,96	6.020.812.95
712.8	Fastener in profile right, profile raw	815	1,96	6.020.811.95

Further versions upon request

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LONG-RANGE FASTENER 715 – WITH DOUBLE LOCKING

For building material vehicles. Double lock; the locked position of the locking unit is held by an over dead centre position and a button locking device. Easy to install, easy to operate.

Typical fields of application

- Building material vehicles with a dropside height of 800mm or 1000mm
- The 715 fastener can be combined with the HESTAL SolidMaster 801 dropside pillar system

Technology

- › Good closing behaviour thanks to interaction between pocket and bolt
- › Automatic adjustment
- › An additional plastic strip on the bezel profile reduces wear
- › The hand lever folds in when the dropside is lowered

Versions

Locking mechanism: electro galvanised in accordance with FHS-TL 9.01

Aluminium profiles: available in raw or anodised

Accessories

801 Pillar pocket KTL, for screwing

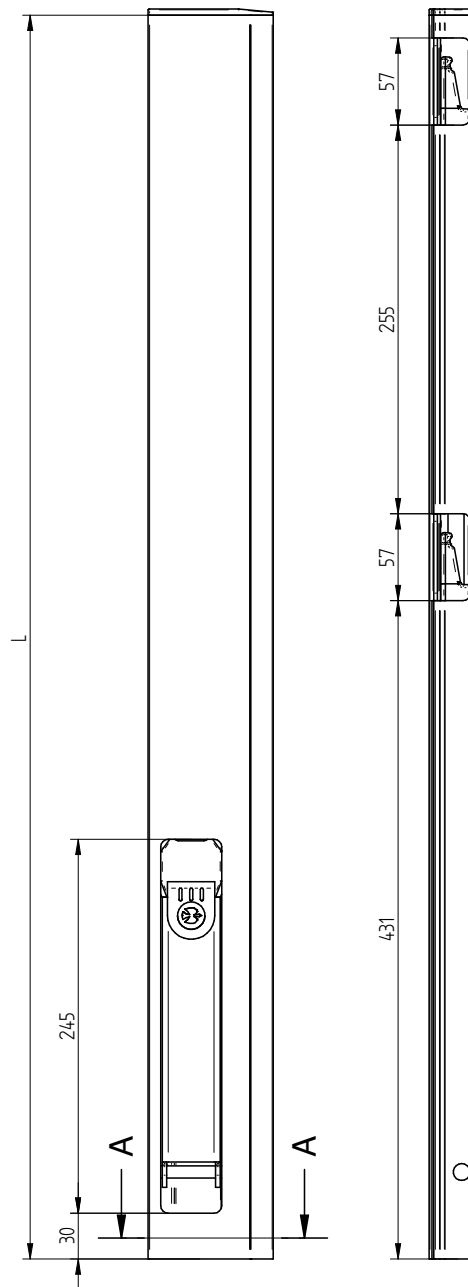
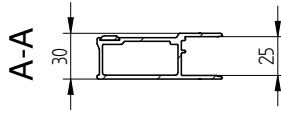


Type	Description	Length [mm]	Weight [kg]	Article No.
715.8	Fastener in profile left, profile raw	815	2,59	6.020.858.00
715.8	Fastener in profile right, profile raw	815	2,59	6.020.859.00
715.10	Fastener in profile left, profile raw	1015	2,88	6.020.862.00
715.10	Fastener in profile right, profile raw	1015	2,88	6.020.863.00
715	Cover Cap, right		0,02	6.070.151.00
715	Cover Cap, left		0,02	6.070.152.00

Further versions upon request

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LONG-RANGE FASTENER 715 – WITH DOUBLE LOCKING



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CORNER SYSTEM 720

A complete corner system for small light and medium-heavy flatbed superstructures, up to 615mm dropside height. Pillar-free corner connection, without further components.

Technology

- › Easy operation and optimised safety
- › Hand lever opening by 180 degrees
- › The fastener lies flush against the dropside
- › Double security due to form closure and traction
- › Tested in accordance with the occupational health & safety regulations



720

Versions

Aluminium profiles: anodised in accordance with FHS-TL 9.17

Hand lever assembly: powder coating, black

Locking mechanism: yellow chromated and sealed,

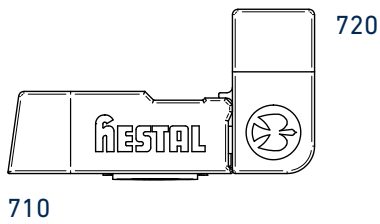
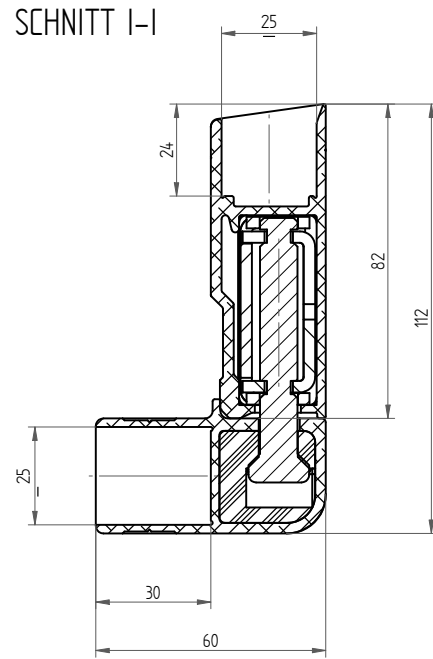
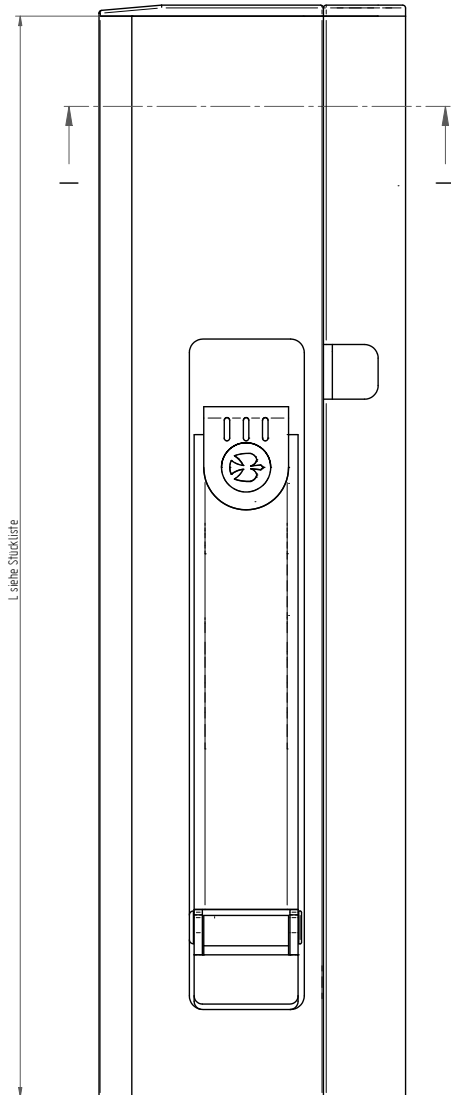
DIN 50021-SS480 h in accordance with FHS-TL 9.30

Type	Description	Length [mm]	Weight [kg]	Article No.
720.4	Small flatbed corner system left	400	1,78	6.021.673.00
720.4	Small flatbed corner system right	400	1,78	6.021.672.00
720.4	Small flatbed corner system left	415	1,82	6.020.921.00
720.4	Small flatbed corner system right	415	1,82	6.020.920.00
720.5	Small flatbed corner system left	500	2,03	6.021.675.00
720.5	Small flatbed corner system right	500	2,03	6.021.674.00
720.5	Small flatbed corner system left	515	2,07	6.020.923.00
720.5	Small flatbed corner system right	515	2,07	6.020.922.00
720.6	Small flatbed corner system left	600	2,28	6.021.677.00
720.6	Small flatbed corner system right	600	2,28	6.021.676.00
720.6	Small flatbed corner system left	615	2,32	6.020.925.00
720.6	Small flatbed corner system right	615	2,32	6.020.924.00
720	Cover cap, right		0,01	6.020.831.09
720	Cover cap, left		0,03	6.020.832.09
	Cover cap, right			6.020.831.02
	Cover cap, left			6.020.832.02

Further versions upon request

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CORNER SYSTEM 720



SURFACE-MOUNTED FLAT-BOLT FASTENER 680

- The 680 fastener is a customs lock whose lever is under the tarpaulin when in closed position
- Smooth-running
- Is characterised by its extremely flat design

Typical fields of application

- Especially designed for very low installation heights for vehicles with pillars
- It is used with middle and corner pillars
- The lock can also be installed in hasp profiles
- Its performance is proved especially with tail lifts

Technology

- › Satisfies customs requirements as the horizontal lever is under the tarpaulin when in closed position
- › The lever is held in both end positions by a spring-loaded ball lock
- › Its ease of movement is provided by a synthetic bearing at the pivot point of the lever
- › The handle has a height of 28mm, the housing has a height of 20.5 mm
- › The 680 fastener requires an installation height of 20.5 mm

Versions

Electro galvanised in accordance with FHS-TL 9.01



Type	Description	Weight [kg]	Article No.
680	Surface-mounted flat-bolt fastener, right	1,30	6.040.031.00
680	Surface-mounted flat-bolt fastener, left	1,30	6.040.032.00

BUILT-IN FLAT-BOLT FASTENER 682

- The 682 fastener is a built-in fastener for dropsides
- Suitable for high loads with low wear

Typical fields of application

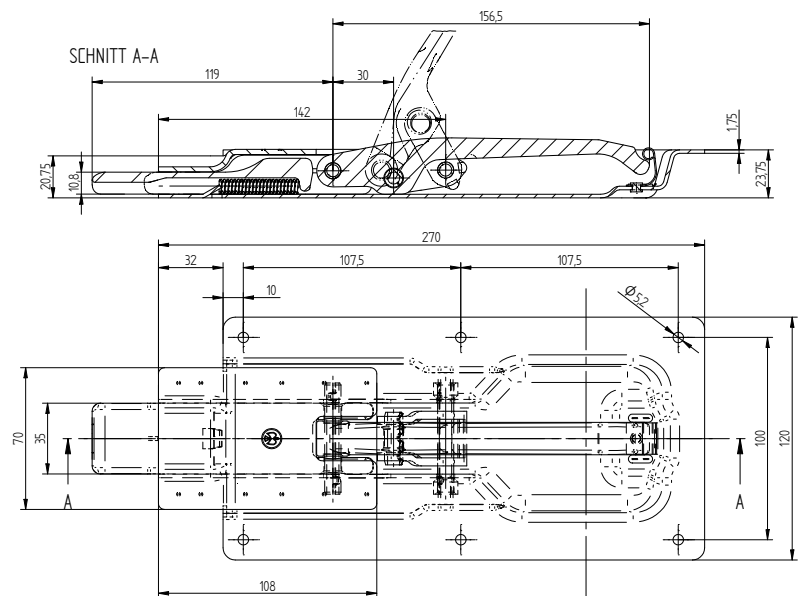
- Designed for medium-heavy and heavy flatbed and folding wall superstructures
- The fastener is locked by means of a slot in the pillar

Technology

- › To ensure sturdiness of the fastener, all lock parts are made of high-strength materials
- › The lock is designed with a knee lever system
- › A locking spring of stainless steel locks the hand lever
- › The stroke is 24mm
- › Self-locking by using a swing-out element and due to the special arrangement of the attachment points

Versions

Electro galvanised in accordance with FHS-TL 9.01



Type	Description	Weight [kg]	Article No.
682	Built-in flat-bolt fastener	1,44	6.060.013.00

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BUILT-IN TENSION-BOLT FASTENER 681S/1, 681SL, 681S10, 681SL10

- 681S fastener is based on the proven built-in tension-bolt fastener system
- 681 has a semi-automatic pushbutton locking device
- The fasteners have a cargo pressure detection

Typical fields of application

- Medium-heavy and heavy flatbed superstructures
- Aluminium or steel dropsides (wall thickness 25mm)
- Use only with offset 25mm dropside bezel profiles for dropside pillars installed on the outer frame
- Pillar pockets are bolted or welded to the side of the dropside pillar

Technology

- › Has a tensile strength of 4.5 t
- › The system engages in an arresting position when opened under cargo pressure
- › The flexible compensation of the lock prevents unintentional opening while driving
- › Contains two independent locking systems
- › Satisfies the regulations of the German employers' liability insurance association

Versions

Electro galvanised in accordance with FHS-TL 9.01

681S10 electro galvanised in accordance with FHS-TL 9.03

Mounting examples

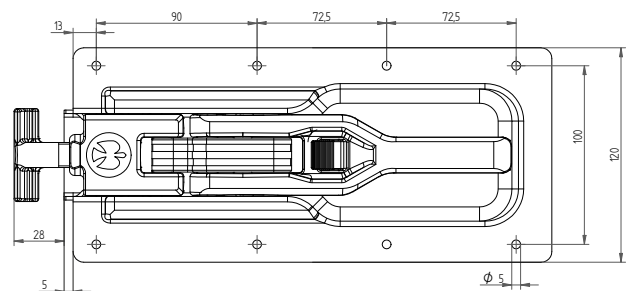
Can be ordered for dropside bezels separately

Accessories

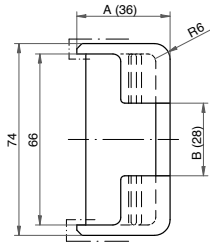
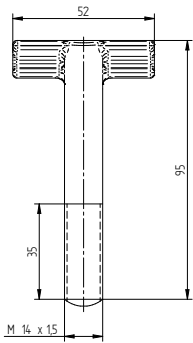
Attached

Supplements

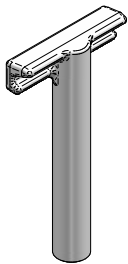
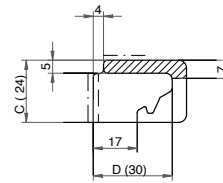
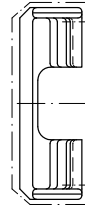
SolidMaster



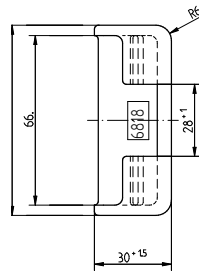
BUILT-IN TENSION-BOLT FASTENER 681S/1, 681SL, 681S10



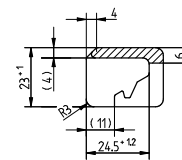
6817



681



6818



Type	Description	Weight [kg]	Article No.
681S/1	Fastener with short tensioning bolt, welded	1,57	6.060.233.00
681SL	Fastener with long tensioning bolt, welded	1,57	6.060.257.00
681S10	Fastener with short tensioning bolt, riveted	1,52	6.060.311.00
681SL10	Fastener with long tensioning bolt, riveted	1,52	6.060.315.00
681	Tensioning bolt, 95mm long	0,15	6.060.253.99
681	Tensioning bolt, 60mm long	0,11	6.060.234.99
681/686	6817 Pillar pocket for welding, raw	0,21	6.071.129.00
681/686	6818 Corner pillar pocket for welding, raw	0,21	6.071.137.00
681	801 Pillar pocket, KTL coating	0,15	6.071.165.99
681	801 Pillar pocket high, KTL coating	0,17	6.071.166.99

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OVERVIEW



- **Elbow-handle fastener 6121N**
- **Universal fastener 603**
- **Eccentric fasteners 6043, 60450**
- **Pendulum fasteners 662, 664N**

ELBOW-HANDLE FASTENER 6121N

Equipped with an integrated semi-automatic safety device

Typical fields of application

- Main fields of application are car trailers and horse boxes
- Steel or aluminium dropsides
- The fastener baseplate is fastened to the dropside using three fillister head screws M8 DIN 6912

Technology

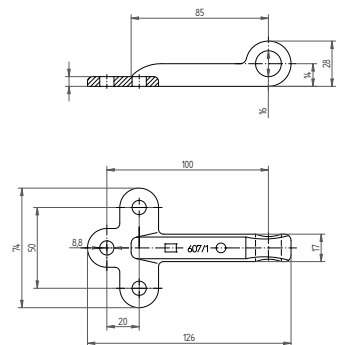
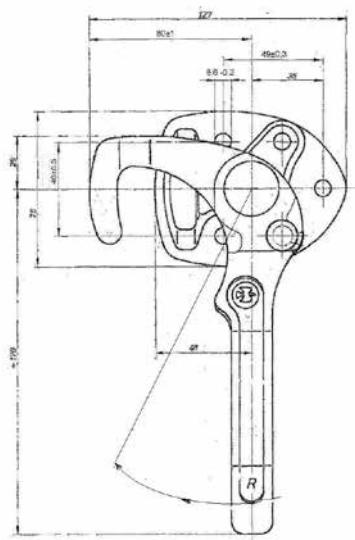
- › An integrated semi-automatic pushbutton locks the fastener in the closed position
- › Parallel movement of the hand lever to the dropside, hence no protrusion into the traffic area
- › Compact design and high-strength material
- › Available as a screw-on version
- › Galvanised surface

Versions

Electro galvanised according to FHS-TL 9.01

Accessories

607/1 Eye bracket, electro galvanised in accordance with FHS-TL 9.01, screw-on



Type	Description	Weight [kg]	Article No.
6121N	Elbow handle fastener, left	0,72	6.020.143.00
6121N	Elbow handle fastener, right	0,72	6.020.142.00
607/1	Eye bracket	0,24	6.011.059.99

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UNIVERSAL FASTENER 603

The 603 fastener is a surface-mounted fastener with a mounting height of 37 mm. Its special design and reliability are its main characteristics.

Typical fields of application

- Tipper superstructures of all kinds
- Superstructures with and without corner pillars

Technology

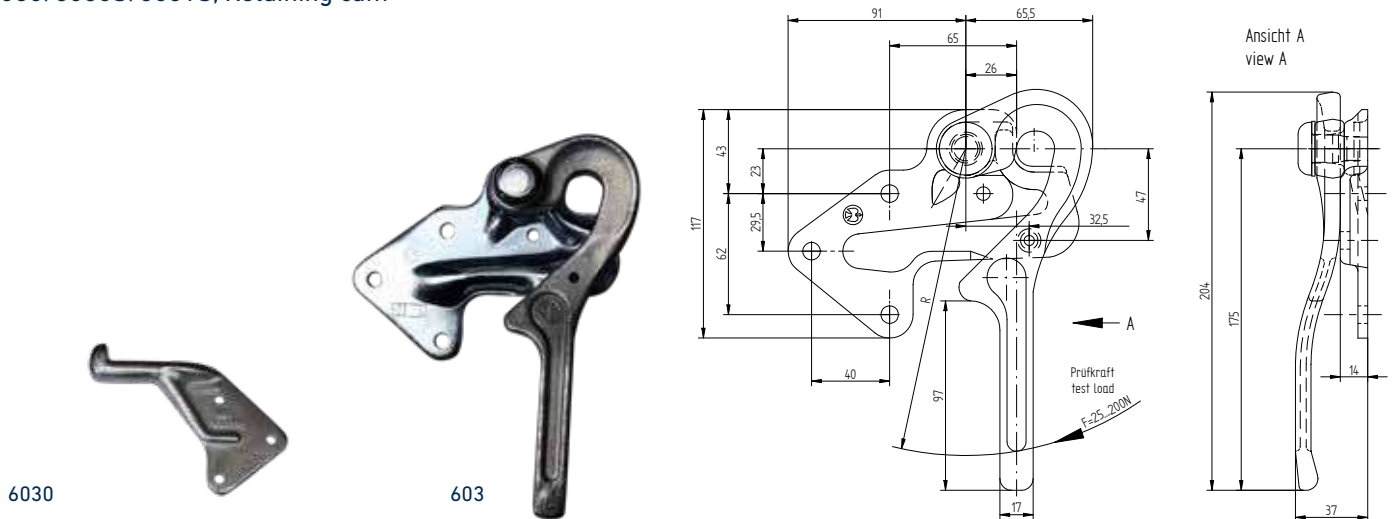
- › The fastener hook is integrated into the hand lever part so that the retaining cam can be easily moved to the locking position
- › The 603 fastener achieves its excellent closing function thanks to the large chamfer above the hand lever part

Versions

Electro galvanised in accordance with FHS-TL 9.01

Accessories

6030/6030S/6031S, Retaining cam



Type	Description	Weight [kg]	Article No.
603	Fastener, right	0,75	6.020.167.00
603	Fastener, right	0,75	6.020.168.00
6030	Retaining cam, right	0,40	6.030.089.99
6030	Retaining cam, left	0,40	6.030.090.99

ECCENTRIC FASTENERS 6043, 6043S

The eccentric fasteners 6043 are length-adjustable thanks to a thread. They are available in 2 versions, with and without locking device.

Typical fields of application

- Car trailers and special tipper superstructures
- Spare wheel holders, toolboxes, transport containers in the packaging, construction machines and building industry, as well as container and mould making

Technology

- › Fasteners can be welded or bolted on, the mounting height is additional 35mm
- › The eccentric top arm is the primary locking element. The additional integrated positive-fit locking device prevents accidental opening. The locking device is located under the hand lever and engages in the baseplate

Versions

Raw or electro galvanised in accordance with FHS-TL 9.01

Accessories

6044 Retaining cam for bolting

6044S Retaining cam for welding

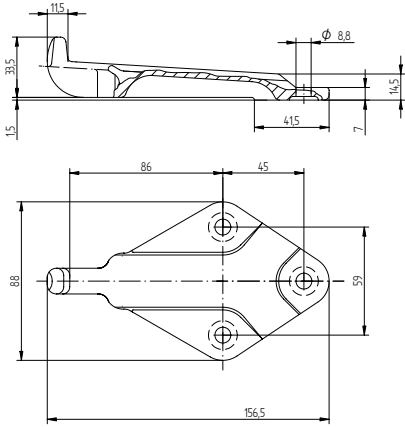


6043

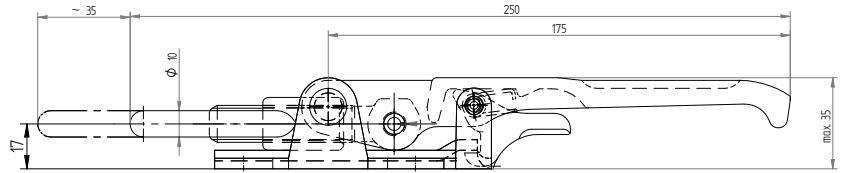


6043S

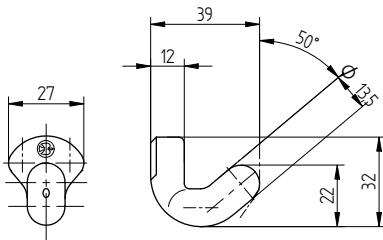
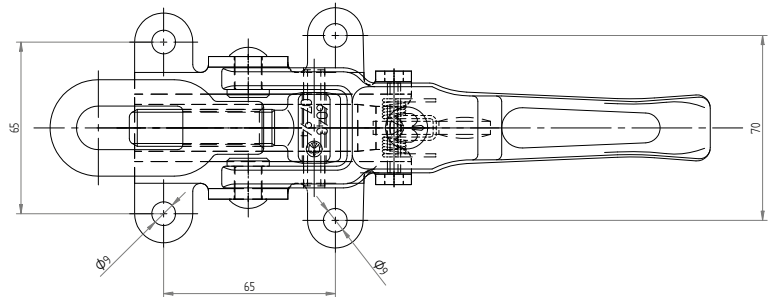
ECCENTRIC FASTENERS 6043, 6043S



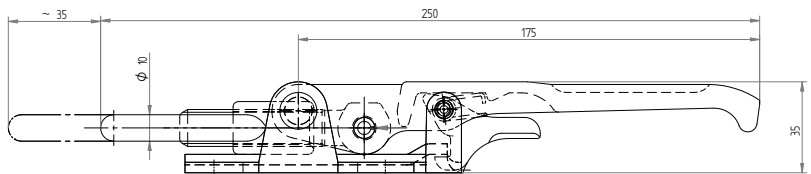
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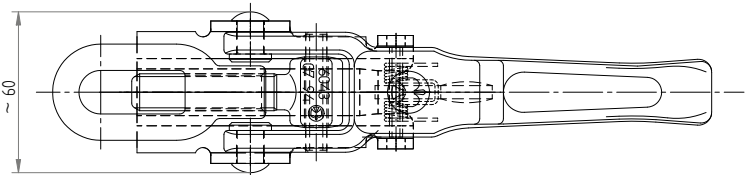
6043



6044S



6043S



Type	Description	Mounting height [mm]	Weight [kg]	Article No.	
				Raw	Galvanised
6043	Eccentric fastener, without integrated locking mechanism	35	0,86	6.020.047.00	-
	Eccentric fastener, with integrated positive-fit locking mechanism	35	0,88	6.020.383.00	6.020.390.00
6044	Retaining cam, for bolting	35	0,46	-	6.030.077.99
6043S	Eccentric fastener, without integrated locking mechanism	35	0,81	6.020.048.00	-
	Eccentric fastener, with integrated positive-fit locking mechanism	35	0,84	6.020.384.00	-
6044S	Retaining cam, for welding	-	0,07	6.030.075.99	-

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ECCENTRIC FASTENER 60450 - ADJUSTABLE

60450 screw-in eyebolt in the fastener element.

Typical fields of application

- Car trailers and light flatbed superstructures; containers for trucks that hold a spare wheel or accessories; tool- boxes or transport containers
- The fastener is also used in the packaging industry, in container and mould making or in the construction machines and building industry
- Securing of tarpaulins to vehicles

Technology

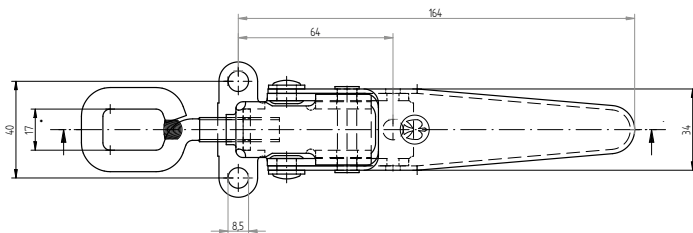
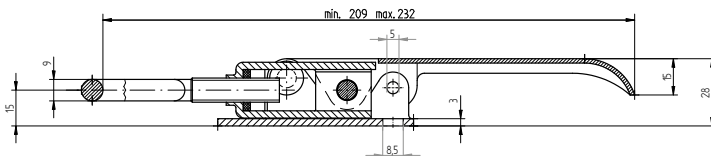
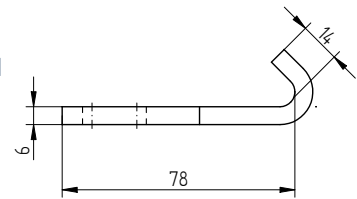
- › The eccentric top arm of the fasteners holds the fastener in the locked position, but needs to be additionally secured with clip pins

Versions

Electro galvanised in accordance with FHS-TL 9.01 or stainless steel, electropolished

Accessories

Counterholder, straight, for version 60450, galvanised



60455



60450

Type	Description	Weight [kg]	Article No.
60450	Eccentric fastener, adjustable	0,35	
	galvanised stainless steel		6.020.709.00 6.020.706.00
60455	Counterholder, straight, for version 60450, galvanised	0,06	6.030.052.00

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PENDULUM FASTENER 662N, 662NP

- Equipped with automatic lock adjustment
- One-handed operation and sturdiness thanks to use of high-strength materials
- Suitable for steel or aluminium tipper dropsides

Typical fields of application

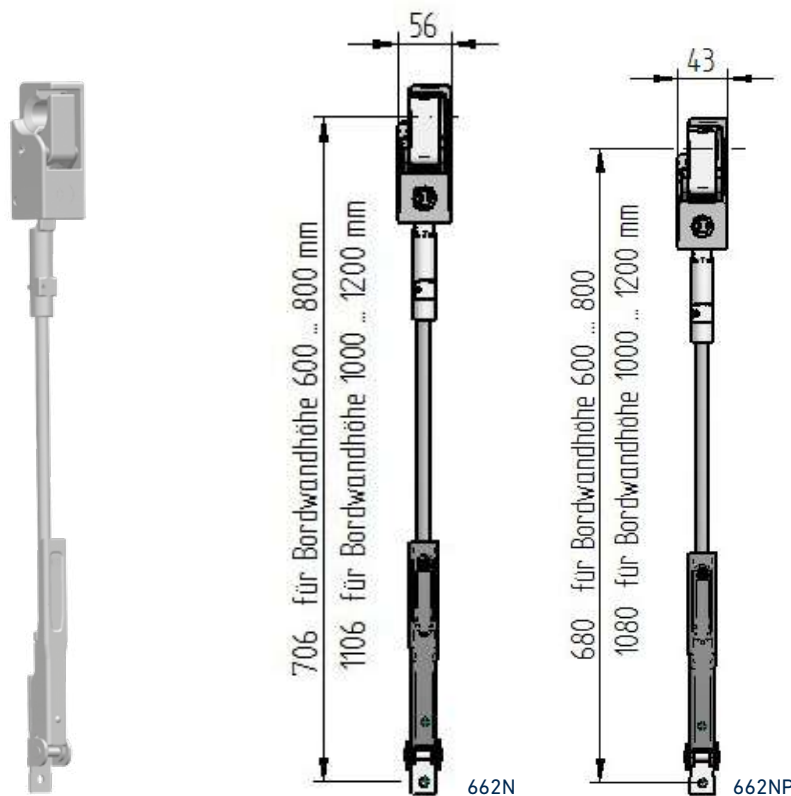
- 662NP especially for pallet tipper superstructures
- Short version for dropside heights of 600 - 800 mm
- Long version for dropside heights of 1000 - 1200 mm

Technology

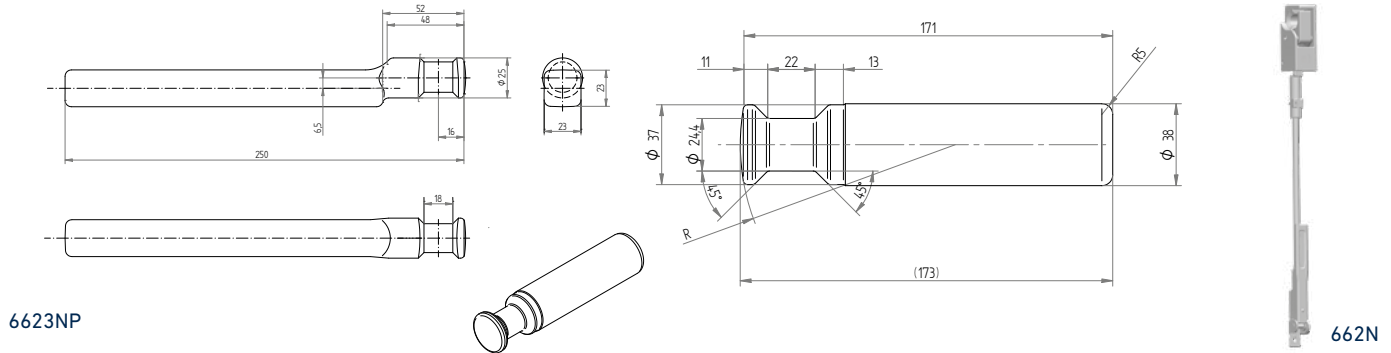
- › One-handed operation/sturdiness
- › Good closing behaviour – radial 32mm and axial 8mm
- › Double over dead centre locking in combination with a hand lever locking device
- › Automatic lock adjustment compensates installation tolerances and wear

Versions

raw



PENDULUM FASTENER 662N/662NP



6623NP

662N

Type	Description	Weight [kg]	Article No.
662N	Locking part, right	2,73	6.021.751.00
662N	Locking part, left	2,73	6.021.752.00
665N/NP	Hand lever part	0,70	6.020.301.00
662N	Fastener with thread bar 6624N, for dropside heights from 600 - 800 mm Left Right	3,40	6.020.309.00 6.020.308.00
662N	Locking part with thread bar 6624N Left Right	2,73	6.020.313.00 6.020.312.00
662N	Fastener with thread bar 6625N, for dropside heights from 1000 - 1200 mm Left Right	3,80	6.020.311.00 6.020.310.00
662N	Locking part with thread bar 6625N Left Right	3,10	6.020.315.00 6.020.314.00
6620N	Pendulum pin	1,36	6.030.097.01
662NP	Fastener with thread bar 6624N, for dropside heights from 600 - 800 mm Left Right	2,40	6.020.303.00 6.020.302.00
662NP	Locking part with thread bar 6624N Left Right	1,67	6.020.300.00 6.020.299.00
662NP	Fastener with thread bar 6625N, for dropside heights from 1000 - 1200 mm Left Right	2,85	6.020.305.00 6.020.304.00
662NP	Locking part with thread bar 6625N Left Right	2,15	6.020.307.00 6.020.306.00
6623NP	Pendulum pin	0,93	6.031.132.99

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PENDULUM FASTENER 664N

- With automatic lock adjustment
- Automatic locking under the hand lever
- One-handed operation

Typical fields of application

- For commercial and agricultural tipper superstructure
- With steel or aluminium dropsides, the 664N fastener is installed on middle or corner pillars
- The pendulum bolt is fastened to the upper edge of the dropside
- With narrow pillar profiles or compact designs, the fasteners with laterally offset hand lever must be installed so that a clearance for the fingers of at least 25mm to the folding or swinging tipper dropside is maintained

Technology

- › Closing behaviour – radial 32mm and axial ± 8 mm
- › Available with laterally offset or straight hand lever
- › Double over dead centre locking in combination with the lock under the hand lever prevents accidental opening
- › Automatic lock adjustment (compensates installation tolerances and wear, clearance-free alignment of closing hook with pendulum pin in bearing housing)
- › Straight pendulum pin 6640N or cranked pendulum pin 6623 NP allows a wide range of installation possibilities. Pendulum pin 6641N is mounted on the dropside
- › All fastener parts satisfy the occupational health and safety regulations

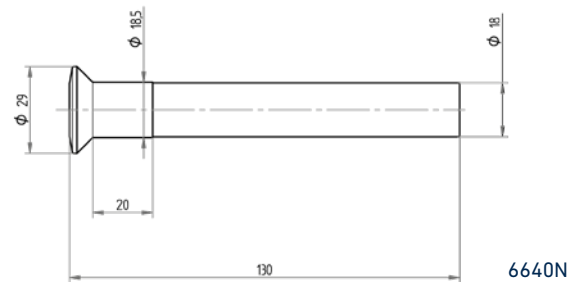
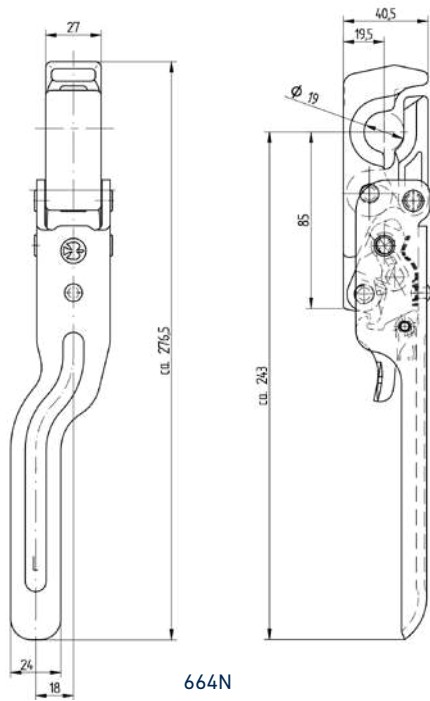
Versions

Raw or electro galvanised in accordance with FHS-TL 9.01



664N

PENDULUM FASTENER 664N



Type	Description	Weight [kg]	Article No.
664N	Tipper fastener, raw with automatic positive-fit locking mechanism, straight	0,90	6.020.124.00
664N	Tipper fastener, raw with automatic positive-fit locking mechanism Left Right	0,91	6.020.128.00 6.020.127.00
664N	Tipper fastener, galvanised with automatic positive-fit locking mechanism, straight	0,91	6.020.265.00
664N	Tipper fastener, galvanised with automatic positive-fit locking mechanism Left Right	0,94	6.020.286.00 6.020.285.00
6623NP	Pendulum pin	0,93	6.031.132.99
6640N	Pendulum bolt, raw	0,27	6.031.078.00
6641N	Retaining cam, galvanised Left Right	0,49	6.031.124.99 6.031.123.99

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OVERVIEW



➤ **Box van hinge HESTAL *HingeMaster* 895**

HESTAL HingeMaster 895

Typical fields of application

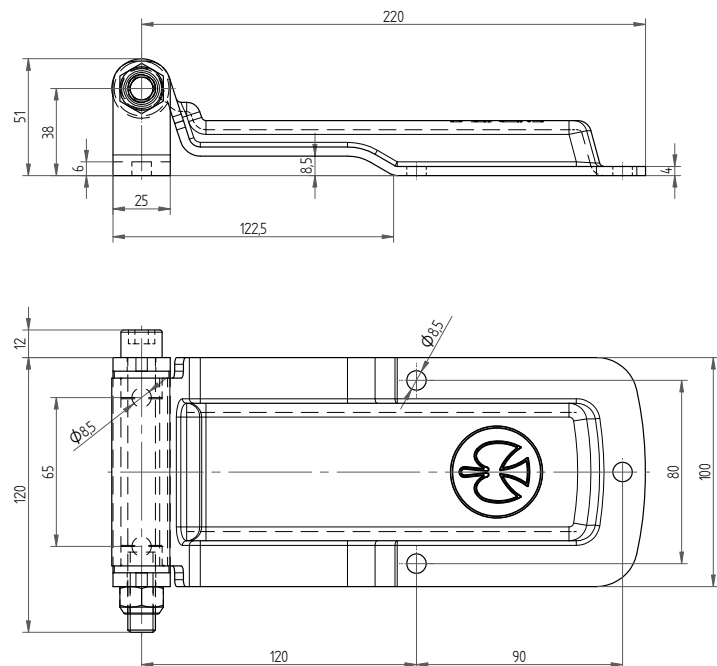
The customs-proof HingeMaster 895 is an ideal surface-mounted hinge for box van and refrigerated box superstructures.

Technology

- › HingeMaster 895 is available in two different sizes
- › Increased stability with low weight
- › Surface-mounting dimensions allow simple integration into existing door constructions
- › HingeMaster 895.08 with a width dimension of 80mm is recommended for all LockMaster products with a bar diameter from 16 to 20mm
- › HingeMaster 895.10 with a width dimension of 100mm is recommended for all LockMaster products with a bar diameter of 27mm

Versions

Mechanically polished



Description	Weight [kg]	Article No.
HingeMaster 895.08	0,67	6.510.628.00
HingeMaster 895.10	1,35	6.510.627.00

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OVERVIEW

➤ **Dropside hinges 654N, 655N, 656N, 657**

DROPSIDE HINGE 654N

654N is a proven dropside hinge satisfying customs requirements for medium-heavy and heavy flatbed superstructures.

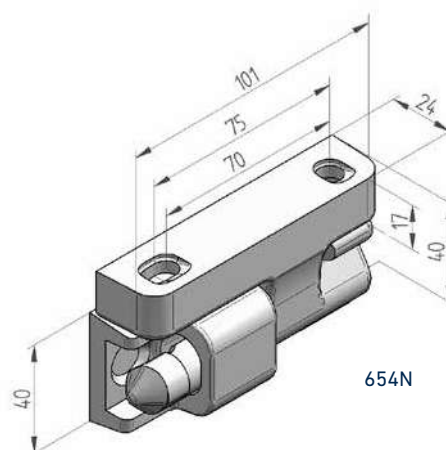
- For aluminium dropsides (25mm or 30mm thick)

Technology

- › Positive-fit locking design principle prevents accidental opening of the dropside
- › The 654N hinge consists of a hinge bearing and a hinge bolt
- › The hinge bolt is attached to the vehicle frame
- › The bearing housing is fastened to the dropside
- › The hinge bolts can alternatively be ordered with M12 tie rod bore

Versions

Electro galvanised in accordance with FSH-TL 9.01



Type	Description	Weight [kg]	Article No.
6540N	Hinge bearing for welding	0,32	6.510.409.99
65400N	Hinge bearing for bolting	0,29	6.510.418.99
6541N	Hinge bolt	0,34	6.510.410.99
6541N	Hinge bolt with tie rod bore M12	0,33	6.510.419.99
6542	Threaded plate 8mm	0,11	6.511.145.00
6543	Threaded plate 6mm	0,10	6.511.149.00

DROPSIDE HINGE 655N, 656N

655N and 656N are proven dropside hinges satisfying customs requirements for medium-heavy and heavy flatbed superstructures.

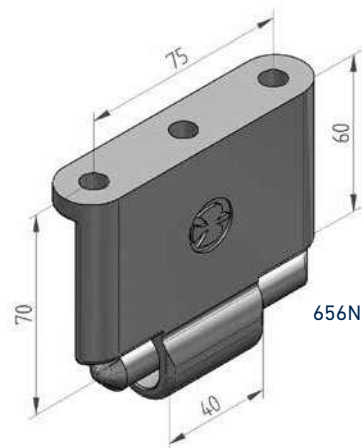
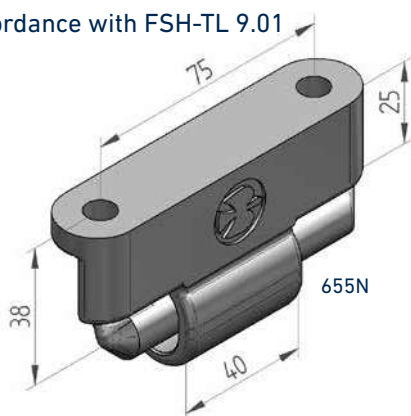
- For aluminium dropsides (25 mm thick)

Technology

- › The hinge 655N consists of the hinge bolt and the hinge bearing 6552N
- › The hinge 656N consists of the hinge bolt and the hinge bearing 6561N
- › The hinge bolt is welded to vehicle frame
- › The hinge bearing is fastened to the dropside
- › Hinge bearing can alternatively be ordered with M12 tie rod bore

Versions

Electro galvanised in accordance with FSH-TL 9.01



Type	Description	Weight [kg]	Article No.
6550N	Hinge bolt, right	0,22	6.511.355.99
6550N	Hinge bolt, left	0,22	6.511.356.99
6552N	Hinge bearing	0,33	6.510.354.99
6552N	Hinge bearing with tie rod bore M12	0,31	6.510.363.99
6561N	Hinge bearing	0,51	6.510.429.99
6561N	Hinge bearing with tie rod bore M12	0,49	6.510.430.99
6542	Threaded plate 8mm	0,11	6.511.145.00
6543	Threaded plate 6mm	0,10	6.511.149.00

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DROPSIDE HINGE 657

The dropside hinge satisfying customs requirements is suitable for light flatbed superstructures and car trailers of all kinds

- For 25mm dropsides of steel and aluminium
- For outboard and inboard dropsides
- Thanks to the compact design, the hinge 657 can be used on narrow outer frames

Technology

- › Positive-fit locking design principle prevents accidental opening of the dropside
- › Dropside hinge 654N consists of a hinge bearing and a hinge bolt
- › The individual components can be combined and allow a wide variety of mounting variations

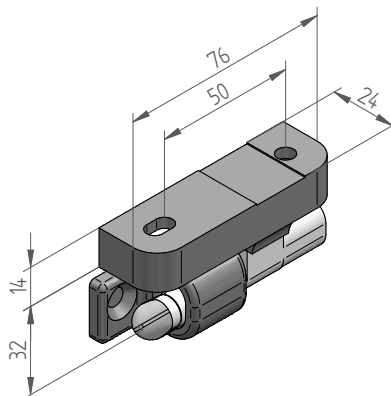
Versions

Raw

KTL coated in accordance with FHS-TL 9.13

Electro galvanised in accordance with FHS-TL 9.01

Hot-dip galvanised in accordance with FHS-TL 9.22



Type	Description	Weight [kg]	Article No.
6572	Hinge bolt, raw 32mm pivot point distance from the dropside	0,18	6.510.469.98
6572	Hinge bolt, galvanised 32mm pivot point distance from the dropside	0,18	6.510.469.99
6575	Hinge bolt, KTL 38mm pivot point distance from the dropside	0,18	6.510.598.97
5675	Hinge bolt, hot-dip galvanised 38mm pivot point distance from the dropside	0,18	6.510.598.99
6570	Hinge bolt, raw 16mm pivot point distance from the frame profile	0,13	6.510.470.99
65700	Hinge bolt, perforated 16mm pivot point distance from the frame profile	0,12	6.510.481.98
65700	Hinge bolt, galvanised 16mm pivot point distance from the frame profile	0,12	6.510.481.99
6576	Hinge bolt, KTL 18mm pivot point distance from the frame profile	0,13	6.510.595.97
6576	Hinge bolt, galvanised 18mm pivot point distance from the frame profile	0,13	6.510.595.98
6574	Threaded plate 6mm	0,07	6.511.486.00

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The image shows a close-up of an aluminium superstructure component. A silver metal hinge is visible on the side of a white aluminium panel. Above the hinge, a perforated metal strip is mounted on a dark brown fabric surface. The background is a blurred view of the interior of a container or trailer, showing more of the structure and a blue door on the left. The overall image is framed with dark blue diagonal overlays.

ALUMINIUM SUPERSTRUCTURES

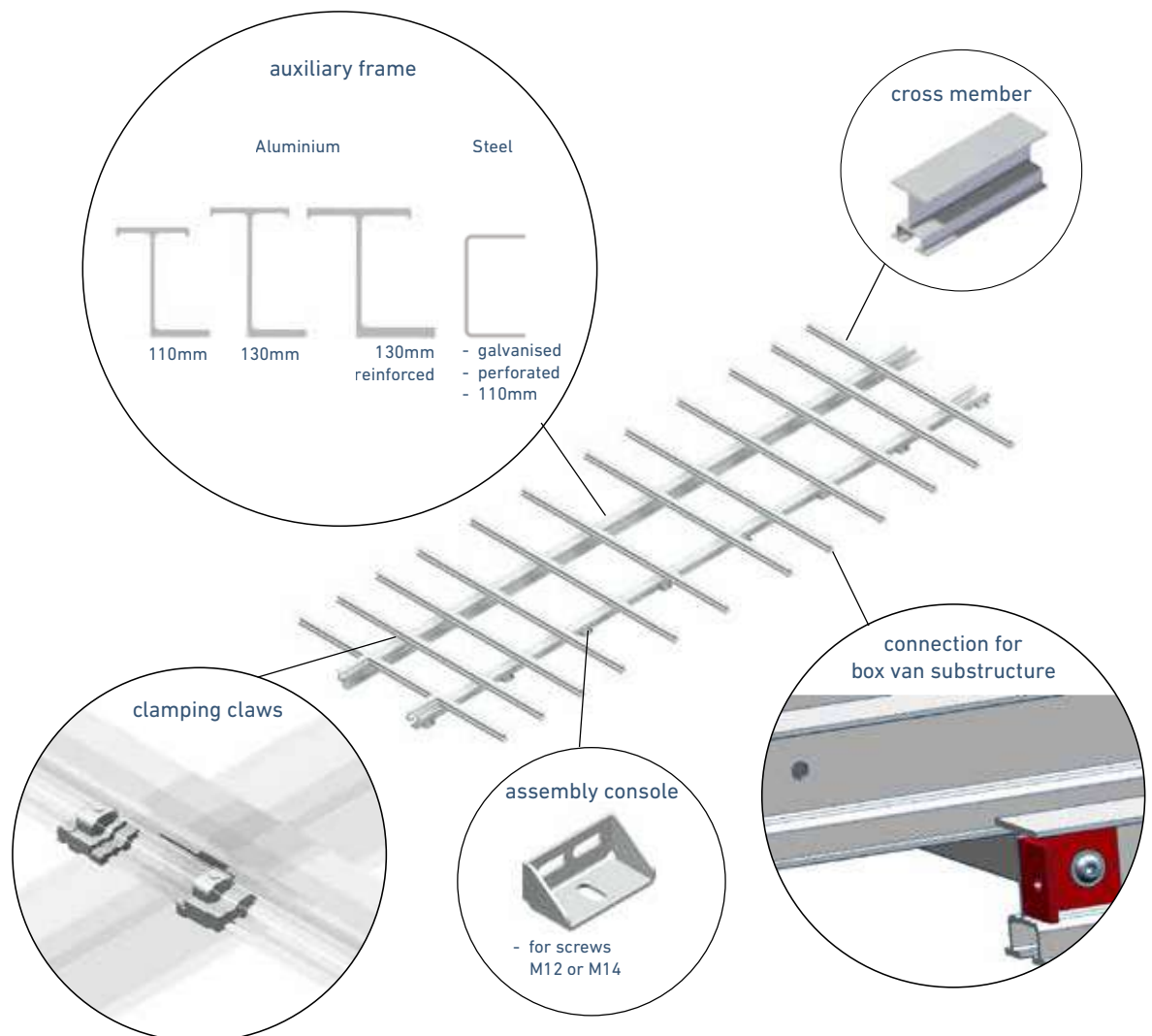
OVERVIEW



- **Box van substructure**
- **Flatbed substructure**
- **Flatbed kits**
- **Curtainsider kits**

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BOX VAN SUBSTRUCTURE

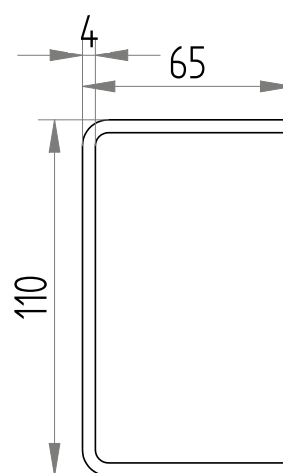
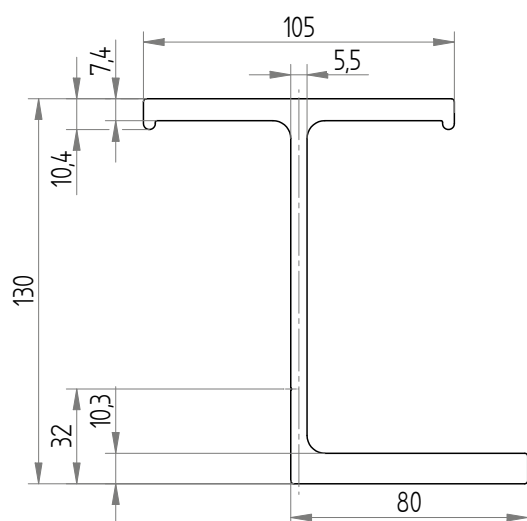
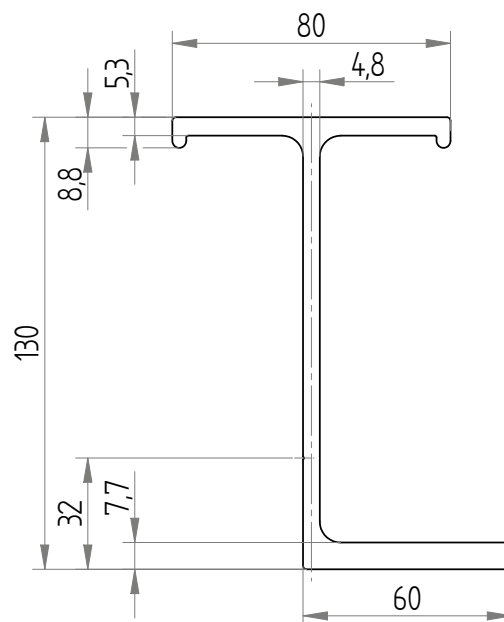
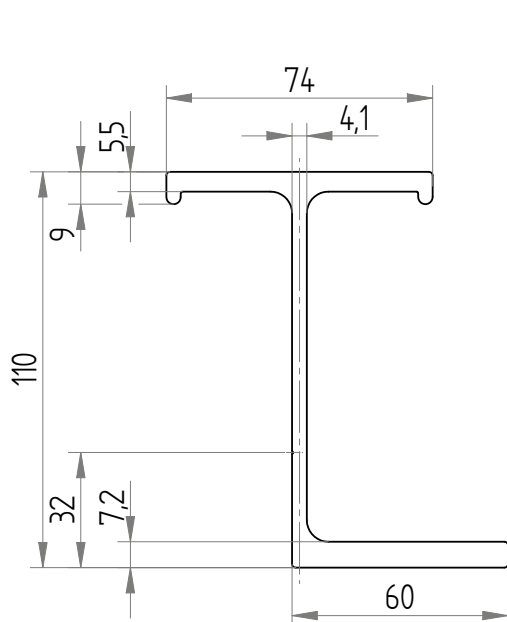


Vehicle substructure for commercial vehicles up to 15t permitted total weight.

Technology

- › Weight saving due to the use of aluminium superstructures
 - High load capacity and reduced fuel consumption due to light structural weight
- › Ease of installation
 - Quick and easy installation due to screw/clamp design and pre-assembled components
- › Product variety / high degree of flexibility
 - Up to 7200mm (inner) length and max. 2550mm (outer) width
 - Variable number of cross members

BOX VAN SUBSTRUCTURE



Description	Height of the profile [mm]	Weight [kg/m]	Article No.
Aluminium – auxiliary frame profile	110	3,66	6.620.001.00
Aluminium – auxiliary frame profile	130	4,26	6.620.001.01
Aluminium – auxiliary frame profile	130 reinforced	6,44	6.620.001.02
Steel – auxiliary frame profile	110	7,03	6.620.001.03

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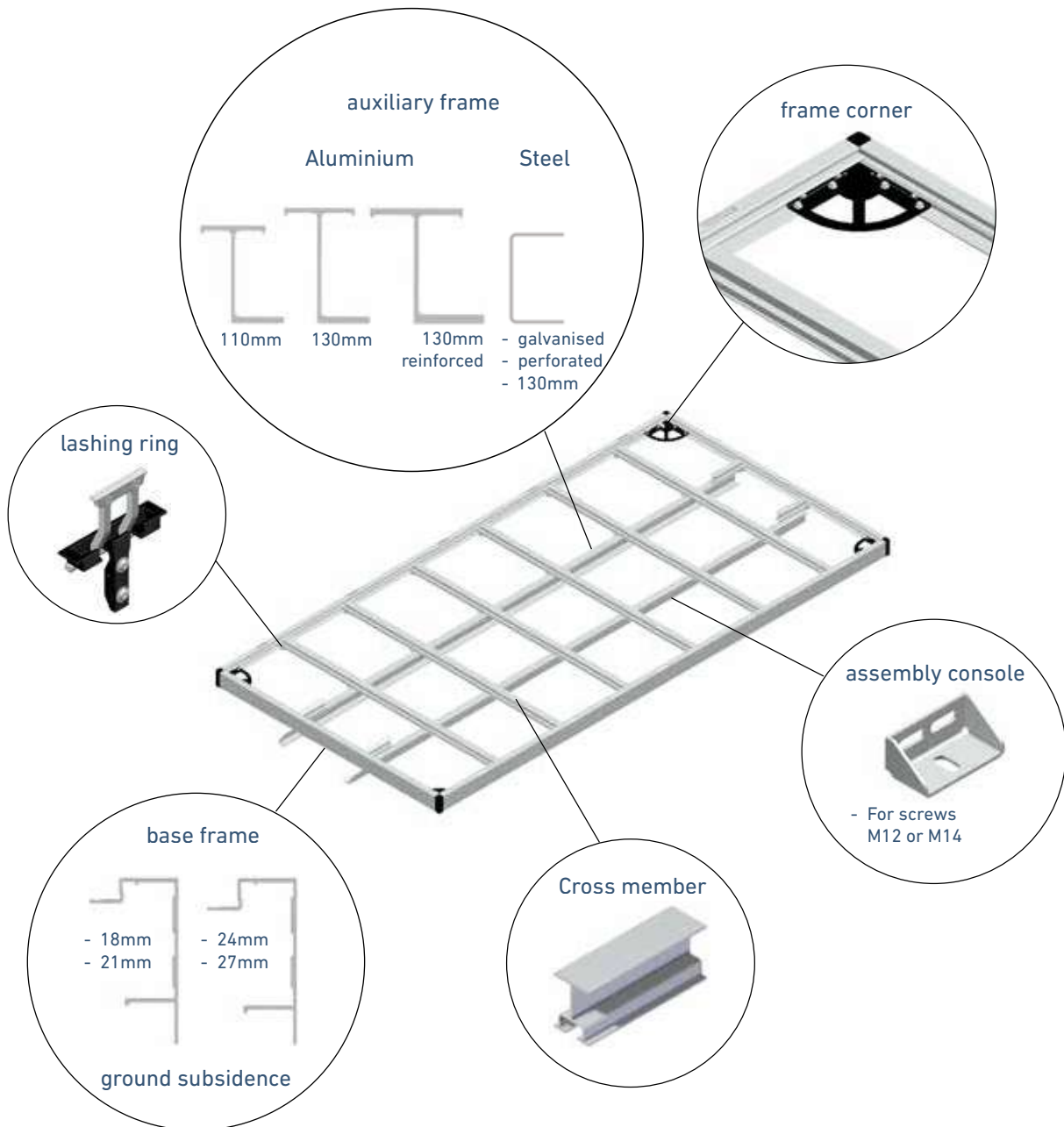
BOX VAN SUBSTRUCTURE

Figure	Description	Article No.
	<p>BG connection angle box van superstructure</p> <p>Contains: Connection angle box van superstructure 50 x 50 x ^9-^95 long Washer B 10,5 DIN 125 Oval-head screw with flange M10 x 25 Locking nut M10</p>	<p>6.620.014.70</p>
	<p>BG thrust plate</p> <p>Contains: Thrust plate Counter plate long Hexagon screw with flange M12 x 35 Locking nut with flange M12</p>	<p>6.620.014.20</p>
	<p>BG connection angle flatbed</p> <p>Contains: Connection angle flatbed Oval-head screw with flange M10 x 25 Locking nut M10 Washer B10,5 DIN 125</p>	<p>6.620.014.80</p>
	<p>BG clamping claws</p> <p>Contains: Hexagon screw M10 x 1 x 40 Washer B10,5 DIN 125 Spring washer B10 DIN 127 Clamping claw 18 x 44 x 50 Sliding stone 100mm</p>	<p>6.620.014.40</p>

BOX VAN SUBSTRUCTURE

Figure	Description	Article No.
	<p>BG assembly console 1</p> <p>Contains: Counter plate Hexagon screw with flange M12 x 35 Locking nut M12</p>	<p>6.620.014.00</p>
	<p>BG assembly console 2</p> <p>Contains: Counter plate Hexagon screw with flange M12 x 35 Locking nut M12</p>	<p>6.620.014.10</p>

FLATBED SUBSTRUCTURE



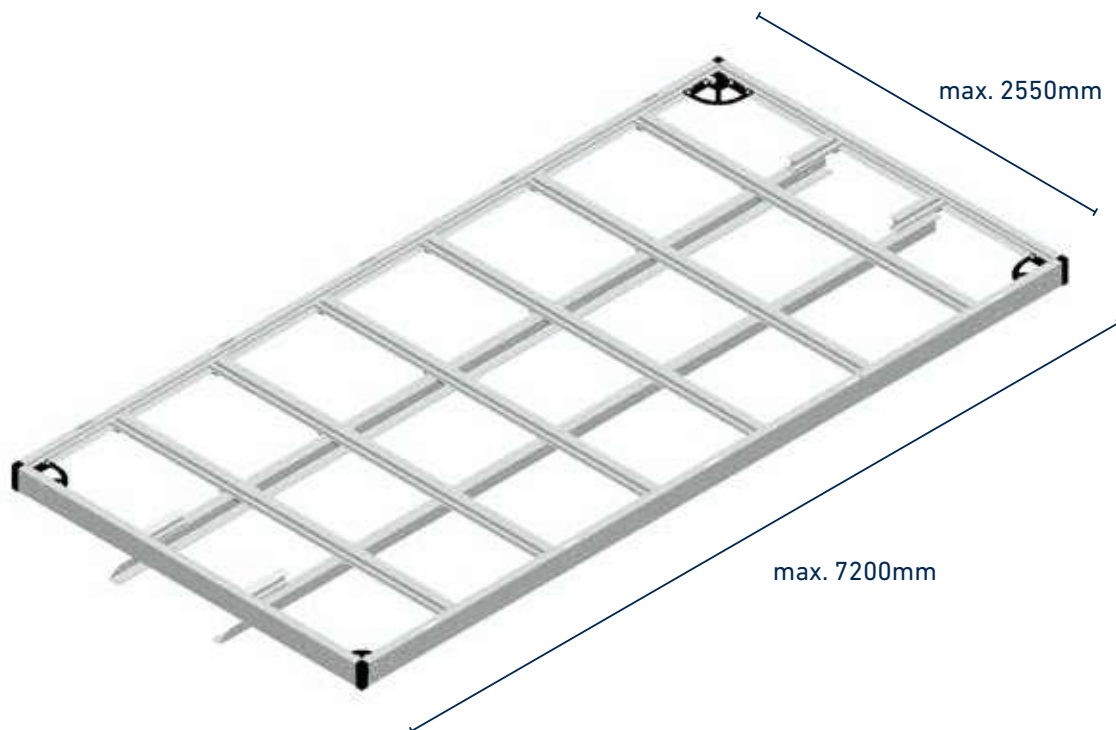
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FLATBED SUBSTRUCTURE

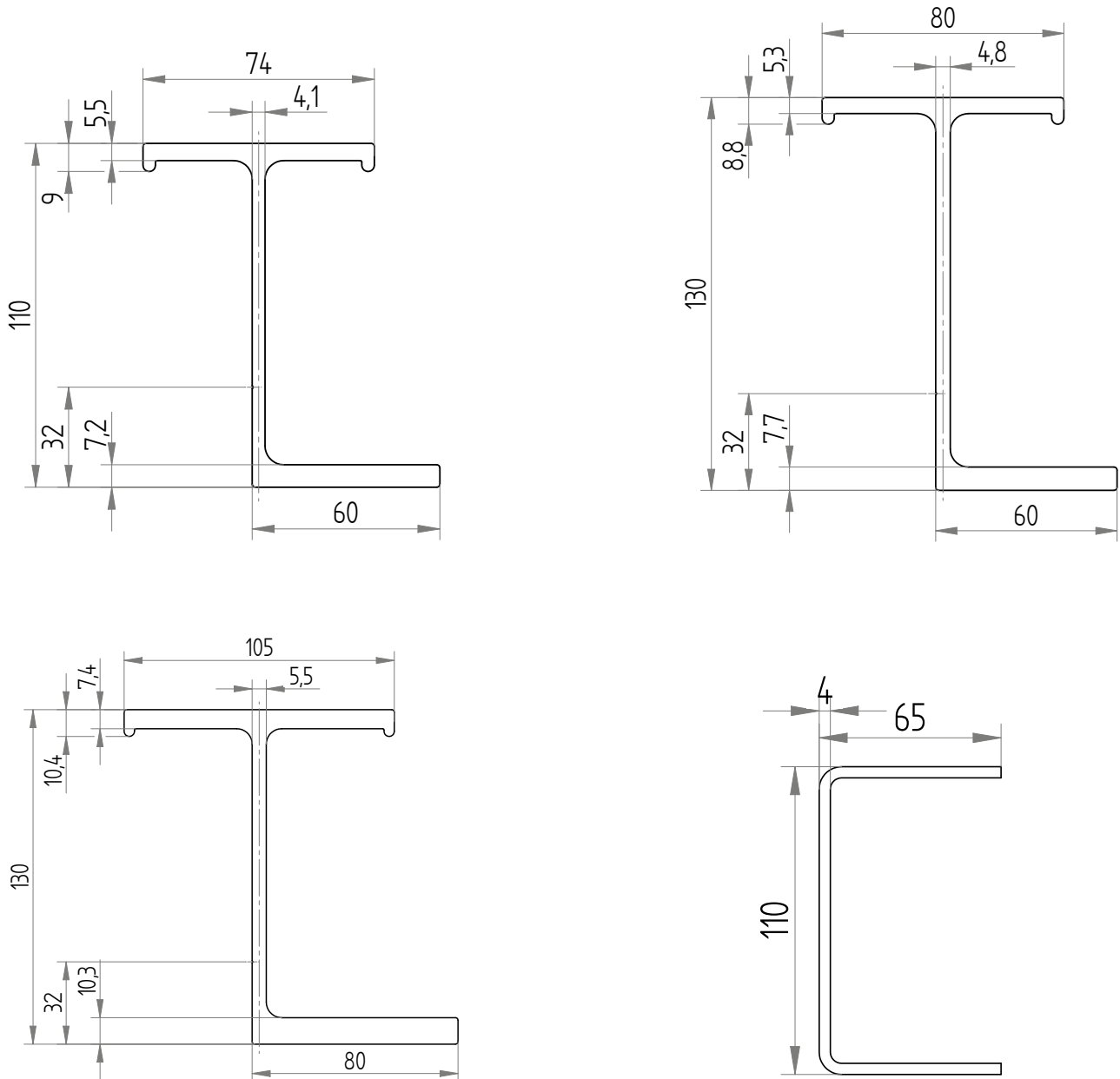
Commercial vehicle superstructures up to 15t permitted total weight.

Technology

- › **Weight saving due to the use of aluminium superstructures**
 - High load capacity and reduced fuel consumption due to light structural weight
- › **Ease of installation**
 - Quick and easy installation due to screw/clamp design and pre-assembled components
- › **Product reliability**
 - Corrosion protection due to KTL coating of the attachment parts made out of steel
- › **Product variety / high degree of flexibility**
 - Up to 7200mm (inner) length and max. 2550mm (outer) width
 - Ground subsidence (18mm, 21mm, 24mm, 27mm)
 - Number of lashing rings in compliance with DIN EN 12640
 - Variable number of cross members
 - Crane superstructure



FLATBED SUBSTRUCTURE



Description	Height of the profile [mm]	Weight [kg/m]	Article No.
Aluminium – auxiliary frame profile	110	3,66	6.620.001.00
Aluminium – auxiliary frame profile	130	4,26	6.620.001.01
Aluminium – auxiliary frame profile	130 reinforced	6,44	6.620.001.02
Steel – auxiliary frame profile	110	7,03	6.620.001.03



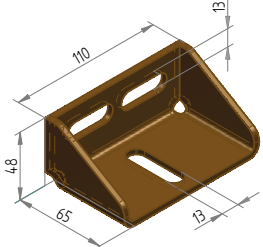
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FLATBED SUBSTRUCTURE

Figure	Description	Article No.
	<p>BG Connection base frame</p> <p>Contains: Connection base frame Sliding stone 18mm / 80mm Hexagon stone, M10x1x30 Washer B10,5 DIN 125 Federring B10 DIN 127</p>	<p>6.620.014.30</p>
	<p>BG Clamping claw cross member</p> <p>Contains: Hexagon screw, M10x1x40 Washer B10,5 DIN 125 Spring washer B10 DIN 127 Clamping claw Sliding stone 100mm</p>	<p>6.620.014.40</p>
	<p>BG Connection angle</p> <p>Contains: Connection angle flatbed Oval-head screw with flange M10 Locking nut M10 x 25 Washer B10,5 DIN 125</p>	<p>6.620.014.80</p>

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FLATBED SUBSTRUCTURE

Figure	Description	Article No.
	<p>BG Lashing ring</p> <p>Contains: Mounting bracket for lashing ring Lashing ring Locking nut M8 Oval-head screw with flange M8 x 16 Tensile strength 2000 daN</p>	<p>6.620.014.90</p>
	<p>BBG Thrust plate</p> <p>Contains: Thrust plate Counter plate long Hexagon screw with flange M12 x 35 Locking nut with flange M12</p>	<p>6.620.014.20</p>
	<p>BG Assembly console 1</p> <p>Contains: Counter plate Hexagon screw with flange M12 x 35 Locking nut M12</p>	<p>6.620.014.00</p>

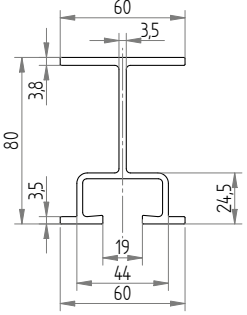
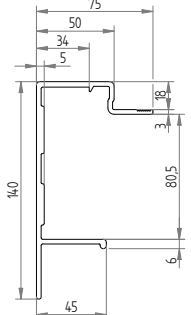
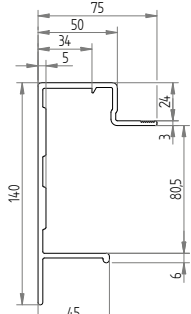
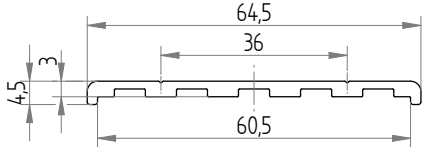
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FLATBED SUBSTRUCTURE

Figure	Description	Article No.
	<p>BG Assembly console 2</p> <p>Contains: Counter plate Hexagon screw with flange M12 x 35 Locking nut M12</p>	<p>6.620.014.10</p>
	<p>BBG Frame corner front for 802P</p> <p>Left Right</p>	<p>6.630.002.00 6.630.002.10</p>
	<p>BG Frame corner back for SolidMaster rear pillars</p> <p>Left Right</p>	<p>6.630.002.20 6.630.002.30</p>
	<p>BG Frame corner for plateau</p>	<p>6.620.012.00</p>

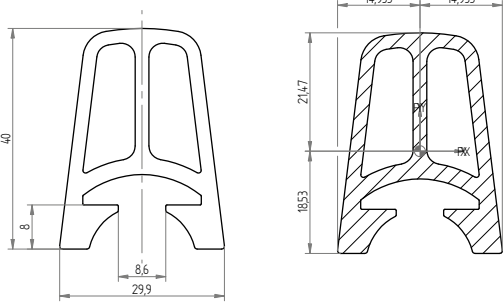
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FLATBED SUBSTRUCTURE

Figure	Description	Article No.
	<p>Cross member profile</p>	<p>6.620.001.05</p>
	<p>Base frame profile 18/21mm</p>	<p>6.620.001.09</p>
	<p>Base frame profile 24/27mm</p>	<p>6.620.001.10</p>
	<p>Compensation profile</p>	<p>6.620.001.06</p>

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FLATBED SUBSTRUCTURE

Figure	Description	Article No.
	Ram protection 40mm	6.620.001.22

FLATBED KITS



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FLATBED KITS

The HESTAL *Base* aluminium substructure is enhanced with the tried-and-trusted HESTAL *SolidMaster* dropside pillar system, fasteners and hinges, as well

as the HESTAL *Snap* aluminium profiles into complete flatbed kits. They are delivered pre-assembled in the transport base frame for quick and easy installation.

Flatbed kits for vehicles up to 18t (permitted total weight)

- › Customisable dimensions up to 7,200mm x 2,480mm (inner length x inner width)
- › HESTAL *Snap* aluminium dropside heights at 400, 500, 600, 800 and 1,000mm. Surface in raw, anodised, powder-primed or powder-coated
- › HESTAL *Snap* aluminium front wall at dropside height as standard; optionally up to permitted vehicle height and with view holes (without certificate). Surface in raw, anodised, powder-primed or powder-coated
- › HESTAL *SolidMaster* pillars and pillar bearings with KTL coating as standard; optionally with powder coating or microZINQ® surface
- › Fitting HESTAL fasteners and hinges
- › Load securing aids such as e.g. HESTAL *VarioSave* and integrated lashing rails
- › Numerous options, such as HESTAL ram protection profiles, folding steps and tarpaulin eyelets
- › Standard superstructure certified according to DIN EN 12642 Code XL up to a maximum payload of 10t

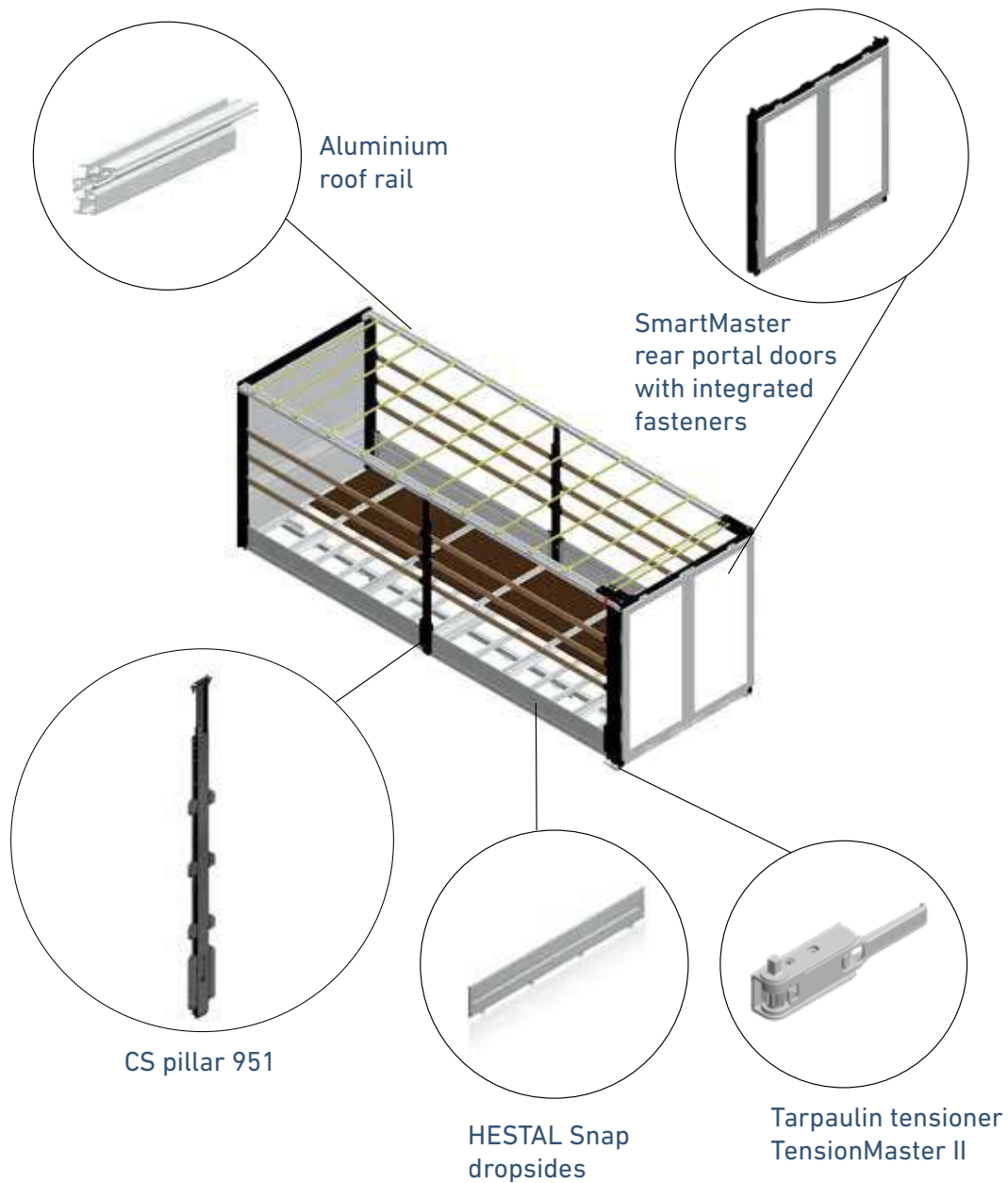


For example: HESTAL flatbed superstructure with elevated HESTAL *Snap* front wall

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CURTAINSIDER KITS

The HESTAL curtainsider kit is suitable for light to medium-weight vehicle classes.



CURTAINSIDER KITS

Based on the HESTAL *Base* aluminium substructure customised curtainsider kits with numerous options are offered for the different vehicle classes.

The kits are delivered pre-assembled in the transport base frame for quick and easy installation.

HESTAL *CompactKit* curtainsider kit for vehicles up to 7.5 t (permitted total weight)

- › Customisable dimensions up to 6,200mm x 2,480mm (inner length x inner width)
- › Customisable loading height up to 2,400mm
- › Front pillars made from anodised aluminium
- › Steel rear pillars with microZINQ® surface
- › HESTAL CS951 centre pillars in steel with KTL coating as standard; also with powder coating upon request
- › Superstructures with inner width less than 4,450mm enable the omission of centre pillar
- › HESTAL *Snap* aluminium front wall in raw, anodised, powder-primed or powder-coated
- › Optional light fixed or sliding roof
- › Standard superstructure certified according to DIN EN 12642 Code XL up to a maximum payload of 5t



For example: HESTAL *CompactKit* curtainsider superstructure with Hestal *Snap* rear dropside and roller tarpaulin, as well as lateral mounted slats

CURTAINSIDER KITS

HESTAL *MaxiKit* for curtainsider vehicles up to 18t (permitted total weight)

- › Customisable dimensions up to 7,200mm x 2,480mm (inner length x inner width)
- › Customisable loading height up to 2,850mm
- › Front and rear pillars made from steel with microZINQ® surface
- › HESTAL CS951 centre pillars in steel with KTL coating; also with powder coating upon request
- › Optional light fixed or sliding roof
- › Standard superstructure certified according to DIN EN 12642 Code XL up to a maximum payload of 10 t

Optionally, HESTAL curtainsider kits can be fitted with the following products:

- › HESTAL *Snap* aluminium dropsides at heights of 400, 500, 600, 800 and 1,000mm. Surface in raw, anodised, powder-primed or powder-coated
- › Various HESTAL fasteners, hinges and tarpaulin tensioners
- › HESTAL installed and mounted aluminium slats
- › HESTAL *SmartMaster* rear door made from aluminium profiles, sandwich or GFRP panels
- › HESTAL *VarioSave* and *CargoMaster* load securing aids and integrated lashing rails
- › Tailored roof and side tarpaulins with advertising print of your choice



For example: HESTAL MaxiKit curtainsider superstructure with Hestal Snap dropsides and SmartMaster rear door

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OVERVIEW



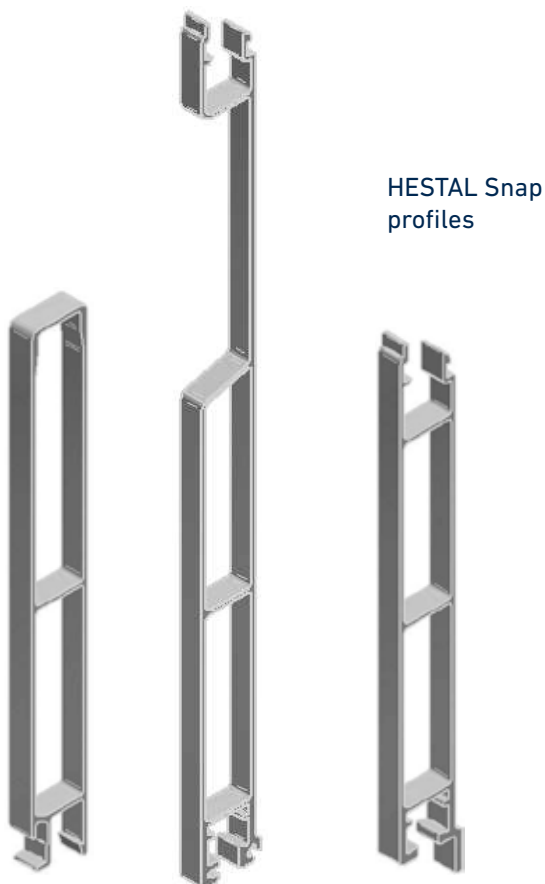
- **HESTAL Snap profiles**
- **HESTAL Snap accessories**

HESTAL Snap

For commercial vehicles up to 15t permitted total weight in combination with the aluminium flatbed superstructure.

Technology

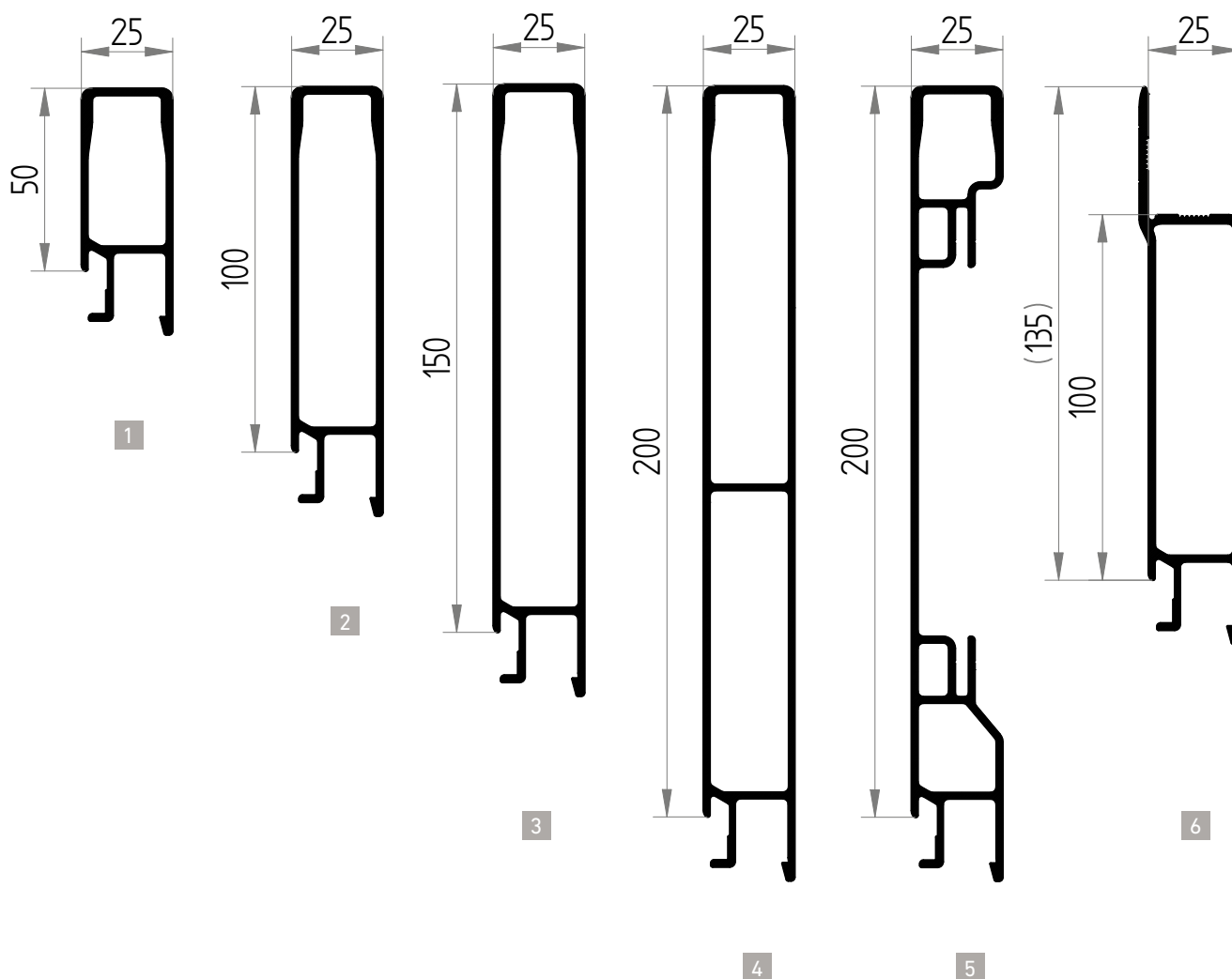
- › Product reliability
 - DEKRA certified up to a payload of 10.7t
Aluminium flatbed superstructure in combination with certified superstructure DIN EN 12642 Code XL appendix A
- › Product variety / high degree of flexibility
 - Dropside height (400, 500, 600, 800, 1000mm)
- › Pillar versions (801 and 802)
 - Fastening options (681S10, 710, 715, 720 ,810)
 - Hinge versions (654N, 655N, 657)
 - Hasp profile
 - Folding step
 - Surface finish in raw, anodised, powder-primed and powder-coated



HESTAL Snap accessories


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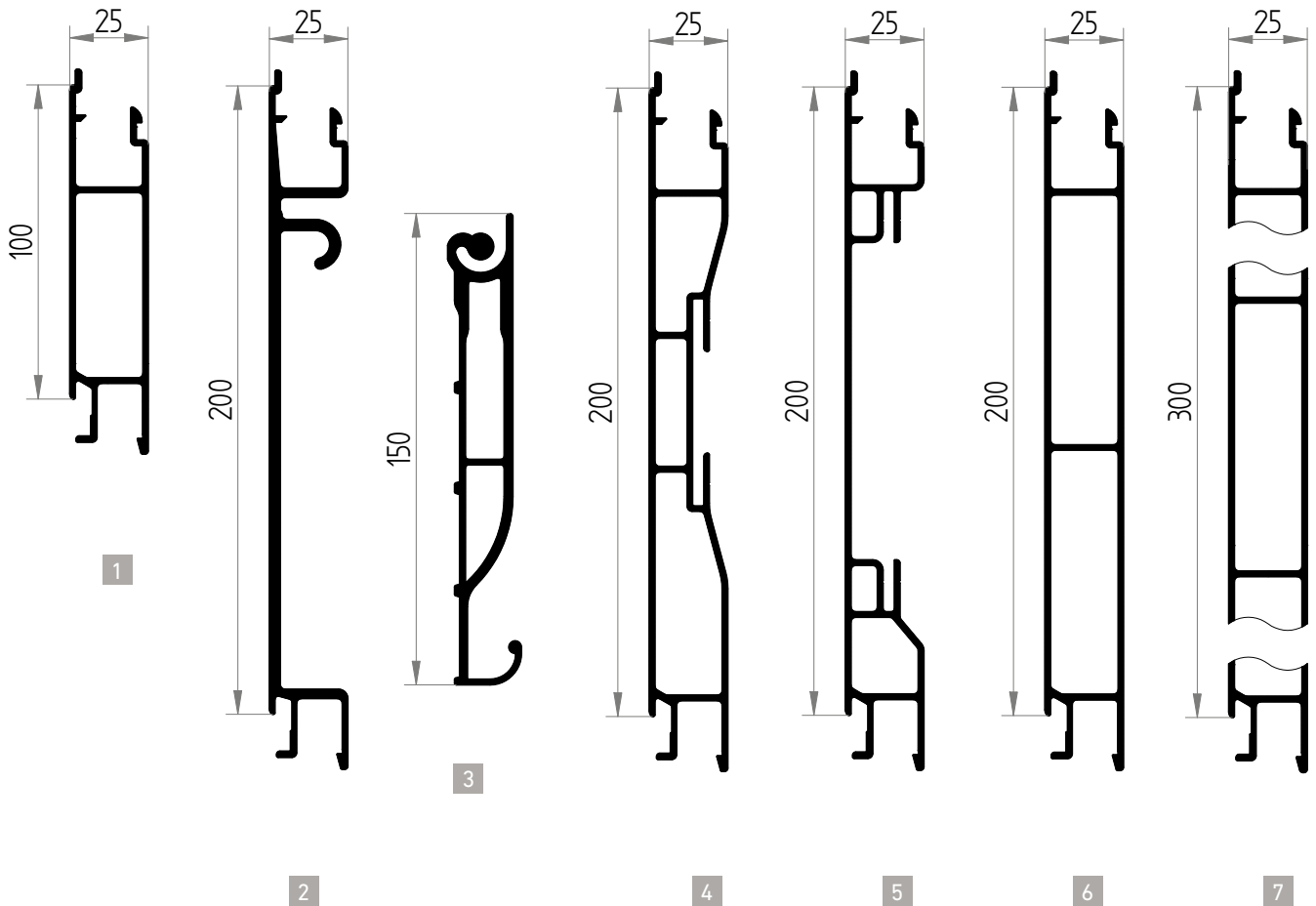
HESTAL Snap - UPPER END PROFILES



Pos.	Description	Weight [kg/m]	Article No.
1	Upper end profile, 50mm	1,05	6.600.001.13
2	Upper end profile, 100mm	1,58	6.600.001.14
3	Upper end profile, 150mm	2,05	6.600.001.15
4	Upper end profile, 200mm	2,65	6.600.001.16
5	Upper end profile, 200mm for lashing rail	2,52	6.600.001.40
6	Adapter profile for sandwich frontwall, 100mm	1,78	6.600.001.36

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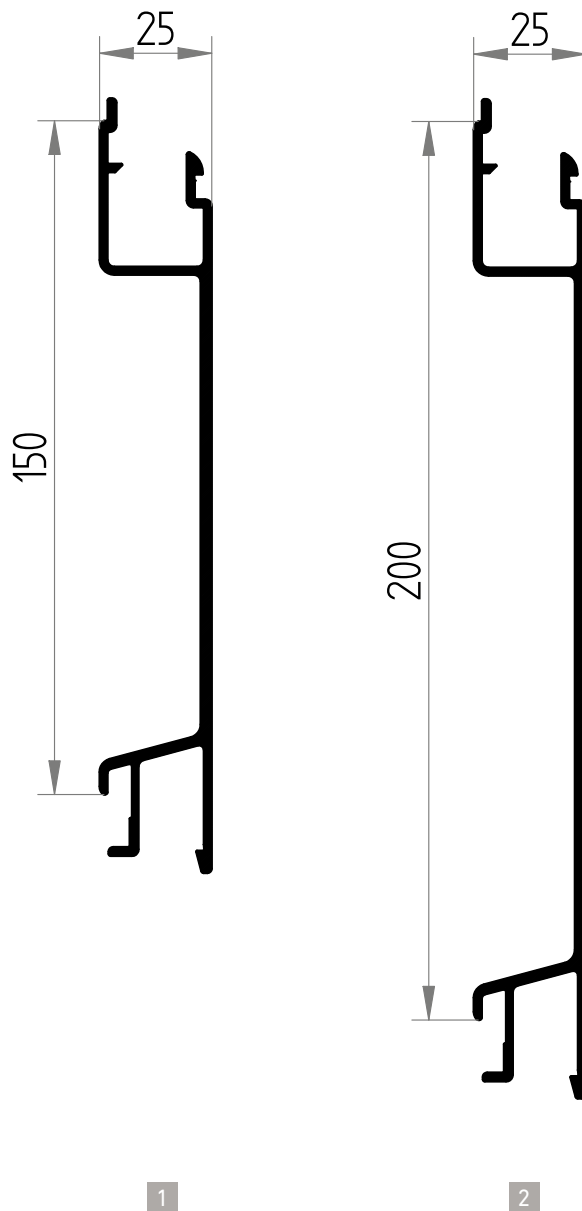
HESTAL Snap - MIDDLE PROFILES



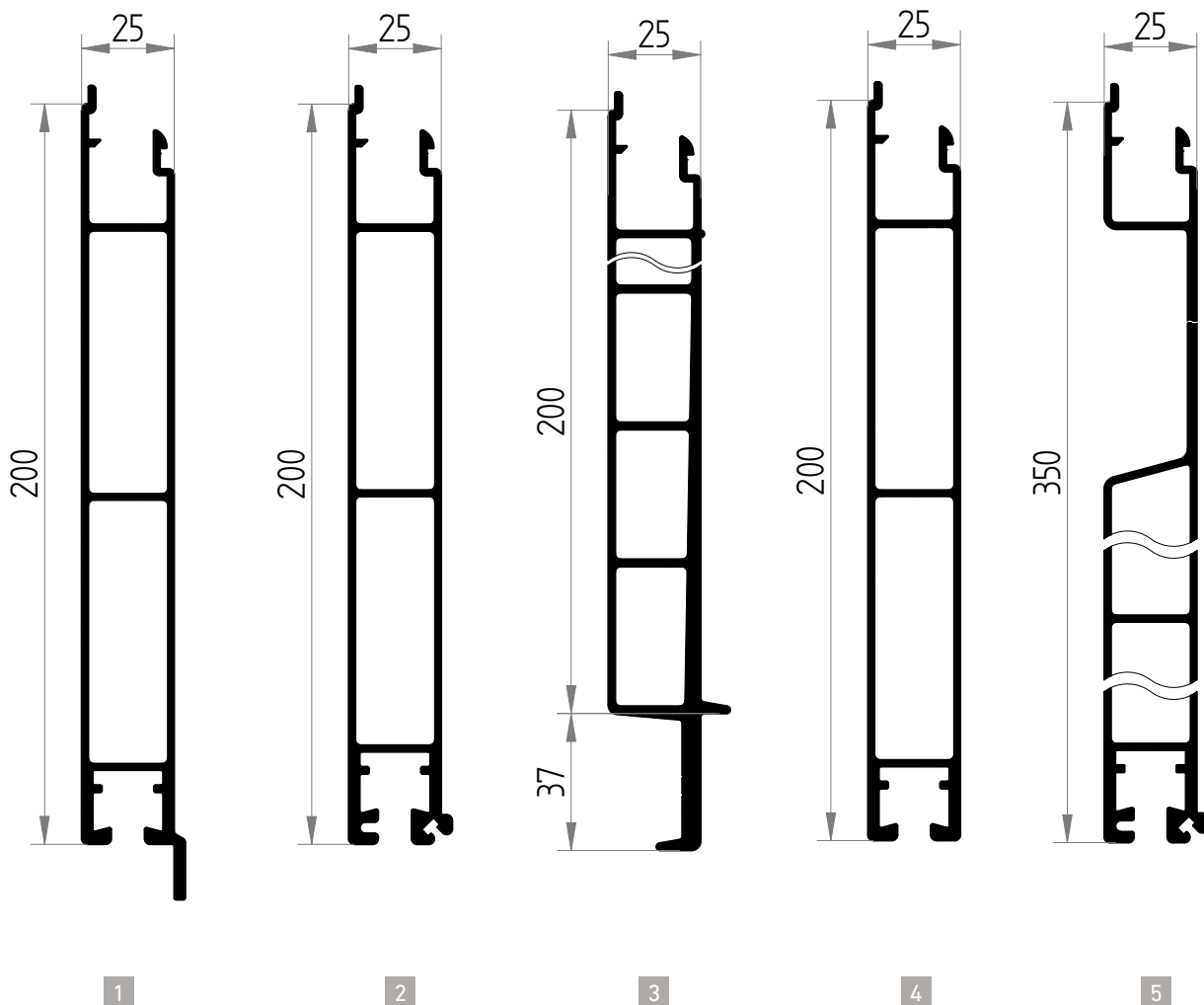
Pos.	Description	Weight [kg/m]	Article No.
1	Middle profile, 100mm	1,53	6.600.001.06
2	Middle profile, 200mm, support profile for folding step	3,00	6.600.001.11
3	Folding step	2,57	6.600.001.12
4	Middle profile, 200mm, for Airline flange rail	2,88	6.600.001.38
5	Middle profile, 200mm, for lashing rail	2,38	6.600.001.39
6	Middle profile, 200mm	2,63	6.600.001.08
7	Middle profile, 300mm	3,74	6.600.001.24

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HESTAL *Snap* - MIDDLE PROFILES FOR HASP PROFILES



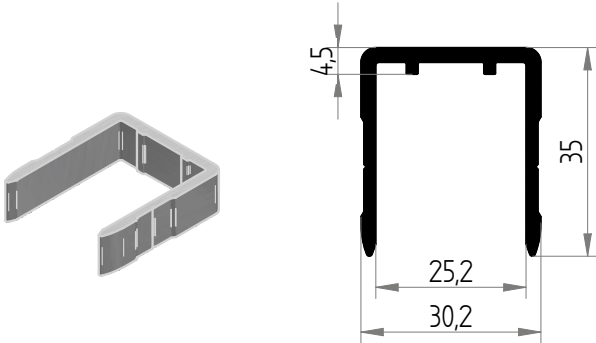
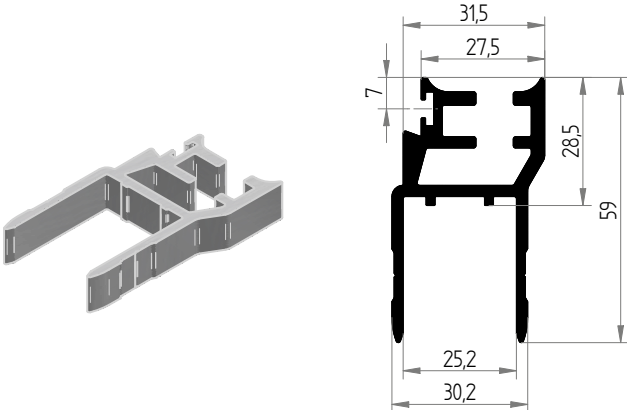
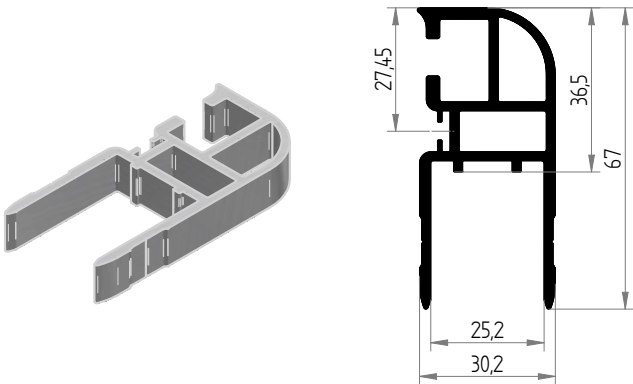
Pos.	Description	Weight [kg/m]	Article No.
1	Hasp profiles as middle profiles, 150mm	1,71	6.600.001.09
2	Hasp profiles as middle profiles, 200mm	2,07	6.600.001.10

HESTAL *Snap* - LOWER END PROFILES

Pos.	Description	Weight [kg/m]	Article No.
1	Lower end profile, 200mm, with rain lug	2,82	6.600.001.03
2	Lower end profile, 200mm, for sealing	2,79	6.600.001.05
3	Lower end profile, 200mm, for prefixed frontwall	3,98	6.600.001.35
4	Lower end profile, 200mm, bottom smooth	2,54	6.600.001.37
5	Lower end profile, 350mm, for hasp profile for sealing	4,06	6.600.001.27

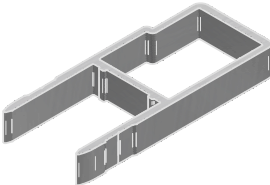
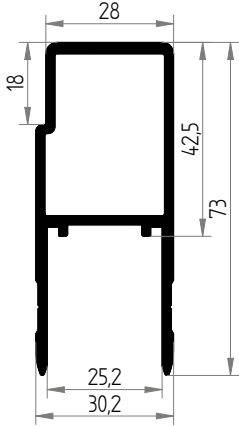
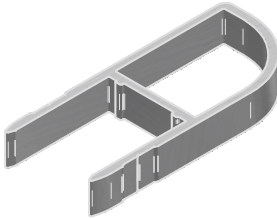
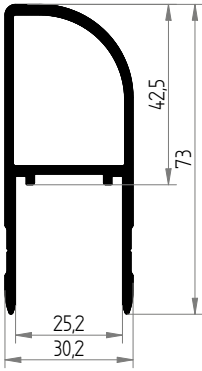
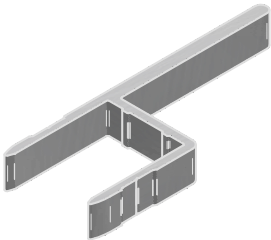
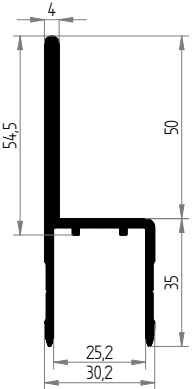
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HESTAL Snap - BEZEL PROFILES

Figure	Weight [kg/m]	Article No.
	0,59	6.600.001.17
	1,29	6.600.001.18
	1,34	6.600.001.19

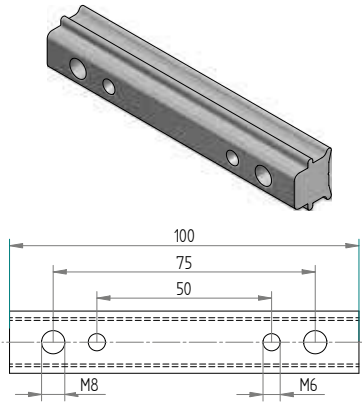
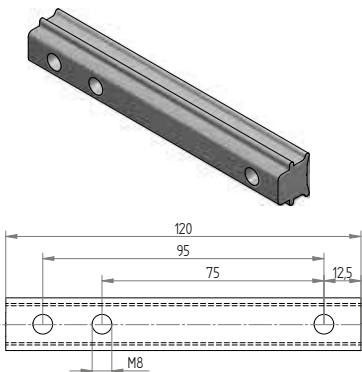


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HESTAL Snap - BEZEL PROFILES

Figure	Weight [kg/m]	Article No.
 	1,22	6.600.001.20
 	1,18	6.600.001.22
 	1,13	6.600.001.41

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HESTAL *Snap* - ACCESSORIES

Figure	Description	Weight	Article No.
	Sliding stone M6/M8 For the attachment of dropside hinges	0,05 kg/m	6.600.001.28
	Sliding stone M8 For the attachment of dropside hinges	0,06 kg	6.600.001.30
	Sealing profile For lower end profiles	0,06 kg	6.600.001.31
	Sealing profile For lateral bezels and bezel at the back 6.600.001.18 + 19	0,03 kg	6.600.001.45

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OVERVIEW



- **HESTAL SmartMaster I**
- **HESTAL SmartMaster II**
- **HESTAL SmartMaster II kit**

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HESTAL *SmartMaster*

The HESTAL *SmartMaster* products are rear portal doors which are mounted to the vehicle outer frame and are typically used for curtainsider and dry freight vehicles. The high-quality and certified HESTAL *SmartMaster* doors are available in two different versions, as *SmartMaster I* and *SmartMaster II*.

SmartMaster I includes all customised and assembled doors with the inlay variants aluminium (ALU), glass-fibre reinforced plastic sandwich material (GFRP) and steel-sandwich material (SDW). The *SmartMaster II* door consists of anodised HESTAL *Snap* aluminium profiles and can be supplied fully assembled or as a kit (in three variants).



Article overview

Type	Design	Width [in mm]	Height [in mm]	Weight [in kg for standard width 2,550 mm]	Hesterberg article number	BPW article number
SmartMaster I ALU, assembled	Aluminium frame with inlay made of aluminium	Min.: 1,500 Max.:2,550	Min.: 2,000 Max.:3,100	162 (height 2,900 mm)	9.160.000.00	92.0000.5879
SmartMaster I GFRP, assembled	Aluminium frame with inlay made of GFRP	Min.: 1,500 Max.:2,550	Min.: 2,000 Max.:3,100	115 (height 2,900 mm)	9.160.000.00	92.0000.5879
SmartMaster I SDW, assembled	Aluminium frame with inlay made of steel-sandwich material	Min.: 1,500 Max.:2,550	Min.: 2,000 Max.:3,100	158 (height 2,900 mm)	9.160.000.00	92.0000.5879
SmartMaster II assembled	Snaped and riveted aluminium profiles	2,550	Min.: 2,000 Max.:3,100	144 (height 2,900 mm)	9.160.000.02	92.0000.6506
SmartMaster II kit	Kit comprising aluminium profiles, fasteners and hinges	2,550	2,000-2,400	123 (height 2,400 mm)	6.500.107.00	92.0000.6445
			2,400-2,800	140 (height 2,800 mm)	6.500.108.00	92.0000.6320
			2,800-3,100	152 (height 3,200 mm)	6.500.109.00	92.0000.6446

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HESTAL *SmartMaster I*

The certified *SmartMaster I* rear portal door is produced to the height and width specified by the customer and is supplied fully assembled. The door inlays (in a choice of aluminium, GFRP- or steel- sandwich mate-

rial) are bonded to the surrounding aluminium profiles to create a high-strength unit. The standard version of the *SmartMaster I* door is equipped with internal, high quality espagnolette locks and robust double-jointed hinges from HESTAL.

Technology

- › Certified according to DIN EN 12642 up to a payload of 27 tonnes (GFRP is only tested up to 27 tonnes)
- › Width from 1,500 to 2,550 mm and height from 2,000 to 3,100 mm
- › Door thickness from 32 mm
- › Sturdy aluminium frame
- › Door inlays made of aluminium, GFRP- or steel-sandwich material
- › High-quality espagnolette locks HESTAL 709.18
- › Robust double-jointed hinges HESTAL 500 with an opening angle of up to 270°
- › Hinge bearings available as free-standing stainless steel bolts or as hinge bearings (in a bolting or welding version)



HESTAL *SmartMaster I*

Advantages

- › Robust and high-quality door with HESTAL components
- › Smooth surface design (no visible rivets and insensitive to dirt)
- › High degree of customisation possible by:
 - Variable door heights and widths
 - Aluminium frame in raw, primed, powder coated or anodised
 - Steel-sandwich panel coated in white or film-coated in all standard RAL colours
 - GFRP-sandwich inlay coated in white or film-coated in all current standard RAL colours
 - Aluminium inlay in raw, powder coated, anodised or film-coated
 - Coating with advertising foils on request
- › Easy handling due to low-wear plastic bearings
- › Suitable for all common corner pillars
- › Silicone seals for a long-lasting smooth operation
- › Customised door designs available on request

HESTAL *SmartMaster II*

The certified *SmartMaster II* rear portal door consists of anodised and snaped aluminium profiles, which are riveted on the inside. This not only results a very appealing design, but also the low weight of this door.

The standard version of the *SmartMaster II* door is equipped with internal, high-quality espagnolette locks and robust double-jointed hinges from HESTAL. The door can be supplied with a height from 2,000 mm up to 3,100 mm and a standard width of 2,550 mm.

Technology

- › Certified according to DIN EN 12642 up to a payload of 29 tonnes
- › Standard width 2,550 mm and standard height from: 2,000 mm up to 3,100 mm
- › Lightweight and stable design of anodised HESTAL *Snap* aluminium profiles
- › High-quality espagnolette locks HESTAL 709.18
- › Robust double-jointed hinges HESTAL 500 with an opening angle of up to 270°
- › Hinge bearings available as free-standing bolts or as hinge bearings (in a bolting or welding version)

Advantages

- › A very lightweight and high-quality door (snaped hollow-chamber profiles and HESTAL components)
- › Appealing design (anodised profiles with no visible rivets on the outside)
- › Coating with advertising foils on request
- › Easy to repair due to simple replacement of individual aluminium profiles
- › Easy handling due to low-wear plastic bearings
- › Suitable for all common corner pillars
- › Long service life due to silicone seals and anodised surfaces (corrosion protection)
- › Customised door designs available on request



HESTAL *SmartMaster II*

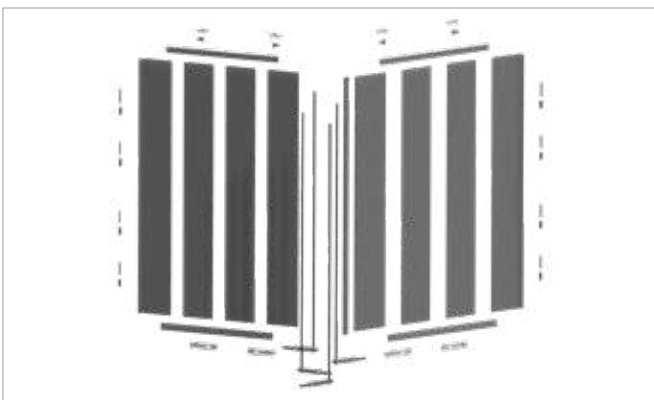
HESTAL *SmartMaster II* kit

The *SmartMaster II* door can also be supplied as a kit because the aluminium profiles can very easily be snapped and riveted together. Besides logistic advantages (compact packaging of the kit) this enables a last minute adjustment of the door height by shorte-

ning the aluminium profiles on site. The entire door can be very easily put together with standard tools because all other components are pre-assembled. Therefore, a *SmartMaster II* kit is ideally suitable as a replacement door on stock.

Technology

- › Certified according to DIN EN 12642 up to a payload of 29 tonnes
- › *SmartMaster II* kit (with a standard width of 2,550 mm)
 - in 2,400 mm height (shortenable to 2,000 mm with 3 hinges per door leaf)
 - in 2,800 mm height (shortenable to 2,400 mm with 4 hinges per door leaf)
 - in 3,100 mm height (shortenable to 2,800 mm with 4 hinges per door leaf)
- › Easy to assemble due to:
 - Easy to snap aluminium profiles
 - Quick riveting due to prepared rivet holes
 - Fast assembly due to prepared espagnolette locks and pre-assembled hinges



Components of a *SmartMaster II* kit



Compact packaging of a HESTAL *SmartMaster II* kit

Advantages

- › Combines the advantages of an assembled *SmartMaster II* door with the benefits of a kit:
 - Delivery from stock (high availability)
 - Individual adjustment of door height by shortening the aluminium profiles on site
 - Optimised logistics due to compact packaging
- › Quick and easy assembly
- › No special tools required

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