



Axzion

Engineering
Lifting Equipment
Technical Services

AXZION COIL HOOKS AND LOADING FORKS

AXZION - Intelligent Lifting Equipment

Exact planning guarantees perfect function

AXZION-GKS is a member of the SpanSet Group, the specialists for lifting and securing loads. As a manufacturer, we are able to find and implement the right solution. Certified welders, production support by experienced welding engineers, modern production machines. The right advice is always a question of your own possibilities. More than twenty experienced load-bearing designers with special knowledge in the areas of „statics“, „welding“ and „drive technology“ design the optimum solution for your needs.

AXZION-GKS offers everything from a single source

Development, production and service are closely interwoven and the design is optimally adapted to modern production possibilities. Our service provides immediate assistance when there are problems. Your employees can be trained personally in the use of the load-bearing equipment we supply.

We assume responsibility

As a manufacturer, we assume „responsibility for the design and manufacture of a product“. From the manufacturer's qualification for welding according to DIN EN ISO 3834-2 and the manufacturer certification according to DIN EN 1090-1 up to factory production control for load-bearing components up to EXC3 according to EN 1090-2 and a quality management system according to DIN EN ISO 9001: you are

buying from a company that operates in complete conformity to standards.

Even full assemblies can be completely delivered in a very short time including acceptance, e.g. by DEKRA or DNV GL and load testing on internal test benches (600 t and 1,800 t).

AXZION-GKS is approved for class EXC 3. Companies within the scope of class EXC 3 must have a qualified welding supervisor and certified welders with a valid welder test certificate according to DIN EN 287-1 resp. DIN EN ISO 9606-1, as well as welding procedures implemented with a valid qualification (WPQR).

We would like to give you more information
Request our company brochure at:
info@axzion.de



Details for the specialization of the LAM at a glance:

- ✓ Planned service life
- ✓ Number of load changes (> 20 thousand)
- ✓ Load change per lifting operation
- ✓ Additional components
- ✓ Operating temperature
- ✓ Lifting speed (> 10 m / min)
- ✓ Acceptance by test laboratory
- ✓ Other operating conditions

Unless stated otherwise, the load-bearing device is listed in the following range:

- ✓ Classified according to DIN EN 13155.
- ✓ Designed for a crane speed of „V crane max.“ 10 m / min.
- ✓ And designed for <20,000 load changes.

The correct configuration of your AXZION load-bearing equipment

How you get the best load-bearing equipment by specializing

The right design of your load-bearing equipment

Designing a load-bearing device

The number of load changes is crucial. The designer of a load-bearing device must, in cooperation with the user, determine whether DIN EN 13155 „Cranes - Safety - Loose load-bearing devices“ can be used or whether the design of the load-bearing devices must be done according to DIN EN 13001 „Cranes - Construction in General - Part 1: General principles and requirements“. A projection of the usage intensity is therefore required for a correct design of the load-bearing device. Factors for the design are the „Planned service life“, „lifting operations per day“ and the „load changes per lifting operation“. Not all load lifting devices are used together with a crane (see „Lifting speed“).

The right components

Steel, hydraulics, electric, etc. : A safe and good solution can only be manufactured with good components. We have only worked together with the best steel and construction steel suppliers for many years. This always includes the complete documentation of all components in the scope of delivery for load lifting devices. This is just as important as the delivered assembly itself. The manufacturer requires at least one inspection test certificate 3.1 - according to DIN EN 10204 - for all materials used. All material certificates and test reports as well as their cross-references are managed or archived by our IT department.

The operating conditions of your load-bearing device

Operating temperatures

The normal load-bearing device is used in a temperature range of -10° C to +60° C. When used outdoors, temperatures down to - 20 ° C can be reached. In some regions of the world, even down to - 40° C is possible. In this case, low-temperature steels are used.

When transporting hot loads, however, very high application temperatures are possible. Special steels have to be used here which are suitable for these conditions of use.

Lifting speed

A load lifting device must be designed for the lifting speeds that occur. Usually max. 10 m/min. In order to speed up the loading process, significantly higher speeds are possible, for example, in cargo shipment companies (ports, steelworks, etc.), which must be known during the design.

An important and widespread use is the use of the load lifting devices together with a **forklift truck**. Here, the dynamic loads of the load lifting devices are significantly higher. The lifting speed is usually much higher than with a normal crane.

Wind and waves occurring as dynamic forces can be enormous. The requirements for load-bearing equipment are particularly high when used on the high seas, i.e. offshore. Construction design and execution are strictly monitored.

Checking and documentation of your load-bearing equipment

Material and process tests mean additional safety. Our work is checked by our own or independent auditors using the latest test equipment. All certifications are available. During production, we do our own inspections (e.g. magnetic powder testing, dye penetration testing, ultrasonic testing, notch impact bending test). The required final tests are always carried out by a neutral test institute.

Load test

AXZION-GKS works closely and in partnership with major testing organisations such as TÜV, DEKRA, Lloyd's Register and DNV GL.

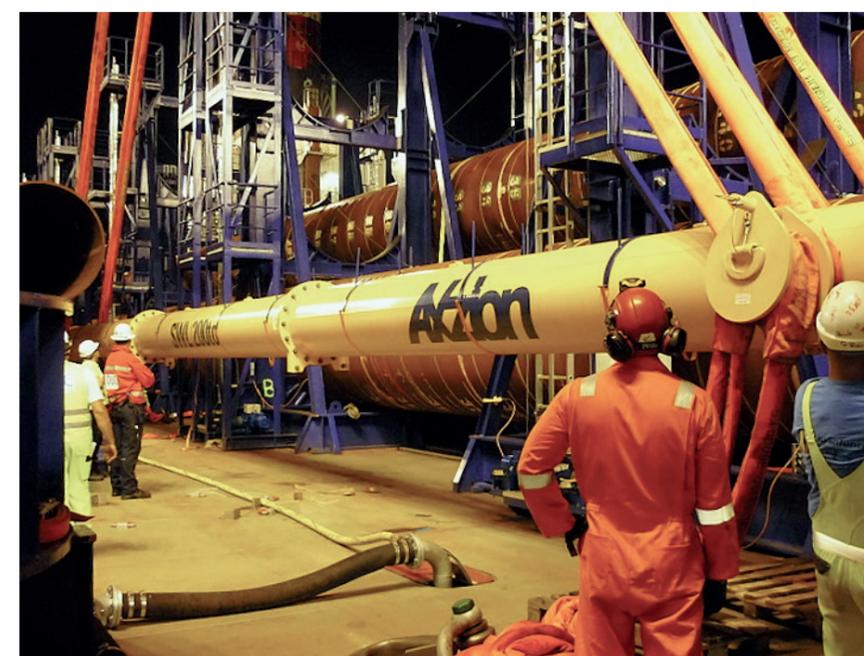
Testing is done on one of the two in-house test benches. The system, which has been located at Langenfeld for many years, has a tensile pulling force of 600 tonnes. At the Neustrelitz site, very large lifting structures can be tested with a tensile force of up to 1,800 tonnes. The load tests are done by manual operation or computer-controlled with analysis. In this way, load-bearing devices can be tested quietly under absolutely realistic operating conditions.

Documentation

The documentation is as important as the manufactured product. Complete documentation is always included in the scope of delivery of a load-bearing device. The information and the scope must correspond to the current state of the Lifting Equipment and must include the proof of the quality of the components and materials used and the tests carried out.

AXZION-DocuManager

Documents from various sources are combined, documented and archived with the in-house document management system. The partially automated document management includes a ticket system and a sharing interface, which organises the workflow between the customer and the manufacturer.



Proper checking of your load-bearing device

DGVU rules 100-500 (BGR500 chapter 2.8): Operating load-lifting devices in lifting operations

DGVU rules are aimed primarily at the employer and are intended to provide him with assistance with the implementation of his obligations under state employment protection regulations or accident prevention regulations as well as methods to prevent such things as accidents at work, occupational diseases and work-related diseases.

Periodic inspections of the delivered load-bearing devices allow safe working and extended use. Type, scope and deadlines are comprehensively regulated in the **DGVU rules 100-500 Chapter 2.8**:

Inspections

According to § 3 para. 3 of the Occupational Safety and Health Ordinance, the employer shall determine the nature, scope and deadlines of necessary inspections and tests of the work equipment used. These tests are intended to systematically identify and eliminate safety deficiencies. The employer also establishes the prerequisites that the persons appointed by him have to fulfil („Qualified Persons“). The nature, scope and deadlines of the examinations are the best practice and comply with the rules of technology.

Inspection before initial commissioning

The contractor shall ensure that load-bearing equipment is only put into operation when inspected by a qualified person and after any defects have been remedied. The qualified person is someone who, due to his professional training and experience, has sufficient knowledge in the field of load-bearing devices and has knowledge of the relevant state work protection regulations (e.g. union rules, DIN standards, VDI regulations, technical regulations of other member states of the European Union or of other states parties to the Agreement on the European Economic Area)

to the extent that he can assess the safe working condition of load-bearing devices.

The test must be organised by the operator prior to the first commissioning. A hazard assessment and operating instructions must be drawn up within the scope of this test.

Periodic inspections

The company shall ensure that load-bearing equipment is inspected at intervals of at least one year by a qualified person. Inspections at intervals shorter than a year may be required depending on the operating conditions of the load-bearing equipment. This applies, for example, in case of particularly frequent use, increased wear, corrosion, heat or if an increased susceptibility to failure is to be expected.

Scope of inspection

The inspection before the first commissioning and regular inspections mainly constitutes visual and functional tests. These tests shall extend to the examination of the condition of the components and devices, to the correct assembly, as well as to the completeness and effectiveness of the safety devices:

- breakages, deformations or cracks
 - damage, severe wear
 - corrosion damage
 - malfunction of safety devices
- Before the visual and functional test, the load-bearing device may require cleaning.

Proof of inspection and maintenance

The professional association may request proof of inspection for other inspections in some individual cases. For load-bearing devices, the proof should be combined with the test certificate of the hoist. The inspection certificates must be presented at the request of the supervisor. It is therefore necessary to store them within reach at all times. The corresponding regulations for inspection (also see DGVU rules 100-500) apply to the supplied or connected accessory parts such as hoisting means (lifting straps slings, chains, wire cables, etc.) and connecting devices (shackle, hooks, etc.)

The company shall ensure that repair work on load-bearing equipment is carried out only by persons who have the necessary knowledge and abilities.



Checklist for checking your load-bearing device:

01 Preparation

- ✓ Operating instructions available
- ✓ Documentation available
- ✓ „Qualified person“ has the corresponding knowledge
- ✓ LAM assembled type-approved
- ✓ LAM cleaned for testing

02 Performance of test

- ✓ No cracks, breaks or deformations
- ✓ No excessive wear
- ✓ No corrosion damage
- ✓ Safety device functional
- ✓ Movable components move freely

03 Regular measures

- ✓ Record the test in the test certificate
- ✓ Check for proper storage
- ✓ Record the next maintenance date
- ✓ Complete the maintenance contract

Important reminder for repairs to your load-bearing device (DGVU rules 100-500):

The contractor must ensure that repair work on load-bearing equipment is carried out only by persons who have the necessary knowledge and skills.

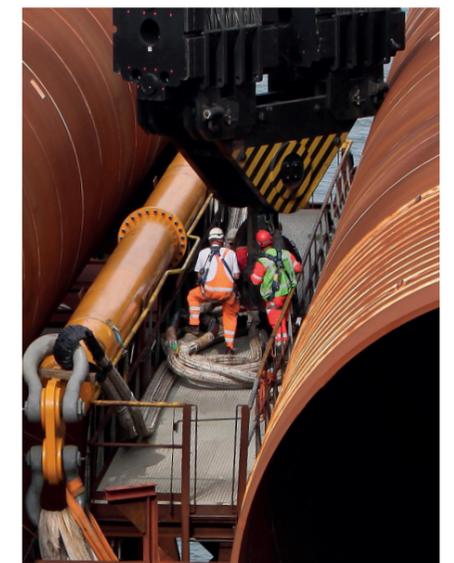
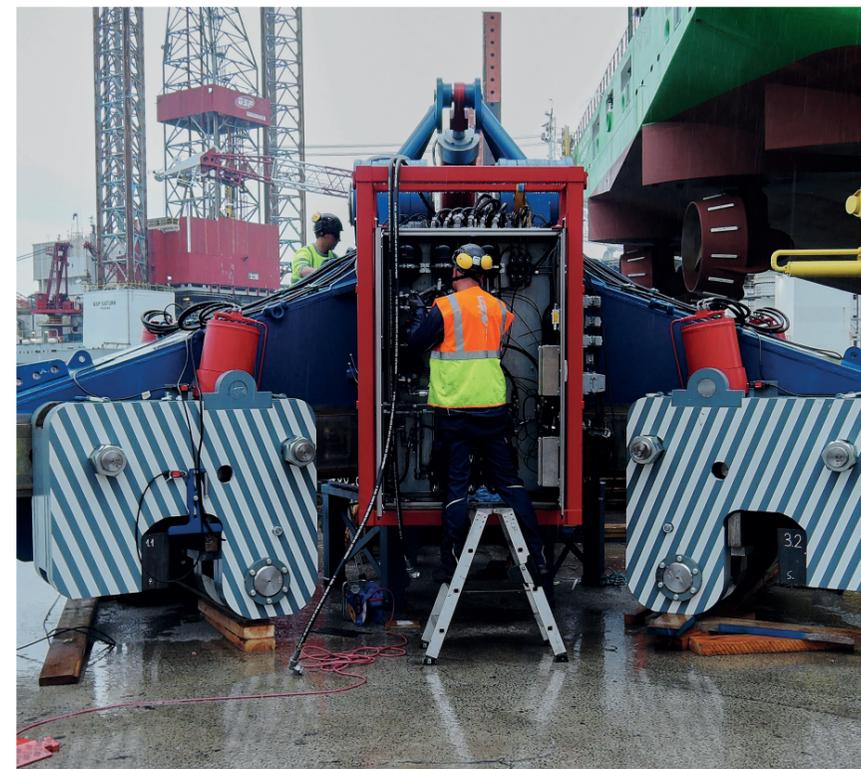


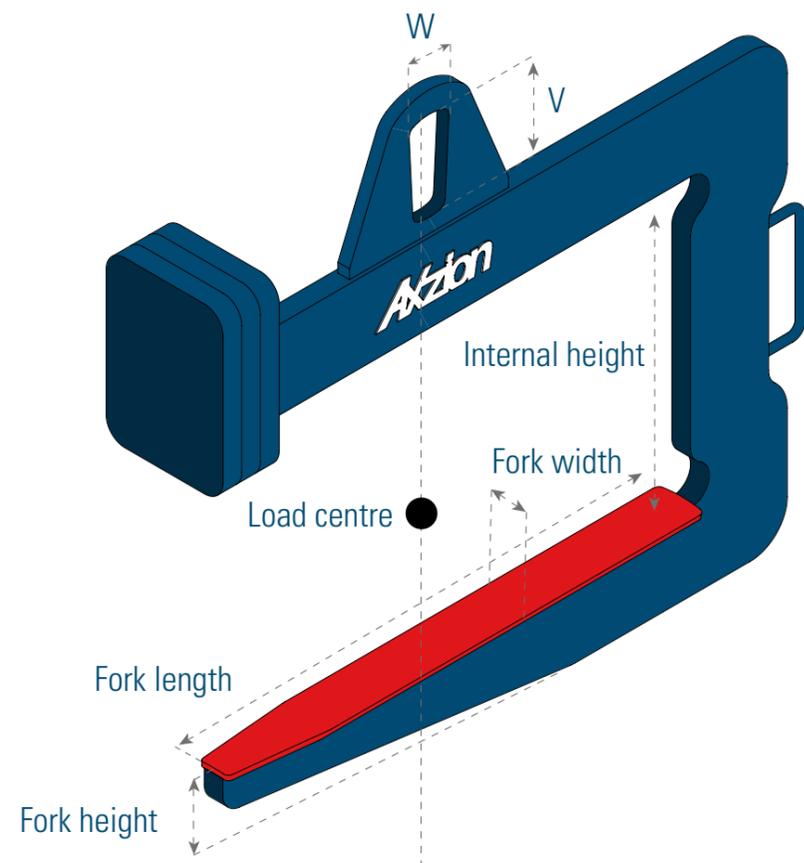
Information about an AXZION maintenance contract:

- ✓ Legally prescribed maintenance
- ✓ Reduced downtime
- ✓ Suitable spare parts
- ✓ Long service life of the AXZION LAM
- ✓ Proper rectification of defects
- ✓ Maximum operational reliability
- ✓ Reduced repair costs
- ✓ Emergency assistance (24/7)

AXZION LAM service

Our technical service team supports you and your load-bearing device on-site. Benefit from the competence of our employees. We will prepare an individually customised offer for these load-bearing devices. Once the contract has been agreed upon, we will set up the first maintenance appointment and for future maintenance intervals. Benefit from regular, professional inspection of your Lifting equipment.





Coil hooks

Proper pick-up and drop off

So-called C-hooks are suitable for lifting loads with openings, for example, coils or tubes.

Loads must be picked up and lowered in such a way as to prevent accidental overturning, spreading, sliding or unrolling of the load. Depending on the application, it includes a safety nose, protection basket, anti-slip fork coating. For narrow loads, e.g. slit belts, an additional securing (mechanical, magnetic, clamping) must be provided.

Within the intended load range and the centre of mass, the forks must always be tilted backwards in order to prevent the load from sliding off.

Please note:

- ✓ Transporting loads with a center of mass in front of the suspension (towards the tip of the tine) leads to a fork tilting downwards and is forbidden.
- ✓ Overloading the hook can lead to overloading and is not permitted.

AXZION COIL HOOKS

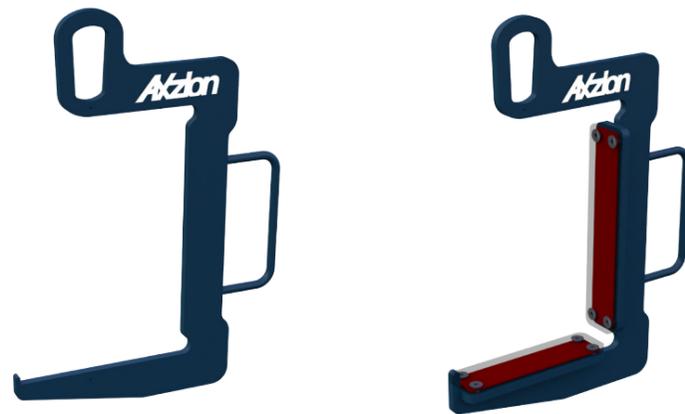
Optional

- With secutex impact protection on the inside of the back and / or the top of the forks

Further product information can be found at: www.axzion.de/coil-hooks

Further sizes available on request!

Coil hooks without counterweight



Coil hooks without counterweight

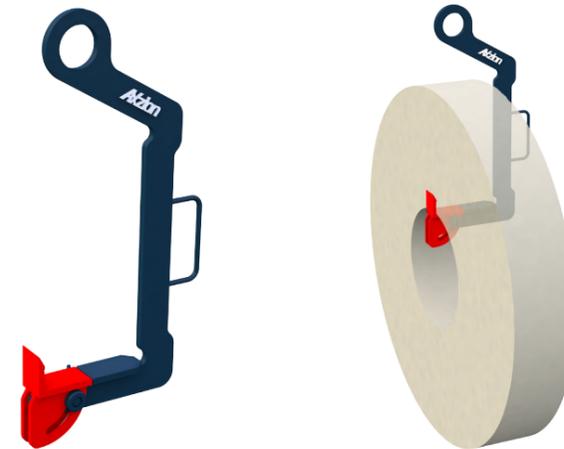
For the cost-effective handling of coils and slot belts

Robust construction made of high-quality steel, of course with a material test certificate. Under load, the load-bearing forks move approx. 3° upwards. Working with the coil hook without a counterweight is only possible with smaller coils, since the coil hook has to be introduced manually into the coil.

	Load capacity [kg]	Internal height [mm]	Fork length [mm]	Fork height [mm]	Fork width [mm]	Eye height V [mm]	Eye width W [mm]	Dead weight ca. [kg]
CHG005000100050-2	500	500	100	40	10	80	40	5
CHG005000150050-2	500	500	150	50	10	80	40	6
CHG005000200050-2	500	500	200	50	10	80	40	6
CHG005000300050-2	500	500	300	55	15	80	40	11
CHG005000100060-2	500	600	100	40	10	80	40	5
CHG005000150060-2	500	600	150	50	10	80	40	6
CHG005000200060-2	500	600	200	50	10	80	40	7
CHG005000300060-2	500	600	300	55	15	80	40	12
CHG010000100040-2	1000	400	100	50	10	100	50	5
CHG010000150040-2	1000	400	150	55	15	100	50	9
CHG010000200040-2	1000	400	200	65	15	100	50	11
CHG010000300040-2	1000	400	300	75	15	100	50	15
CHG010000400040-2	1000	400	400	80	20	100	50	22
CHG010000100050-2	1000	500	100	50	10	100	50	6
CHG010000150050-2	1000	500	150	55	15	100	50	10
CHG010000200050-2	1000	500	200	65	15	100	50	13
CHG010000300050-2	1000	500	300	75	15	100	50	16
CHG010000400050-2	1000	500	400	80	20	100	50	24
CHG010000100060-2	1000	600	100	50	10	100	50	7
CHG010000150060-2	1000	600	150	55	15	100	50	11
CHG010000200060-2	1000	600	200	65	15	100	50	14
CHG010000300060-2	1000	600	300	75	15	100	50	17
CHG010000400060-2	1000	600	400	80	20	100	50	26
CHG020000100040-2	2000	400	100	65	15	130	65	11
CHG020000200040-2	2000	400	200	80	20	130	65	19
CHG020000250040-2	2000	400	250	90	20	130	65	22
CHG020000300040-2	2000	400	300	90	20	130	65	24
CHG020000400040-2	2000	400	400	100	20	130	65	29
CHG020000100050-2	2000	500	100	65	15	130	65	13
CHG020000200050-2	2000	500	200	80	20	130	65	21
CHG020000250050-2	2000	500	250	90	20	130	65	24
CHG020000300050-2	2000	500	300	90	20	130	65	26
CHG020000400050-2	2000	500	400	100	20	130	65	31
CHG020000100060-2	2000	600	100	65	15	130	65	14
CHG020000200060-2	2000	600	200	80	20	130	65	22
CHG020000250060-2	2000	600	250	90	20	130	65	26
CHG020000300060-2	2000	600	300	90	20	130	65	28
CHG020000400060-2	2000	600	400	100	20	130	65	33

Coil tipping hooks

Axzion Simple tube hook and Heavy-load pipe hook



Coil tipping hooks

Better handling, low weight due to high-strength steel.

Suitable for erecting coils due to the tilt support with high nose. These must be placed on collars, and individual slot belt rings must be well bundled. Working with the coil tipping hook is only possible with smaller coils and requires an attentive operation. Narrow slot belts can only be tilted in one direction!

	Load capacity [kg]	Internal height [mm]	Coil Inside-Ø [mm]	Coil width [mm]	Tipping nose width Zb [mm]	Fork length [mm]	Eye height V [mm]	Dead weight [kg]
CKH0050002000400	500	400	300	100-200	60	200	75	9
CKH0100002000450	1000	450	300	100-200	60	200	75	11
CKH0100003000500	1000	500	400	200-300	60	300	75	14
CKH0250002000500	2500	500	300	100-200	80	200	90	18
CKH0250003000500	2500	500	400	200-300	80	300	90	26
CKH0300003000550	3000	500	400	200-300	80	300	90	26



Simple tube hook

Flame cut hook, crane-side with shackle, inclination angle 15-30°

Heavy-load pipe hook

Low weight due to high-strength steel. Crane-side with shackle, inclination angle 15-30°, Load-side support surface with adapted radius.

Designation	Load capacity [kg]
ROH 0050 0000 1	Simple tube hook 1000
ROH 0100 0000 1	Simple tube hook 2000
ROH 0150 0000 1	Simple tube hook 3000
ROH 0250 0000 1	Simple tube hook 5000
ROH 0300 0000 0	Heavy-load pipe hook 6000
ROH 0425 0000 0	Heavy-load pipe hook 8000
ROH 0600 0000 0	Heavy-load pipe hook 12000
ROH 0800 0000 0	Heavy-load pipe hook 16000

AXZION COIL HOOKS

Optional

- secutex turning mat 10x200x300 mm (DxLxW)

Further product information can be found at: www.axzion.de/coil-hooks

Further sizes available on request!

Optional

- Contact surface with replaceable secutex- buffer pad for the protection of high-quality pipe ends

Further product information can be found at: www.axzion.de/hooks

Further sizes available on request!

AXZION COIL HOOKS

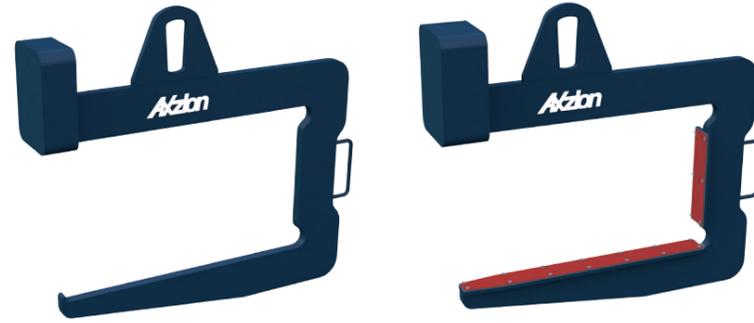
Optional

- With secutex impact protection on the inside of the back and / or the top of the forks

Further product information can be found at: www.axzion.de/coil-hooks

Further sizes available on request!

Coil hook with counterweight



Coil hook with counterweight

For the cost-effective handling of coils and slot belts.

Robust construction made of high-quality steel, of course with material test certificate. Under load, the load-bearing forks move approx. 3° upwards. Due to the counterweight, the hook also hangs horizontally without load.

	Load capacity [kg]	Internal height [mm]	Fork length [mm]	Fork height [mm]	Fork width [mm]	Eye height V [mm]	Eye width W [mm]	Dead weight ca. [kg]
CHG050000400060-0	5000	600	400	110	25	190	85	98
CHG050000400070-0	5000	700	400	110	25	190	85	110
CHG050000400080-0	5000	800	400	110	25	190	85	123
CHG050000400100-0	5000	1000	400	110	25	190	85	154
CHG050000500060-0	5000	600	500	125	25	190	85	107
CHG050000500070-0	5000	700	500	125	25	190	85	118
CHG050000500080-0	5000	800	500	125	25	190	85	131
CHG050000500100-0	5000	1000	500	125	25	190	85	157
CHG050000600060-0	5000	600	600	130	30	190	85	126
CHG050000600070-0	5000	700	600	130	30	190	85	138
CHG050000600080-0	5000	800	600	130	30	190	85	151
CHG050000600100-0	5000	1000	600	130	30	190	85	178
CHG100000500080-0	10000	800	500	140	40	270	120	271
CHG100000500100-0	10000	1000	500	140	40	270	120	328
CHG100000600070-0	10000	700	600	155	40	270	120	263
CHG100000600080-0	10000	800	600	155	40	270	120	286
CHG100000600100-0	10000	1000	600	155	40	270	120	338
CHG100000700070-0	10000	700	700	170	40	270	120	285
CHG100000700080-0	10000	800	700	170	40	270	120	308
CHG100000700100-0	10000	1000	700	170	40	270	120	357
CHG100000800070-0	10000	700	800	185	40	270	120	311
CHG100000800080-0	10000	800	800	185	40	270	120	334
CHG100000800100-0	10000	1000	800	185	40	270	120	382
CHG100001000070-0	10000	700	1000	185	50	270	120	399
CHG100001000080-0	10000	800	1000	185	50	270	120	424
CHG100001000100-0	10000	1000	1000	185	50	270	120	477
CHG160000600100-0	16000	1000	600	195	40	360	160	505
CHG160000700100-0	16000	1000	700	190	50	360	160	566
CHG160000800080-0	16000	800	800	205	50	360	160	523
CHG160000800100-0	16000	1000	800	205	50	360	160	597
CHG160001000070-0	16000	700	1000	235	50	360	160	571
CHG160001000080-0	16000	800	1000	235	50	360	160	606
CHG160001000100-0	16000	1000	1000	235	50	360	160	679
CHG160001200070-0	16000	700	1200	240	60	360	160	705
CHG160001200080-0	16000	800	1200	240	60	360	160	744
CHG160001200100-0	16000	1000	1200	240	60	360	160	824
CHG200000800100-0	20000	1000	800	230	50	360	160	716
CHG200001000080-0	20000	800	1000	240	60	360	160	763
CHG200001000100-0	20000	1000	1000	240	60	360	160	855
CHG200001200070-0	20000	700	1200	265	60	360	160	835
CHG200001200080-0	20000	800	1200	265	60	360	160	880
CHG200001200100-0	20000	1000	1200	265	60	360	160	973
CHG200001500070-0	20000	700	1500	280	70	360	160	1084
CHG200001500080-0	20000	800	1500	280	70	360	160	1135
CHG200001500100-0	20000	1000	1500	280	70	360	160	1238

Coil hook with counterweight, heavy load, 200,000 load changes



Coil hook with counterweight, heavy load, 200,000 load changes

For intensive use, design according to DIN EN 13001 and Eurocode EN 1993.

Robust construction made of high-quality steel, of course with material test certificate. With additional reinforcement plate in the back area. Under load, the load-bearing forks move approx. 3° upwards. Due to the counterweight, the hook also hangs horizontally without load.

	Load capacity [kg]	Internal height [mm]	Fork length [mm]	Fork height [mm]	Fork width [mm]	Eye height V [mm]	Eye width W [mm]	Dead weight ca. [kg]
CHG050000400060-1	5000	600	400	110	25	190	85	120
CHG050000400070-1	5000	700	400	110	25	190	85	135
CHG050000400080-1	5000	800	400	110	25	190	85	150
CHG050000400100-1	5000	1000	400	110	25	190	85	190
CHG050000500060-1	5000	600	500	125	25	190	85	130
CHG050000500070-1	5000	700	500	125	25	190	85	145
CHG050000500080-1	5000	800	500	125	25	190	85	160
CHG050000500100-1	5000	1000	500	125	25	190	85	190
CHG050000600060-1	5000	600	600	130	30	190	85	155
CHG050000600070-1	5000	700	600	130	30	190	85	170
CHG050000600080-1	5000	800	600	130	30	190	85	185
CHG050000600100-1	5000	1000	600	130	30	190	85	215
CHG100000500080-1	10000	800	500	140	40	270	120	330
CHG100000500100-1	10000	1000	500	140	40	270	120	395
CHG100000600070-1	10000	700	600	155	40	270	120	320
CHG100000600080-1	10000	800	600	155	40	270	120	345
CHG100000600100-1	10000	1000	600	155	40	270	120	410
CHG100000700070-1	10000	700	700	170	40	270	120	345
CHG100000700080-1	10000	800	700	170	40	270	120	370
CHG100000700100-1	10000	1000	700	170	40	270	120	430
CHG100000800070-1	10000	700	800	185	40	270	120	375
CHG100000800080-1	10000	800	800	185	40	270	120	405
CHG100000800100-1	10000	1000	800	185	40	270	120	460
CHG100001000070-1	10000	700	1000	185	50	270	120	480
CHG100001000080-1	10000	800	1000	185	50	270	120	510
CHG100001000100-1	10000	1000	1000	185	50	270	120	575
CHG160000600100-1	16000	1000	600	195	40	360	160	610
CHG160000700100-1	16000	1000	700	190	50	360	160	680
CHG160000800080-1	16000	800	800	205	50	360	160	630
CHG160000800100-1	16000	1000	800	205	50	360	160	720
CHG160001000070-1	16000	700	1000	235	50	360	160	685
CHG160001000080-1	16000	800	1000	235	50	360	160	730
CHG160001000100-1	16000	1000	1000	235	50	360	160	815
CHG160001200070-1	16000	700	1200	240	60	360	160	850
CHG160001200080-1	16000	800	1200	240	60	360	160	895
CHG160001200100-1	16000	1000	1200	240	60	360	160	990
CHG200000800100-1	20000	1000	800	230	50	360	160	860
CHG200001000080-1	20000	800	1000	240	60	360	160	920
CHG200001000100-1	20000	1000	1000	240	60	360	160	1030
CHG200001200070-1	20000	700	1200	265	60	360	160	1005
CHG200001200080-1	20000	800	1200	265	60	360	160	1060
CHG200001200100-1	20000	1000	1200	265	60	360	160	1170
CHG200001500070-1	20000	700	1500	280	70	360	160	1305
CHG200001500080-1	20000	800	1500	280	70	360	160	1365
CHG200001500100-1	20000	1000	1500	280	70	360	160	1490

AXZION COIL HOOKS

Optional

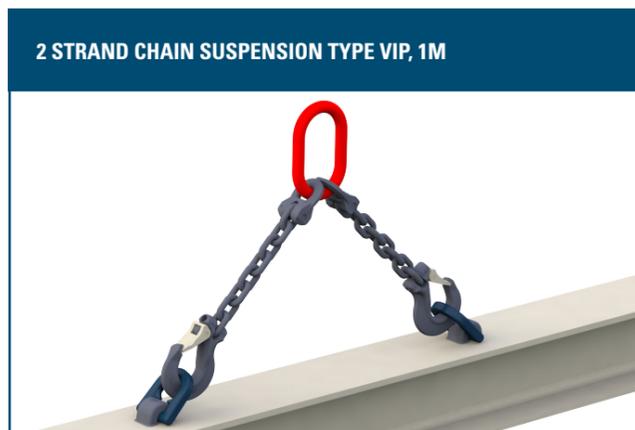
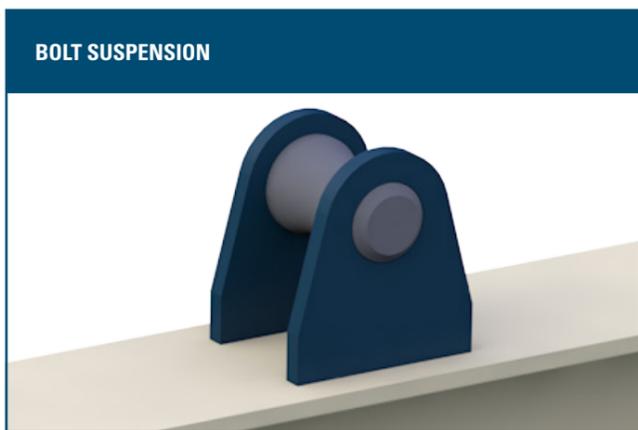
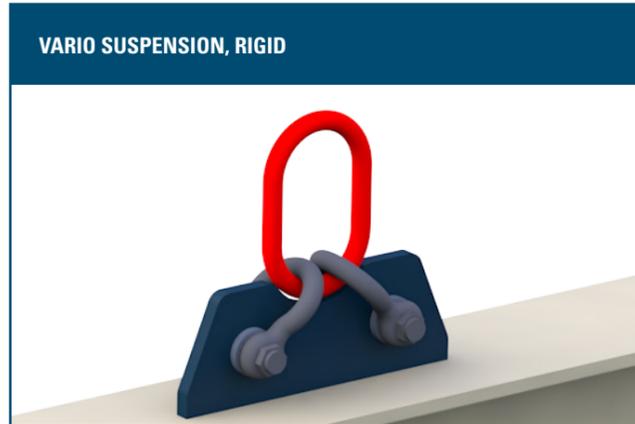
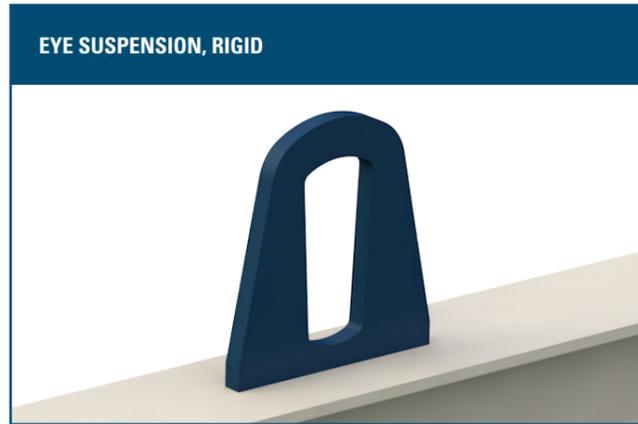
- With secutex impact protection on the inside of the back and / or the top of the forks

Further product information can be found at: www.axzion.de/coil-hooks

Further sizes available on request!

AXZION COIL HOOKS

Determine your design
Suspension, design of the hook, optional



Optional

SLIT SPLIT SECURED BY PIN

holding force / recommended holding force = coil weight: 2	
125 kg	
250 kg	
500 kg	
1000 kg	
1500 kg	
2000 kg	



Prices and Productinformation available on request!

Vario coil hooks



Vario coil hooks

In the steel processing industry, C-hooks are used for the cost-effective handling of coils. These load-bearing devices are precisely suited for one coil width, and different hooks must be used for different sizes. If the load centre is not exactly under the crane hook, the hook is suspended under load and the coil can slip. Axzion-GKS, the specialist for load-bearing devices in the SpanSet Group, has developed the Vario-Coil hook for changing coil widths.

	Load capacity [kg]	Internal height [mm]	Fork length [mm]	Fork height [mm]	Fork width [mm]	Eye height V [mm]	Eye width W [mm]	Coil width [mm]
VCH0500010000600	5000	600	1000	145	40	160	95	340
VCH0500012500600	5000	600	1250	170	40	160	95	420
VCH0500015000600	5000	600	1500	185	40	160	95	500
VCH0800010000700	8000	700	1000	185	40	190	110	340
VCH0800012500700	8000	700	1250	190	50	190	110	420
VCH0800015000700	8000	700	1500	210	50	190	110	500
VCH1000010000800	10000	800	1000	185	50	190	110	340
VCH1000012500800	10000	800	1250	210	50	190	110	420
VCH1000015000800	10000	800	1500	235	50	190	110	500
VCH1600010000900	16000	900	1000	235	50	240	140	340
VCH1600012500900	16000	900	1250	245	60	240	140	420
VCH1600015000900	16000	900	1500	270	60	240	140	500
VCH2000010001000	20000	1000	1000	240	60	240	140	340
VCH2000012501000	20000	1000	1250	275	60	250	150	420
VCH2000015001000	20000	1000	1500	280	70	250	150	500
VCH2000020001000	20000	1000	2000	335	70	250	150	670
VCH2500010001200	25000	1200	1000	265	60	250	150	340
VCH2500012501200	25000	1200	1250	280	70	250	150	420
VCH2500015001200	25000	1200	1500	315	70	250	150	500
VCH2500020001200	25000	1200	2000	350	80	250	150	670
VCH3000015001200	30000	1200	1500	345	70	250	150	500
VCH3000017501200	30000	1200	1750	355	80	250	150	590
VCH3000020001200	30000	1200	2000	345	100	250	150	670

Further sizes available on request!

AXZION COIL HOOKS

Optional

- The protection of high-quality coils due to the application of secutex impact protection is available for all coil sizes.
- Storage rack



Further product information can be found at:
www.axzion.de/coil-hooks

AXZION COIL HOOKS

Optional

- Lashing-points

Storage rack for coil hooks

Storage rack for coil hooks

BGR 500: Connecting and load-bearing devices must be set down or placed so that they can not tip over, fall or slide off. Take precautions and order the proper rack for your coil hook. Solid profile steel construction with mounting points for floor mounting.



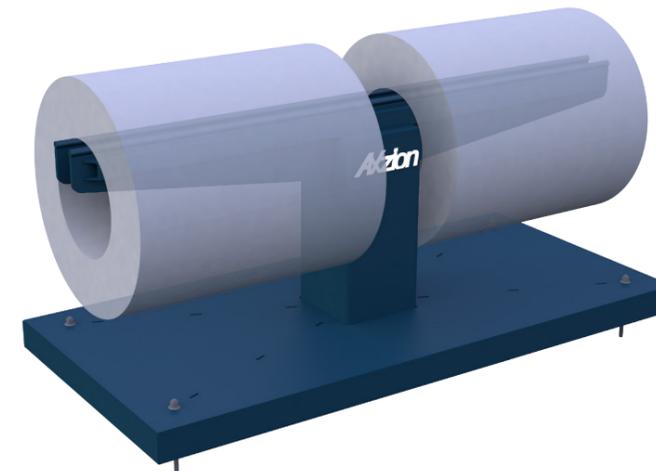
Versions of the coil rack for coil hook

small	Hook weight max. 200 kg
medium	Hook weight max. 1000 kg
large	Hook weight max. 2500 kg

Further Prices and Productinformation available on request!

Further product information
can be found at:
www.axzion.de/coil-rack

AXZION storage rack for slit strips



AXZION storage rack for slit strips

Often, slit strips must be separated from their loading unit before processing. For this purpose, they are usually placed horizontally in order to remove them individually. The slit strips packages used with a separate tilting chair are transported with a large coil hook to the storage rack and separated there. Filling is possible from both sides. While coils are removed for production on one side, the trays are refilled on the other side.

	Load capacity [kg]	Internal height [mm]	Fork length [mm]	Fork height [mm]	Fork width [mm]	Eye height V [mm]	Eye width W [mm]	Dead weight ca. [kg]
CHG0500005000801	5000	800	500	125	25	190	85	160
CHG0500008000801	5000	800	800	150	30	190	85	220
CHG1000008001001	10000	1000	800	185	40	270	120	460
CHG1000012001001	10000	1000	1200	205	50	270	120	665
CHG2000012001201	20000	1200	1200	265	60	360	160	1285



AXZION COIL HOOKS

Information

- Tilt-proof mounting
- Easily loadable with crane and hook
- Floor mounting
- Robust design

Optional

- With secutex impact protection coating for sensitive coils
- Special sizes

Further product information
can be found at:
www.axzion.de/storage-rack

Further sizes available on request!





Secutex coil trays

For gentle coil handling and safe storage

A significant part of the total cost of a product is the damage caused by the absence of impact protection.

The main causes are carelessness, negligence and improper handling. These are preventable damages to goods and inventory. Secutex-Coilprotect is the optimal solution for the safe handling, rational transport and gentle storage of coils and wire coils.

At the processing plants, the coils have to be provided for processing in the standing position. Due to falling coils, serious accidents occur again and again.

The protection of the sheet metal coils produced or processed for further processing is becoming more and more important. Incorrect handling and incorrect positioning are the most frequent cause

of pressure points on sensitive thin-sheet coils. These, in turn, can lead to considerable problems during the subsequent shaping.

„Well-known car manufacturers have established that the pressure points are detectable up to the sixth layer. This leads to significant problems and additional costs in running shaping processes“. Secutex, a polyurethane elastomer with outstanding physical and chemical properties, can be produced in almost any form:

High structural strength

secutex is extremely tear-resistant compared to other chemical materials. The polyurethane can be stretched to 500% of its original length without tearing.

Special elasticity

secutex offers considerably higher elasticity compared to conventional rubber, even in the event of extreme temperature fluctuations.

Extreme wear and abrasion resistance

secutex is hard to beat. In the wet wear strength test, secutex was better than many metals.

SECUTEX COILPROTECTION

Advantages

- Easily positioned by hand
- almost indestructible as made of solid secutex
- Oil and lubricant resistant

Optional

- Carrying handle and oil drainage channel
- Profile made of the heat resistant „secutex heat“ (up to 150 ° C)
- Mounting holes
- Tapered ends for loading with a forklift

Further product information can be found at:
www.secutex.de/product/secutex-coilmat

Further sizes available on request!

Advantages

- Employee protection
- Extremely robust, long life
- Protection of the high-quality surfaces: secutex impact protection
- resistant to oil and grease, non-recyclable
- Absolutely stable
- Absolutely roll-safe

Optional

- Impact protection overlay made of heat-resi stant impact protection „secutex Heat“
- Coated support rods
- Transport trolleys for set up rods
- End block for oblique and vertical storage

Further product information can be found at:
www.secutex.de/product/coilprotect-premium

Further sizes available on request!

secutex Coilmat
 secutex Coilprotect Premium



Secutex Coilmat, flexible mats made of secutex impact protection

The lightweight and flexible coil mat has been designed for the storage of coils. It is practical to handle. In this way, temporary storage can be created quickly and flexibly, or existing storage can be expanded in the event of bottlenecks.

Height [mm]	Width [mm]	Length [mm]	Coil-ø [mm]
30	400	3.000	800-1.400
43	400	3.000	1.000-1.600
54	400	3.000	1.200-1.800
65	500	3.000	1.200-2.100



secutex-Coilprotect Premium, Coilprotect with additional set-up series

The Coilprotect Premium is a further development to the existing Coilprotect Semi. The second set-up row permits an even narrower grid, especially for narrow slit strips. The coil tray can be equipped with coil hooks and coil tongs. Due to the greater width of the coil tray, the customer has to check into loading by means of a forklift truck. Secutex Coilprotect are made of robust steel and designed for the permanent storage of coils. Secutex-Coilprotect can be loaded with coil hooks, coil tongs or, after testing, with a forklift.

	Height [mm]	Width [mm]	Length [mm]	Coil-ø [mm]
Coilprotect Premium 1000	80	833	1.000	800 - 2.000
Coilprotect Premium 1500	80	833	1.500	800 - 2.000
Coilprotect Premium 2000	80	833	2.000	800 - 2.000
Coilprotect Premium 2500	80	833	2.500	800 - 2.000
Coilprotect Premium 3000	80	833	3.000	800 - 2.000
Coilprotect Premium special length	80	833	*	800 - 2.000

* on demand

Coilprotect „Altus“, Coil storage in a tall design
 Coilprotect „Semi“, low profile coil storage



Coilprotect „Altus“, Coil storage in a tall design

secutex coil tray in a high design for the permanent storage of coils in all coil sizes. This coil storage can only be loaded with coil hooks and coil tongs.

Height [mm]	Width [mm]	Length [mm]	Coil-ø [mm]
210	1225	1000	1200-2400
210	1225	1500	1200-2400
210	1225	2000	1200-2400
210	1225	2500	1200-2400
210	1225	3000	1200-2400



Coilprotect „Semi“, low profile coil storage

secutex coil tray in the low profile design for the permanent storage of coils in all coil sizes. The coil tray can be loaded with coil hooks / coil tongs as well as with a forklift truck.

Height [mm]	Width [mm]	Length [mm]	Coil-ø [mm]
80	675	1000	800-2000
80	675	1500	800-2000
80	675	2000	800-2000
80	675	2500	800-2000
80	675	3000	800-2000

SECUTEX COILPROTECTION

Advantages

- Especially robust design
- Suitable for long-term storage
- Protection of high-quality coils by secutex impact protection pads
- Oil drainage trough and mounting holes
- Absolute stability
- Absolute anti-roll protection

Optional

- Impact protection overlay made of heat-resistant impact protection „secutex Heat“
- Support rods, coated
- Transport trolley for support rods
- End stand for inclined and vertical storage

Further product information can be found at:
www.secutex.de/product/coilprotect-altus

Further sizes available on request!

Advantages

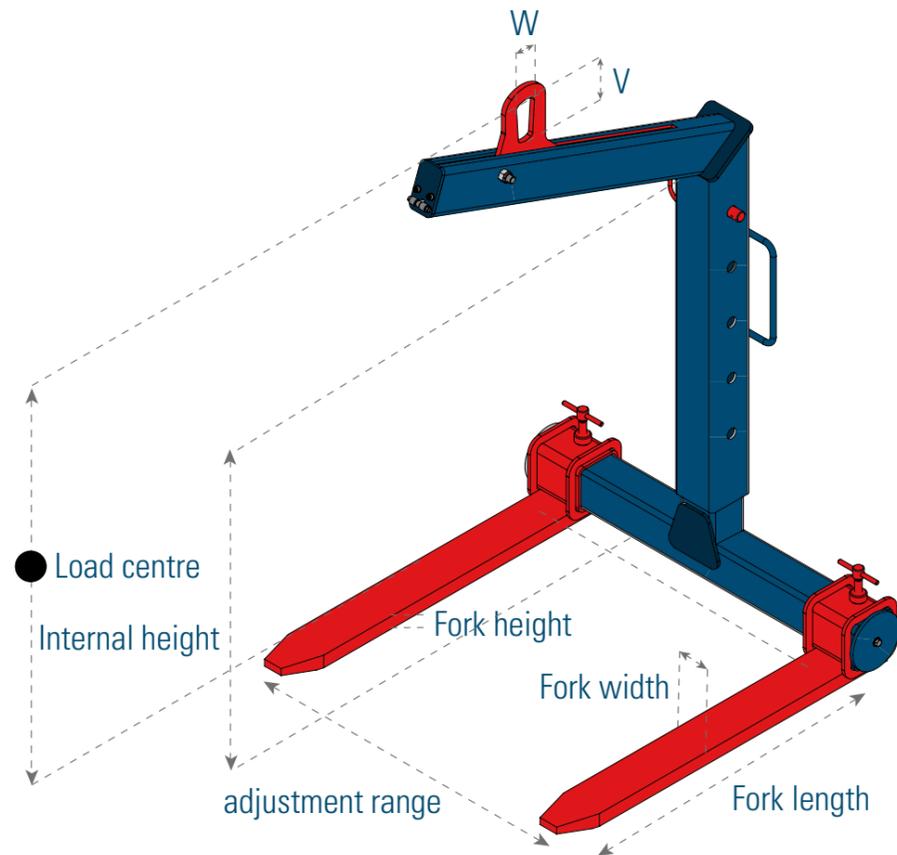
- Especially robust design
- Suitable for long-term storage
- Protection of high-quality coils by secutex impact protection pads
- Oil drainage trough and mounting holes
- Absolute stability
- Absolute anti-rolling protection

Optional

- Impact protection overlay made of heat-resistant impact protection „secutex Heat“
- Support rods, coated
- Transport trolley for support rods
- Stand for inclined and vertical storage

Further product information can be found at:
www.secutex.de/product/coilprotect-semi

Further sizes available on request!



Loading forks

Proper loading and set down

Loading and unloading forks are ideal for ground-level transport of pallets, wire mesh boxes and other bundled loads with a crane. The Axzion loading forks can be perfectly adapted to the various loads by means of a height adjustment and the side-adjustable forks. Also designed for lengthwise transport. Lifting specialists know that the standard pallets and wire mesh boxes have a length of 1200 mm and the load centre is 600 mm. The light loading forks

with a load centre of 500 mm are not suitable here. The loading fork is suspended under load with the fork points downwards. The load can be lost.

Please note:

- ✓ Transporting loads with a centre of mass in front of the suspension (towards the tip of the fork) leads to the fork tilting downwards and is forbidden.
- ✓ Overloading the loading fork can lead to overloading and is not permitted.

AXZION LOADING FORKS

Information

- Solid construction made of robust hollow profiles
- Load centre 600 mm
- With extra large suspension ring, high strength 260x140 mm (HxW)
- Compact prongs, side adjustable
- Variant I: Fixed loading height
- Variant II: Flexible loading height by height adjustment

Optional

- High strength load forks, thus smaller cross-sections
- safety basket
- 2x2 pieces LBS 3 t in the back area suitable for hanging 2 lashing straps
- secutex fork coating

Loading forks with manual weight compensation
Loading fork with manual weight compensation, fixed design



Loading forks with manual weight compensation

Robust design, with large suspension ring

For unevenly loaded pallets, the exact load centre is not always in the middle. Thanks to the easy-to-hang suspension ring, the loading fork can be easily adapted to different load centres.

Designation	Load capacity [kg]	Internal height max. [mm]	Internal height min. [mm]	Length [mm]	Height [mm]	Fork width [mm]	Adjustment range [mm]	Height t [mm]	Dead weight ca. [mm]
LMS 0100 0100 6 Not height-adjustable, Load centre point 600 mm	1000	1300	-	1000	35	80	900	1450	110
LMS 0150 0100 6 Not height-adjustable, Load centre point 600 mm	1500	1300	-	1000	40	100	900	1500	140
LMS 0200 0100 6 Not height-adjustable, Load centre point 600 mm	2000	1300	-	1000	40	130	900	1570	165
LMS 0300 0100 6 Not height-adjustable, Load centre point 600mm	3000	1300	-	1000	50	130	900	1650	220
LMH 0100 0100 6 height-adjustable, Load centre point 600 mm	1000	1300	2000	1000	35	80	900	1800	120
LMH 0150 0100 6 height-adjustable, Load centre point 600 mm	1500	1300	2000	1000	40	100	900	1850	150
LMH 0200 0100 6 height-adjustable, Load centre point 600 mm	2000	1300	2000	1000	40	130	900	1900	180
LMH 0300 0100 6 height-adjustable, Load centre point 600 mm	3000	1300	2000	1000	50	130	900	1950	240

Information

- Simple design
- Load centre only 500 mm!!!
- Fork prongs, not adjustable on the sides
- Fixed loading height



Loading fork with manual weight compensation, fixed design

These particularly economical loading forks are suitable for palletised goods. The weight compensation is carried out by moving the crane hook eye manually. The prongs cannot be moved laterally.

Designation	Load capacity [kg]	Fork length [mm]	Height [mm]	Width [mm]	Adjustment range [mm]	Height t [mm]	Dead weight ca. [mm]
LME 0100 0100 5	1000	900	35	80	900	1450	95
LME 0150 0100 5	1500	900	40	100	900	1500	120
LME 0200 0100 5	2000	900	40	130	900	1570	145

Loading forks with automatic weight compensation



Loading forks with automatic weight compensation

The Axzion loading forks are placed automatically at the structural center of mass by means of trolleys and gas pressure springs. The load centre of mass be above the centre of the tine. The loading fork may only be lifted when the movable eye has reached its load position. In the empty state, the suspension head is pressed against the rear stop by the wear-free gas pressure spring and automatically hangs horizontally. Under load, the eye moves to the front stop and the loading fork is hanging straight. For a safe function of the self-sufficient weight compensation, at least 20% of the nominal load must act on the tines.

- Solid structure made of robust hollow profiles
- Load centre 600 mm
- With suspension eye suitable for crane hooks
- With wear-free, gas pressure spring
- Compact prong, side-adjustable
- Variant I: Fixed loading height
- Variant II: Flexible loading side adjustable by height adjustment

Designation	Load capacity [kg]	Internal height max. [mm]	Internal height min. [mm]	Fork length [mm]	Fork height [mm]	Fork width [mm]	Adjustment range [mm]	Height t [mm]	Dead weight ca. [mm]
LAS 0100 0100 6 Not height-adjustable, Load centre point 600 mm	1000	1300	-	1000	35	80	900	1450	110
LAS 0150 0100 6 Not height-adjustable, Load centre point 600 mm	1500	1300	-	1000	40	100	900	1500	140
LAS 0200 0100 6 Not height-adjustable, Load centre point 600 mm	2000	1300	-	1000	40	130	900	1570	165
LAS 0300 0100 6 Not height-adjustable, Load centre point 600mm	3000	1300	-	1000	50	130	900	1650	220
LAH 0100 0100 6 height-adjustable, Load centre point 600 mm	1000	1300	2000	1000	35	80	900	1800	120
LAH 0150 0100 6 height-adjustable, Load centre point 600 mm	1500	1300	2000	1000	40	100	900	1850	150
LAH 0200 0100 6 height-adjustable, Load centre point 600 mm	2000	1300	2000	1000	40	130	900	1900	180
LAH 0300 0100 6 height-adjustable, Load centre point 600 mm	3000	1300	2000	1000	50	130	900	1950	240

Further sizes available on request!

AXZION LOADING FORKS

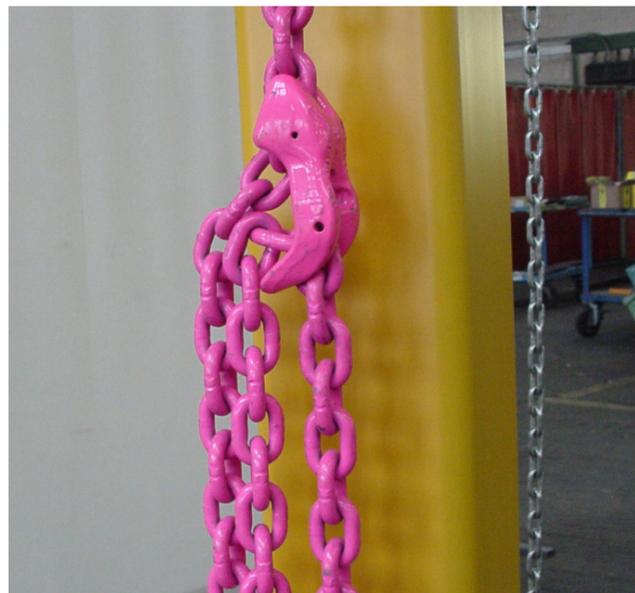
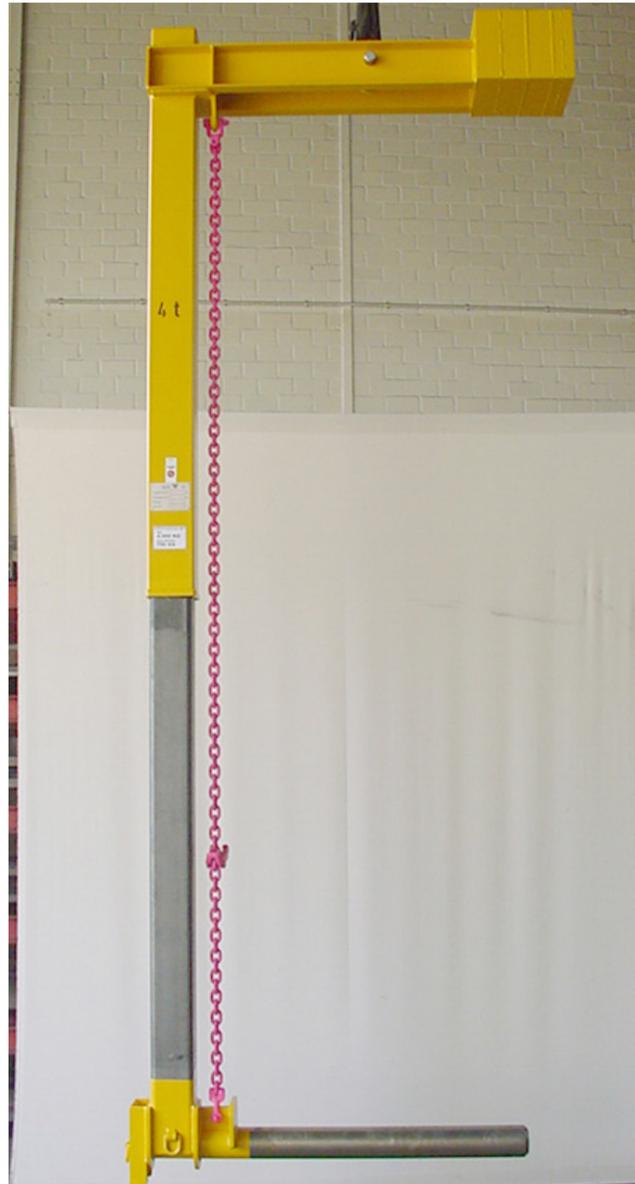
Optional

- High-strength load prongs, thus smaller prong cross sections
- Safety basket
- 2x2 pieces LBS 3 t in the back area suitable for hanging 2 lashing straps
- secutex prong coating

Further product information can be found at:
www.axzion.de>Loading-forks

Further product information can be found at:
www.axzion.de>Loading-forks

Further sizes available on request!



With the control fork, pallets and wire mesh boxes can be placed in the shelves provided for this purpose with the crane. In this case, the effective height can be increased or reduced quickly and very simply:

- Placing the shelf control fork on the floor of the hall
- Telescoping the back by the weight of the load-bearing device.
- Shortening the chain, done.

At the same time, the reduced height is required to fill the upper shelf compartments, while the storage of pallets in the lower storage bins requires a large internal height. Of course, the crane hook must always be above the load centre.

The size and design can easily be adapted to the load and also to the existing shelf.

Prices and Productinformation available on request!



Optional

- Round forks for use as coil hooks

Further product information
can be found at:
www.axzion.de/shelf-control-for

