pewag

STRONG IS NOT ENOUGH

www.pewag.com

# pewag winner Chain system in G10

## Lifting


English EN

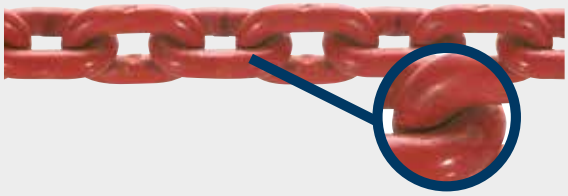
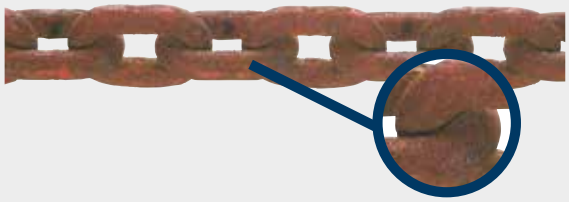
# pewag corropro

## The innovative corrosion protection system.

Resilient. Adherence.
Free of heavy metals.

pewag corropro is an electrochemical deposited anticorrosion coating, which has a zinc bondering pretreatment.
Due to the thin micro protective layer, the corrosion protection process is ideally suited for coating complicated structures such as threads and moving parts.

## Salt spray tess to ISO 9227 (NSS-test).

| Starting situation | Final state |
|---|---|
| **PCP – corropro**  | **528 h**  |
| **PC – powder coated**  | **528 h**  |
| **GZN – electro galvanized**  | **288 h**  |
| **LAC – varnished**  | **168 h**  |

# Contents

## The pewag product range – tailor-made with safety in mind

For pewag, the focus always lies on service, quality and tradition. For centuries, the company has been continuously expanding its expertise in the field of chain systems and today it is among the global leaders in the industry. Innovation, safety and sustainability are key features of all our products.

Our lifting technology and load-securing chain system in G10 is currently the most comprehensive range on the market and customers all over the world appreciate the fact that we go far beyond standard market requirements. Application-specific, customised solutions and a great eye for detail are part and parcel of the pewag philosophy – in the past, in the present, and in future.

LEEA Full Member

Technical changes and misprints excepted.

# Welcome to the pewag group

## We are an internationally operating group of companies. Our track record goes back to the year 1479.

## Mission Statement

**pewag group's Mission Statement expresses the goals of our actions as follows:**

With our joy for innovation, we strive to make all products of the pewag group the best in the respective markets. The high quality of our products and services as well as our employees' passionate dedication are the foundation to our pursuit of outstanding services and complete customer satisfaction.

## Principles of pewag group

**Leading in Quality**

The values of our product brands are demonstrated by our first-class quality and innovations and are communicated consistently and coherently.

We anticipate market demands and changes in the environment and adapt our strategies, organizations and actions accordingly to satisfy our customers' needs through providing an optimal price-performance ratio: timely delivery, efficient and obliging service.

**Leading in Responsibility**

We commit ourselves to careful treatment of the environment, by reducing the use of energy and raw materials, ensuring the longevity of our products and making them recyclable.

We value an open, honest and team-oriented work-style, which is based on transparent communication honoring ideas, opinions and experience of our employees as valuable inputs for our decision making process.

We strive for stable and fair partnerships with our employees, customers, suppliers and other business partners and take social aspects into consideration when making business decisions.

**Leading in Technology**

We secure our technological strength by striving for product quality, constant improvements and innovations of products, as well as manufacturing processes.

We strive to be the best in product technology. This ensures that our customers always have optimal solutions available and that we expand and protect our market position.

**Leading in Economics**

In all our processes we use due diligent business practices and efficiency and strive to improve these continuously.

In the long-term, we will continuously increase our economic performance to raise corporate value, achieve sustained growth and thus secure a successful future of the organization.

We are a modern group of companies which looks back to a tradition and experience of more than 500 years. Since our founding years, a lot has changed, but the values that made our success possible from the beginning remain.

# pewag group – Innovation. Quality. Partnership.

# History of the pewag group

## Advantage through tradition

The history of pewag group goes back to the 15th century and therefore makes us one of the oldest chain manufacturer worldwide. With our experience we are ready for the future.

**Timetable of important events**

**1479** First documented references of a forging plant in Brückl
**1787** Foundation of a chain forge in Kapfenberg
**1803** Foundation of a chain forge in Graz
**1836** Establishment of an iron casting plant in Brückl
**1912** Production of the first pewag snow chain
**1923** Merger of plants in Graz and Kapfenberg – Creation of the name "pewag"
**1972** Foundation of a sales company in Germany
**1975** Foundation of a sales company in the USA
**1993** Foundation of pewag austria GmbH
**1994** Foundation of the first subsidiary in Czech Republic
**1999** Acquisition of the Weissenfels Group
**2003** Separation from the Weissenfels Group
**2005** Reorganization into 2 groups:
Schneeketten Beteiligungs AG Group – Snow Chains
pewag austria GmbH Group – Technical Chains
**2009** Acquisition of Chaineries Limousines S.A.S.
**2012** Foundation of the first manufacturing company in the USA
**2013/2014** Foundation of various international sales companies

Lithography forging plant Brückl 1855

Anchor chain forge 1878

Chain forgers 1956

# Quality management

## Our main goal is customer satisfaction.

In this instance, quality means that only those products and services are developed, manufactured and delivered which completely and without compromise satisfy the customer.

The pewag group's quality policy, is underlined by the following basic principle: **"we supply high-end products and services to our customers that conform to the technical standards and requirements"**, can be summarised in the subsequent four points.

**Market-oriented Quality**
In order to maintain and to widen the competitive position of the pewag group, the quality of finished goods and services must be consistent with the specifications of the customer and also with their expectations of one of the leading companies. No product should ever pose a danger to people or the environment.

**Economic Quality**
As a profit-oriented company, quality is achieved by taking into consideration the material, personnel and financial resources; this means that we establish an appropriate best price/performance ratio for the customer within the acknowledged framework.

**Quality Responsibility**
Stringent demands are placed on all employees to ensure high standards of quality. No matter what hierarchical level, all managers are in charge of managing quality. Every employee within the pewag group should be educated, motivated and instructed by the management team. It is important for promoting high quality awareness that the education and training of employees is at the forefront, as each employee is responsible for the quality of his/her own work.

For each of our employees, the statement **"QUALITY STARTS WITH ME"** must be true!

**Process-oriented Quality**
The close interaction between sales, product development, production and customer service is regulated within the individual companies by fixed processes and activities, as well as responsibilities with the aim to reach and maintain the defined quality standards.

# Business areas

## Working with pewag products

The pewag group has a substantial and diverse spectrum of products and services.

Our range of products varies from traction chains for tires (snow chains for passenger cars, trucks and special-purpose vehicles, tire protection chains for mining vehicles) over different industrial chains to products for the do-it-yourself sector (light chains, belts, etc.)

**Segment A**
Snow and forestry chains

**Segment B**
Hoist and conveyor chains

**Segment C**
Do-it-yourself

**Segment D**
Engineering

**Segment F**
Lifting and lashing chains

**Segment G**
Tire protection chains

# Environment – we take responsibility

## Ecological awareness in all areas

Our company's manufacturing location in Kapfenberg, Austria, has been used for iron and steel production for over 270 years. A second facility located in Brückl, Austria, was first documented in records dating back to 1479. Based on this long manufacturing tradition, we take serious responsibility for our products, employees and the environment at all our international locations. Hence, one of our major concerns is to improve energy efficiency and, in doing so, to minimise energy consumption over a long period of time with the development of new production technologies. An important goal is to increase energy efficiency and consequently lower energy demand. Consequently, we develop our products to achieve longer product life-cycles and lower weight but simultaneously, increasing their working load capacities and the safety for our customers. We are committed to upholding all relevant energy and environmental standards by setting clearly defined goals and continually improving our performance. To achieve this goal, we use modern manufacturing technologies. An important step is to provide the necessary resources and to include our employees in the process. We are convinced that well-informed and motivated employees can actively participate in environmental conservation.

Wherever we are unable to avoid an environmental impact, we have set ourselves the goal to continually reduce our energy consumption, waste and environmentally harmful emissions. When purchasing new equipment, we strive to find the best and most efficient technical solution possible. It is important for us to promote the purchase of energy efficient products and services.

Our process-oriented management system regulates the documentation concerning all environmental relevant procedures. It also encompasses preventative measures for possible failures, as well as behavioural instructions for regular and/or extraordinary operational procedures. By systematically monitoring and assessing our environmental activities, we are quickly able to resolve deviances and to take corrective action. This process extends throughout the whole organisation to optimise all business processes. We strive to engage in an open dialogue with our customers, neighbours and authorities to inform them of our energy and environmental engagements.

Through specific communication we want to inform our customers about the environmental aspects of our products – specifically inform them about the longevity of our products. Through meaningful communication, we strive to motivate our suppliers and customers to think – in turn – about their environmental footprint and to put into practice similar environmental standards in their businesses.

# Customer proximity

## International presence

In the ambitious five-hundred year history pewag has evolved from a small and modest company to a global organization with several subgroups.

With 12 production and 40 sales and other locations on all five continents, pewag documented its claim as one of the world's leading chain manufacturers.

In addition to the numerous locations pewag as an international company relies on his capillary, strong, and professional partner network. These collaborations provide optimal customer service in currently more than 100 countries around the world.

## Production and sales locations

| **Europe** | |
|---|---|
| Austria | pewag austria GmbH, Graz<br>pewag austria GmbH, Kapfenberg<br>pewag Schneeketten GmbH, Graz<br>pewag Schneeketten GmbH, Brückl<br>pewag engineering GmbH, Kapfenberg<br>pewag austria Vertriebsgesellschaft mbH, Graz<br>pewag Ketten GmbH, Klagenfurt<br>pewag International GmbH, Klagenfurt |
| Germany | pewag Deutschland GmbH, Unna<br>pewag Schneeketten Deutschland GmbH, Unna |
| France | pewag France SAS, Limoges<br>Chaineries Limousines SAS, Bellac |
| Italy | pewag italia srl, Suello |
| Croatia | pewag d.o.o, Rijeka |
| The Netherlands | pewag nederland BV, Rijnsburg<br>APEX International BV, Hillegom<br>APEX Automotive BV, Hillegom |
| Poland | pewag polska Sp. z o.o., Buczkowice |
| Portugal | pewag Portugal – Comercio de Produtos e Equipamentos Industriais, Lda,<br>Santo Antão do Tojal |
| Romania | pewag Romania SRL, Sibiu County |
| Russia | OOO "PEWAG", Moscow |
| Sweden | pewag sweden AB, Emmaboda |
| Slovakia | pewag Slovakia sro, Nováky |
| Czech Republic | pewag Czech sro, Vamberk<br>Řetězárna Česká Třebová sro, Vamberk<br>pewag sro, Vamberk<br>peform Chrudim sro, Chrudim |

| **Europe** | |
|---|---|
| Ukraine | TOV pewag Ukraine GmbH, Lviv |

| **North America** | |
|---|---|
| USA | pewag Inc, Bolingbrook, Illinois<br>pewag Inc, Rocklin, California<br>pewag Traction Chain Inc, Pueblo, Colorado |
| Canada | pewag Canada Inc., Mississauga |
| Mexico | pewag Mexico SA de CV, Mexico |

| **South America** | |
|---|---|
| Brazil | Helevar Comércio e Importação de Produtos Metalúrgicos Ltda., Porto Alegre |
| Colombia | pewag Colombia S.A.S, Rionegro-Antioquia |

| **Africa** | |
|---|---|
| South Africa | pewag chain south africa (pty) ltd., Linden |

| **Australia** | |
|---|---|
| Australia | pewag australia Pty Limited, Barrack Heights |

| **Asia** | |
|---|---|
| India | pewag India Private Limited, Bangalore |

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itself on the internet. More ...
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# pewag group –
# Innovation. Quality. Partnership.

# pewag chains together

The peTAG solution enables cross-company, flexible servicing and administration of a wide range of different objects.

## peTAG solution

The intelligent solution for unambiguous object identification, data transfer without media breaks, easy servicing of objects, safe document archiving, efficient interaction with partner businesses and much more.

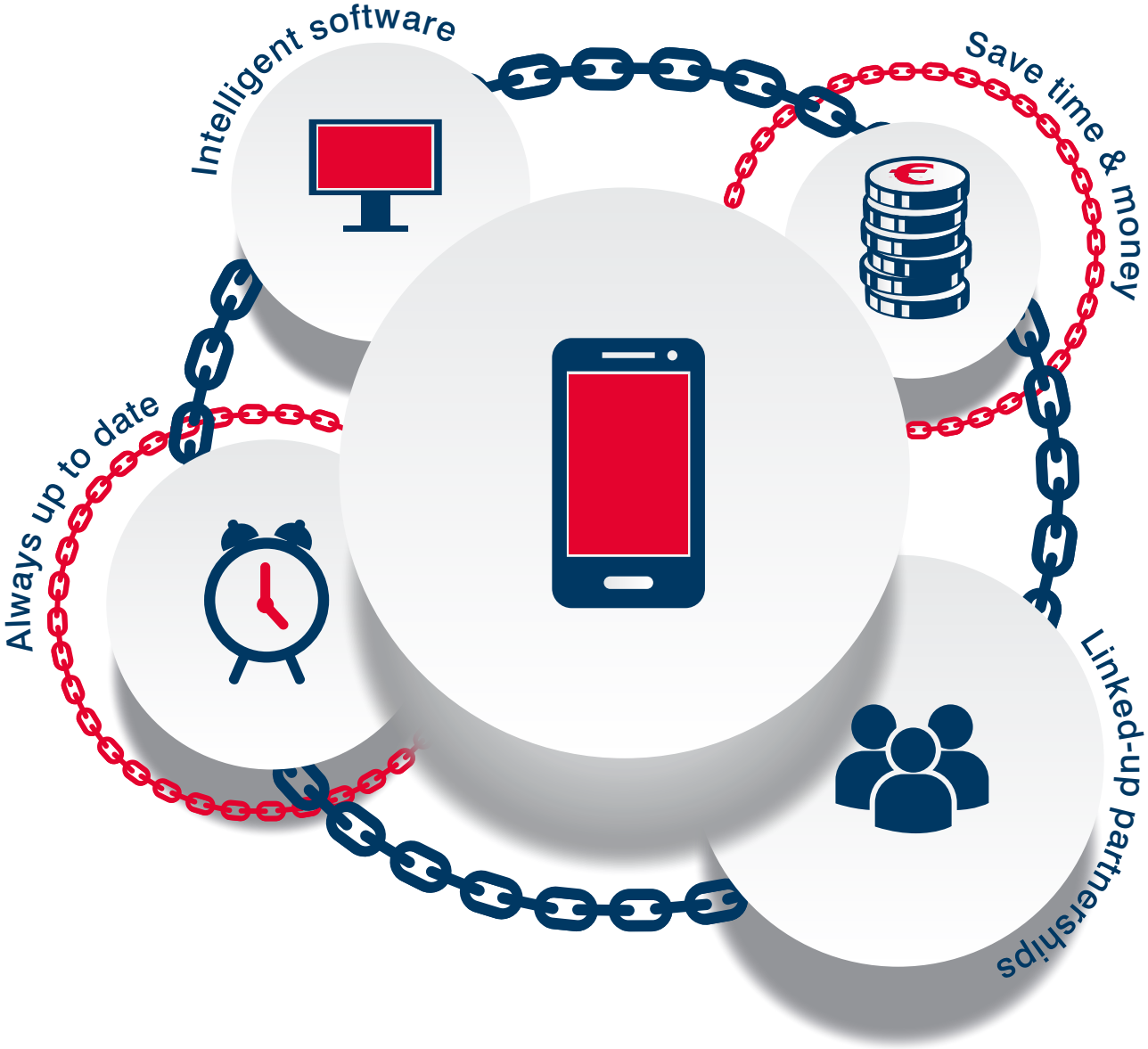

## peTAG info

Smart, free-of-charge access to product-specific information via mobile web.

## peTAG manager

Watch your PC and mobile devices work hand in hand with this adaptable, high-performance platform – in any work environment and while increasing data quality at the same time. Expensive add-on reading devices and manual data transfer are things of the past!

# peTAG solution




## peTAG solution Keyfacts

**Intelligent software**
User-specific adaptation of object data, testing processes and steps. Automates the creation, sending and archiving of test reports. Sophisticated authorisation concept.

**Linked-up partnerships**
Straightforward exchange and efficient interaction between service providers, merchants and customers. Improved service and data quality. Increased satisfaction and loyalty.

**Save time & money**
Efficient documentation of work processes, thus simplified daily workflows. Data exchange without media breaks, fault-free data communication.

**Always up to date**
Access to the latest product data and information, overview of all test data, documentation of test procedures. Traceability of object history.

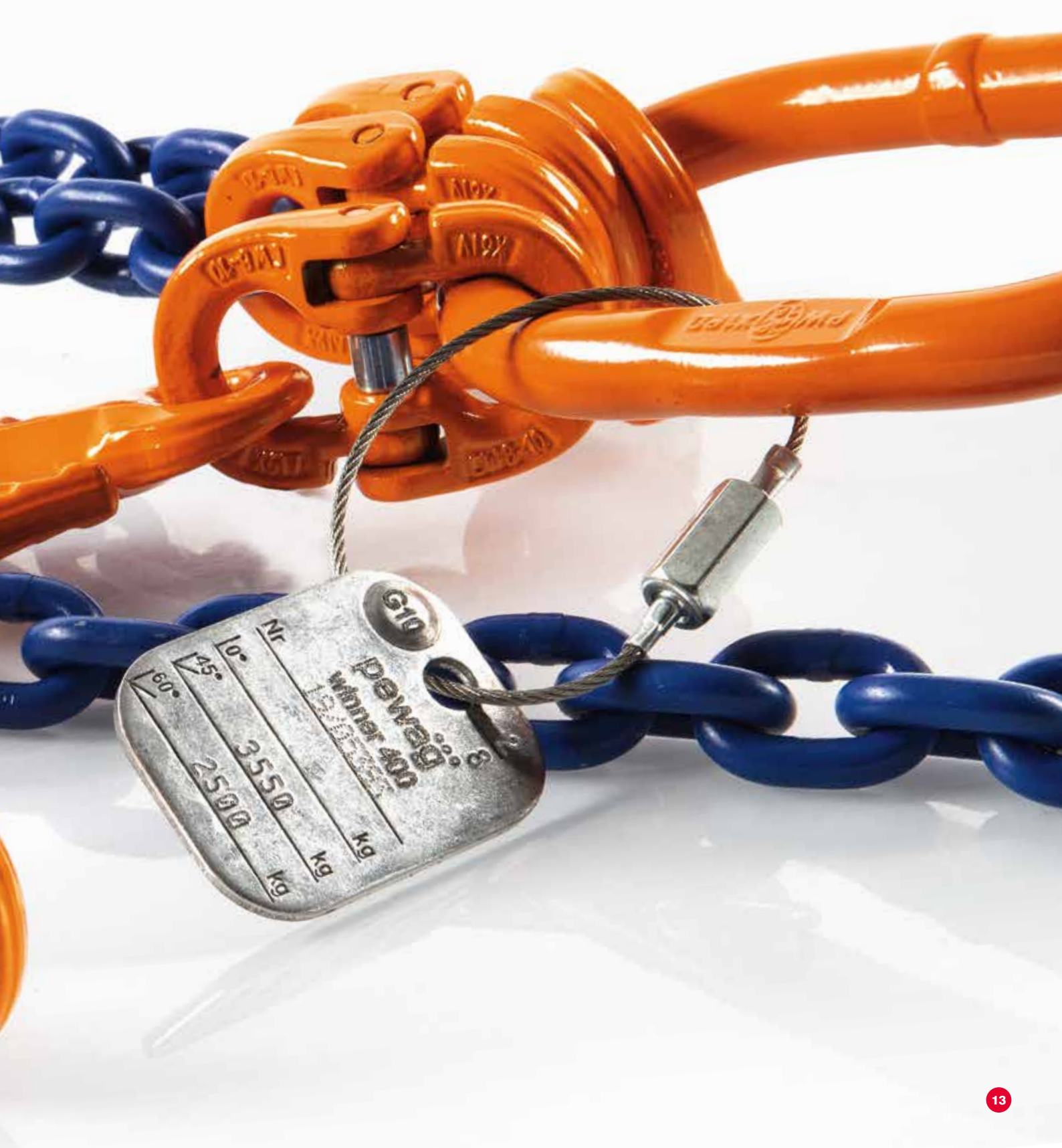
**Mobile solution**
Direct, location-independent data access (e.g. load capacity, safety information, latest test reports etc.) Smart servicing of objects via mobile app. Offline availability.

# Lifting accessories in G10

## Benefits and information

### Content

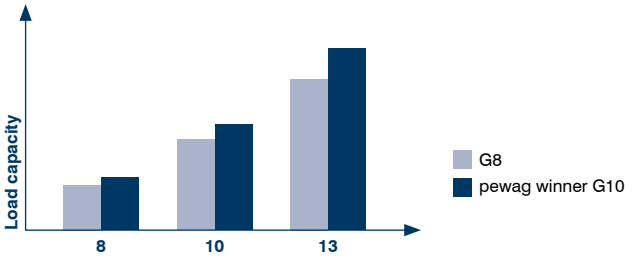



G10
pewag
winner 400
Nr
0°
45°
60°
3550
2500
kg
kg
kg

# Lifting chains in G10 quality – benefits that outweigh the rest.

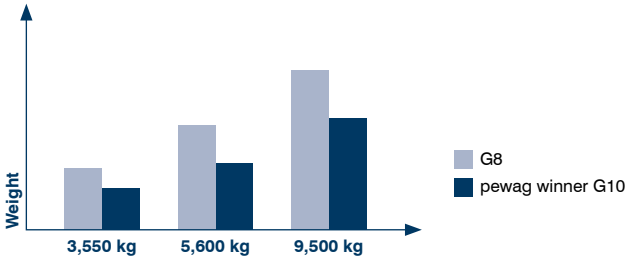
pewag is among the world's best manufacturers of lifting chains – for a good reason, as our products are the result of a responsible development process that focuses on user-friendliness and safety. These features are clearly measurable and form the basis of the pewag product development and manufacturing process, where only the best results count!

- 25 % more load capacity compared to G8.




| Load capacity | Previous chain Ø | pewag winner chain Ø |
|---|---|---|
| 3,550 | 10 | 8 |
| 5,600 | 13 | 10 |
| 9,500 | 16 | 13 |

- Simplified handling thanks to a 30 % weight reduction.




| Load capacity | Previous chain weight | pewag winner chain weight | % weight reduction |
|---|---|---|---|
| 3,550 | 16.20 kg | 11.00 kg | 32 % |
| 5,600 | 27.60 kg | 17.60 kg | 36 % |
| 9,500 | 42.20 kg | 29.60 kg | 30 % |

- Attractive price/performance ratio thanks to the small price differential compared to grade 8.
- One dimension smaller than grade 8 slings, for many load ranges – thus providing excellent value.
- Extended service life due to higher wear resistance.
- WIN 400 Easy identification – each link is marked with "W". WIN 200 Easy identification – each link is marked with "10".
- Code on chain and component ensures traceability of all manufacturing data.
- Distinctive oval-shaped tags with precise information helps avoid confusion with grade 8.
- High-visibility orange powder-coating for simple visual identification.
- Largest range of components in special grade 10 quality – for 11 chain dimensions.
- Fastest and simplest assembly of slings thanks to VXKW set with unique shortening element.

- Additional safety feature compared to shortening claws, thus reducing risks resulting from improperly attached chains of our shortening hooks
- Easier and faster annual inspection as fewer components are used.
- Compatible with our grade 8 range – used slings are easy to repair. NOTE: Grade 10 components may be used to repair G8, but not at an increased load capacity!
- First company to offer parallel hooks with 100 % load capacity – shortening of the sling chain does not require a reduction in load caused by shear effect of the hook!
- 3 assembly systems of slings: welded, Connex and Clevis system.
- Pioneer: pewag were the first to sell G10 lifting chains and have a wealth of experience in this field.
- Quality-approved European production by an ISO 9001 certified company.
- Worldwide distribution network – smooth supply of spare and replacement parts.
- All components comply with EN 1677-1, -2, -3 or -4.
- A true-as-steel bonus: The pewag winner 400 chain meets the EN 818-2 with higher working load limit resp. PAS 1061 up to 16 mm and Machinery Directive 2006/42/EG.

## pewag lifting chains – environmentally friendly, resource-preserving, strong.

True-as-steel quality management principles best explain why pewag is now offering even more benefits for lifting chains. For instance, ISO 14001 certification is being

rigorously implemented for the G10 lifting chains, resulting in significantly lowered energy and material consumption during manufacturing, thus preserving raw materials – an environmentally friendly approach throughout! And the reduced amount of materials used also means that less material has to be recycled.

## Core data of the pewag winner range – winner by name, winner by nature.

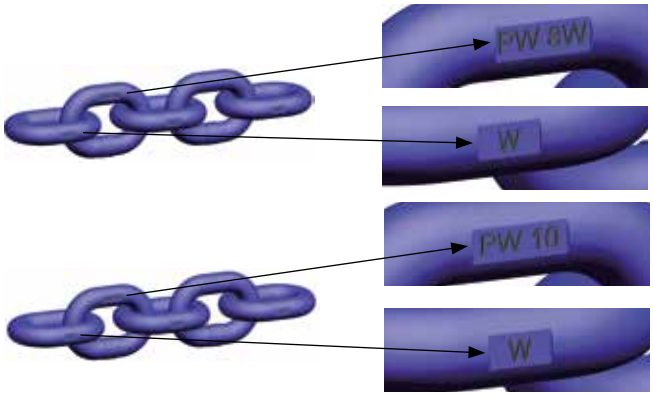
- **Top ranking:**
  **pewag winner 200 –** meets the requirements of ASTM A973/A973M-01 and of EN 818-2 but with higher load capacity (however admissible operating temperature of 200 °C max.) and 2006/42/EG Machinery Directive.
  **Chain quality of pewag winner 400** meets the EN 818-2 with higher working load limit resp. PAS 1061 up to 16 mm and Machinery Directive 2006/42/EC.
- **Stress at load capacity limit:** 250 N/mm².
- **Test stress:** 625 N/mm² – equals 2.5 times the load capacity.
- **Breaking stress:** 1,000 N/mm² – equals 4 times load capacity.
- **Breaking elongation:** min. 20 %.
- **Bending according to EN 818-2 or PAS 1061:**
  0.8 x nominal diameter.
- **Admissible operating temperature:**
  pewag winner 200 – 200 °C max.
  pewag winner 400 – up to 380 °C.
- **Quality grade stamps**
  **pewag winner 200:** 10 at a spacing of approx. 300 mm till 16 mm chain (other 0.9 m) and 10 additionally on the back of each link.
  **pewag winner 400:** 10 at a spacing of approx. 300 mm up to 16 mm chain (other 900 mm) and W on the back of each link.
  **Components** – 10.
- **Manufacturer's name or symbol on the chain and components:** PW or pewag.
- **Surface:**
  **pewag winner 200:** shot-blasted and clear coated
  **pewag winner 400:** blue painted
  **Components:** orange powder-coated
  **Welded system:** blue painted
- **Compatibility:**
  pewag winner chains and components may be combined by a competent person under consideration of the manufacturer specifications with all grade 8 components that meet the requirements of EN 818 and EN 1677. Furthermore, the pewag winner chains may be combined with all competitor chains and components that are compatible with EN 818. and EN 1677 qualified items. Please note that the products cannot be combined with items that do not comply with EN 818 or EN 1677! The maximum working load capacity of the overall system is always defined by its weakest part.

  Only original pewag spare parts (e. g. pins and bolts, safety catches, etc.) may be used for pewag products, subject to inspection and approval by the competent person.
- **Product characteristics** for stress crack corrosion are equal to those of grade 8.

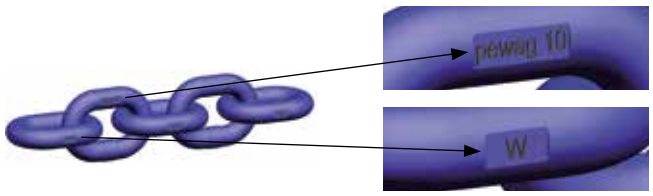
All dimensions given in this catalog are nominal dimensions. Depending on the manufacturing process they are subject to various manufacturing tolerances. Please contact our customer service if required.

## pewag winner chain markings, old and new.

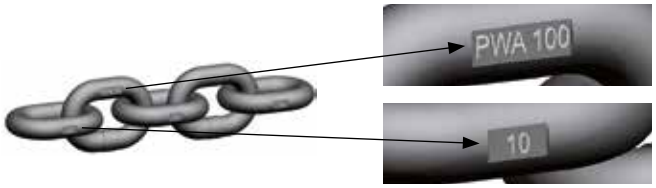
pewag winner 400 chain with old chain markings and the usual outstanding safety characteristics:



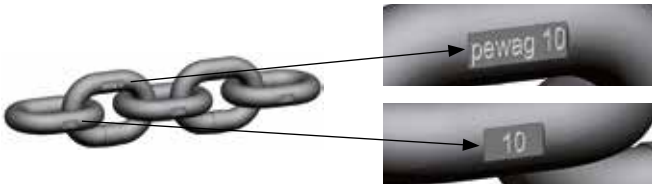

pewag winner 400 chain with new chain markings and the usual outstanding safety characteristics:




WIN 200 chain with old chainmarking:




WIN 200 chain with new chainmarking:



# Novelty: rectangular load capacity tag.

pewag is always striving to develop its products further. The shape of the load capacity tags was changed to a rectangular design that offers numerous benefits to the user, thus taking our idea of safety yet one step further.

The tags are made from rust-proof material and linked to the sling with a rust-proof, quick-release fastener, thus considerably increasing user safety.

This will eliminate once and for all an error that happened fairly often in the past: As all standard documents for lifting chains describe ID tags where the number of corners correspond to the grade category of the lifting chain, users frequently made the mistake of estimating the load capacity of the chain based on this information, without paying attention to the actual markings on the tag.  However, standards only ever describe the minimum requirements that a product must comply with and can always be exceeded.

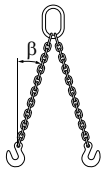
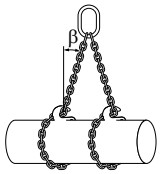
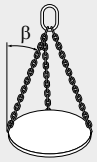
The rectangular load capacity tags prevent this mistake from happening and offer the following benefits to the user:

- Prevention of incorrect assessment of the load capacity as looking at the tag prior to each lifting operation becomes unavoidable.
- When the marking is not observed, the lifting chain will be classed as a maximum grade 4.
- Corrosion-resistant: therefore resistant to solvents, acids, caustics and their vapours.
- Easily replaceable due to the rustproof cable with quick-release fastener.
- All information is engraved, allowing for customer-specific markings.
- Pre-stamped years for the periodic inspections make it immediately apparent when the last inspection took place.
- For periodic inspections, only the month must be stamped.

# pewag winner G10 – in safety lies strength.

# pewag winner load capacities.

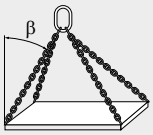
The load capacities listed are maximum values of the various sling types, stated according to the standard (Uniform Load) method of rating.

| Safety factor 4 | | I-leg chains | | II-leg chains | | | | III- + IV-leg chains |
|---|---|---|---|---|---|---|---|---|
| | |  |  |  | |  | |  |
| **Angle of inclination β** | | - | - | 0° – 45° | 45° – 60° | 0° – 45° | 45° – 60° | 0° – 45° |
| **Load factor** | | 1 | 0.8 | 1.4 | 1 | 1.12 | 0.8 | 2.1 |
| **Code** | **d** | **Load capacity [kg]** | | | | | | |
| WIN 5 | 5 | 1,000 | 800 | 1,400 | 1,000 | 1,120 | 800 | 2,000 |
| Ni 5 G8 | 5 | 800 | 640 | 1,120 | 800 | 900 | 640 | 1,600 |
| WIN 6 | 6 | 1,400 | 1,120 | 2,000 | 1,400 | 1,600 | 1,120 | 3,000 |
| Ni 6 G8 | 6 | 1,120 | 900 | 1,600 | 1,120 | 1,250 | 900 | 2,360 |
| WIN 7 | 7 | 1,900 | 1,500 | 2,650 | 1,900 | 2,120 | 1,500 | 4,000 |
| Ni 7 G8 | 7 | 1,500 | 1,200 | 2,120 | 1,500 | 1,700 | 1,200 | 3,150 |
| WIN 8 | 8 | 2,500 | 2,000 | 3,550 | 2,500 | 2,800 | 2,000 | 5,300 |
| Ni 8 G8 | 8 | 2,000 | 1,600 | 2,800 | 2,000 | 2,240 | 1,600 | 4,250 |
| WIN 10 | 10 | 4,000 | 3,150 | 5,600 | 4,000 | 4,250 | 3,150 | 8,000 |
| Ni 10 G8 | 10 | 3,150 | 2,500 | 4,250 | 3,150 | 3,550 | 2,500 | 6,700 |
| WIN 13 | 13 | 6,700 | 5,300 | 9,500 | 6,700 | 7,500 | 5,300 | 14,000 |
| Ni 13 G8 | 13 | 5,300 | 4,250 | 7,500 | 5,300 | 5,900 | 4,250 | 11,200 |
| WIN 16 | 16 | 10,000 | 8,000 | 14,000 | 10,000 | 11,200 | 8,000 | 21,200 |
| Ni 16 G8 | 16 | 8,000 | 6,300 | 11,200 | 8,000 | 9,000 | 6,300 | 17,000 |
| WIN 19 | 19 | 14,000 | 11,200 | 20,000 | 14,000 | 16,000 | 11,200 | 30,000 |
| Ni 19 G8 | 19 | 11,200 | 8,950 | 16,000 | 11,200 | 12,500 | 8,950 | 23,600 |
| WIN 22 | 22 | 19,000 | 15,000 | 26,500 | 19,000 | 21,200 | 15,000 | 40,000 |
| Ni 22 G8 | 22 | 15,000 | 12,000 | 21,200 | 15,000 | 17,000 | 12,000 | 31,500 |
| WIN 26 | 26 | 26,500 | 21,200 | 37,500 | 26,500 | 30,000 | 21,200 | 56,000 |
| Ni 26 G8 | 26 | 21,200 | 16,950 | 30,000 | 21,200 | 23,700 | 16,950 | 45,000 |
| WIN 32 | 32 | 40,000 | 31,500 | 56,000 | 40,000 | 45,000 | 31,500 | 85,000 |
| Ni 32 G8 | 32 | 31,500 | 25,200 | 45,000 | 31,500 | 35,200 | 25,200 | 67,000 |

If the chain slings are used in severe conditions (e.g. high temperature, asymmetric load distribution, edge load, impact/shock loads), the maximum load capacity values in the table must be reduced by the load factors specified on page 20.

Please also note the user information on different conditions of use and their effects on the load capacity values!

The safety factor for all chain slings is 4. For higher safety factors, please reduce the load capacity or consult the technical department.

| III- + IV-leg chains | IV- leg chains with load distributor | | Endless chain sling | Single lifting sling | | Double lifting sling | |
|---|---|---|---|---|---|---|---|
|  |  | |  |  | |  | |
| 45° – 60° | 0° – 45° | 45° – 60° | - | 0° – 45° | 45° – 60° | 0° – 45° | 45° – 60° |
| 1.5 | 2.8 | 2 | 1.6 | 1.4 | 1 | 2.1 | 1.5 |
| | | | | | | | |
| 1,500 | 2,800 | 2,000 | 1,600 | 1,400 | 1,000 | 2,000 | 1,500 |
| 1,180 | 2,240 | 1,600 | 1,250 | 1,120 | 800 | 1,600 | 1,180 |
| 2,120 | 4,000 | 2,800 | 2,240 | 2,000 | 1,400 | 3,000 | 2,120 |
| 1,700 | 3,150 | 2,240 | 1,800 | 1,600 | 1,120 | 2,360 | 1,700 |
| 2,800 | 5,300 | 3,750 | 3,000 | 2,650 | 1,900 | 4,000 | 2,800 |
| 2,240 | 4,000 | 3,000 | 2,500 | 2,120 | 1,500 | 3,150 | 2,240 |
| 3,750 | 7,100 | 5,000 | 4,000 | 3,550 | 2,500 | 5,300 | 3,750 |
| 3,000 | 5,600 | 4,000 | 3,150 | 2,800 | 2,000 | 4,250 | 3,000 |
| 6,000 | 11,200 | 8,000 | 6,300 | 5,600 | 4,000 | 8,000 | 6,000 |
| 4,750 | 8,500 | 6,300 | 5,000 | 4,250 | 3,150 | 6,700 | 4,750 |
| 10,000 | 19,000 | 13,200 | 10,600 | 9,500 | 6,700 | 14,000 | 10,000 |
| 8,000 | 14,000 | 10,600 | 8,500 | 7,500 | 5,300 | 11,200 | 8,000 |
| 15,000 | 28,000 | 20,000 | 16,000 | 14,000 | 10,000 | 21,200 | 15,000 |
| 11,800 | 22,400 | 16,000 | 12,500 | 11,200 | 8,000 | 17,000 | 11,800 |
| 21,200 | 39.200 | 28.000 | 22,400 | 20,000 | 14,000 | 30,000 | 21,200 |
| 17,000 | - | - | 18,000 | 16,000 | 11,200 | 23,600 | 17,000 |
| 28,000 | 53.200 | 38.000 | 30,000 | 26,500 | 19,000 | 40,000 | 28,000 |
| 22,400 | - | - | 23,600 | 21,200 | 15,000 | 31,500 | 22,400 |
| 40,000 | 74.200 | 53.000 | 42,500 | 37,500 | 26,500 | 56,000 | 40,000 |
| 31,500 | - | - | 33,500 | 30,000 | 21,200 | 45,000 | 31,500 |
| 60,000 | - | - | 63,000 | 56,000 | 40,000 | 85,000 | 60,000 |
| 47,500 | - | - | 50,000 | 45,000 | 31,500 | 67,000 | 47,500 |

# Exceptional conditions of use.

Even the highest-quality products will lose some of their load capacity if used at high temperatures, as a consequence of asymmetric load distribution, edge loading, shock/impact loading or other exceptional conditions of use. Please consult the user information for details.

The following circumstances are considered exceptional conditions of use as outlined above:

| | | | |
|---|---|---|---|
| **Temperature** | -40 °C – 200 °C | above 200 °C – 300 °C | above 300 °C – 380 °C |
| **Load factor pewag winner 200** | 1 | not permissible | not permissible |
| **Load factor pewag winner 400** | 1 | 0.9 | 0.75 |
| **Asymmetric load distribution** | The WLL has to be reduced by at least I leg. In case of doubt only consider I leg as load-bearing. | | |
| **Edge load *** | R = larger than 2 x d*  | R = larger than d*  | R = smaller than d*  |
| **Load factor** | 1 | 0.7 | 0.5 |
| **Shock** | slight shocks | medium shocks | strong shocks |
| **Load factor** | 1 | 0.7 | not permissible |

* d = dia. of chain

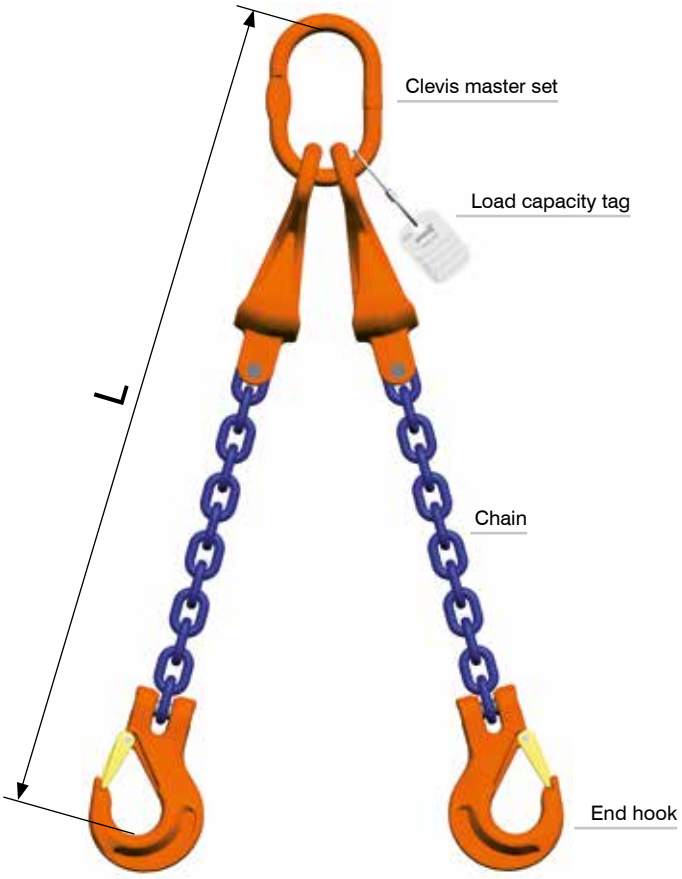
# Sample order text for pewag winner sling types.

Here you will find some examples that show what an order of a fully assembled and commercially available pewag winner G10 chain slings could look like, clearly labelled and with all components and measurements.
What you see here is a pewag winner 400 II-leg chain sling, 13 mm, with shortening device and hook. Length: 3000 mm.

**Clevis system:**

**WIN 13 400 II VXKW – KHSW 3000**

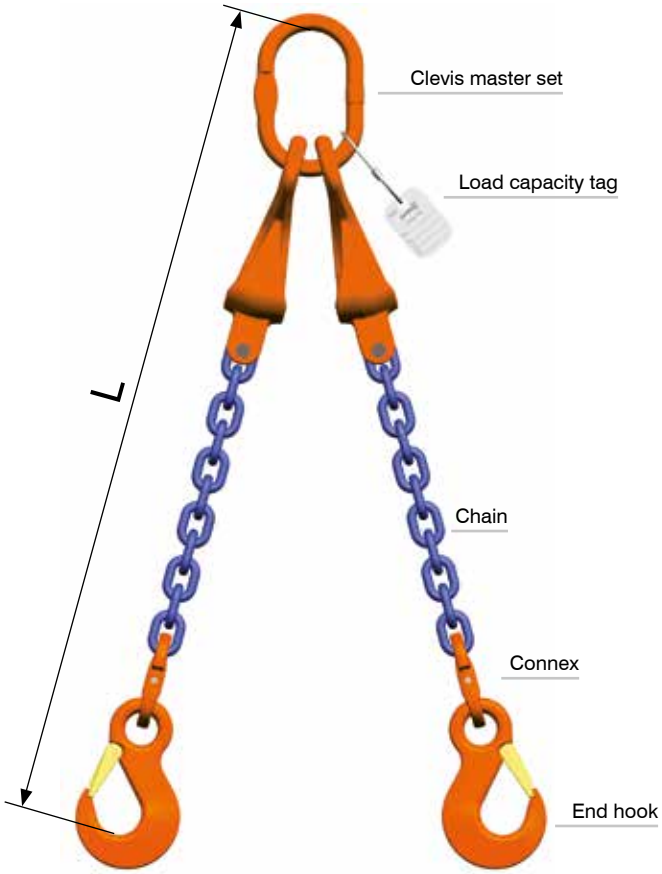
| Short designation of the chain | Number of legs | Clevis master set | Endhook | Length [mm] |
|---|---|---|---|---|



# Sample order text.

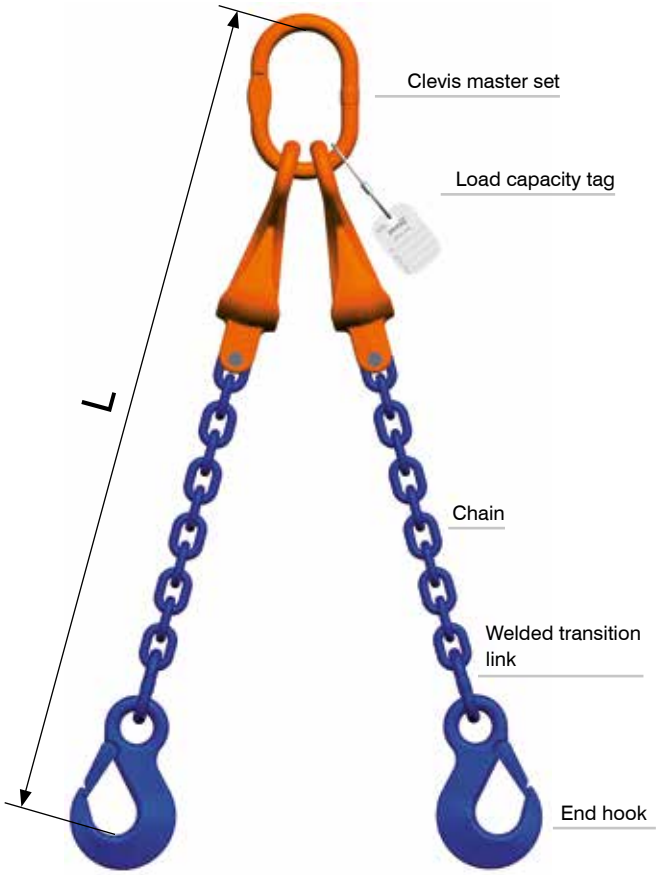
**Connex System:**

| WIN | 13 | 400 | II | VXKW | – | HSW | 3000 | Connex |
|---|---|---|---|---|---|---|---|---|
| Short designation of the chain | | | Number of legs | Clevis master set | | End hook | Length [mm] | Mounting type |




**Welded system:**

| WIN | 13 | 400 | II | VXKW | – | HSW | 3000 |
|---|---|---|---|---|---|---|---|
| Short designation of the chain | | | Number of legs | Clevis master set | | End hook | Length [mm] |



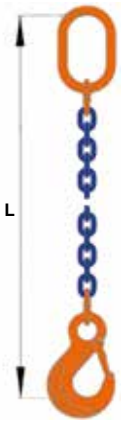

**Information:**
Information: Without the additional text „Connex“ at the end of the short chain sling designation, a sling chain in welded execution is automatically assumed.

# pewag winner standard sling types – perfect in the original!

If you require a sling type that is not listed here, please submit a small sketch indicating the required type.

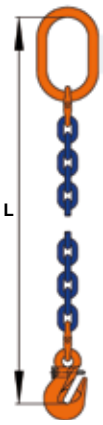
Important: Especially if you handle the assembly yourself, make sure that only pewag winner original parts are used! The usual tolerance of length “L” is +2 chain pitches.

The sling designation system is the same as that of G8. The additional “W“ in the code of the individual parts points to the higher quality grade.

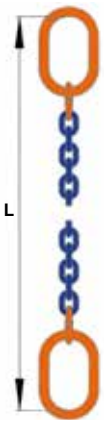



I AW-HSW Connex


I AW-LHW Connex



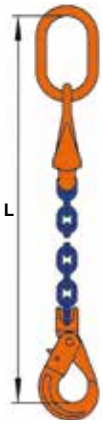

I AW-PSW Connex




I AW-AW Connex

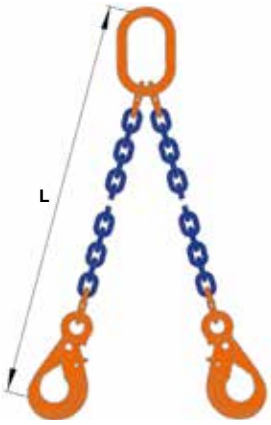

I PSW Connex


I HSW-HSW Connex

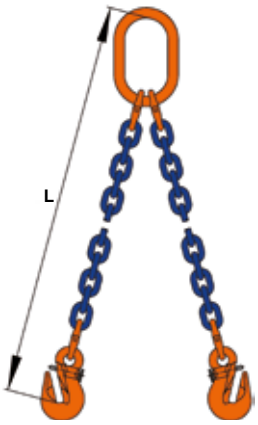



I VXKW-KLHW

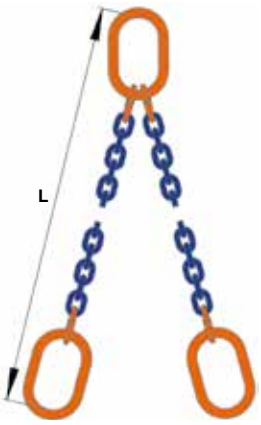

II AW-HSW Connex




II AW-LHW Connex

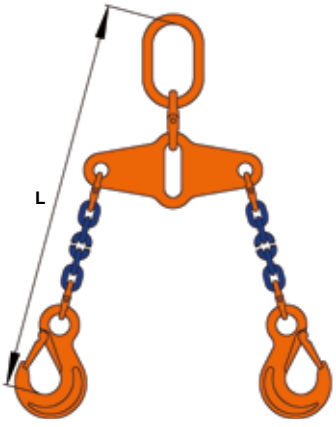



II AW-PSW Connex

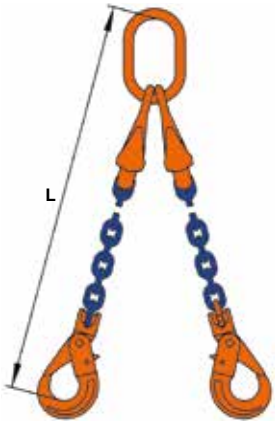



II AW-AW Connex

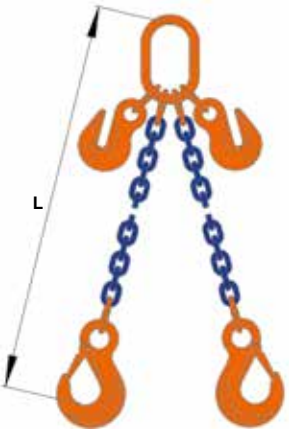

II VXKW-HSW Connex



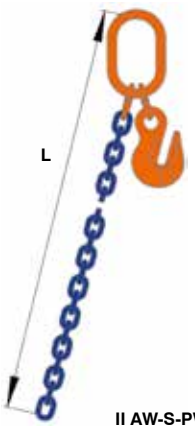

II AW-HSW-AGWW Connex



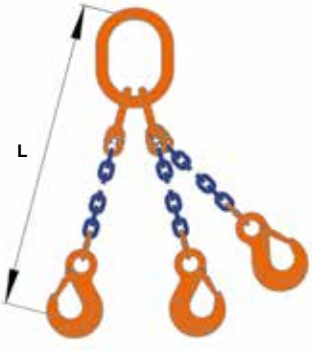

II VXKW-KLHW




II AW-HSW-PW Connex

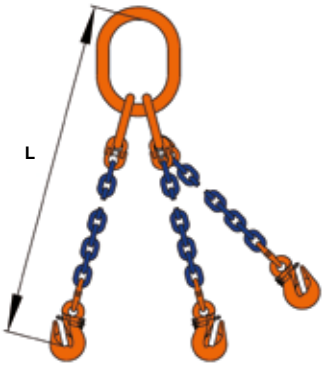



II AW-S-PW Connex

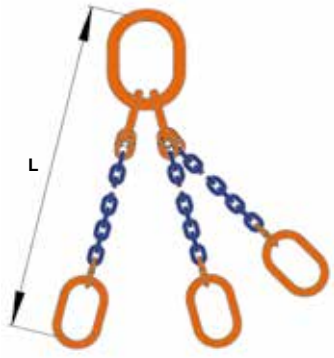



III VW-HSW Connex

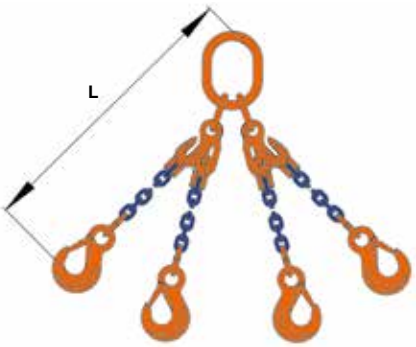

III VW-LHW Connex




III VW-PSW Connex



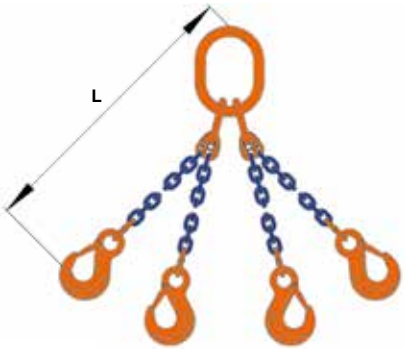

III VW-AW Connex



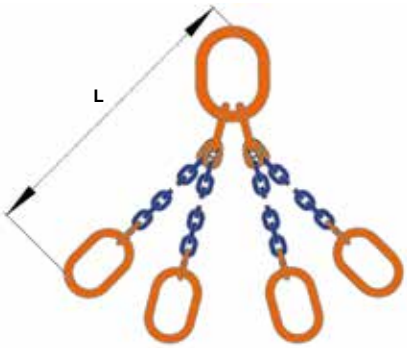

IV VXKW-HSW Connex


IV VW-HSW-AGWW Connex

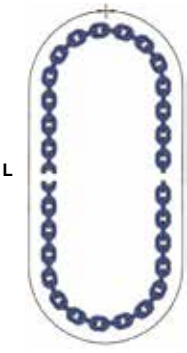

IV VXKW-KLHW



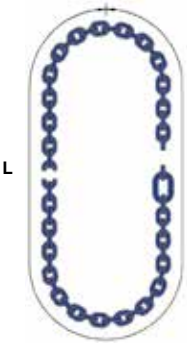

IV VW-HSW Connex




IV VW-AW Connex




S




**SK** (up from dimension 8!)


II AW-S Connex


IV VW-S Connex

# Chains in G10

## Product overview

**Content**



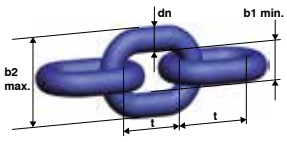
# pewag winner 400 Lifting chains

## Top performance as a matter of course.

These grade 10 high-duty chains are manufactured according to EN 818-2 with mechanical values for G10/PAS 1061. Further they are BG-approved and are ideal for the assembly of chain slings and lashing chains as well as for lifting and transporting loads. The permitted operating temperature ranges from -40 °C to + 380 °C

The standard surface is blue and the chains are available in dimensions from 5 to 32 mm. For more information, please refer to the full operating manual.

**winner 400 Lifting chains**




| Code | Nominal diameter dn [mm] | Standard delivery length [m] | Pitch t [mm] | Inside width b1 min. [mm] | Outside width b2 max. [mm] | Load capacity [kg] | Breaking force [kN] | Weight [kg/m] |
|---|---|---|---|---|---|---|---|---|
| WIN 5 400 | 5 | 50 | 16 | 7,50 | 18,50 | 1,000 | 39.30 | 0.61 |
| WIN 6 400 | 6 | 50 | 18 | 8,70 | 22,20 | 1,400 | 56.50 | 0.96 |
| WIN 7 400 | 7 | 50 | 21 | 9,50 | 25,20 | 1,900 | 77 | 1.20 |
| WIN 8 400 | 8 | 50 | 24 | 10,90 | 28,80 | 2,500 | 101 | 1.57 |
| WIN 10 400 | 10 | 50 | 30 | 13,50 | 36 | 4,000 | 157 | 2.46 |
| WIN 13 400 | 13 | 50 | 39 | 17,50 | 46,80 | 6,700 | 265 | 4.18 |
| WIN 16 400 | 16 | 25 | 48 | 21,50 | 57,60 | 10,000 | 402 | 6.28 |
| WIN 19 400 | 19 | 25 | 57 | 26,60 | 69,40 | 14,000 | 567 | 8.92 |
| WIN 22 400 | 22 | 25 | 66 | 29,50 | 79,20 | 19,000 | 760 | 11.88 |
| WIN 26 400 | 26 | 15 / 25 | 78 | 35 | 94 | 26,500 | 1,060 | 16.18 |
| WIN 32 400 | 32 | 15 | 96 | 43,20 | 115 | 40,000 | 1,610 | 24.10 |

The standard chain is painted blue, optionally also available with the tried-and -tested corropro coating PCP for maximum corrosion resistance.

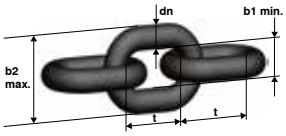
# pewag winner 200 Round steel chains

## As secure as the pro's.

These grade 10 high-duty chains are manufactured according to EN 818-2 modified with mechanical values for G 10.

The winner 200 round-steel chains are particularly suitable in lifting and lashing chains and withstand operating temperatures between -40 °C and +200 °C. These chains are available in dimensions from 5 to 32 mm and the standard surface is blasted and clear painted.

Please notice that they are not allowed for lifting chains in Austria.




| winner 200 Round steel chains | Code | Nominal diameter dn [mm] | Standard delivery length [m] | Pitch t [mm] | Inside width b1 min. [mm] | Outside width b2 max. [mm] | Load capacity [kg] | Breaking force [kN] | Weight [kg/m] |
|---|---|---|---|---|---|---|---|---|---|
| | WIN 5 200 | 5 | 50 / 100 | 16 | 7,50 | 18,50 | 1,000 | 39.30 | 0.61 |
| | WIN 6 200 | 6 | 50 / 200 | 18 | 8,70 | 21,60 | 1,400 | 56.50 | 0.96 |
| | WIN 7 200 | 7 | 50 / 250 / 300 | 21 | 9,50 | 25,20 | 1,900 | 77 | 1.20 |
| | WIN 8 200 | 8 | 50 / 50 / 200 / 250 | 24 | 10,90 | 28,80 | 2,500 | 101 | 1.57 |
| | WIN 10 200 | 10 | 50 / 130 / 150 | 30 | 13,50 | 37 | 4,000 | 157 | 2.46 |
| | WIN 13 200 | 13 | 50 / 75 / 100 | 39 | 17,50 | 46,80 | 6,700 | 265 | 4.18 |
| | WIN 16 200 | 16 | 25 / 50 / 100 | 48 | 21,50 | 57,60 | 10,000 | 402 | 6.28 |
| | WIN 19 200 | 19 | 25 / 35 / 50 | 57 | 26,60 | 69,40 | 14,000 | 567 | 8.92 |
| | WIN 22 200 | 22 | 25 / 30 | 66 | 29,50 | 79,20 | 19,000 | 760 | 11.88 |
| | WIN 26 200 | 26 | 25 | 78 | 35 | 94 | 26,500 | 1,060 | 16.18 |
| | WIN 32 200 | 32 | 20 | 96 | 43,20 | 115 | 40,000 | 1,610 | 24.10 |

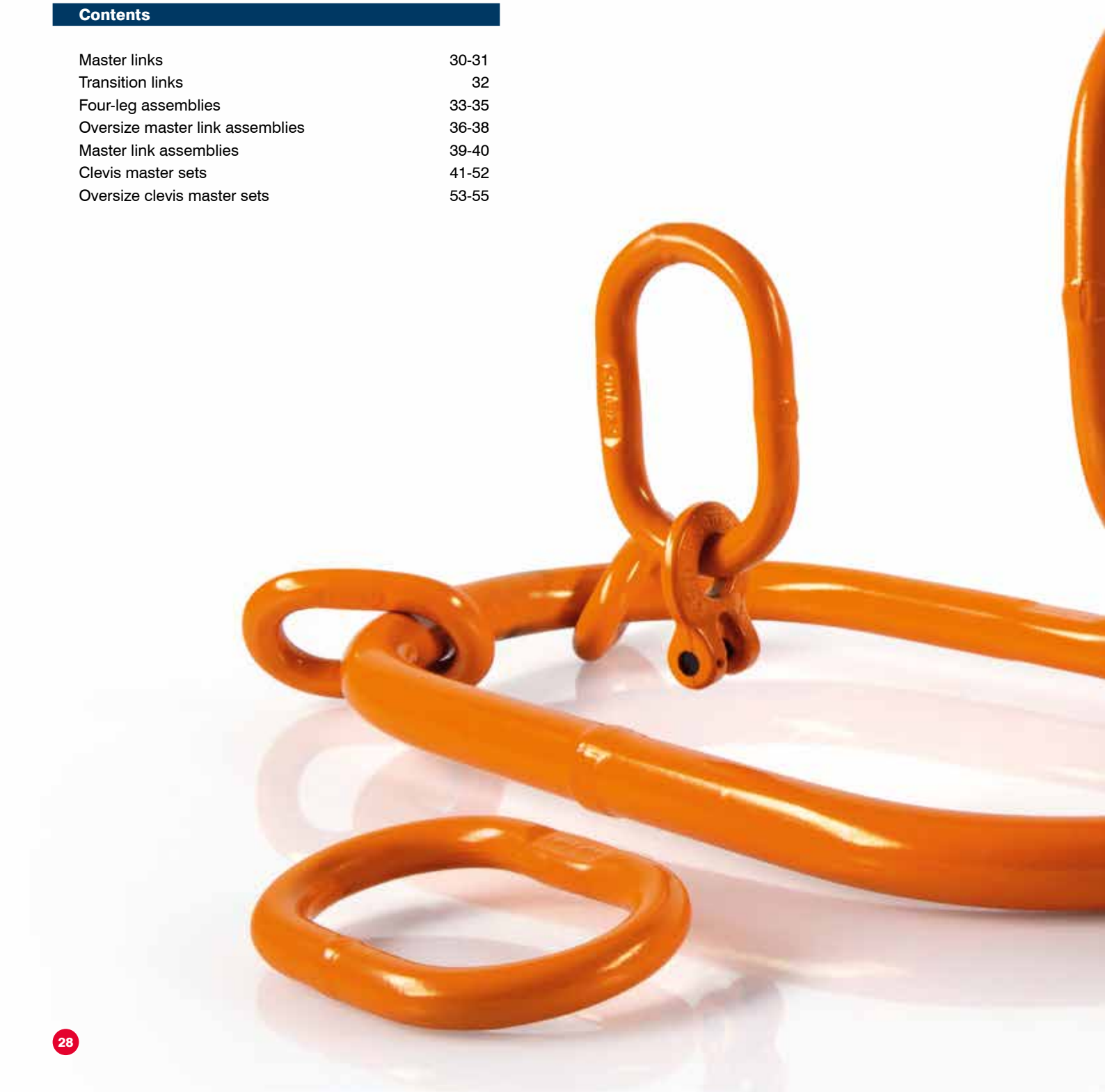
The chain is lack varnished, optionally also available with the tried-and-tested corropro coating PCP for maximum corrosion resistance.

# Master links and sub-assemblies in G10

## Product overview

**Contents**





# pewag AW Master link

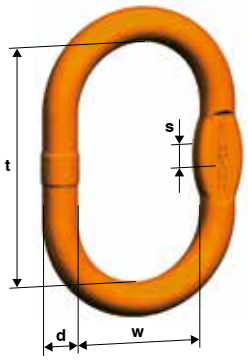
## Perfection from start to finish.

This master link is ideally suited for pewag Connex and as a component in the welded system. It may also be used as a master link for I-leg and II-leg slings.

For III- and IV-leg slings it can only be used in conjunction with BW transition links in VW IV-leg assemblies. Ideal for simple, speedy assembly of I- and II-leg chain slings using Connex connecting elements. May also be used as a master link in welded systems. Also suitable as an end link. See table for the maximum crane hook size as specified by DIN 15401 and DIN 15402.

The flattened section enables universal connecting options – an important benefit of this high-grade link. Links are manufactured according to EN 1677-4 with mechanical values for G10. BG-approval, CE-marking and full operating manual available.

**AW Master link**




| Code | Load capacity 0°-45° [kg] | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. | For 1-leg slings | For 2-leg slings |
|---|---|---|---|---|---|
| AW 10 | 1,400 | 1,6 | 2,5 | 5 | 5 |
| AW 13 | 2,300 | 2,5 | 4 | 6+7 | 6 |
| AW 16 | 3,500 | 2,5 | 4 | 8 | 7 |
| AW 18 | 5,000 | 5 | 6 | 10 | 8 |
| AW 22 | 7,600 | 6 | 8 | 13 | 10 |
| AW 26 | 10,000 | 8 | 10 | 16 | 13 |
| AW 32 | 14,000 | 10 | 12 | 19 | 16 |
| AW 36 | 25,100 | 16 | 20 | 22 | 19 |
| AW 45 | 30,800 | 25 | 32 | 26 | 22 |
| AW 50 | 40,000 | 32 | 40 | 32 | 26 |
| AW 56 | 64,000 | 32 | 40 | - | 32 |
| AW 72 | 85,000 | 50 | 63 | - | - |

| Code | d [mm] | t [mm] | w [mm] | s [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|
| AW 10 | 10 | 80 | 50 | 10 | 0,14 |
| AW 13 | 13 | 110 | 60 | 10 | 0,34 |
| AW 16 | 16 | 110 | 60 | 14 | 0,53 |
| AW 18 | 19 | 135 | 75 | 14 | 0,92 |
| AW 22 | 23 | 160 | 90 | 17 | 1,60 |
| AW 26 | 27 | 180 | 100 | 20 | 2,46 |
| AW 32 | 33 | 200 | 110 | 26 | 4,14 |
| AW 36 | 36 | 260 | 140 | 29 | 6,22 |
| AW 45 | 45 | 340 | 180 | - | 12,82 |
| AW 50 | 50 | 350 | 190 | 43 | 16,55 |
| AW 56 | 56 | 400 | 200 | - | 27,01 |
| AW 72 | 70 | 460 | 250 | - | 45,30 |

For chain sling load capacities, please refer to the table "pewag winner load capacities".

# pewag MW Enlarged master link

## Universally connected.

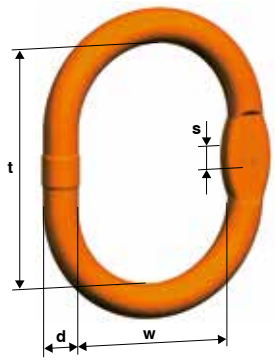
A flattened section on the master link opens up additional, universal connection possibilities. It is ideal for the simple, speedy assembly of I- and II-leg chains using Connex connecting elements, as a master link in welded systems and as an end link. Its inner dimensions are larger than those of the AW master link, making it suitable for larger crane hooks or special hooks.

The MW enlarged master link must not be used for IV-leg chains, except when combined with BW transition links in VMW IV-leg assemblies.

Manufactured according to EN 1677-4 with mechanical values according to G10. With CE-marking and full operating manual.

See table below for the maximum crane hook size as specified by DIN 15401 and DIN 15402.

**MW Enlarged master link**




| Code | Load capacity 0°-45° [kg] | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. | For 1-leg slings | For 2-leg slings |
|---|---|---|---|---|---|
| MW 10 | 1,400 | 2,5 | 4 | 5 | 5 |
| MW 13 | 2,300 | 4 | 5 | 6+7 | 6 |
| MW 16 | 3,200 | 5 | 6 | 8 | 7 |
| MW 18 | 4,200 | 6 | 8 | 10 | 8 |
| MW 22 | 6,700 | 10 | 12 | 13 | 10 |
| MW 26 | 10,100 | 10 | 12 | 16 | 13 |
| MW 32 | 16,000 | 12 | 16 | 19 | 16 |
| MW 36 | 21,200 | 20 | 25 | 22 | 19 |
| MW 56 | 40,000 | 50 | 63 | 32 | 26 |

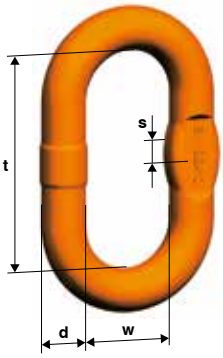
| Code | d [mm] | t [mm] | w [mm] | s [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|
| MW 10 | 11 | 90 | 65 | 10 | 0.22 |
| MW 13 | 14 | 120 | 70 | 10 | 0.44 |
| MW 16 | 16 | 140 | 80 | 13 | 0.71 |
| MW 18 | 19 | 160 | 95 | 14 | 1.09 |
| MW 22 | 23 | 170 | 105 | 17 | 1.74 |
| MW 26 | 27 | 190 | 110 | 20 | 2.65 |
| MW 32 | 33 | 230 | 130 | 26 | 4.78 |
| MW 36 | 38 | 275 | 150 | 29 | 7.48 |
| MW 56 | 56 | 350 | 250 | 46 | 21.98 |

# pewag BW Transition link

## Versatile by default.

This link is versatile. It can be used as a transition and as an end link in welded systems. The flattened section opens up universal connection possibilities. The CE-marking and BG-approval ensure flawless quality. This transition link is manufactured according to EN 1677-4 with mechanical values according to G10 and is supplied with a full operating manual, offering users outstanding versatility at the highest level.

**BW Transition link**




| Code | Load capacity 0°-45° [kg] | d [mm] | t [mm] | w [mm] | s [mm] | Weight [kg/pc.] | Transition link for chain Ø I- + II-leg BW I/II |
|---|---|---|---|---|---|---|---|
| BW 7 | 1,000 | 7 | 36 | 16 | - | 0.03 | 5 |
| BW 8 [1)] | 1,400 | 8 | 36 | 16 | - | 0.05 | 6 |
| BW 9 | 1,900 | 9 | 44 | 20 | - | 0.07 | 7 |
| BW 10 | 2,500 | 10 | 44 | 20 | - | 0.09 | 8 |
| BW 13 | 4,000 | 13 | 54 | 25 | 10 | 0.17 | 10 |
| BW 16 | 6,700 | 17 | 70 | 34 | 14 | 0.39 | 13 |
| BW 20 | 10,000 | 20 | 85 | 40 | 14 | 1.00 | 16 |
| BW 22 | 12,500 | 23 | 115 | 50 | 17 | 1.16 | - |
| BW 23 [1)] | 14,000 | 23 | 115 | 45 | 17 | 1.16 | 19 |
| BW 26 | 16,200 | 27 | 140 | 65 | 20 | 1.92 | - |
| BW 27 [1)] | 19,000 | 27 | 140 | 55 | 20 | 1.92 | 22 |
| BW 32 | 26,500 | 33 | 150 | 70 | 26 | 3.16 | 26 |
| BW 36 | 31,000 | 36 | 170 | 75 | - | 4.35 | - |
| BW 40 | 40,400 | 40 | 170 | 80 | - | 4.12 | 32 |
| BW 45 [1)] | 42,400 | 45 | 170 | 80 | - | 7.15 | - |
| BW 50 | 64,000 | 50 | 200 | 100 | - | 10.58 | - |

[1)] Only in welded systems.

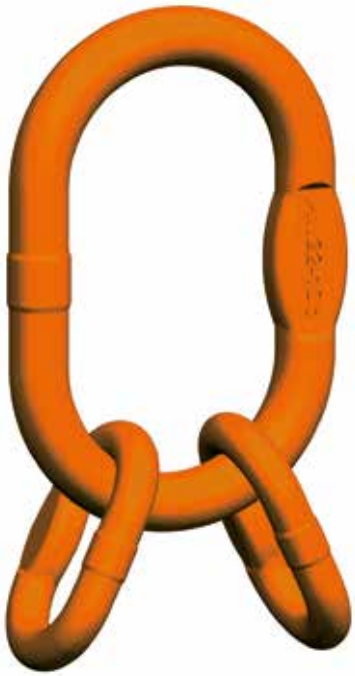
# pewag VW IV-leg Master link assembly

## Universal connection possibilities.

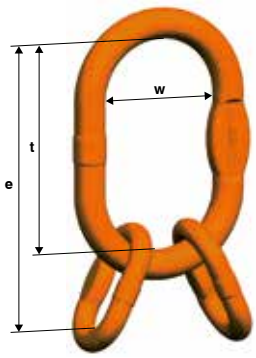
This standard master link assembly is ideal for preparing III- and IV-leg chain slings in assembled or welded systems. It is manufactured according to EN 1677-4 with mechanical values for G10.

A flattened section on the transition links open up additional, universal connection possibilities (measurements can be obtained from the product “BW”). Includes CE-marking, BG-approval and full operating manual.

See table for the maximum crane hook size as specified by DIN 15401 and DIN 15402.



**VW IV-leg Master link assembly**




| Code | Consisting of | Load capacity 0°-45° [kg] | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. |
|---|---|---|---|---|
| VW 5 | AW 13 + 2 BW 10 | 2,300 | 2,5 | 4 |
| VW 6 | AW 18 + 2 BW 13 | 4,200 | 5 | 6 |
| VW 7/8 | AW 22 + 2 BW 16 | 7,600 | 6 | 8 |
| VW 10 | AW 26 + 2 BW 20 | 9,600 | 8 | 10 |
| VW 13 | AW 32 + 2 BW 22 | 14,000 | 10 | 12 |
| VW 16 | AW 36 + 2 BW 26 | 21,200 | 16 | 20 |
| VW 19/20 | AW 50 + 2 BW 32 | 34,100 | 32 | 40 |
| VW 22 | AW 50 + 2 BW 36 | 40,000 | 32 | 40 |
| VW 26 | AW 56 + 2 BW 45 | 56,000 | 32 | 40 |
| VW 32 | AW 72 + 2 BW 50 | 85,000 | 50 | 63 |

| Code | e [mm] | t [mm] | w [mm] | Weight [kg/pc.] |
|---|---|---|---|---|
| VW 5 | 154 | 110 | 60 | 0.52 |
| VW 6 | 189 | 135 | 75 | 1.30 |
| VW 7/8 | 230 | 160 | 90 | 2.32 |
| VW 10 | 265 | 180 | 100 | 3.82 |
| VW 13 | 315 | 200 | 110 | 6.46 |
| VW 16 | 400 | 260 | 140 | 10.06 |
| VW 19/20 | 500 | 350 | 190 | 22.62 |
| VW 22 | 520 | 350 | 190 | 24.54 |
| VW 26 | 570 | 400 | 200 | 37.60 |
| VW 32 | 660 | 460 | 250 | 66.60 |

Please note that the allocation does not apply to suspension systems with a load distributor.

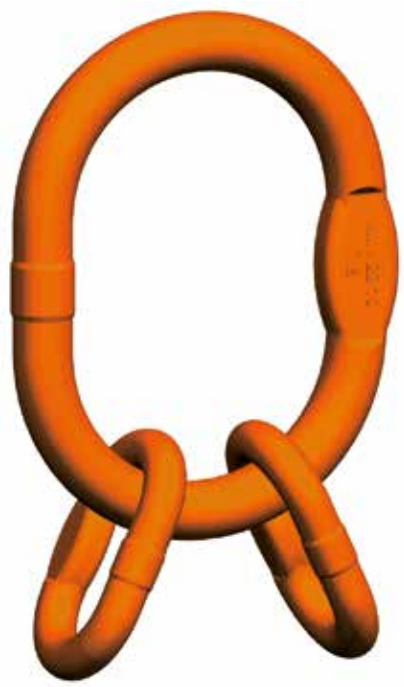
# pewag VMW Enlarged IV-leg master link assembly

## True greatness for your load.

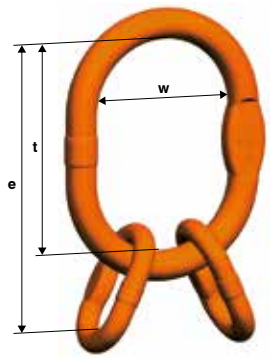
This master link assembly for III- and IV-leg chain slings in assembled or welded systems complies with EN 1677-4 and the mechanical values for G10.

A flattened section on the transition links opens up additional, universal connection possibilities (measurements can be obtained from the product “BW”). Thanks to the use of MW links, this master link assembly has larger inside dimensions than the VW IV-leg master link assembly and can thus also be used for the next size up crane hooks.

See table below for the maximum crane hook size as specified by DIN 15401 and DIN 15402. This powerful package comes with CE-marking and a full operating manual.



**VMW Enlarged IV-leg master link assembly**




| Code | Consisting of | Load capacity 0°-45° [kg] | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. |
|---|---|---|---|---|
| VMW 6 | MW 18 + 2 BW 13 | 4,200 | 6 | 8 |
| VMW 7/8 | MW 22 + 2 BW 16 | 6,600 | 10 | 12 |
| VMW 10 | MW 26 + 2 BW 20 | 10,100 | 10 | 12 |
| VMW 13 | MW 32 + 2 BW 22 | 15,700 | 12 | 16 |
| VMW 16 | MW 36 + 2 BW 26 | 21,200 | 20 | 25 |
| VMW 19/20 | MW 56 + 2 BW 32 | 34,100 | 50 | 63 |
| VMW 22 | MW 56 + 2 BW 36 | 40,000 | 50 | 63 |

| Code | e [mm] | t [mm] | w [mm] | Weight [kg/pc.] |
|---|---|---|---|---|
| VMW 6 | 214 | 160 | 95 | 1.43 |
| VMW 7/8 | 240 | 170 | 105 | 2.46 |
| VMW 10 | 275 | 190 | 110 | 4.01 |
| VMW 13 | 345 | 230 | 130 | 7.10 |
| VMW 16 | 415 | 275 | 150 | 11.30 |
| VMW 19/20 | 500 | 350 | 250 | 28.30 |
| VMW 22 | 520 | 350 | 250 | 30.22 |

Please note that the allocation does not apply to suspension systems with a load distributor.

# pewag VAW Special IV-leg master link assembly

## An XL range of applications.

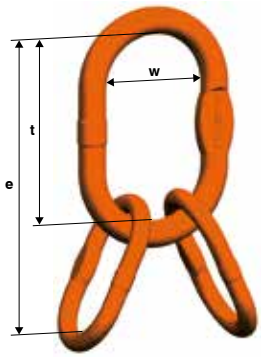
This IV-leg master link assembly can be used for III- and IV-leg chain slings in the assembled or welded system and is even more versatile due to universal connection possibilities.

If safety is your strongest argument, you can‘t do better than choose this IV-leg master link assembly with extra-large transition links for assembling your chain slings. For use in rope slings, please consider that load capacity is indicated with safety factor 4!

See table below for the maximum crane hook size as specified by DIN 15401 and DIN 15402. For the detailed measurements of the single components please refer to the product “AW”.

The chain sling complies with EN 1677-4 and the mechanical values for G10. Includes CE-marking, BG-approval and full operating manual.

**VAW Special IV-leg master link assembly**




| Code | Consisting of | Load capacity 0°-45° [kg] | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. |
|---|---|---|---|---|
| VAW 6/7 | AW 18 + 2 AW 14 | 5,000 | 5 | 6 |
| VAW 8 | AW 22 + 2 AW 16 | 6,300 | 6 | 8 |
| VAW 10 | AW 26 + 2 AW 18 | 9,500 | 8 | 10 |
| VAW 13 | AW 32 + 2 AW 26 | 16,100 | 10 | 12 |
| VAW 16 | AW 36 + 2 AW 32 | 25,100 | 16 | 20 |
| VAW 19/20 | AW 50 + 2 MW 36 | 41,100 | 32 | 40 |
| VAW 22 | AW 50 + 2 AW 45 | 47,400 | 32 | 40 |
| VAW 26 | AW 56 + 2 AW 50 | 58,000 | 32 | 40 |
| VAW 32 | AW 72 + 2 AW 56 | 85,000 | 50 | 63 |

| Code | e [mm] | t [mm] | w [mm] | Weight [kg/pc.] |
|---|---|---|---|---|
| VAW 6/7 | 245 | 135 | 75 | 1.72 |
| VAW 8 | 270 | 160 | 90 | 2.66 |
| VAW 10 | 315 | 180 | 100 | 4.30 |
| VAW 13 | 380 | 200 | 110 | 9.06 |
| VAW 16 | 460 | 260 | 140 | 14.53 |
| VAW 19/20 | 625 | 350 | 190 | 31.51 |
| VAW 22 | 690 | 350 | 190 | 42.19 |
| VAW 26 | 750 | 400 | 200 | 56.40 |
| VAW 32 | 860 | 460 | 250 | 99.02 |

Please note that the allocation does not apply to suspension systems with a load distributor.

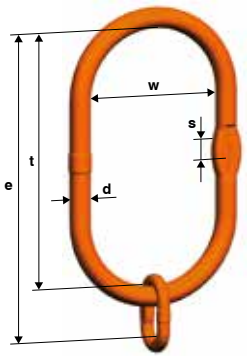
# pewag VLW 1 Master link assembly

## Compelling simplicity.

This master link assembly for I-leg chain slings in assembled or welded systems complies with EN 1677-4 and the mechanical values for G10. Extra-large rings make this master link assembly the perfect partner for crane hooks according to DIN 15401 up to no. 25 and according to DIN 15402 up to no. 32. A flattened section on the transition links open up additional, universal connection possibilities (measurements can be obtained from the product “BW”).

This true all-rounder comes with a full operating manual. CE-marking and BG-approval ensure quality of the highest order.

**VLW 1 Master link assembly**




| Code | Consisting of | Load capacity [kg] | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. |
|---|---|---|---|---|
| VLW 1-6/7/8 | LW 22 + BW 13 | 2,500 | 25 | 32 |
| VLW 1-10 | LW 27 + BW 16 | 4,000 | 25 | 32 |
| VLW 1-13 | LW 27 | 6,700 | 25 | 32 |
| VLW 1-16 | LW 32 | 10,000 | 25 | 32 |
| VLW 1-19/22 | LW 40 | 19,000 | 25 | 32 |

| Code | e [mm] | d [mm] | t [mm] | w [mm] | s [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|
| VLW 1-6/7/8 | 394 | 23 | 340 | 180 | 17 | 3.37 |
| VLW 1-10 | 410 | 27 | 340 | 180 | 20 | 4.76 |
| VLW 1-13 | 340 | 27 | 340 | 180 | 20 | 4.40 |
| VLW 1-16 | 340 | 33 | 340 | 180 | 27 | 6.70 |
| VLW 1-19/22 | 340 | 40 | 340 | 180 | 29 | 10.00 |

**Example:** VLW 1-6/7/8 can be used for I-leg slings with 6 mm, 7 mm and 8 mm chains.

# pewag VLW 2/4 Master link assembly

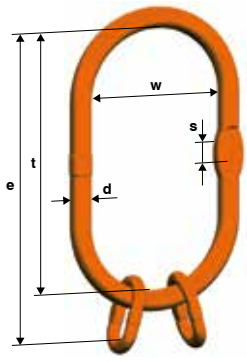
## Effortless adaptability.

This master link assembly is designed for the effortless creation of II- and IV-leg chain slings in the assembled or welded system. The flattened section on the transition links opens up additional, universal connection possibilities (measurements can be obtained from the product “BW”).

Extra-large rings make this master link assembly the perfect partner for crane hooks according to DIN 15401 up to no. 25 and according to DIN 15402 up to no. 32. This master link assembly also comes with CE-marking and BG-approval and was manufactured according to EN 1677-4, with the mechanical values of the G10 programme.

A full operating manual provides detailed information on all potential areas of use.

**VLW 2/4 Master link assembly**




| Code | Consisting of | Load capacity 0°-45° [kg] | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. | For 2-leg slings | For 3- and 4-leg slings |
|---|---|---|---|---|---|---|
| VLW 2-6/7/8/4-6 | LW 22 + 2 BW 13 | 3,550 | 25 | 32 | 6/7/8 | 6 |
| VLW 2-10/4-7/8 | LW 27 + 2 BW 16 | 5,600 | 25 | 32 | 10 | 7/8 |
| VLW 2-13/4-10 | LW 32 + 2 BW 20 | 9,500 | 25 | 32 | 13 | 10 |
| VLW 2-16/4-13 | LW 40 + 2 BW 22 | 14,000 | 25 | 32 | 16 | 13 |
| VLW 2-19/4-16 | LW 40 + 2 BW 26 | 21,200 | 25 | 32 | 19 | 16 |

| Code | e [mm] | d [mm] | t [mm] | w [mm] | s [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|
| VLW 2-6/7/8/4-6 | 394 | 23 | 340 | 180 | 17 | 3.54 |
| VLW 2-10/4-7/8 | 410 | 27 | 340 | 180 | 20 | 5.12 |
| VLW 2-13/4-10 | 425 | 33 | 340 | 180 | 27 | 7.81 |
| VLW 2-16/4-13 | 455 | 40 | 340 | 180 | 29 | 12.32 |
| VLW 2-19/4-16 | 480 | 40 | 340 | 180 | 29 | 13.84 |

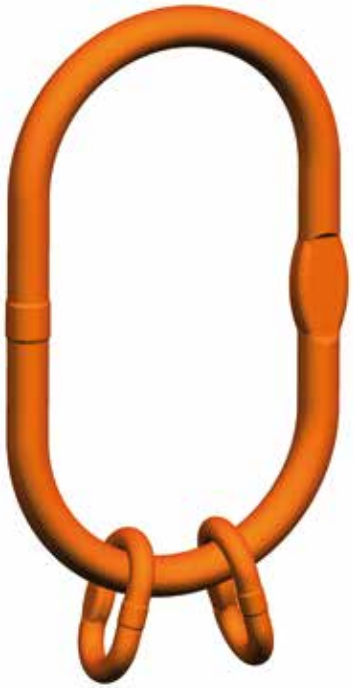
**Example of multi-leg chain sling:** VLW 2-10/4-7/8 can be used for 10 mm II-leg slings and for 7+8 mm IV-leg slings.

# pewag VSW 2/4 Oversize master link assembly

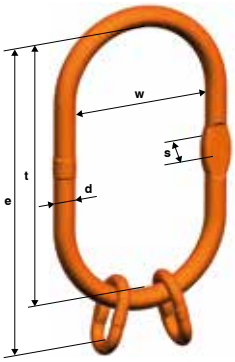
## Versatile and effortless adaptability.

This master link assembly is designed for the effortless creation of II- and IV-leg chain slings in the assembled or welded system. The flattened section on the transition links opens up additional, universal connection possibilities. Extra-large rings make this master link assembly the perfect partner for crane hooks according to DIN 15401 up to no. 40 and according to DIN 15402 up to no. 50. This master link assembly also comes with CE marking and was manufactured according to EN 1677-4, with the mechanical values of the G10 programme.

A full operating manual provides detailed information on all potential areas of use.



**VSW 2/4 Oversize master link assembly**




| Code | Consisting of | Load capacity 0°-45° [kg] | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. | For 2-leg slings | For 3- and 4-leg slings |
|---|---|---|---|---|---|---|
| VSW 2-10 / 4-8 | SW 30 + 2 BW 20 | 5,600 | 40 | 50 | 10 | 8 |
| VSW 2-13 / 4-10 | SW 33 + 2 BW 20 | 9,500 | 40 | 50 | 13 | 10 |
| VSW 2-16 / 4-13 | SW 36 + 2 BW 22 | 14,000 | 40 | 50 | 16 | 13 |
| VSW 2-19/20 / 4-16 | SW 45 + 2 BW 26 | 21,200 | 40 | 50 | 19/20 | 16 |

| Code | e [mm] | d [mm] | t [mm] | w [mm] | s [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|
| VSW 2-10 / 4-8 | 515 | 30 | 430 | 220 | 24 | 8.16 |
| VSW 2-13 / 4-10 | 515 | 33 | 430 | 220 | 26 | 9.66 |
| VSW 2-16 / 4-13 | 545 | 36 | 430 | 220 | 29 | 12.32 |
| VSW 2-19/20 / 4-16 | 570 | 45 | 430 | 220 | - | 19.54 |

**Example of multi-leg chain sling:** VSW 2-10/4-8 can be used for 10 mm II-leg slings and for 8 mm IV-leg slings.

# pewag VSAW 1 Master link assembly

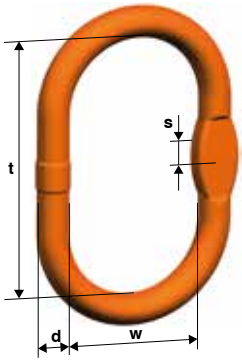
## A simple case of excellence.

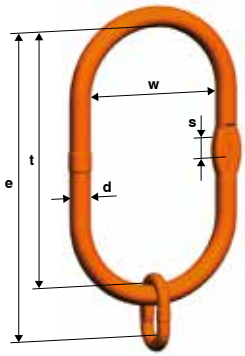
Ideal for the quick and safe mounting of transition assemblies. These master links make it possible to create extremely short assemblies, facilitating the switch from a large to a small crane hook - useful in many lifting and transport processes!

This standard master link assembly is ideal for preparing I-leg chain slings in assembled or welded systems and have a load capacity of up to 40,000 kg. Extra-large internal ring dimensions that are suitable for single hooks according to DIN 15401 no. 50/100 or for double hooks according to DIN 15402 no. 63/125 are yet another outstanding feature of these products.

A flattened ring section opens up universal adaptation possibilities that are also outlined in the full operating manual. The assemblies are manufactured according to EN 1677-4 with the mechanical values of G10 and come with a CE marking for certified quality.

**VSAW 1 Master link assembly**




| Code | Consisting of | Load capacity [kg] | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. |
|---|---|---|---|---|
| VSAW 1-10/13 | SAW 32+BW 20 | 10,000 | 50 | 63 |
| VSAW 1-16 | SAW 32 | 10,000 | 50 | 63 |
| VSAW 1-19 | SAW 40 | 16,000 | 50 | 63 |
| VSAW 1-22 | SAW 45 | 22,400 | 50 | 63 |
| VSAW 1-26 | SAW 50 | 33,600 | 50 | 63 |
| VSAW 1-32 | SAW 56 | 40,000 | 50 | 63 |
| VSAW 1-32 / 320 | SAW 60 | 40,000 | 100 | 125 |

| Code | e [mm] | d [mm] | t [mm] | w [mm] | s [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|
| VSAW 1-10/13 | 585 | 33 | 500 | 250 | 26 | 10.00 |
| VSAW 1-16 | 500 | 33 | 500 | 250 | 26 | 9.32 |
| VSAW 1-19 | 460 | 40 | 460 | 250 | 32 | 13.12 |
| VSAW 1-22 | 500 | 45 | 500 | 250 | - | 17.80 |
| VSAW 1-26 | 460 | 50 | 460 | 250 | 43 | 20.98 |
| VSAW 1-32 | 460 | 56 | 460 | 250 | - | 26.68 |
| VSAW 1-32 / 320 | 800 | 60 | 800 | 320 | 54 | 48.00 |

For chain sling load capacities, please refer to the table "pewag winner load capacities".

**Example:** VSAW 1-10/13 may be used for I-leg chain slings with a 10 mm or 13 mm chain.

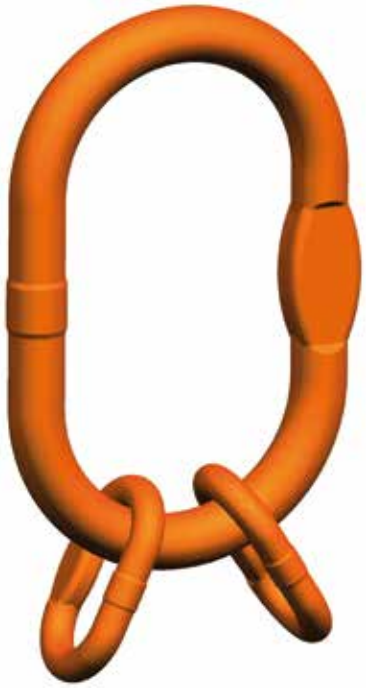
# pewag VSAW 2 Master link assembly

## Two legs in G10.

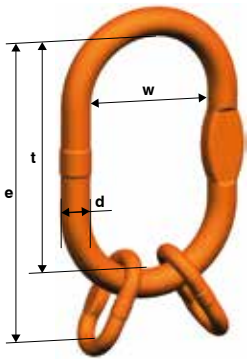
The VSAW 2 assembly comes with the same benefits as the VSAW 1 assembly and can also be used to create transition assemblies. This system is ideal for simplifying lifting and transport processes as it enables the creation of very short transition assemblies, thereby facilitating the switch from a large to a small crane hook.

With a load capacity of up to 40,000 kg, these master links may be used to create II-, III- and IV-leg chain slings in the assembled or welded system. The flattened section on the rings make them universally adaptable and the extra-large interior dimensions of the rings make them easy to use with single hooks according to DIN 15401 no. 50/100 or double hooks according to DIN 15402 no. 63/125.

The assemblies are manufactured according to EN 1677-4 with the mechanical values of G10 and come with a CE-marking for certified quality. A full operating manual is provided.



**VSAW 2 Master link assembly**




| Code | Consisting of | Load capacity 0°-45° [kg] | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. | For 2-leg slings | For 3- and 4-leg slings |
|---|---|---|---|---|---|---|
| VSAW 2-10/13 / 4-10 | SAW 32 + 2 BW 20 | 9,500 | 50 | 63 | 10/13 | 10 |
| VSAW 2-16 / 4-13 | SAW 40 + 2 BW 22 | 14,000 | 50 | 63 | 16 | 13 |
| VSAW 2-19/20 / 4-16 | SAW 45 + 2 BW 26 | 21,200 | 50 | 63 | 19/20 | 16 |
| VSAW 2-22 / 4-19/20 | SAW 50 + 2 BW 32 | 30,000 | 50 | 63 | 22 | 19/20 |
| VSAW 2-26 / 4-22 | SAW 56 + 2 BW 32 | 40,000 | 50 | 63 | 26 | 22 |
| VSAW 2-26 / 4-22 / 320 | SAW 60 + 2 BW 32 | 40,000 | 100 | 125 | 26 | 22 |

| Code | e [mm] | d [mm] | t [mm] | w [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|
| VSAW 2-10/13 / 4-10 | 585 | 33 | 500 | 250 | 10.68 |
| VSAW 2-16 / 4-13 | 575 | 40 | 460 | 250 | 15.44 |
| VSAW 2-19/20 / 4-16 | 640 | 45 | 500 | 250 | 21.64 |
| VSAW 2-22 / 4-19/20 | 610 | 50 | 460 | 250 | 27.30 |
| VSAW 2-26 / 4-22 | 610 | 56 | 460 | 250 | 34.92 |
| VSAW 2-26 / 4-22 / 320 | 950 | 60 | 800 | 320 | 56.24 |

**Example:** VSAW 2-10/13 /4-10 may be used for II-leg chains with a 10 mm or 13 mm chain.

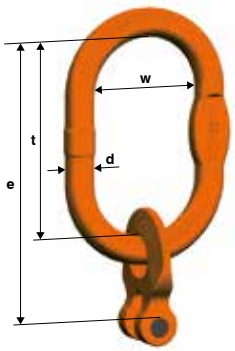
# pewag KAGW 1 Clevis master set

## Mission accomplished.

This high-performance master set consists of an AW master ring and a welded-in KRW captive coupling for creating I-leg chain slings in the assembled system. The chain is mounted directly into the coupling, thereby eliminating the need for an additional connecting link. This product is easily assembled and disassembled by a competent person – no special tools required!

It is manufactured according to EN 818-4 with the mechanical values of G10, comes with a CE-mark and BG-approval and with a comprehensive operating manual. The coupling pin and the lock pin are available as a KBSW spare parts set.

**KAGW 1 Clevis master set**




| Code | Load capacity [kg] | For chain-Ø | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. |
|---|---|---|---|---|
| KAGW 1-6 [1] | 1,400 | 6 | 2,5 | 4 |
| KAGW 1-7 | 1,900 | 7 | 2,5 | 4 |
| KAGW 1-8 | 2,500 | 8 | 2,5 | 4 |
| KAGW 1-10 | 4,000 | 10 | 5 | 6 |
| KAGW 1-13 | 6,700 | 13 | 6 | 8 |
| KAGW 1-16 | 10,000 | 16 | 8 | 10 |
| KAGW 1-19/20 | 14,000 | 19 | 10 | 12 |
| KAGW 1-22 | 19,000 | 22 | 16 | 20 |

| Code | e [mm] | d [mm] | t [mm] | w [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|
| KAGW 1-6 [1] | 141 | 13 | 110 | 60 | 0.48 |
| KAGW 1-7 | 153 | 13 | 110 | 60 | 0.58 |
| KAGW 1-8 | 153 | 16 | 110 | 60 | 0.77 |
| KAGW 1-10 | 186 | 19 | 135 | 75 | 1.34 |
| KAGW 1-13 | 223 | 23 | 160 | 90 | 2.44 |
| KAGW 1-16 | 254 | 27 | 180 | 100 | 3.95 |
| KAGW 1-19/20 | 294 | 33 | 200 | 110 | 7.41 |
| KAGW 1-22 | 362 | 36 | 260 | 140 | 11.11 |

[1] May also be used with a 5 mm chain if load capacity is adjusted accordingly.

**Example:** KAGW 1-10 may be used for I-leg chain slings with a 10 mm chain.

# pewag KAGW 2 Clevis master set

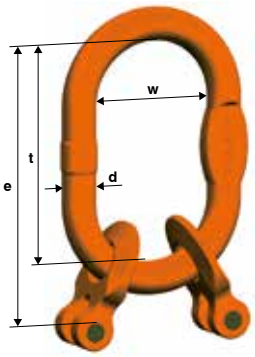
## Coupled for life.

The chain is mounted directly into the coupling, thereby eliminating the need for an additional connecting link. This master set, consisting of an AW master ring and two welded-in KRW captive couplings, is easy to assemble and disassemble for the creation of II-leg chain slings in the assembled system. The set is manufactured according to EN 818-4 with mechanical values for G10.

This clevis master set comes with CE-marking and BG-approval. Assembly may be performed by a competent person without special tools being required.

The coupling pin and the lock pin are available as a KBSW spare parts set. A full operating manual is provided.

**KAGW 2 Clevis master set**




| Code | Load capacity 0°-45° [kg] | Load capacity 45°-60° [kg] | For chain-Ø | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. |
|---|---|---|---|---|---|
| KAGW 2-6 [1] | 2,000 | 1,400 | 6 | 2,5 | 4 |
| KAGW 2-7 | 2,650 | 1,900 | 7 | 2,5 | 4 |
| KAGW 2-8 | 3,550 | 2,500 | 8 | 5 | 6 |
| KAGW 2-10 | 5,600 | 4,000 | 10 | 6 | 8 |
| KAGW 2-13 | 9,500 | 6,700 | 13 | 8 | 10 |
| KAGW 2-16 | 14,000 | 10,000 | 16 | 10 | 12 |
| KAGW 2-19/20 | 20,000 | 14,000 | 19 | 16 | 20 |
| KAGW 2-22 | 26,500 | 19,000 | 22 | 25 | 32 |

| Code | e [mm] | d [mm] | t [mm] | w [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|
| KAGW 2-6 [1] | 141 | 13 | 110 | 60 | 0.59 |
| KAGW 2-7 | 153 | 16 | 110 | 60 | 0.97 |
| KAGW 2-8 | 178 | 19 | 135 | 75 | 1.38 |
| KAGW 2-10 | 211 | 23 | 160 | 90 | 2.40 |
| KAGW 2-13 | 243 | 27 | 180 | 100 | 4.13 |
| KAGW 2-16 | 274 | 33 | 200 | 110 | 6.97 |
| KAGW 2-19/20 | 354 | 36 | 260 | 140 | 11.75 |
| KAGW 2-22 | 442 | 45 | 340 | 180 | 21.51 |

[1] May also be used with a 5 mm chain if load capacity is adjusted accordingly.

**Example:** KAGW 2-10 may be used for II-leg chain slings with a 10 mm chain.

# pewag KAGW 4 Clevis master set

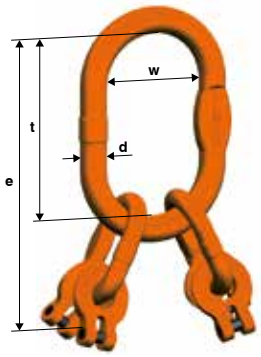
## Extra legroom.

This high-grade KAGW master set consists of a VW IV-leg assembly and four welded-in KRW captive couplings for the creation of IV-leg chain slings in the assembled system.

The chain is mounted directly into the coupling, thereby eliminating the need for an additional connecting link. A competent person will assemble and disassemble the system easily and quickly, without the need for special tools.

The clevis master set is manufactured according to EN 818-4 with mechanical values for G10. A full operating manual, CE-marking and BG-approval vouchsafe for the safety of this system.
The coupling pin and the lock pin are available as a KBSW spare parts set.

**KAGW 4 Clevis master set**




| Code | Load capacity 0°-45° [kg] | Load capacity 45°-60° [kg] | For chain-Ø | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. |
|---|---|---|---|---|---|
| KAGW 4-6 [1] | 3,000 | 2,120 | 6 | 5 | 6 |
| KAGW 4-7 | 4,000 | 2,800 | 7 | 6 | 8 |
| KAGW 4-8 | 5,300 | 3,750 | 8 | 6 | 8 |
| KAGW 4-10 | 8,000 | 6,000 | 10 | 8 | 10 |
| KAGW 4-13 | 14,000 | 10,000 | 13 | 10 | 12 |
| KAGW 4-16 | 21,200 | 15,000 | 16 | 16 | 20 |
| KAGW 4-19/20 | 30,000 | 21,200 | 19 | 32 | 40 |
| KAGW 4-22 | 40,000 | 28,000 | 22 | 32 | 40 |

| Code | e [mm] | d [mm] | t [mm] | w [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|
| KAGW 4-6 [1] | 220 | 19 | 135 | 75 | 1.77 |
| KAGW 4-7 | 273 | 23 | 160 | 90 | 3.21 |
| KAGW 4-8 | 273 | 23 | 160 | 90 | 3.22 |
| KAGW 4-10 | 316 | 27 | 180 | 100 | 5.36 |
| KAGW 4-13 | 378 | 33 | 200 | 110 | 10.51 |
| KAGW 4-16 | 474 | 36 | 260 | 140 | 16.43 |
| KAGW 4-19/20 | 594 | 50 | 350 | 190 | 32.92 |
| KAGW 4-22 | 622 | 50 | 350 | 190 | 41.07 |

[1] May also be used with a 5 mm chain if load capacity is adjusted accordingly.

**Example:** KAGW 4-10 may be used for IV-leg chain slings with a 10 mm chain.

# pewag KMGW 1 Enlarged clevis master set

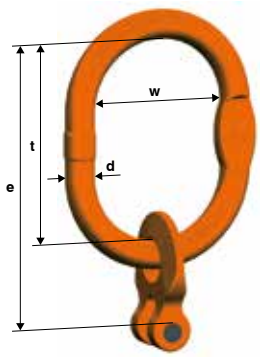
## Your crane hook in good hands.

The MW master ring and the welded-in KRW captive coupling are the perfect pair for creating I-leg chain slings in the assembled system. The chain is mounted directly in the coupling, thereby eliminating the need for an additional connecting link.

Disassembly is also simple and can be completed without special tools. However, make sure that it is performed by a competent person. An extra plus result from the enlarged internal dimensions of the master ring, which make it suitable for the next size up crane hook.

The set is manufactured according to EN 818-4 with mechanical values for G10 and comes with CE-marking and a full operating manual. The coupling pin and the lock pin are available as a KBSW spare parts set.

**KMGW 1 Enlarged clevis master set**




| Code | Load capacity [kg] | For chain-Ø | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. |
|---|---|---|---|---|
| KMGW 1-6 [1] | 1,400 | 6 | 4 | 5 |
| KMGW 1-8 | 2,500 | 8 | 5 | 6 |
| KMGW 1-10 | 4,000 | 10 | 6 | 8 |
| KMGW 1-13 | 6,700 | 13 | 10 | 12 |
| KMGW 1-16 | 10,000 | 16 | 10 | 12 |

| Code | e [mm] | d [mm] | t [mm] | w [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|
| KMGW 1-6 [1] | 151 | 14 | 120 | 70 | 0.63 |
| KMGW 1-8 | 183 | 16 | 140 | 80 | 0.91 |
| KMGW 1-10 | 211 | 19 | 160 | 95 | 1.53 |
| KMGW 1-13 | 233 | 23 | 170 | 105 | 2.58 |
| KMGW 1-16 | 264 | 27 | 190 | 110 | 4.14 |

[1] May also be used with a 5 mm chain if load capacity is adjusted accordingly.

**Example:** KMGW 1-10 may be used for I-leg chain slings with a 10 mm chain.

# pewag KMGW 2 Enlarged clevis master set

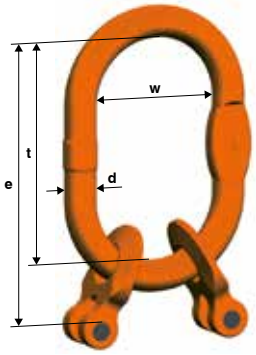
## Assurance, double sure.

The chain is mounted directly into the captive coupling, eliminating the need for an additional connecting link. This makes the master set with a MW master ring and two welded-in KRW captive couplings even better suited for creating II-leg chain slings in the assembled system. Product features include easy assembly and disassembly by a competent person without the need for special tools – benefits that speak for themselves! Extra-large internal dimensions of the master ring also make this system suitable for the next size up crane hook.

The set comes with a full operating manual. A CE-marking is standard. The extra-large clevis master set is manufactured according to EN 818-4 with mechanical values for G10.

Coupling bolt and lock pin are available as a KBSW spare parts set – yet another weighty benefit of this set!

**KMGW 2 Enlarged clevis master set**




| Code | Load capacity 0°-45° [kg] | Load capacity 45°-60° [kg] | For chain-Ø | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. |
|---|---|---|---|---|---|
| KMGW 2-6 [1] | 2,000 | 1,400 | 6 | 4 | 5 |
| KMGW 2-8 | 3,550 | 2,500 | 8 | 6 | 8 |
| KMGW 2-10 | 5,600 | 4,000 | 10 | 10 | 12 |
| KMGW 2-13 | 9,500 | 6,700 | 13 | 10 | 12 |
| KMGW 2-16 | 14,000 | 10,000 | 16 | 12 | 16 |

| Code | e [mm] | d [mm] | t [mm] | w [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|
| KMGW 2-6 [1] | 151 | 14 | 120 | 70 | 0.69 |
| KMGW 2-8 | 203 | 19 | 160 | 95 | 1.58 |
| KMGW 2-10 | 221 | 23 | 170 | 105 | 2.54 |
| KMGW 2-13 | 253 | 27 | 190 | 110 | 4.32 |
| KMGW 2-16 | 304 | 33 | 230 | 130 | 8.47 |

[1] May also be used with a 5 mm chain if load capacity is adjusted accordingly.

**Example:** KMGW 2-10 may be used for II-leg chain slings with a 10 mm chain.

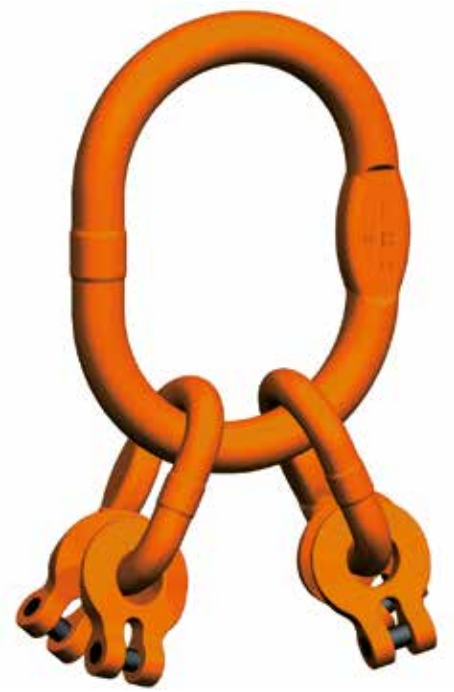
# pewag KMGW 4 Enlarged clevis master set

## Four-fold strength that withstands anything.

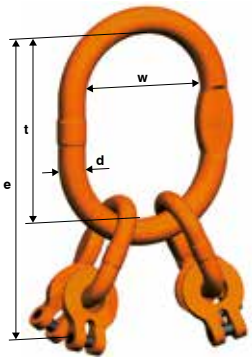
This clevis master set is manufactured according to EN 818-4 with mechanical values of G10 and consists of the VMW enlarged IV-leg master link assembly and four welded-in KRW captive couplings. This master set is ideal for the creation of IV-leg chain slings in the assembled system. The chain may simply be mounted directly into the captive coupling by a competent person, without the need for special tools. Disassembly is also easy and fast.

Enlarged internal dimensions of the master ring make this product suitable for the next size up crane hook – one of the outstanding pewag features! The coupling pin and the lock pin are available as KBSW spare parts sets.

This four-fold package comes with CE-marking and a full operating manual.



**KMGW 4 Enlarged clevis master set**




| Code | Load capacity 0°-45° [kg] | Load capacity 45°-60° [kg] | For chain-Ø | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. |
|---|---|---|---|---|---|
| KMGW 4-6 [1] | 3,000 | 2,120 | 6 | 6 | 8 |
| KMGW 4-8 | 5,300 | 3,750 | 8 | 10 | 12 |
| KMGW 4-10 | 8,000 | 6,000 | 10 | 10 | 12 |
| KMGW 4-13 | 14,000 | 10,000 | 13 | 12 | 16 |
| KMGW 4-16 | 21,200 | 15,000 | 16 | 20 | 25 |

| Code | e [mm] | d [mm] | t [mm] | w [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|
| KMGW 4-6 [1] | 245 | 19 | 160 | 95 | 1.94 |
| KMGW 4-8 | 283 | 23 | 170 | 105 | 3.36 |
| KMGW 4-10 | 326 | 27 | 190 | 110 | 5.55 |
| KMGW 4-13 | 408 | 33 | 230 | 130 | 11.15 |
| KMGW 4-16 | 489 | 38 | 275 | 150 | 17.67 |

[1] May also be used with a 5 mm chain if load capacity is adjusted accordingly.

**Example:** KMGW 4-10 may be used for IV-leg chain slings with a 10 mm chain.

# pewag VXKW 1 Clevis master set

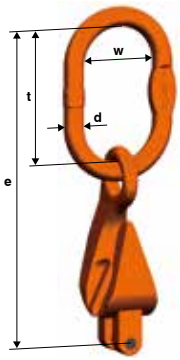
## A leg to stand on.

Trust is good, control is better - and this assembly delivers on both accounts. This safety product complies with EN 818-4 and has the mechanical values of G10. The chain is mounted directly into the coupling unit of the shortening element, thereby eliminating the need for an additional connecting link. The hook functions both as a connecting link and a shortening element, making for simple assembly and disassembly by a competent person, without the need for special tools.

This master set consists of a AW master ring and a welded-in XKW shortening hook for the creation of l-leg chain slings in the assembled system.

CE-marking and BG-approval are guaranteed and a full operating manual is included. The coupling pin and the lock pin are available as a KBSW spare parts set.

**VXKW 1 Clevis master set**




| Code | Load capacity [kg] | For chain-Ø | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. |
|---|---|---|---|---|
| VXKW 1-5 | 1,000 | 5 | 1,6 | 2,5 |
| VXKW 1-6 | 1,400 | 6 | 2,5 | 4 |
| VXKW 1-7 | 1,900 | 7 | 2,5 | 4 |
| VXKW 1-8 | 2,500 | 8 | 2,5 | 4 |
| VXKW 1-10 | 4,000 | 10 | 5 | 6 |
| VXKW 1-13 | 6,700 | 13 | 6 | 8 |
| VXKW 1-16 | 10,000 | 16 | 8 | 10 |

| Code | e [mm] | d [mm] | t [mm] | w [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|
| VXKW 1-5 | 164 | 10 | 80 | 50 | 0.38 |
| VXKW 1-6 | 194 | 13 | 110 | 60 | 0.58 |
| VXKW 1-7 | 232 | 13 | 110 | 60 | 1.00 |
| VXKW 1-8 | 232 | 16 | 110 | 60 | 1.21 |
| VXKW 1-10 | 294 | 19 | 135 | 75 | 2.27 |
| VXKW 1-13 | 363 | 23 | 160 | 90 | 4.50 |
| VXKW 1-16 | 413 | 27 | 180 | 100 | 7.38 |

**Example:** VXKW 1-10 may be used for l-leg chain slings with a 10 mm chain.

# pewag VXKW 2 Clevis master set

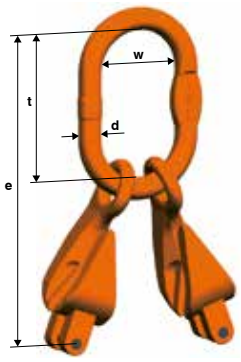
## A cut above the rest.

This clevis master set eliminates the need for an additional connecting element as the chain may attached directly to the captive coupling of the shortening element. The set consists of an AW master ring and two welded-in XKW shortening hooks, facilitating the speedy assembly and disassembly of II-leg chain slings by a competent person, without the need for special tools. The hook functions both as a connecting and a shortening element.

The clevis master set is manufactured according to EN 818-4 with mechanical values for G10. This all-round package comes with CE-marking, BG-approval and a full operating manual.

The coupling pin and the lock pin are available as a KBSW spare parts set.

**VXKW 2 Clevis master set**




| Code | Load capacity 0°-45° [kg] | Load capacity 45°-60° [kg] | For chain-Ø | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. |
|---|---|---|---|---|---|
| VXKW 2-5 | 1,400 | 1,000 | 5 | 1,6 | 2,5 |
| VXKW 2-6 | 2,000 | 1,400 | 6 | 2,5 | 4 |
| VXKW 2-7 | 2,650 | 1,900 | 7 | 2,5 | 4 |
| VXKW 2-8 | 3,550 | 2,500 | 8 | 5 | 6 |
| VXKW 2-10 | 5,600 | 4,000 | 10 | 6 | 8 |
| VXKW 2-13 | 9,500 | 6,700 | 13 | 8 | 10 |
| VXKW 2-16 | 14,000 | 10,000 | 16 | 10 | 12 |

| Code | e [mm] | d [mm] | t [mm] | w [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|
| VXKW 2-5 | 164 | 10 | 80 | 50 | 0.59 |
| VXKW 2-6 | 194 | 13 | 110 | 60 | 0.79 |
| VXKW 2-7 | 232 | 16 | 110 | 60 | 1.87 |
| VXKW 2-8 | 257 | 19 | 135 | 75 | 2.29 |
| VXKW 2-10 | 319 | 23 | 160 | 90 | 4.30 |
| VXKW 2-13 | 383 | 27 | 180 | 100 | 7.98 |
| VXKW 2-16 | 433 | 33 | 200 | 110 | 13.98 |

**Example:** VXKW 2-10 may be used for II-leg chain slings with a 10 mm chain.

# pewag VXKW 4 Clevis master set

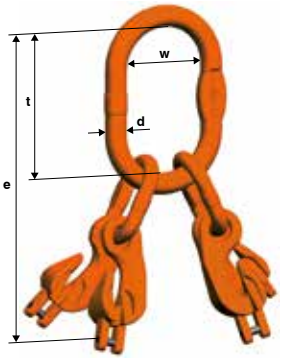
## Multi-tasking.

Assembly and disassembly of the system by a competent person is easy and quick, without the need for special tools. The chain is mounted directly into the captive coupling of the shortening element, thereby eliminating the need for an additional connecting link. Once mounted, this IV-leg master set with four welded-in XKW shortening hooks for the assembly of IV-leg chain slings in the assembled system will not be budged! The hook functions both as a connecting link and a shortening element – multi-functional in the true sense of the word!

The set is manufactured according to EN 818-4 with the mechanical values of G10 and come with a CE-marking for certified quality and BG-approval.

A full operating manual and the KBSW spare parts set consisting of coupling pin and lock pin are also included in the delivery.

**VXKW 4 Clevis master set**




| Code | Load capacity 0°-45° [kg] | Load capacity 45°-60° [kg] | For chain-Ø | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. |
|---|---|---|---|---|---|
| VXKW 4-5 | 2,000 | 1,500 | 5 | 2,5 | 4 |
| VXKW 4-6 | 3,000 | 2,120 | 6 | 5 | 6 |
| VXKW 4-7 | 4,000 | 2,800 | 7 | 6 | 8 |
| VXKW 4-8 | 5,300 | 3,750 | 8 | 6 | 8 |
| VXKW 4-10 | 8,000 | 6,000 | 10 | 8 | 10 |
| VXKW 4-13 | 14,000 | 10,000 | 13 | 10 | 12 |
| VXKW 4-16 | 21,200 | 15,000 | 16 | 16 | 20 |

| Code | e [mm] | d [mm] | t [mm] | w [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|
| VXKW 4-5 | 238 | 13 | 110 | 60 | 1.43 |
| VXKW 4-6 | 273 | 19 | 135 | 75 | 2.17 |
| VXKW 4-7 | 352 | 23 | 160 | 90 | 4.99 |
| VXKW 4-8 | 352 | 23 | 160 | 90 | 5.05 |
| VXKW 4-10 | 424 | 27 | 180 | 100 | 8.88 |
| VXKW 4-13 | 518 | 33 | 200 | 110 | 17.50 |
| VXKW 4-16 | 633 | 36 | 260 | 140 | 29.74 |

**Example:** VXKW 4-10 may be used for IV-leg chain slings with a 10 mm chain.

# pewag VMXKW 1 Clevis master set

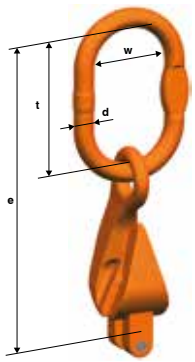
## Always reliable.

With this assembly, there is no compromise when it comes to security. This safety product complies with EN 818-4 and has the mechanical values of G10. The chain is mounted directly into the coupling unit of the shortening element, thereby eliminating the need for an additional connecting link. The hook functions both as a connecting link and a shortening element, making for simple assembly and disassembly by a competent person, without the need for special tools.

This master set consists of a MW master ring and a welded-in XKW shortening hook for the creation of l-leg chain slings in the assembled system.

CE-marking is guaranteed and a full operating manual is included. The coupling pin and the lock pin are available as a KBSW spare parts set.

**VMXKW 1 Clevis master set**




| Code | Load capacity [kg] | For chain-Ø | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. |
|---|---|---|---|---|
| VMXKW 1-6 | 1,400 | 6 | 4 | 5 |
| VMXKW 1-7 | 1,900 | 7 | 4 | 5 |
| VMXKW 1-8 | 2,500 | 8 | 5 | 6 |
| VMXKW 1-10 | 4,000 | 10 | 6 | 8 |
| VMXKW 1-13 | 6,700 | 13 | 10 | 12 |
| VMXKW 1-16 | 10,000 | 16 | 10 | 12 |

| Code | e [mm] | d [mm] | t [mm] | w [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|
| VMXKW 1-6 | 204 | 14 | 120 | 70 | 0.74 |
| VMXKW 1-7 | 242 | 14 | 120 | 70 | 1.06 |
| VMXKW 1-8 | 262 | 16 | 140 | 80 | 1.30 |
| VMXKW 1-10 | 319 | 19 | 160 | 95 | 2.34 |
| VMXKW 1-13 | 373 | 23 | 170 | 105 | 4.39 |
| VMXKW 1-16 | 424 | 27 | 190 | 110 | 7.45 |

**Example:** VMXKW 1-10 may be used for l-leg chain slings with a 10 mm chain.

# pewag VMXKW 2 Clevis master set

## These two can handle this.

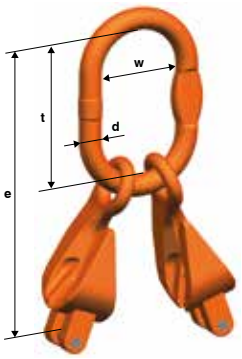
The fact that the hook functions both as a connecting and a shortening element, there is no additional connecting element needed. The chain may attached directly to the captive coupling of the shortening element.

The set consists of a MW master ring and two welded-in XKW shortening hooks, facilitating the speedy assembly and disassembly of II-leg chain slings by a competent person, without the need for special tools.

The clevis master set is manufactured according to EN 818-4 with mechanical values for G10. This all-round package comes with CE-marking and a full operating manual.

The coupling pin and the lock pin are available as a KBSW spare parts set.

**VMXKW 2 Clevis master set**




| Code | Load capacity 0°-45° [kg] | Load capacity 45°-60° [kg] | For chain-Ø | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. |
|---|---|---|---|---|---|
| VMXKW 2-6 | 2,000 | 1,400 | 6 | 4 | 5 |
| VMXKW 2-7 | 2,650 | 1,900 | 7 | 5 | 6 |
| VMXKW 2-8 | 3,550 | 2,500 | 8 | 6 | 8 |
| VMXKW 2-10 | 5,600 | 4,000 | 10 | 10 | 12 |
| VMXKW 2-13 | 9,500 | 6,700 | 13 | 10 | 12 |
| VMXKW 2-16 | 14,000 | 10,000 | 16 | 12 | 16 |

| Code | e [mm] | d [mm] | t [mm] | w [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|
| VMXKW 2-6 | 204 | 14 | 120 | 70 | 1.04 |
| VMXKW 2-7 | 262 | 16 | 140 | 80 | 1.91 |
| VMXKW 2-8 | 282 | 19 | 160 | 95 | 2.35 |
| VMXKW 2-10 | 329 | 23 | 170 | 105 | 4.19 |
| VMXKW 2-13 | 393 | 27 | 190 | 110 | 8.05 |
| VMXKW 2-16 | 464 | 33 | 230 | 130 | 14.38 |

**Example:** VMXKW 2-10 may be used for II-leg chain slings with a 10 mm chain.

# pewag VMXKW 4 Clevis master set

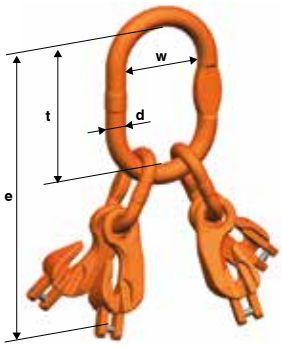
## Two times two is 4.

The chain is directly attached to the captive coupling of the shortening element. This has the advantage, that there is no additional connecting element needed, because the hook functions both as a connecting and a shortening element. The assembly and disassembly is done easily, quickly and without special tool by a competent person. Once mounted, this IV-leg master set with four welded-in XKW shortening hooks for the assembly of IV-leg chain slings in the assembled system will not be budged!

The set is manufactured according to EN 818-4 with the mechanical values of G10 and come with a CE-marking for certified quality.

A full operating manual and the KBSW spare parts set consisting of coupling pin and lock pin are also included in the delivery.

**VMXKW 4 Clevis master set**




| Code | Load capacity 0°-45° [kg] | Load capacity 45°-60° [kg] | For chain-Ø | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. |
|---|---|---|---|---|---|
| VMXKW 4-6 | 3,000 | 2,120 | 6 | 6 | 8 |
| VMXKW 4-7 | 4,000 | 2,800 | 7 | 10 | 12 |
| VMXKW 4-8 | 5,300 | 3,750 | 8 | 10 | 12 |
| VMXKW 4-10 | 8,000 | 6,000 | 10 | 10 | 12 |
| VMXKW 4-13 | 14,000 | 10,000 | 13 | 12 | 16 |
| VMXKW 4-16 | 21,200 | 15,000 | 16 | 20 | 25 |

| Code | e [mm] | d [mm] | t [mm] | w [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|
| VMXKW 4-6 | 298 | 19 | 160 | 95 | 2.63 |
| VMXKW 4-7 | 362 | 23 | 170 | 105 | 4.84 |
| VMXKW 4-8 | 362 | 23 | 170 | 105 | 4.93 |
| VMXKW 4-10 | 434 | 27 | 190 | 110 | 9.01 |
| VMXKW 4-13 | 548 | 33 | 230 | 130 | 17.90 |
| VMXKW 4-16 | 649 | 38 | 275 | 150 | 30.52 |

**Example:** VMXKW 4-10 may be used for IV-leg chain slings with a 10 mm chain.

# pewag LXKW 1 Clevis master set

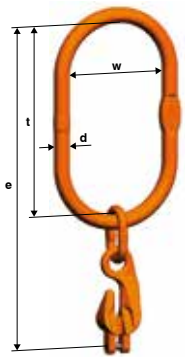
## Well connected.

This oversize clevis master set is frequently used on mobile cranes. It consists of an LW master ring and a welded-in XKW shortening hook for the creation of I-leg chain slings in the assembled system. The chain is mounted directly into the captive coupling of the shortening element, thereby eliminating the need for an additional connecting link. Assembly and disassembly of the system by a competent person is easy and quick, without the need for special tools. The hook functions both as a connecting link and a shortening element and the master link is suitable for crane hooks up to no. 25 according to DIN 15401 and up to no. 32 according to DIN 15402.

The set is manufactured according to EN 818-4 with the mechanical values of G10, comes with CE-marking and BG-approval as well as a full operating manual.

The coupling pin and the lock pin are available as a KBSW spare parts set.

**LXKW 1 Clevis master set**




| Code | Load capacity [kg] | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. |
|---|---|---|---|
| LXKW 1-6 [1] | 1,400 | 25 | 32 |
| LXKW 1-8 | 2,500 | 25 | 32 |
| LXKW 1-10 | 4,000 | 25 | 32 |
| LXKW 1-13 | 6,700 | 25 | 32 |
| LXKW 1-16 | 10,000 | 25 | 32 |

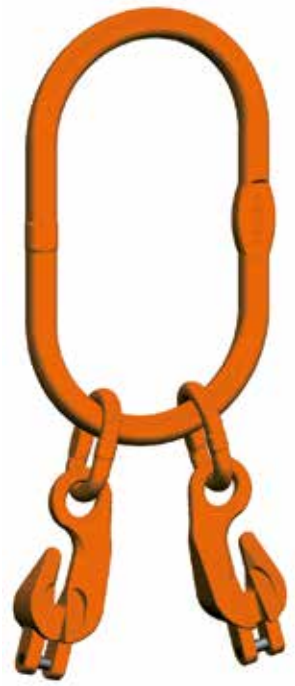
| Code | e [mm] | d [mm] | t [mm] | w [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|
| LXKW 1-6 [1] | 478 | 23 | 340 | 180 | 3.72 |
| LXKW 1-8 | 516 | 23 | 340 | 180 | 4.03 |
| LXKW 1-10 | 569 | 27 | 340 | 180 | 6.05 |
| LXKW 1-13 | 629 | 27 | 340 | 180 | 8.82 |
| LXKW 1-16 | 688 | 33 | 340 | 180 | 13.54 |

[1] May also be used with a 5 mm chain if load capacity is adjusted accordingly.

**Example:** LXKW 1-10 may be used for I-leg chain slings with a 10 mm chain.

# pewag LXKW 2 Clevis master set

## Two-way strength.

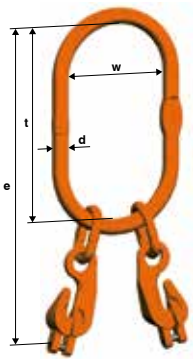


II-leg chain slings in the assembled system are created easily and quickly using this oversize clevis master set, as the chain may be attached directly to the captive coupling of the shortening element, which eliminates the need for an additional connecting element. Assembly and disassembly of the system by a competent person is easy and quick, without the need for special tools.

The hook functions both as a connecting link and a shortening element and the master link is suitable for crane hooks up to no. 25 according to DIN 15401 and up to no. 32 according to DIN 15402. The set itself complies with EN 818-4 and has the mechanical values of G10. Due to its large master ring, it is frequently used on mobile cranes.

Other quality features in true pewag style include CE-marking, BG-approval and a full operating manual. The coupling pin and the lock pin are available as a KBSW spare parts set.

**LXKW 2 Clevis master set**




| Code | Load capacity 0°-45° [kg] | Load capacity 45°-60° [kg] | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. |
|---|---|---|---|---|
| LXKW 2-6 [1] | 2,000 | 1,400 | 25 | 32 |
| LXKW 2-8 | 3,550 | 2,500 | 25 | 32 |
| LXKW 2-10 | 5,600 | 4,000 | 25 | 32 |
| LXKW 2-13 | 9,500 | 6,700 | 25 | 32 |
| LXKW 2-16 | 14,000 | 10,000 | 25 | 32 |

| Code | e [mm] | d [mm] | t [mm] | w [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|
| LXKW 2-6 [1] | 478 | 23 | 340 | 180 | 3.97 |
| LXKW 2-8 | 516 | 23 | 340 | 180 | 4.84 |
| LXKW 2-10 | 569 | 27 | 340 | 180 | 7.69 |
| LXKW 2-13 | 629 | 33 | 340 | 180 | 14.28 |
| LXKW 2-16 | 688 | 40 | 340 | 180 | 23.17 |

[1] May also be used with a 5 mm chain if load capacity is adjusted accordingly.

**Example:** LXKW 2-10 may be used for II-leg chain slings with a 10 mm chain.

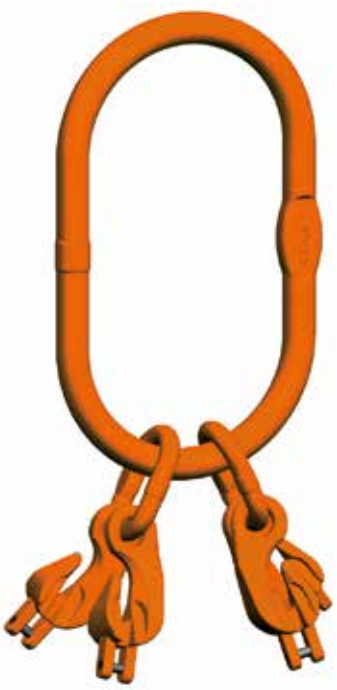
# pewag LXKW 4 Clevis master set

## Right and tight – times four.

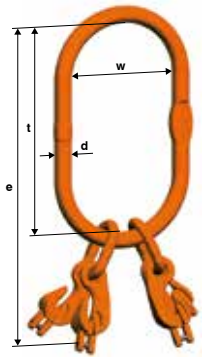
This high-grade clevis master set was designed for the creation of IV-leg chain slings in the assembled system. The benefits of this system are obvious: the chain can simply be mounted directly in the captive coupling of the shortening element, thereby eliminating the need for an additional connecting link. The hook functions both as a connecting link and a shortening element and the master link is suitable for crane hooks up to no. 25 according to DIN 15401 and up to no. 32 according to DIN 15402.

A full operating manual instructs competent person in the assembly of the set, without any need for special tools. The set is manufactured according to EN 818-4 with the mechanical values of G10 and, because of its large master ring, it is frequently used on mobile cranes that must withstand multiple loads.

The coupling pin and the lock pin are available as a KBSW spare parts set. CE-marking and BG-approval are part of our standard programme.



**LXKW 4 Clevis master set**




| Code | Load capacity 0°-45° [kg] | Load capacity 45°-60° [kg] | Fits on single hook acc. DIN 15401 no. | Fits on double hook acc. DIN 15402 no. |
|---|---|---|---|---|
| LXKW 4-6 [1] | 3,000 | 2,120 | 25 | 32 |
| LXKW 4-8 | 5,300 | 3,750 | 25 | 32 |
| LXKW 4-10 | 8,000 | 6,000 | 25 | 32 |
| LXKW 4-13 | 14,000 | 10,000 | 25 | 32 |
| LXKW 4-16 | 21,200 | 15,000 | 25 | 32 |

| Code | e [mm] | d [mm] | t [mm] | w [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|
| LXKW 4-6 [1] | 478 | 23 | 340 | 180 | 4.38 |
| LXKW 4-8 | 532 | 27 | 340 | 180 | 7.71 |
| LXKW 4-10 | 584 | 33 | 340 | 180 | 12.88 |
| LXKW 4-13 | 659 | 40 | 340 | 180 | 24.37 |
| LXKW 4-16 | 713 | 40 | 340 | 180 | 34.53 |

[1] May also be used with a 5 mm chain if load capacity is adjusted accordingly.

**Example:** LXKW 4-10 may be used for IV-leg chain slings with a 10 mm chain.

# Accessories in G10

## Product overview

### Content



# pewag CW Connex connecting link

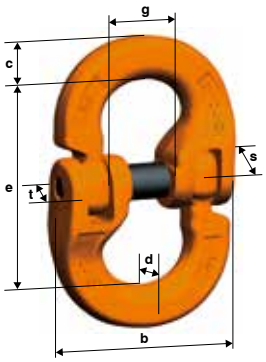
## For a flawless connection.

This universal connecting link consists of two symmetrical, die-forged halves, one bolt and one safety sleeve. For the expert connection of master ring and chain, chain and chain, chain and hook, master ring and hook and much more! Please note that the product is suitable for straight pull only and must be assembled by a competent person. Thanks to the sophisticated design, no special tool is required.

To maintain the high quality of this product, we recommend replacing the pin and tension sleeve after three assemblies/ disassemblies. CBHW spare parts sets with pins and tension sleeves are particularly recommended. The product is manufactured according to EN 1677-1 with mechanical values for G10.

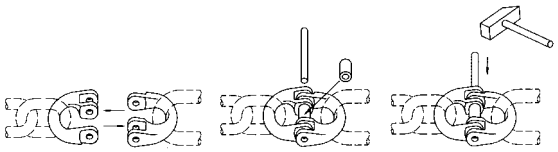
BG-approval and CE-marking are included. A full operating manual is also supplied.

**CW Connex connecting link**




| Code | Load capacity [kg] | e [mm] | c [mm] | s [mm] | t [mm] | d [mm] | b [mm] | g [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|---|---|
| CW 5 | 1,000 | 38 | 7 | 9 | 12 | 7 | 34 | 13 | 0.06 |
| CW 6 | 1,400 | 44 | 8 | 11 | 13 | 8 | 39 | 14 | 0.08 |
| CW 7 | 1,900 | 53 | 10 | 13 | 16 | 9 | 46 | 17 | 0.14 |
| CW 8 | 2,500 | 62 | 12 | 14 | 20 | 10 | 55 | 19 | 0.24 |
| CW 10 | 4,000 | 72 | 15 | 18 | 22 | 13 | 64 | 24 | 0.42 |
| CW 13 | 6,700 | 88 | 20 | 22 | 26 | 17 | 79 | 28 | 0.85 |
| CW 16 | 10,000 | 112 | 24 | 29 | 35 | 20 | 105 | 34 | 1.90 |
| CW 19/20 | 16,000 | 126 | 32 | 35 | 45 | 25 | 126 | 44 | 3.10 |
| CW 22 | 19,000 | 157 | 36 | 39 | 46 | 26 | 148 | 52 | 4.60 |
| CW 26 | 26,500 | 179 | 40 | 46 | 57 | 30 | 175 | 62 | 6.80 |
| CW 32 | 40,000 | 206 | 47 | 56 | 63 | 35 | 216 | 80 | 11.36 |

**Assembly:**



# pewag CLW Connex connecting link

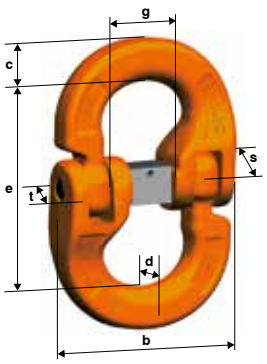
## Form and function.

This universal connection link is manufactured from high-grade material. This product owes its outstanding quality and expediency to a sophisticated manufacturing process. Two symmetrical, die-forged halves and a special safety set ensure universal combination options of master ring/chain, chain/chain, chain/hook, master ring/hook and other elements.

The CLW Connex connecting link is suitable for straight pull only and cannot be dismounted after assembly. The link may be assembled by a competent person easily and quickly, without the need for special tools. Manufactured according to EN 1677-1 with the mechanical values of G10. Recommended for applications where the pin must not be removed once assembled, for instance when using lifting magnets or concrete buckets.

The special safety kit is available as a CLBHW spare parts set. Product includes CE-marking, BG-approval and a full operating manual.

**CLW Connex connecting link**




| Code | Load capacity [kg] | e [mm] | c [mm] | s [mm] | t [mm] | d [mm] | b [mm] | g [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|---|---|
| CLW 7 | 1,900 | 53 | 10 | 13 | 16 | 9 | 46 | 17 | 0.14 |
| CLW 10 | 4,000 | 72 | 15 | 18 | 22 | 13 | 64 | 24 | 0.43 |
| CLW 13 | 6,700 | 88 | 20 | 22 | 26 | 17 | 79 | 28 | 0.85 |
| CLW 16 | 10,000 | 112 | 24 | 29 | 35 | 20 | 105 | 34 | 1.90 |

# pewag CARW Round sling connecting link

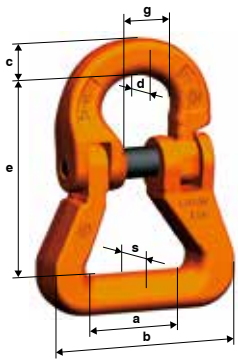
## Safely connected.

Extra-safe round sling connecting links are required for the assembly of round slings or webbing slings, with a wide, protecting layer for round slings and webbing slings. The CARW round sling connecting link is manufactured according to EN 1677-1 with the mechanical values of G10 and fulfils these requirements down to the smallest detail. It is easily assembled and disassembled by a competent person, without the need for special tools.

It is recommended to use a new pin and tension sleeve after three assemblies/disassemblies. Also note that this product is suitable for straight pull only. Pin and tension sleeve are also available as CBHW spare parts set.

Includes CE-marking, BG-approval and full operating manual.

**CARW Round sling connecting link**




| Code | Load capacity [kg] | e [mm] | a [mm] | c [mm] | d [mm] | b [mm] | s [mm] | g [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|---|---|
| CARW 8 | 2,500 | 66 | 29 | 12 | 10 | 68 | 18 | 19 | 0.33 |
| CARW 10 | 4,000 | 81 | 40 | 15 | 13 | 82 | 21 | 24 | 0.71 |
| CARW 13 | 6,700 | 104 | 44 | 20 | 17 | 101 | 28 | 28 | 1.34 |
| CARW 16 | 10,000 | 113 | 47 | 24 | 20 | 110 | 40 | 34 | 1.83 |
| CARW 22 | 19,000 | 190 | 110 | 36 | 25 | 215 | 58 | 52 | 7.98 |

# pewag AGWW Load distributor

## Your load just got lighter.

A bonus for all specialist users! As this system offers a higher load capacity compared to standard IV-leg slings, it is all about the load capacity of the master link assembly. The load distributor may be turned by 180° once the elimination criteria have been reached, thereby doubling its lifespan!

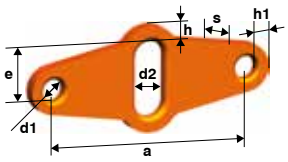
The system is used for assembling IV-leg chain slings with Connex connecting links. Where required, all four legs may be considered load-carrying:

If two II-leg slings are used at the same time and one of them is provided with a load distributor, this system can be treated as a IV-leg sling with four load-carrying legs.

Special users beware! Due to the higher load-bearing capacity compared to standard IV strand hangers, special attention should be paid to the choice of the appropriate assembly - standard assemblies may have a too low load capacity.

Please consult the operating manual for more detailed information.

**AGWW Load distributor**




| Code | Connecting link | Load capacity 0°-45° [kg] | Load capacity 45°-60° [kg] | Difference L1 / L2 [chain links] |
|---|---|---|---|---|
| AGWW 5/6 | CW 8 | 2,000 | 1,400 | 6 5 |
| AGWW 7/8 | CW 10 | 3,550 | 2,500 | 6 5 |
| AGWW 10 | CW 13 | 5,600 | 4,000 | 4 |
| AGWW 13 | CW 16 | 9,500 | 6,700 | 4 |
| AGWW 16 | CW 19/20 | 14,000 | 10,000 | 4 |
| AGWW 19/20 | CW 32 | 20,000 | 14,000 | 5 |
| AGWW 22 | CW 32 | 26,500 | 19,000 | 5 |
| AGWW 26 | GSCHW VB G-4163 WLL 55 t | 37,500 | 26,500 | 5 |

| Code | e [mm] | a [mm] | d1 [mm] | d2 [mm] | h [mm] | h1 [mm] | s [mm] | Weight [kg/pc.] | Suspension heads to use |
|---|---|---|---|---|---|---|---|---|---|
| AGWW 5/6 | 35 | 148 | 16 | 22 | 11 | 9 | 10 | 0.54 | VW 6 / VMW 6 / VAW 6/7 |
| AGWW 7/8 | 51 | 210 | 22 | 25 | 15.50 | 14 | 15 | 1.75 | VW 7/8 / VMW 10 / VAW 10 |
| AGWW 10 | 32 | 180 | 25 | 32 | 23 | 15.50 | 15 | 1.56 | VW 13 / VMW 13 / VAW 13 |
| AGWW 13 | 53 | 240 | 32 | 40 | 27 | 20 | 20 | 3.60 | VW 16 / VMW 16 / VAW 16 |
| AGWW 16 | 77 | 300 | 40 | 50 | 32 | 25 | 25 | 7.00 | VW 19/20 / VMW 19/20 / VAW 19/20 |
| AGWW 19/20 | 79 | 390 | 50 | 70 | 45 | 30 | 30 | 13.20 | VW 22 / VMW 22 / VAW 19/20 |
| AGWW 22 | 124 | 350 | 60 | 70 | 50 | 35 | 30 | 14.70 | VW 26 / VAW 26 |
| AGWW 26 | 130 | 400 | 70 | 75 | 60 | 40 | 40 | 25.80 | VAW 32 |

Please use the displayed item in column "Connecting link" to assemble the load distributor in the four-leg sling.
Static test coefficient = 2.5 x load capacity of the respective chain section; safety factor = 4

# pewag HSW Eye sling hook

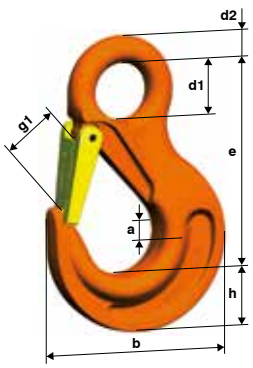
## Resilience has a name.

This eye sling hook offers universal options for usage and is manufactured with a forged safety catch that locks into the tip of the hook, thereby offering increased protection against lateral shifts. The hook is suitable for Connex and the welded system and is manufactured according to EN 1677-2 with the mechanical values of G10.

Like all pewag components, this eye sling hook is a high-grade manufacturing product. It comes with a safety catch set with a stainless steel spring and safety sleeve and may be assembled quickly, without the need for special tools. The safety catch ensures that allimportant safety bonus. However, please note that the product is suitable for straight pull only. Loads must not be placed on the tip of the hook or the safety catch! Includes CE-marking, BG-approval and full operating manual.

The safety catch set SFGW is also available as a spare parts set.

**HSW Eye sling hook**




| Code | Load capacity [kg] | e [mm] | h [mm] | a [mm] | d1 [mm] | d2 [mm] | g1 [mm] | b [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|---|---|
| HSW 5/6 | 1,400 | 85 | 21 | 17 | 20 | 10 | 19 | 68 | 0.34 |
| HSW 7/8 | 2,500 | 106 | 27 | 19 | 25 | 11 | 26 | 88 | 0.57 |
| HSW 10 | 4,000 | 131 | 33 | 26 | 34 | 16 | 31 | 109 | 1.25 |
| HSW 13 | 6,700 | 164 | 44 | 33 | 43 | 19 | 39 | 134 | 1.86 |
| HSW 16 | 10,000 | 183 | 50 | 40 | 50 | 25 | 45 | 155 | 3.86 |
| HSW 19/20 | 16,000 | 205 | 55 | 48 | 55 | 27 | 53 | 178 | 6.01 |
| HSW 22 | 19,000 | 225 | 62 | 50 | 60 | 29 | 62 | 196 | 8.19 |
| HSW 26 | 26,500 | 260 | 80 | 70 | 70 | 37 | 73 | 240 | 12.76 |
| HSW 32 | 40,000 | 299 | 97 | 82 | 66 | 45 | 87 | 291 | 27.86 |

# pewag LHW Safety hook

## Automatic safety.

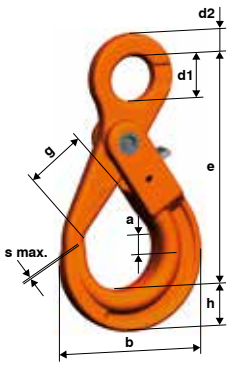
Safe by name, safe by nature – this hook closes and locks automatically, which means that it cannot open when under load. It is perfect in combination with the Connex system and also offers additional, universal connection options thanks to the flattened section on the eye. As it comes with a wider jaw opening than HSW, it may be used much more flexibly.

Please note that this hook is suitable for straight pull only. The tip of the hook and the safety catch must not be placed under load and the hook should not be used in the welded system.

If used correctly, assembly of this safety hook is simple and does not require any special tools. The hook corresponds to EN 1677-3, with the mechanical values of G10, and comes with a full operating manual, CE-marking and BG-approval.

The safety catch set VLHW on the back of the hook is also available as a spare parts set.

**LHW Safety hook**




| Code | Load capacity [kg] | e [mm] | h [mm] | a [mm] | b [mm] | d1 [mm] | d2 [mm] | g [mm] | s max. [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|---|---|---|
| LHW 5/6 | 1,400 | 110 | 20 | 17 | 71 | 21 | 11 | 28 | 1 | 0.53 |
| LHW 7/8 | 2,500 | 136 | 26 | 20 | 88 | 25 | 12 | 34 | 1 | 0.92 |
| LHW 10 | 4,000 | 169 | 30 | 29 | 107 | 35 | 15 | 45 | 1 | 1.57 |
| LHW 13 | 6,700 | 205 | 40 | 35 | 138 | 40 | 20 | 52 | 1.50 | 3.19 |
| LHW 16 | 10,000 | 251 | 50 | 41 | 168 | 50 | 27 | 60 | 2 | 6.24 |
| LHW 19/20 | 16,000 | 290 | 62 | 50 | 194 | 60 | 30 | 70 | 2 | 9.75 |
| LHW 22 | 19,000 | 322 | 65 | 52 | 211 | 70 | 32 | 81 | 2 | 12.45 |
| LHW 26 | 26,500 | 383 | 79 | 61 | 253 | 82 | 42 | 100 | 2 | 20.00 |

# pewag WLHW Swivel safety hook

## Stable and versatile.

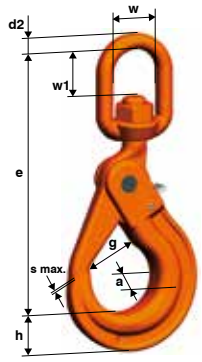
This hook is at its best when used with the Connex system. It closes and locks automatically and cannot be opened while under load. The large swivel casing opens up an even wider range of application options and the larger jaw opening compared to HSW means that it may be used more flexibly. When it comes to quality, this hook is in a league of its own: It comes with CE-marking and BG-approval, complies with EN 1677-3 and has the mechanical values of G10.

A detailed operating manual provides information on the wide range of possible applications. But be careful – the hook is only suitable for straight pull and cannot be rotated when under load. Also note that the tip of the hook and the safety catch must not be placed under load and the hook should not be used in the welded system.

Assembly of the safety catch is easy and quick, without the need for special tools.

The safety catch set VLHW which forms the locking mechanism on the back of the hook is also available as a spare parts set.

**WLHW Swivel safety hook**




| Code | Load capacity [kg] | e [mm] | h [mm] | a [mm] | w [mm] | w1 [mm] | d2 [mm] | g [mm] | s max. [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|---|---|---|
| WLHW 5/6 | 1,400 | 161 | 20 | 17 | 35 | 36 | 12 | 28 | 1 | 1.20 |
| WLHW 7/8 | 2,500 | 182 | 26 | 20 | 35 | 36 | 12 | 34 | 1 | 1.54 |
| WLHW 10 | 4,000 | 218 | 30 | 29 | 42 | 41 | 16 | 45 | 1 | 2.14 |
| WLHW 13 | 6,700 | 269 | 40 | 35 | 49 | 47 | 20 | 52 | 1.50 | 4.42 |
| WLHW 16 | 10,000 | 319 | 50 | 41 | 60 | 60 | 24 | 60 | 2 | 7.34 |

# pewag WLHBW Swivel safety hook

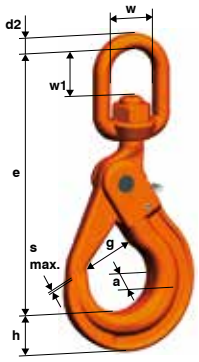
## Rotates even under load.

This showpiece can withstand operating temperatures of up to 120°C. The swivel safety hook closes and locks automatically and comes with an axial bearing, ensuring that it may be rotated when under load, but not opened. It is suitable for Connex systems and also offers additional connecting options thanks to its large swivel casing. Its jaw opening is larger than the HSW eye hook, making it more flexible in terms of potential use.

Please note that the product is suitable for straight pull only. Also note that the tip of the hook and the safety catch must not be placed under load and the hook should not be used in the welded system. Quality features include CE-marking and BG-approval, compliance with EN 1677-3 and the mechanical values of G10.

Assembly of the locking set is easy and quick and does not require any special tools. A replacement bearing unit and full operating manual are available. The safety catch set VLHW which forms the locking mechanism on the back of the hook is also available as a spare parts set.

**WLHBW Swivel safety hook**




| Code | Load capacity [kg] | e [mm] | h [mm] | a [mm] | w [mm] | w1 [mm] | d2 [mm] | g [mm] | s max. [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|---|---|---|
| WLHBW 5/6 | 1,400 | 161 | 20 | 17 | 35 | 36 | 12 | 28 | 1 | 1.20 |
| WLHBW 7/8 | 2,500 | 182 | 26 | 20 | 35 | 36 | 12 | 34 | 1 | 1.55 |
| WLHBW 10 | 4,000 | 218 | 30 | 29 | 42 | 41 | 16 | 45 | 1 | 2.14 |
| WLHBW 13 | 6,700 | 269 | 40 | 35 | 49 | 47 | 20 | 52 | 1.50 | 4.43 |
| WLHBW 16 | 10,000 | 319 | 50 | 41 | 60 | 60 | 24 | 60 | 2 | 7.35 |

# pewag WSBW Swivel hook

## Hooked on safety.

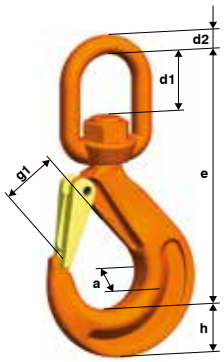
CE-marking and BG-approval are essential features of this pewag safety component. The swivel hook may be used universally and comes with a die-forged safety catch that locks into the tip of the hook, thereby providing excellent protection against lateral shifts.

The WSBW swivel hook is suitable for the Connex systems, but also offers numerous other universal connection options thanks to its large swivel casing. Rotatability under load is ensured by an axial bearing design and comes as a special plus. The maximum operating temperature for this product is 120 °C. The product is manufactured according to EN 1677-2 with the mechanical values for G10.

This product is suitable for straight pull only. Also note that the tip of the hook and the safety catch must not be placed under load. The swivel hook should not be used in the welded system. Assembly of the safety catch set is simple and quick and does not require any special tools. It consists of a die-forged safety catch, a stainless steel spring and a safety sleeve – after all, all good things come in threes!

A full operating manual contains everything you need to know about the versatile application options of this swivel hook. The safety catch set SFGW is also available as a spare parts set.

**WSBW Swivel hook**




| Code | Load capacity [kg] | e [mm] | h [mm] | a [mm] | d1 [mm] | d2 [mm] | g1 [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|---|
| WSBW 7/8 | 2,500 | 154 | 28 | 19 | 37 | 12 | 26 | 1.24 |
| WSBW 10 | 4,000 | 183 | 33 | 25 | 41 | 16 | 30 | 1.84 |
| WSBW 13 | 6,700 | 221 | 40 | 30 | 47 | 20 | 38 | 3.45 |

# pewag FW Foundry hook

## Jaw size matters.

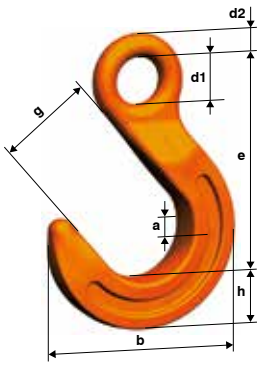
This hook comes with an extra-wide jaw and is used in applications where other hooks simply aren‘t up to the job. The model is frequently used in foundries and also does an excellent job when used with Connex and welded systems.

The product is manufactured according to EN 1677-1 with the mechanical values of G10 and comes with a full operating manual. CE-marking and BG-approval ensure quality of the highest order.

This extra-wide hook has a lot to offer – but please avoid tip loading and ensure that it is used in straight pull only. Please check whether use without the safety catch is admissible prior to each use.

The assembly with Unilock connecting elements should be generally avoided.

**FW Foundry hook**




| Code | Load capacity [kg] | e [mm] | h [mm] | a [mm] | d1 [mm] | d2 [mm] | g [mm] | b [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|---|---|
| FW 7/8 | 2,500 | 131 | 29 | 25 | 24 | 11 | 64 | 118 | 0.94 |
| FW 10 | 4,000 | 158 | 35 | 32 | 31 | 14 | 76 | 143 | 1.62 |
| FW 13 | 6,700 | 190 | 42 | 40 | 39 | 17 | 89 | 170 | 3.24 |
| FW 16 | 10,000 | 224 | 50 | 46 | 47 | 22 | 102 | 200 | 5.65 |
| FW 19/20 | 16,000 | 260 | 61 | 54 | 56 | 28 | 114 | 231 | 9.50 |
| FW 22 | 19,000 | 287 | 75 | 63 | 47 | 31 | 140 | 284 | 13.40 |
| FW 26 | 26,500 | 358 | 84 | 73 | 82 | 38 | 152 | 312 | 21.40 |
| FW 32 | 40,000 | 370 | 101 | 90 | 66 | 44 | 170 | 359 | 35.00 |
| F 22 [1] | 15,000 | 265 | 70 | 61 | 47 | 30 | 127 | 260 | 9.31 |
| F 26 [2] | 21,200 | 305 | 80 | 72 | 54 | 34 | 136 | 280 | 19.21 |
| F 32 [1] | 31,500 | 327 | 93 | 83 | 60 | 37 | 152 | 336 | 28.00 |

[1] Grade 80
[2] Not suitable for assembly with Unilock. (G8)

# pewag PW Grab hook

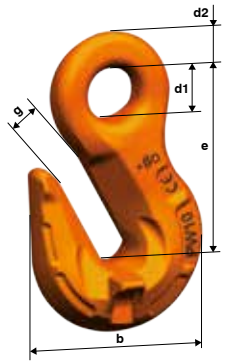
## Heavy-duty with a twist.

Thanks to the special design of the chain contact area, this standard shortening hook ensures optimal interaction between chain and hook. Even when shortened, the load capacity is not reduced.

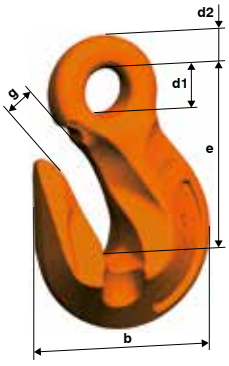
The product comes with a full operating manual and is suitable for use with Connex and the welded system and can also be retrofitted. It complies with EN 1677-1 with the mechanical values for G10 and comes with CE-marking. Please note that it is not suitable for tip loading and cannot be used with Unilock connecting links.


| PW Grab hook | Code | Load capacity [kg] | e [mm] | b [mm] | d1 [mm] | d2 [mm] | g [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|---|
| | PW 5 | 1,000 | 47 | 40 | 11 | 9 | 7 | 0.16 |
| | PW 6 | 1,400 | 50 | 44 | 12 | 9 | 7 | 0.16 |
| | PW 7/8 | 2,500 | 65 | 57 | 16 | 12 | 9 | 0.38 |
| | PW 10 | 4,000 | 77 | 77 | 20 | 14 | 12 | 0.72 |
| | PW 13 | 6,700 | 101 | 92 | 26 | 19 | 15 | 1.56 |
| | PW 16 | 10,000 | 121 | 113 | 32 | 23 | 19 | 2.67 |
| | PW 19/20 [1] | 16,000 | 151 | 150 | 36 | 27 | 25 | 6.16 |
| | PW 22 [1] | 19,000 | 170 | 165 | 42 | 31 | 27 | 8.30 |
| | PW 26 [1] | 26,500 | 201 | 195 | 50 | 37 | 32 | 13.65 |
| | PW 32 [1] | 40,000 | 243 | 242 | 60 | 43 | 38 | 25.00 |

[1] Shape without saddle



Shape with support surface



Shape without support surface

**pewag – passionate about user-friendliness**

pewag sets great store by the user-friendliness of its products and stays abreast of market requirements in this respect. True to this principle, the design of parallel hooks in the pewag range is being adapted. The new design for dimensions 5 to 16 includes lateral supporting bridges, offering perfect support for pewag winner chains and ensuring optimised positioning of the chain on the bearing surface.

**Exception:** Chain dimensions from 19/20 have not yet been adjusted. For technical reasons, chains with these dimensions must not touch the bearing surface of the hook.

# pewag PSW Grab hook with safety catch

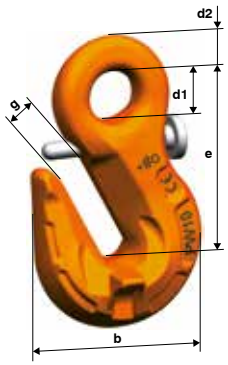
## All-round safety at all times.

This standard shortening hook ensures optimal interaction between chain and hook thanks to the special design of the chain contact area. Moreover, the integrated safety catch protects the chain from an accidental release. Tip loading is not allowed as well as the assembling with Unilock connecting links. Further, the usage in the welded system has to be prevented.

Even when shortened, the load capacity is not reduced.
The product comes with a full operating manual and is compatible with the Connex system and can also be retrofitted. It complies with EN 1677-1 with the mechanical values for G10 and comes with CE-marking.

The safety catch is also available as a spare part. The PSGW spare parts set consists of pin, spring and nut.


**PSW Grab hook with safety catch**




| Code | Load capacity [kg] | e [mm] | b [mm] | d1 [mm] | d2 [mm] | g [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|
| PSW 7/8 | 2,500 | 65 | 57 | 16 | 12 | 9 | 0.40 |
| PSW 10 | 4,000 | 77 | 71 | 20 | 14 | 12 | 0.75 |
| PSW 13 | 6,700 | 101 | 92 | 26 | 19 | 15 | 1.61 |
| PSW 16 | 10,000 | 121 | 113 | 32 | 23 | 19 | 2.73 |

# pewag XKW Clevis shortening hook

## Ready for anything.

This shortening hook is ideally suited for the Connex and welded system. Thanks to its clevis part, the shortening hook may be mounted directly into the chain. The eye of the hook makes it suitable for universal connections and applications as a hook in VXKW, VMXKW and LXKW chain slings. For details, please refer to the full operating manual that comes with the product.

The clevis shortening hook is manufactured according to EN 1677-1 with the mechanical values of G10 and comes with a CE-marking for certified quality and BG-approval. Please note that tip loading is not permitted. If handled by a competent person, assembly is quick and easy and does not require any special tools.

The coupling pin and the lock pin are available as a KBSW spare parts set.

**XKW Clevis shortening hook**


| Code | Load capacity [kg] | e [mm] | b [mm] | a [mm] | d1 [mm] | d2 [mm] | g [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|---|
| XKW 5/6 | 1,400 | 84 | 37 | 29 | 18 | 9 | 8 | 0.22 |
| XKW 7 | 1,900 | 122 | 54 | 39 | 24 | 12 | 11 | 0.66 |
| XKW 8 | 2,500 | 122 | 54 | 39 | 24 | 12 | 11 | 0.67 |
| XKW 10 | 4,000 | 160 | 70 | 50 | 31 | 14 | 13 | 1.31 |
| XKW 13 | 6,700 | 203 | 92 | 64 | 37 | 18 | 15 | 2.83 |
| XKW 16 | 10,000 | 234 | 102 | 80 | 48 | 24 | 20 | 5.06 |

# pewag BWW Sheet metal plate hook

## The perfect lift.

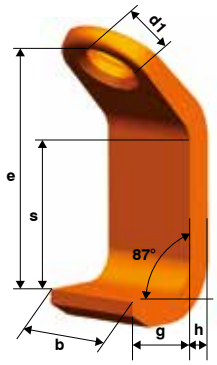
The lifting of sheet metal stacks, boards etc. requires perfect tools - and the BWW sheet metal plate hook is one of them. It can also be supplied in customised dimensions upon request. As a standard, it may be used with Connex and the welded system and corresponds with EN 1677-1 with the mechanical value of G10.

Please note that the product is not suitable for tip loading and that the hooks must be fully pushed onto the load. The lifting process must be carried out by means of min. a III-leg chain sling.
The classification of the WLL must be done carefully:

- If a III-leg chain sling is used, the WLL is that of the corresponding II-leg chain sling
- If a IV-leg chain sling is used, the WLL is that of the corresponding III-leg chain sling

The angle of inclination of the lifting system must be adjusted between 15° and 30°.
The sheet metal plate hook comes with CE-marking and a full operating manual.

**BWW Sheet metal plate hook**




| Code | Load capacity [kg] | e [mm] | s [mm] | b [mm] | h [mm] | d1 [mm] | g [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|---|
| BWW 7/8 | 2,500 | 131 | 80 | 50 | 15 | 28 | 55 | 1.50 |
| BWW 10 | 4,000 | 170 | 100 | 70 | 20 | 36 | 65 | 2.80 |
| BWW 13 | 6,700 | 209 | 130 | 80 | 25 | 40 | 90 | 5.30 |
| BWW 16 | 10,000 | 263 | 160 | 100 | 30 | 50 | 110 | 10.50 |
| BWW 19/20 | 16,000 | 306 | 185 | 120 | 40 | 60 | 130 | 17.50 |
| BWW 22 | 19,000 | 368 | 220 | 140 | 50 | 75 | 150 | 30.50 |

Custom designs are available upon request!

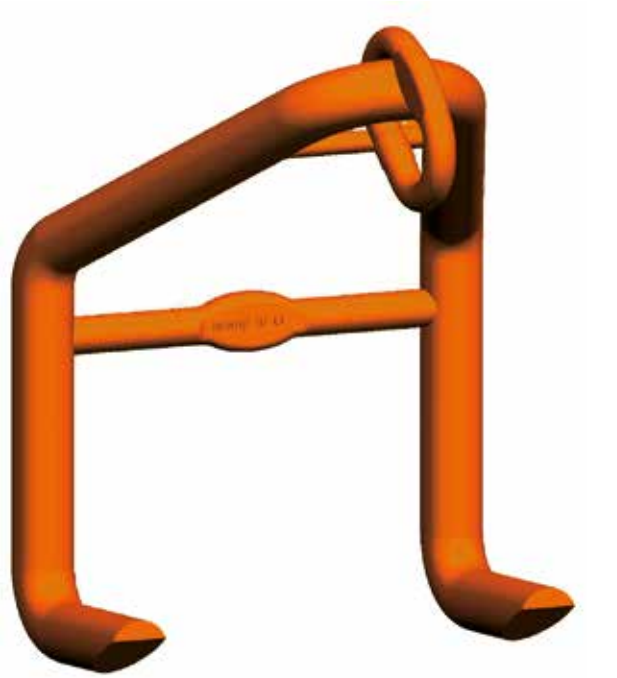
# pewag GHW Fork hook

## Also available with customised dimensions.

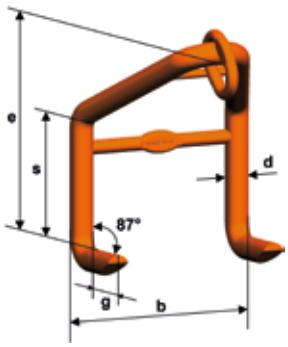
Safety is key when it comes to lifting sheet metal stacks, plates etc. The GHW fork hook ticks all the boxes: It makes a great partner for Connex and welded systems and is available in customised dimensions upon request. In addition, it comes with CE-marking, complies with EN 1677-1 and has the mechanical values of G10.

Tip loading must be avoided and care must be taken to ensure that the hooks are fully pushed onto the load. The hooks must always be used in pairs, with a sling inclination angle of 30° to 45°.

For details, please refer to the full operating manual.



**GHW Fork hook**




| Code | Load capacity [kg] | e [mm] | s [mm] | b [mm] | g [mm] | d [mm] | BW-link | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|---|
| GHW 5/6 | 1,400 | 203 | 100 | 190 | 65 | 23 | BW 13 | 2.84 |
| GHW 7/8 | 2,500 | 300 | 150 | 254 | 100 | 30 | BW 16 | 7.25 |
| GHW 10 | 4,000 | 402 | 200 | 380 | 130 | 40 | BW 22 | 16 |

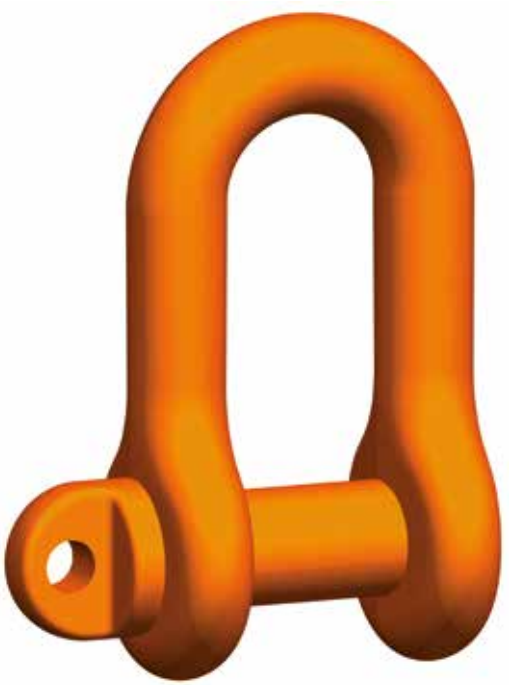
Custom designs are available upon request!

# pewag SCHW Shackle

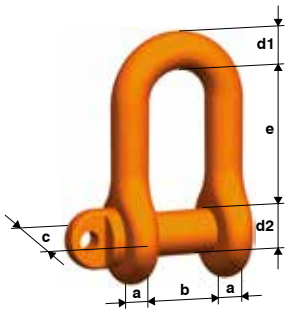
## Tried and tested.

This high-strength shackle with a stud bolt in grade 10 and marked accordingly prevents mix-ups and is suitable for general lifting purposes. Both sides of the smooth bolt rest in the eyes and the thread does not protrude into the opening of the shackle. Please check that the bolt is sitting tightly prior to each lifting operation. If this precaution is observed, the shackle can cope with even the most demanding lifting operations. However, please note that the shackle cannot be mounted directly into the chain.

Every single one of these safety products comes with CE-marking and a full operating manual.



**SCHW Shackle**




| Code | Load capacity [kg] | e [mm] | b [mm] | a [mm] | d1 [mm] | c [mm] | d2 [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|---|
| SCHW 5 | 1,000 | 24 | 11 | 7 | 8 | 16 | 8 | 0.11 |
| SCHW 6 | 1,400 | 30 | 14 | 8 | 10 | 20 | 10 | 0.20 |
| SCHW 7/8 | 2,500 | 36 | 17 | 10 | 12 | 24 | 12 | 0.41 |
| SCHW 10 | 4,000 | 49 | 21 | 13 | 15 | 32 | 16 | 0.61 |
| SCHW 13 | 6,700 | 61 | 27 | 17 | 19 | 40 | 20 | 1.42 |
| SCHW 16 | 10,000 | 73 | 33 | 21 | 23 | 48 | 24 | 2.62 |

# pewag GSCHW Bow shackle

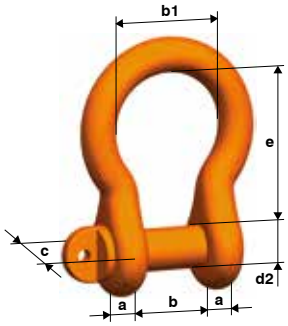
## Uncompromising quality.

This high-strength, bow shackle with a grade 10 special thread bolt and corresponding markings is ideally suited for all kinds of general lifting processes, without the risk of mix-ups.

Both sides of the smooth bolt rest in the eyes and the thread does not protrude into the opening of the shackle. Please check that the bolt is sitting tightly prior to each lifting operation.
The shackle cannot be mounted directly into the chain.

This pewag product comes with CE-marking and a full operating manual.

**GSCHW Bow shackle**




| Code | Load capacity [kg] | e [mm] | b [mm] | b1 [mm] | a [mm] | c [mm] | d2 [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|---|
| GSCHW 7/8 | 2,500 | 51 | 22 | 32 | 13 | 34 | 16 | 0.46 |
| GSCHW 10 | 4,000 | 64 | 27 | 43 | 16 | 40 | 19 | 0.85 |
| GSCHW 13 | 6,700 | 76 | 31 | 51 | 19 | 46 | 22 | 1.27 |
| GSCHW 16 | 10,000 | 95 | 43 | 68 | 25 | 59 | 28 | 2.90 |

# pewag KNEW Toggle

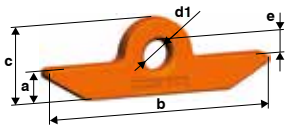
## Popular in the construction industry.

Thanks to its special low design, this toggle is frequently used for general transportation purposes in the construction industry, for instance of sheet piles. As the toggle is welded into the sling with the next size up chain link, it takes up little space and is also suitable for small bores. Please refer to the table for the minimum and maximum bore diameter (d).

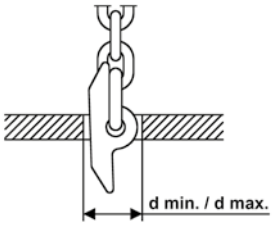
Also available in other designs upon request.

The toggle is manufactured according to EN 1677-1 with mechanical values according to G10 and full operating manual.

We recommend using a 10 mm chain for the transportation of standing sheet piles.

| KNEW Toggle | Code | For chain | Load capacity [kg] | e [mm] | a [mm] | b [mm] | c [mm] | d1 [mm] | d min. [mm] | d max. [mm] | Connecting link |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  | KNEW 8 | 8 | 2,500 | 10 | 17 | 120 | 38 | 15 | 40 | 60 | WIN 10 |





# pewag KRW Coupling ring

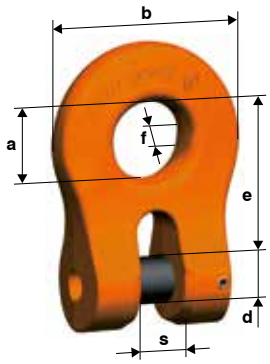
## A ring for all seasons.

This coupling ring is also flexible when it comes to customized applications and is a component of the clevis master sets KAGW and KMGW. It is manufactured according to EN 1677-1 with mechanical values for G10.

The ring may be assembled easily and quickly by a competent person, without the need for special tools. A full operating manual is available.

The coupling pin and the retaining pin are available as a KBSW spare parts set.

**KRW Coupling ring**




| Code | Load capacity [kg] | e [mm] | s [mm] | a [mm] | b [mm] | f [mm] | d [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|---|
| KRW 5/6 | 1,400 | 31 | 7 | 18 | 38 | 8 | 7.40 | 0.12 |
| KRW 7 | 1,900 | 43 | 10 | 24 | 54 | 11 | 9 | 0.21 |
| KRW 8 | 2,500 | 43 | 10 | 24 | 54 | 11 | 10 | 0.21 |
| KRW 10 | 4,000 | 51 | 12 | 28 | 63 | 14 | 12.50 | 0.37 |
| KRW 13 | 6,700 | 63 | 15 | 33 | 76 | 17 | 16 | 0.77 |
| KRW 16 | 10,000 | 74 | 18 | 40 | 88 | 20 | 20 | 1.36 |
| KRW 19/20 | 16,000 | 94 | 23 | 50 | 114 | 24 | 24 | 2.33 |
| KRW 22 | 19,000 | 102 | 25 | 50 | 122 | 27 | 27 | 3.95 |

# pewag KOW Clevis reeving link

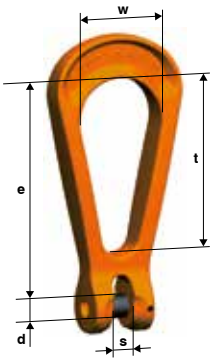
## All‘s well that couples well.

When it comes to quality, we offer no compromises – the middle ground is not where we operate. We specialise in practical, serviceable products – and the KOW clevis reeving link is one of them.

The high-strength, die-forged coupling eye serves to establish a direct connection with the chain. The link may also be used as an end link. No connecting link is required. This powerful package comes with BG-approval, CE-marking and a full operating manual and is manufactured according to EN 1677-1 with the mechanical values for G10.

The link may be assembled by a competent person easily and quickly, without the need for special tools. If individual components need to be exchanged, the system offers yet another bonus: The coupling pin and the retaining pin are available as a KBSW spare parts set!

**KOW Clevis reeving link**




| Code | Load capacity [kg] | e [mm] | t [mm] | w [mm] | d [mm] | s [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|
| KOW 7 | 1,900 | 92 | 70 | 34 | 9 | 9 | 0.33 |
| KOW 8 | 2,500 | 91 | 70 | 34 | 10 | 9 | 0.33 |
| KOW 10 | 4,000 | 128 | 102 | 50 | 12.50 | 12 | 0.75 |
| KOW 13 | 6,700 | 169 | 136 | 66 | 16 | 15 | 1.08 |
| KOW 16 | 10,000 | 214 | 172 | 83 | 20 | 18 | 2.93 |

# pewag KHSW Clevis sling hook

## By hook (no crook).

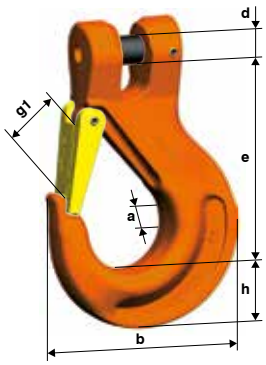
If you are looking for an easy, simple chain connection using a clevis system and without any connecting links, this universal sling hook with a forged safety catch is your best bet. The safety catch locks into the tip of the hook, thereby providing excellent protection against lateral shifts.

The clevis sling hook is manufactured in accordance with EN 1677-2 with the mechanical values for G10, comes with BG-approval and CE-marking and guarantees top performance under straight pull only.

A competent person will require no special tools for the quick and easy assembly of the chain. A full operating manual is provided. The safety catch set consists of a die-forged safety catch, a stainless steel spring and a safety sleeve, all of which are easy to assemble, without the need for special tools.

Spare parts are also easy to come by: The coupling pin and the retaining pin are available as a KBSW spare parts set. The SFGW safety catch set may also be used as a spare part.

**KHSW Clevis sling hook**




| Code | Load capacity [kg] | e [mm] | h [mm] | a [mm] | d [mm] | g1 [mm] | b [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|---|
| KHSW 5/6 | 1,400 | 69 | 20 | 15 | 7.40 | 19 | 66 | 0.29 |
| KHSW 7 | 1,900 | 95 | 28 | 19 | 9 | 26 | 90 | 0.61 |
| KHSW 8 | 2,500 | 95 | 28 | 19 | 10 | 26 | 90 | 0.62 |
| KHSW 10 | 4,000 | 109 | 35 | 25 | 12.50 | 31 | 108 | 1.19 |
| KHSW 13 | 6,700 | 136 | 41 | 34 | 16 | 39 | 131 | 2.12 |
| KHSW 16 | 10,000 | 155 | 49 | 37 | 20 | 45 | 153 | 3.49 |
| KHSW 19/20 | 16,000 | 184 | 53 | 51 | 24 | 53 | 177 | 5.64 |
| KHSW 22 | 19,000 | 214 | 62 | 52 | 27 | 62 | 196 | 9.05 |

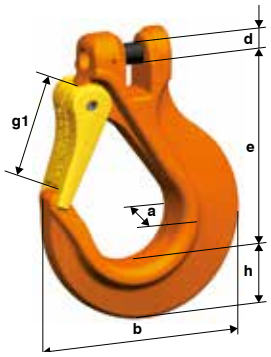
# pewag BKHSW Oversize clevis sling hook

## Resistance on a large scale.

The safety latch of the BKHSW oversize clevis sling hook locks into the tip of the hook, thereby providing excellent protection against lateral shifts. The jaw opening is significantly larger than that of the standard KHSW, making this product extra-flexible. Forged control markings make it easy to determine discard criteria. The product may be linked to the chain quickly and easily, without the need for an additional connecting element. The product is designed for straight pull only. Care must be taken to protect the tip of the hook and the safety catch against loading. The BKHSW oversize clevis sling hook is easily and quickly assembled by a competent person – no special tools required! The coupling pin and the lock pin are available as a spare parts set. The safety catch set consists of a die-forged safety catch, a stainless steel spring and a safety sleeve.

The product comes with a full operating manual that will answer any other questions you may have. Outstanding quality features include manufacturing according to EN 1677-2 with the mechanical values for G10, BG-approval and CE-marking. The KBSW spare parts set consists of a coupling pin and retaining pin. The SFGW-B spare parts set consists of a safety catch, spring and safety sleeve.

**BKHSW Oversize clevis sling hook**




| Code | Load capacity [kg] | e [mm] | h [mm] | a [mm] | d [mm] | g1 [mm] | b [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|---|
| BKHSW 8 | 2,500 | 93 | 27 | 25 | 10 | 32 | 98 | 1.01 |
| BKHSW 10 | 4,000 | 111 | 33 | 30 | 12.50 | 38 | 119 | 1.57 |

# pewag KCHW Clevis C-hook

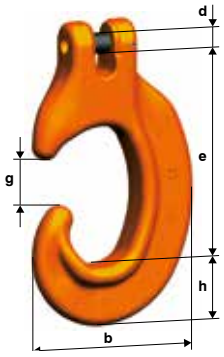
## „C“ for charming.

Simple and fast hooking and removal where no safety catch is required – this is where the KCHW clevis C-hook comes into its own! Its hook tip is shaped in such a way as to prevent accidental unhooking when not under load. The chain may be linked to the clevis system easily and speedily, without the need for additional connecting links.

The hook is manufactured in accordance with EN 1677-1 with the mechanical values for G10, comes with BG-approval, CE-marking and a full operating manual. The KBSW spare parts set consists of a coupling pin and a retaining pin. A competent person will find both the hook and its spare parts set with coupling pin and retaining pin easy and quick to assemble, without the need for special tools.

Provided that it is used under straight pull only and without the tip being loaded, the clevis C-hook is a charming solution indeed.

**KCHW Clevis C-hook**




| Code | Load capacity [kg] | e [mm] | h [mm] | d [mm] | b [mm] | g [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|
| KCHW 7 | 1,900 | 91 | 28 | 9 | 74 | 20 | 0.52 |
| KCHW 8 | 2,500 | 90 | 28 | 10 | 74 | 20 | 0.51 |
| KCHW 10 | 4,000 | 129 | 39 | 12.50 | 107 | 28 | 1.51 |
| KCHW 13 | 6,700 | 166 | 51 | 16 | 137 | 41 | 3.13 |
| KCHW 16 | 10,000 | 205 | 60 | 20 | 166 | 45 | 5.56 |

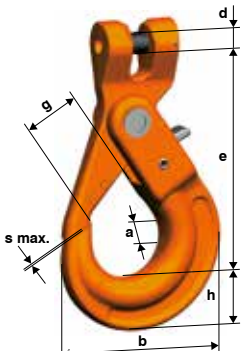
# pewag KLHW Clevis safety hook

## Guaranteed stress-resistant.

This clevis safety hook closes and locks automatically and has a significantly larger jaw opening than the KHSW clevis hook, which makes it much more versatile. The hook corresponds to EN 1677-3 with the mechanical values for G10. For safety reasons, it cannot be opened while under load. Please note that the hook is suitable for straight pull only and that the load must not be placed on the tip of the hook or the safety catch. If these safety requirements are adhered to, the hook is bound to live up to its name!

Assembly is quick and easy and does not require any special tools – however, it must be performed by a competent person. The full operating manual tells you all you need to know about using this product correctly. The hook comes with BG-approval, CE-marking and exchangeable spare parts. The coupling pin and retaining pin are available as a KBSW spare parts set, as is the VLHW locking set on the back of the hook.

**KLHW Clevis safety hook**



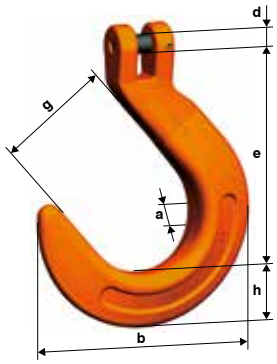

| Code | Load capacity [kg] | e [mm] | h [mm] | a [mm] | b [mm] | d [mm] | g [mm] | s max. [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|---|---|
| KLHW 5/6 | 1,400 | 94 | 20 | 17 | 71 | 7.40 | 28 | 1 | 0.56 |
| KLHW 7 | 1,900 | 123 | 26 | 20 | 88 | 9 | 34 | 1 | 0.87 |
| KLHW 8 | 2,500 | 123 | 26 | 20 | 88 | 10 | 34 | 1 | 1.00 |
| KLHW 10 | 4,000 | 144 | 30 | 29 | 107 | 12.50 | 45 | 1 | 1.61 |
| KLHW 13 | 6,700 | 180 | 40 | 35 | 138 | 16 | 52 | 1.50 | 3.25 |
| KLHW 16 | 10,000 | 218 | 50 | 41 | 168 | 20 | 60 | 2 | 5.95 |
| KLHW 19/20 | 16,000 | 259 | 62 | 50 | 194 | 24 | 70 | 2 | 12.89 |
| KLHW 22 | 19,000 | 286 | 65 | 52 | 211 | 27 | 81 | 2 | 15.91 |
| KLHW 26 | 26,500 | 338 | 79 | 61 | 253 | 33 | 100 | 2 | 21.33 |

# pewag KFW Clevis foundry hook

## Open wide.

If you've got it, flaunt it - the oversize jaw size of the KFW clevis foundry hook plays all the tricks. This hook is frequently used in foundries and is manufactured according to EN 1677-1 with the mechanical values of G10. Other classic pewag quality features include BG-approval and CE-marking. Yet another typical pewag feature – the clevis system means that linking the hook to the chain is quick and easy, without the need for a connecting element. A full operating manual outlines everything you need to know for efficient and safe handling.

Please note that the hook is suitable for straight pull only and that the load must not be placed on the hook tip. Please check whether use without the safety catch is admissible prior to each use. For a competent person, assembly of the clevis foundry hook is quick and easy and does not require any special tools. Spare parts for the coupling pin and retaining pin are easily procured, thanks to the designated spare parts set.

| KFW Clevis foundry hook | Code | Load capacity [kg] | e [mm] | h [mm] | a [mm] | g [mm] | d [mm] | b [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|---|---|
|  | KFW 7 | 1,900 | 121 | 29 | 25 | 64 | 9 | 118 | 1.02 |
| | KFW 8 | 2,500 | 120 | 29 | 25 | 64 | 10 | 118 | 1.04 |
| | KFW 10 | 4,000 | 140 | 35 | 32 | 76 | 12.50 | 143 | 1.74 |
| | KFW 13 | 6,700 | 170 | 42 | 40 | 89 | 16 | 170 | 3.38 |

# pewag KPW Clevis grab hook

## Perfect interplay.

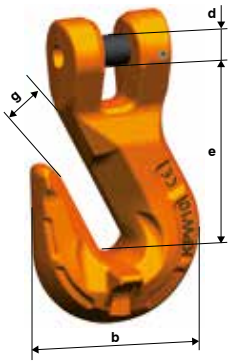
This standard shortening hook ensures optimal interaction between chain and hook thanks to the special design of the chain contact. Even when shortened, the load capacity is not reduced and the product is suitable for retrofitting. The clevis system makes it possible to link the chain to the hook quickly and easily, without the need for an additional connecting element. The coupling pin and the retaining pin are available as a KBSW spare parts set.

The clevis grab hook is manufactured according to EN 1677-1 with the mechanical values for G10 and comes with CE-marking. As specified in the full operating manual, it is not suitable for tip loading and assembly must always be performed by a competent person to ensure safe usage. No special tools are required for assembling this product.

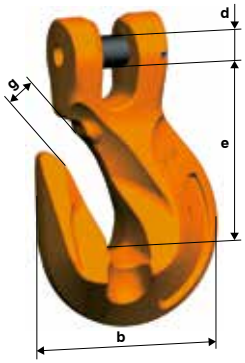

**KPW Clevis grab hook**

| Code | Load capacity [kg] | e [mm] | b [mm] | d [mm] | g [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|
| KPW 6 | 1,400 | 47 | 44 | 7.40 | 7 | 0.19 |
| KPW 7 | 1,900 | 63 | 57 | 9 | 9 | 0.46 |
| KPW 8 | 2,500 | 63 | 57 | 10 | 9 | 0.46 |
| KPW 10 | 4,000 | 78 | 71 | 12.50 | 12 | 0.90 |
| KPW 13 | 6,700 | 93 | 92 | 16 | 15 | 1.85 |
| KPW 16 | 10,000 | 115 | 113 | 20 | 19 | 3.49 |
| KPW 19/20 [1] | 16,000 | 141 | 150 | 24 | 25 | 6.88 |
| KPW 22 [1] | 19,000 | 158 | 165 | 27 | 27 | 9.68 |

[1] Shape without saddle



Shape with support surface



Shape without support surface

**pewag – passionate about user-friendliness**

pewag sets great store by the user-friendliness of its products and stays abreast of market requirements in this respect. True to this principle, the design of parallel hooks in the pewag range is being adapted. The new design for dimensions 5 to 16 includes lateral supporting bridges, offering perfect support for pewag winner chains and ensuring optimised positioning of the chain on the bearing surface.

**Exception:** Chain dimensions from 19/20 have not yet been adjusted. For technical reasons, chains with these dimensions must not touch the bearing surface of the hook.

# pewag KPSW Clevis grab hook with safety catch

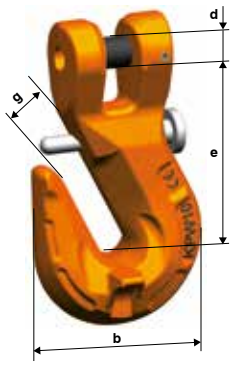
## Safe shortening.

This standard shortening hook ensures optimal interaction between chain and hook thanks to the special design of the chain contact, providing extra protection from accidental chain release. Even when shortened, the load capacity is not reduced and the product is suitable for retrofitting. The clevis system makes it possible to link the chain to the hook quickly and easily, without the need for an additional connecting element. The coupling pin and the retaining pin are available as a KBSW spare parts set.

Thanks to its safety mechanism which prevents the accidental unhooking of the chain, this hook is also ideal for securing loads.

The safety set PSGW consists of bolt, spring and nut and is also available as a spare parts set. The clevis grab hook is manufactured according to EN 1677-1 with the mechanical values for G10 and comes with CE-marking. As specified in the full operating manual, tip loading must be avoided and assembly must always be performed by a competent person to ensure safe usage. No special tools are required for assembling this product.


**KPSW Clevis grab hook with safety catch**



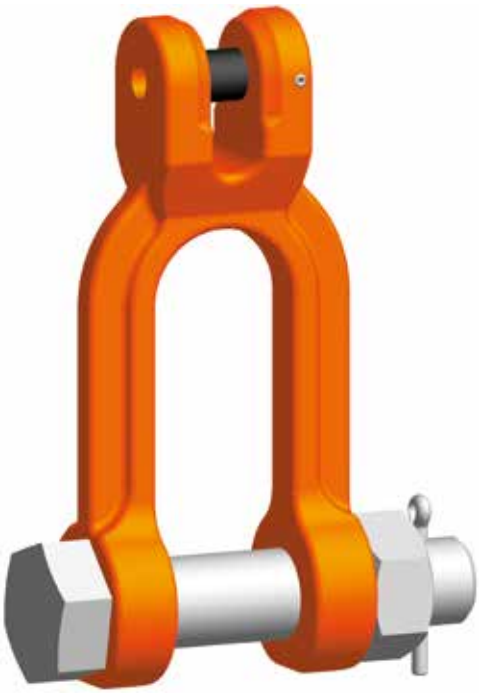

| Code | Load capacity [kg] | e [mm] | b [mm] | d [mm] | g [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|
| KPSW 7 | 1,900 | 63 | 57 | 9 | 9 | 0.48 |
| KPSW 8 | 2,500 | 63 | 57 | 10 | 9 | 0.48 |
| KPSW 10 | 4,000 | 78 | 71 | 12.50 | 12 | 0.93 |
| KPSW 13 | 6,700 | 93 | 92 | 16 | 15 | 1.90 |
| KPSW 16 | 10,000 | 115 | 113 | 20 | 19 | 3.55 |

# pewag KSCHW Clevis shackle

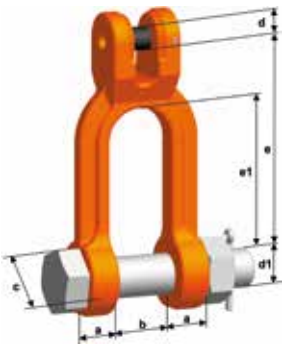
## The missing link.

This high-performance shackle consists of a special screw, nut and split pin, which makes losing the screw practically impossible. The wide opening makes this shackle extremely versatile – for instance, it may be used on spreader beams. The clevis system makes linking the shackle to the chain quick and simple, without the need for an additional connecting element. The clevis shackle is manufactured according to EN 1677-1 with mechanical values for G10, and comes with a full operating manual, BG-approval and CE-marking.

Prior to each lifting operation, it must be checked that the safety split pin is in place and that the system is subjected to straight pull only. Lateral forces must not be applied. Assembly must be handled by a competent person. No special tools are required. The KBSW spare parts set consists of coupling pin and retaining pin. The KBMSW spare parts set consists of special screw, nut and split pin.



**KSCHW Clevis shackle**




| Code | Load capacity [kg] | e [mm] | e1 [mm] | b min. [mm] | a [mm] | d [mm] | c [mm] | d1 [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|---|---|
| KSCHW 7 | 1,900 | 76 | 54 | 26 | 12 | 9 | 31 | 16 | 0.64 |
| KSCHW 8 | 2,500 | 76 | 54 | 26 | 12 | 10 | 31 | 16 | 0.66 |
| KSCHW 10 | 4,000 | 105 | 76 | 32 | 16 | 12.50 | 39 | 20 | 1.22 |
| KSCHW 13 | 6,700 | 113 | 77 | 42 | 21 | 16 | 50 | 24 | 2.64 |

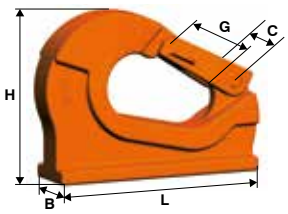
# pewag AWHW Weld-on hook

## Welding for winners.

This high-strength hook is particularly well suited for welding onto excavator bucket, spreader beams etc. Its outstanding features include a die-forged, tempered safety catch, making it extrarobust. As the safety catch locks into the tip of the hook, it provides excellent protection against lateral shifting.

The product is manufactured according to EN 1677-1 with a higher load capacity. Attention should be paid to the delivered operating manual and to the welding instructions. A CE-marking further emphasises the superior quality of this product. Replacing the SFGW-A safety catch set is easy and quick, without the need for special tools.

**AWHW Weld-on hook**




| Code | Load capacity [kg] | L [mm] | H [mm] | G [mm] | B [mm] | C [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|
| AWHW 1,3 | 1,300 | 95 | 74 | 20 | 25 | 34 | 0.67 |
| AWHW 3,8 | 3,800 | 132 | 106 | 26 | 35 | 40 | 1.40 |
| AWHW 6,3 | 6,300 | 167 | 133 | 29 | 45 | 49 | 2.95 |
| AWHW 10 | 10,000 | 175 | 136 | 29 | 50 | 49 | 4.02 |

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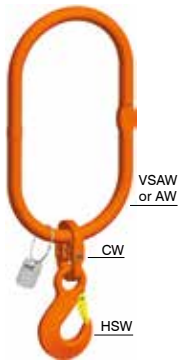
# pewag ÜW Transition assembly

## For simple hooks according to DIN 15401 – smooth transition guaranteed!

Large master rings, combined with CW Connex and HSW eye hooks, make it possible to use smaller hooks, thereby opening up a wide range of possible combinations and load capacities, thanks to the modular assembly system. For details, please refer to the full operating manual.

The ÜW transition link assembly is manufactured according to EN 818-4 with the mechanical values for G10 and ensures smooth transitions throughout the pewag product range.

**ÜW Transition assembly**




| Code | Single hook DIN 15401 | Load capacity [kg] | Consisting of | Weight [kg/pc.] |
|---|---|---|---|---|
| ÜW 32/16 I AW-HSW Connex | 32 | 16,000 | AW 50/CW 26/HSW 19/20 | 28.86 |
| ÜW 32/19 I AW-HSW Connex | 32 | 19,000 | AW 50/CW 26/HSW 22 | 30.54 |
| ÜW 32/26,5 I AW-HSW Connex | 32 | 26,500 | AW 50/CW 26/HSW 26 | 36.89 |
| ÜW 50/4 I VSAW-HSW Connex | 50 | 4,000 | VSAW 1-16/CW 16/HSW 10 | 12.54 |
| ÜW 50/6,7 I VSAW-HSW Connex | 50 | 6,700 | VSAW 1-16/CW 16/HSW 13 | 13.73 |
| ÜW 50/10 I VSAW-HSW Connex | 50 | 10,000 | VSAW 1-16/CW 16/HSW 16 | 15.05 |
| ÜW 50/16 I VSAW-HSW Connex | 50 | 16,000 | VSAW 1-22/CW 22/HSW 19/20 | 28.22 |
| ÜW 50/19 I VSAW-HSW Connex | 50 | 19,000 | VSAW 1-22/CW 22/HSW 22 | 29.90 |
| ÜW 50/26,5 I VSAW-HSW Connex | 50 | 26,500 | VSAW 1-26/CW 26/HSW 26 | 41.89 |
| ÜW 50/40 I AW-HSW Connex | 50 | 40,000 | AW 72/CW 32/HSW 32 | 80.76 |
| ÜW 100/26,5 I VSAW-HSW Connex | 100 | 26,500 | VSAW 1-32/320/CW 26/HSW 26 | 68.89 |
| ÜW 100/40 I VSAW-HSW Connex | 100 | 40,000 | VSAW 1-32/320/CW 32/HSW 32 | 87.26 |

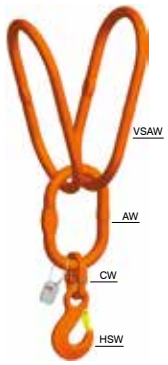
# pewag ÜW Transition assembly

## For double hooks according to DIN 15402 – flawless finish.

Large master rings, combined with CW Connex and HSW eye hooks, make it possible to use smaller hooks, thereby opening up a wide range of possible combinations and load capacities, thanks to the modular assembly system. For details, please refer to the full operating manual.

The ÜW transition link assembly is manufactured according to EN 818-4 with the mechanical values for G10 and is regarded as a high-quality product that lives up to its name throughout the pewag product range.

**ÜW Transition assembly**




| Code | Double hook DIN 15402 | Load capacity [kg] | Consisting of | Weight [kg/pc.] |
|---|---|---|---|---|
| ÜW 50/4 II VSAW-HSW Connex | 50 | 4,000 | 2xVSAW 1-16/AW36/ CW16/ HSW10 | 28.09 |
| ÜW 50/6,7 II VSAW-HSW Connex | 50 | 6,700 | 2xVSAW 1-16/AW36/ CW16/ HSW13 | 29.28 |
| ÜW 50/10 II VSAW- HSW Connex | 50 | 10,000 | 2xVSAW 1-16/AW36/ CW16/ HSW16 | 30.60 |
| ÜW 50/16 II VSAW-HSW Connex | 50 | 16,000 | 2xVSAW 1-16/AW36/ CW19/20/HSW19/20 | 33.10 |
| ÜW 50/19 II VSAW-HSW Connex | 50 | 19,000 | 2xVSAW 1-22/AW50/ CW26/ HSW22 | 67.09 |
| ÜW 50/26,5 II VSAW-HSW Connex | 50 | 26,500 | 2xVSAW 1-22/AW50/ CW26/ HSW26 | 73.44 |
| ÜW 50/36 II VSAW-HSW Connex | 50 | 36,000 | 2xVSAW 1-22/AW50/ CW32/ HSW32 | 91.81 |
| ÜW 100/26,5 II VSAW-HSW Connex | 100 | 26,500 | 2xVSAW 1-32/320/AW50/ CW26/HSW26 | 133.44 |
| ÜW 100/40 II VSAW-HSW Connex | 100 | 40,000 | 2xVSAW 1-32/320/AW50/ CW32/HSW32 | 151.81 |

VSAW angle of inclination: max. 35°.

# Special accessories in G8

## Product overview

**Content**



# pewag U Unilock connecting link

## Heat-resistant up to 100 °C.

This universal connecting link in Grade 8 is suitable for a wide range of applications.

The connecting link is easy and quick to assemble by a competent person thanks to the hexagon screw and nut. A full operating manual provides detailed information on the assembly process. The connecting link is manufactured according to EN 1677-1, comes with CE-marking and is heat-resistant up to 100 °C. Always ensure that the nut is not overtightened and that the screw is able to rotate.

The special screw, the hexagonal nut and washers are available as a spare parts set. As the screw is a special screw, it must always be replaced by an original part.

**U Unilock connecting link**


| Code | Load capacity [kg] | e [mm] | b [mm] | d [mm] | s [mm] | a [mm] | M [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|---|
| U 5/6 | 1,120 | 33 | 21 | 9 | 11 | 17 | 7 | 0.077 |
| U 7 | 1,500 | 49 | 28 | 13 | 16 | 24 | 9 | 0.22 |
| U 8 | 2,000 | 48 | 28 | 13 | 16 | 24 | 10 | 0.22 |
| U 10 | 3,150 | 60 | 35 | 16 | 20 | 28 | 12 | 0.41 |
| U 13 | 5,300 | 72 | 39 | 18 | 24 | 34 | 16 | 0.65 |
| U 16 | 8,000 | 80 | 47 | 23 | 32 | 44 | 20 | 1.34 |
| U 19/20 | 12,500 | 96 | 56 | 26 | 36 | 52 | 24 | 2.03 |
| U 26 | 21,200 | 121 | 77 | 36 | 49 | 74 | 33 | 4.70 |

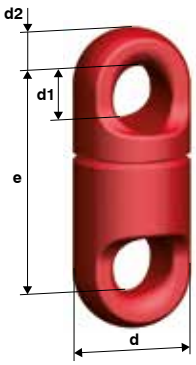
# pewag DF Swivel

## 130 °C operating temperature.

This swivel is an excellent choice if you are looking for a special accessory in grade 8 that may be rotated under load and withstands an operating temperature of up to 130 °C.

The product is manufactured according to the pewag factory standard and comes with CE-marking, BG-approval and a full operating manual.

**DF Swivel**




| Code | Load capacity [kg] | e [mm] | d [mm] | d1 [mm] | d2 [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|
| DF 5/6 [1)] | 1,120 | 44 | 22 | 12 | 7 | 0.10 |
| DF 7/8 [1)] | 2,000 | 60 | 27 | 16 | 8 | 0.20 |
| DF 10 [1)] | 3,150 | 74 | 32 | 20 | 10 | 0.30 |
| DF 13 [1)] | 5,300 | 92 | 40 | 25 | 13 | 0.60 |

[1)] Upon request!

# pewag KVS Clevis connector

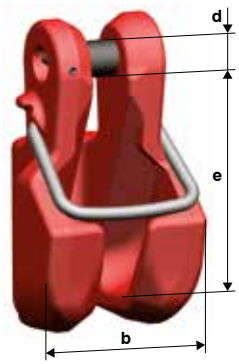
## A perfect fit.

This clevis connector for grade 8 is designed for the shortening of chain slings and forming of slings that must not tighten and can be mounted without the need for special tools.

The shortening claw has a safety mechanism to prevent the accidental unhooking of the load, comes with CE-marking and BG-approval and is manufactured according to EN 1677-1. A full operating manual outlines all areas of possible use and also gives information on what to watch out for: for instance, the correct load direction of the chain and the correct assessment of the load capacity if combined with grade 10 chains. The clevis system makes this product easy and quick to assemble.

The coupling pin and the retaining pin are available as a KBSW spare parts set.

**KVS Clevis connector**




| Code | Load capacity [kg] | e [mm] | b [mm] | d [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|
| KVS 6 | 1,120 | 45 | 36 | 7,4 | 0.27 |
| KVS 7 | 1,500 | 58 | 44 | 9 | 0.50 |
| KVS 8 | 2,000 | 58 | 44 | 10 | 0.50 |
| KVS 10 | 3,150 | 70 | 55 | 12,5 | 0.80 |
| KVS 13 | 5,300 | 90 | 70 | 16 | 1.53 |

**Safety warnings:**

- Only load the inside chain.
- Only use with a safety device.
- Ensure that the chain fits neatly and securely.

# pewag BRG Concrete pipe lifting sling

## Perfection you can touch.

This three-leg chain sling with self-tightening grips is perfect for lifting and transporting concrete pipes with a diameter between 1,300 and 2,300 mm.

The pipes may have a wall thickness from 60 to 150 mm, with a maximum weight of 2,500 kg.

The concrete pipe lifting sling corresponds to the pewag factory standard and may be used in a three-leg chain sling with an inclination angle of up to 30°. For safety reasons, the grippers must not be used for diagonal pull. The maximum operating temperature is 100 °C.

A full operating manual provides information on all features and areas of application.

**BRG Concrete pipe lifting sling**

| Code | Leg length [mm] | Load capacity up to 30° [kg] | Up to tube diameter [mm] | Weight [kg/pc.] |
|---|---|---|---|---|
| WIN 6 200 III VW-BRG 1500 | 1,500 | 2,500 | 1,300 | 32.00 |
| WIN 6 200 III VW-BRG 1500 Unilock | 1,500 | 2,500 | 1,300 | 34.40 |
| WIN 6 200 III VW-BRG 2000 | 2,000 | 2,500 | 1,800 | 35.10 |
| WIN 6 200 III VW-BRG 2000 Unilock | 2,000 | 2,500 | 1,800 | 35.30 |
| WIN 6 200 III VW-BRG 2500 Unilock | 2,500 | 2,500 | 2,300 | 36.60 |
| WIN 6 200 III VXKW-BRG 2000 | 2,000 | 2,500 | 1,800 | 35.30 |
| WIN 6 200 III VXKW-BRG 2500 | 2,500 | 2,500 | 2,300 | 36.60 |
| WIN 6 400 III VW-BRG 1500 | 1,500 | 2,500 | 1,300 | 32.00 |
| WIN 6 400 III VW-BRG 1500 Unilock | 1,500 | 2,500 | 1,300 | 34.40 |
| WIN 6 400 III VW-BRG 2000 | 2,000 | 2,500 | 1,800 | 35.10 |
| WIN 6 400 III VW-BRG 2000 Unilock | 2,000 | 2,500 | 1,800 | 35.30 |
| WIN 6 400 III VW-BRG 2500 Unilock | 2,500 | 2,500 | 2,300 | 36.60 |
| WIN 6 400 III VXKW-BRG 2000 | 2,000 | 2,500 | 1,800 | 35.30 |
| WIN 6 400 III VXKW-BRG 2500 | 2,500 | 2,500 | 2,300 | 36.60 |

Customs lengths are available upon request!

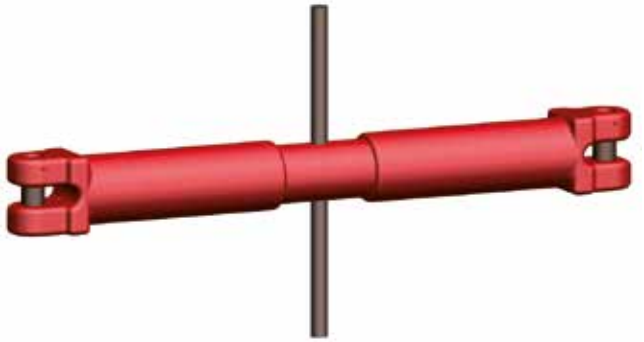
**Note:** BRG assemblies are also available with pewag winner 200 chain.
Order example: WIN 6 200 II AW-BRG 1500

# pewag KSS Clevis turnbuckle

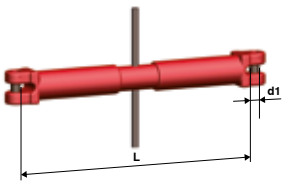
## Takes robustness to a higher level.

Some jobs need a no-nonsense approach for top results. The KSS clevis turnbuckle has a particularly robust design, with grade 8 clevis couplings that are die-forged and tempered on both sides. By mounting the turnbuckle into the chain strands, the length of the chain can be adjusted precisely, for instance when the load needs to be aligned in a certain way.

The turnbuckle is manufactured according to EN 1677-1 and comes with a full operating manual. It is suitable for straight pull only and may be assembled easily and quickly thanks to its clevis structure, without the need for special tools. For lifting operations, an additional safety chain must be used to prevent accidental opening. One of the great advantages of this product lies in the fact that the coupling pin and the retaining pin are available as a KBS-KSS spare parts set.



**KSS Clevis turnbuckle**




| Code | Load capacity [kg] | LC lashing capacity [kN] | Tension range [mm] | L min. [mm] | L max. [mm] | d1 [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|
| KSS 8 | 2,000 | 40 | 120 | 330 | 450 | 10 | 2.01 |
| KSS 10 | 3,150 | 63 | 225 | 460 | 685 | 12 | 4.24 |
| KSS 13 | 5,300 | 100 | 265 | 520 | 785 | 16 | 6.55 |
| KSSW 16 | 10,000 | 200 | 250 | 530 | 780 | 20 | 10.00 |

# pewag SM S-Hook

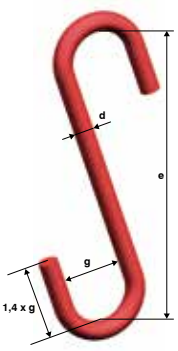
## Bent on success.

This SM S-hook withstands temperatures of up to 300 °C. It is manufactured according to EN 1677-1 and classified as a grade 8 special accessory. The hook may also be used as an intermediate hook if the „g“ jaw size of the HSW hook is insufficient, or as an intermediate hook with wire rope loops.

Prior to each use, please determine whether the hook may be used without a safety catch. Always observe the load capacities – they do not correspond to grade 10! A full operating manual provides details on usage and application.

This SM S-hook comes with CE-marking. It is suitable for straight pull only and the tip must not be placed under load. An added benefit: Customised designs (also with a safety catch) are available upon request!

**SM S-hook**




| Code | Load capacity [kg] | e [mm] | g [mm] | d [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|
| SM 5 | 800 | 180 | 42 | 16 | 0.60 |
| SM 7/8 | 2,000 | 220 | 53 | 23 | 1.50 |
| SM 10 | 3,150 | 280 | 58 | 31 | 3.40 |
| SM 13 | 5,300 | 400 | 90 | 40 | 8.40 |
| SM 16 | 8,000 | 500 | 120 | 50 | 16.00 |
| SM 19 | 11,200 | 550 | 130 | 60 | 26.00 |

Custom designs are available upon request!

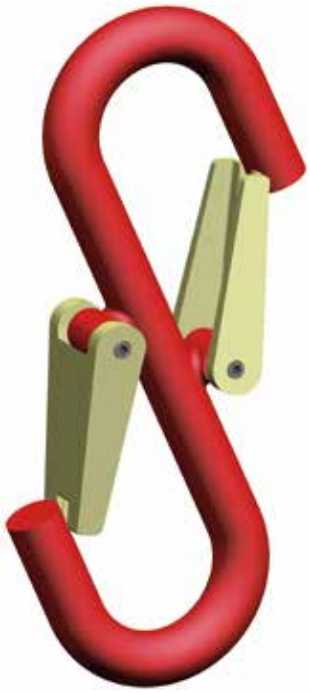
# pewag SSM S-Hook

## Better safe than sorry.

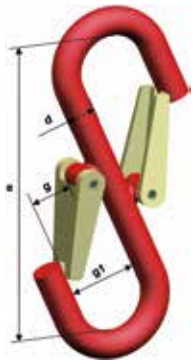
SSM S-hook with safety catch. This SSM S-hook withstands temperatures of up to 300°C. It is manufactured according to EN 1677-1 and classified as a grade 8 special accessory. The hook may also be used as an intermediate hook if the „g1“ jaw size of the HSW hook is insufficient, or as an intermediate hook with wire rope loops.

Always observe the load capacities – they do not correspond to grade 10! A full operating manual provides details on usage and application.

This SSM S-hook comes with CE-marking. It is suitable for straight pull only and the tip must not be placed under load.



**SSM S-Hook**



| Code | Load capacity [kg] | e [mm] | g [mm] | g1 [mm] | d [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|
| SSM 5 | 800 | 180 | 31 | 42 | 16 | 0.60 |
| SSM 7/8 | 2,000 | 220 | 43 | 53 | 23 | 1.50 |
| SSM 10 | 3,150 | 280 | 51 | 58 | 31 | 3.40 |
| SSM 13 | 5,300 | 400 | 76 | 90 | 40 | 8.40 |

Custom designs are available upon request!

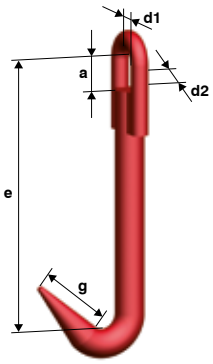
# pewag BA Bale hook

## Concentrated power.

The bale hook is a special accessory in grade 8, suitable for welded or Connex systems. It is ideal for lifting and transporting bales and structural steel wire meshes, is manufactured according to the pewag factory standard and comes with CE-marking. A full operating manual provides details on usage and application.

Prior to each use, please verify whether the hook may be used without a safety catch. Also note that this hook is suitable for straight pull only and that the load must not be placed on the tip of the hook. An added bonus – customised designs are available upon request!

**BA Bale hook**




| Code | Load capacity [kg] | e [mm] | d1 [mm] | g [mm] | a [mm] | d2 [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|---|
| BA 5/6 | 1,120 | 160 | 16 | 40 | 24 | 7 | 0.36 |
| BA 7/8 | 2,000 | 200 | 19 | 50 | 30 | 10 | 0.72 |
| BA 10 | 3,150 | 260 | 27 | 65 | 39 | 13 | 1.78 |

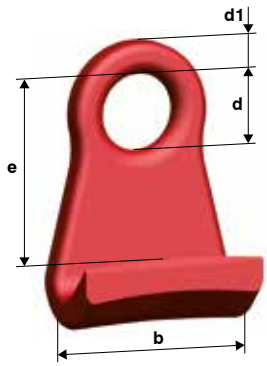
# pewag FA Barrel hook

## Truly uplifting.

Please note that an inclination angle of 30° is the maximum value for this special accessory in grade 8. The hook is perfect for lifting and transporting barrels.

To do this, two hooks are attached to chain, which contracts under load. Moreover, the barrel hook complies with the pewag factory standard and comes with a full operating manual.

**FA Barrel hook**




| Code | Load capacity [kg] | e [mm] | d [mm] | d1 [mm] | b [mm] | Weight [kg/pc.] |
|---|---|---|---|---|---|---|
| FA 5/6 | 500 | 90 | 40 | 17 | 70 | 0.80 |

**Order example for a complete chain sling:**
- WIN 6 II AW-S-FA 2500
- WIN 6 II AW-S-FA 100

# pewag HZ High-tensile lifting tong

## Benefits that go further.

The tips of these high-tensile lifting tongs in grade 8 are reinforced, making the lifting of short steel bars easier than ever. Naturally the tongs comply with the pewag works standard and come with a full operating manual.

Always observe the load capacities - they do not correspond to grade 8 and grade 10! Customised designs are available upon request, making these tongs a truly superior choice.

**HZ High-tensile lifting tong**

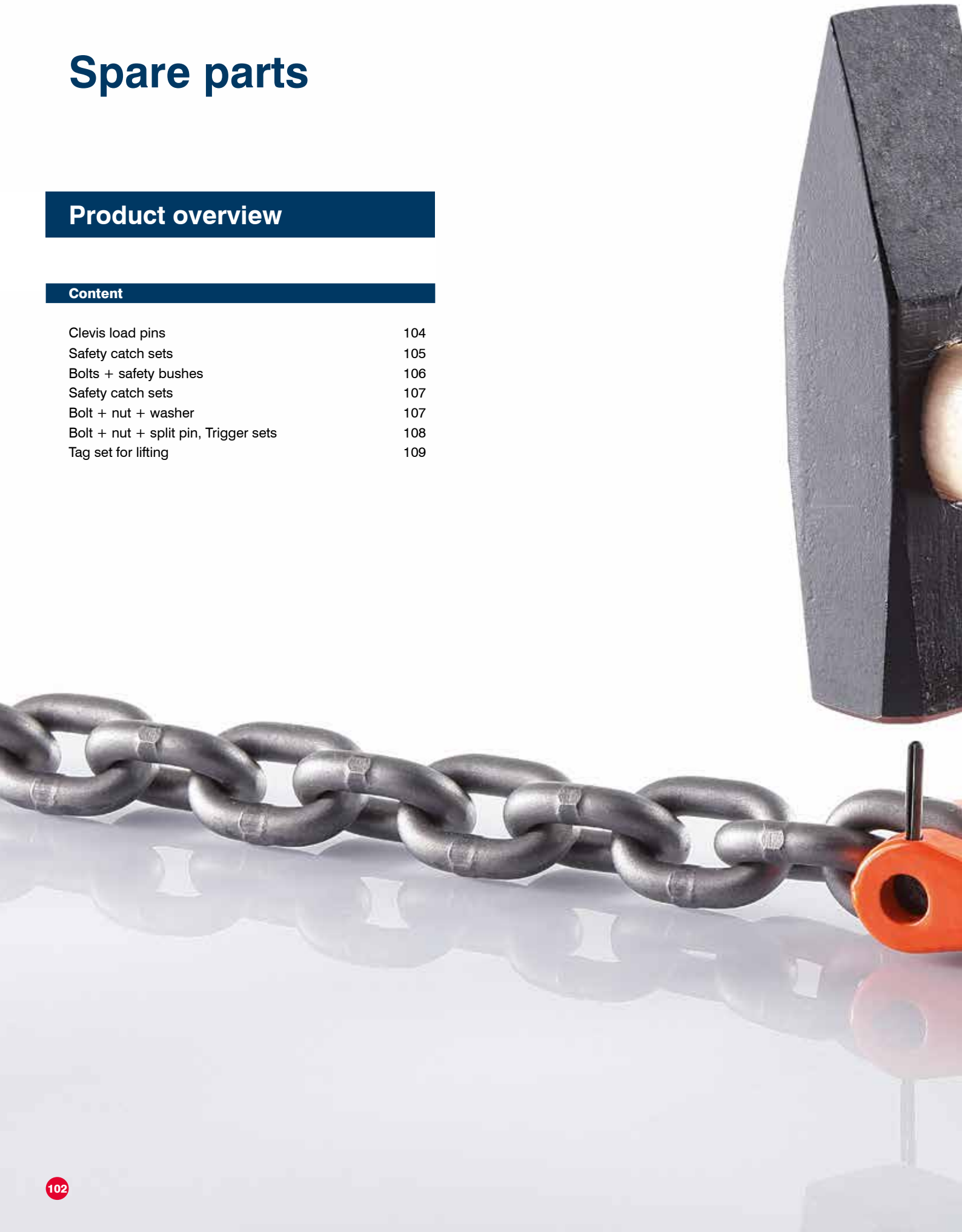

| Code | Load capacity [kg] | Range [mm] | e [mm] | d [mm] | Weight [kg/pc.] | Required chain sling |
|---|---|---|---|---|---|---|
| HZ 0,125 | 125 | 100 - 200 | 310 | 15 | 2.43 | WIN 5 II AW-CW 310 |
| HZ 0,25 | 250 | 130 - 300 | 466 | 20 | 4.77 | WIN 6 II AW-CW 410 |
| HZ 0,5 | 500 | 160 - 400 | 629 | 28 | 12.00 | WIN 7 II AW-CW 570 |
| HZ 1 | 1,000 | 215 - 500 | 808 | 30 | 24.00 | WIN 8 II AW-CW 730 |
| HZ 2 | 2,000 | 250 - 600 | 959 | 30 | 41.00 | WIN 8 II AW-CW 830 |

# Spare parts

## Product overview

**Content**



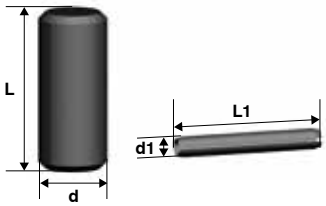


# pewag KBSW Clevis load pin

## Easily identified.

The clevis load pin comes with a black corropro coating and corresponds to EN 1677-1, with a higher load capacity. It serves as a standard clevis load pin and is stamped with its grade „10“ and the manufacturer logo „PWW“ and is suitable as a replacement load pin for pewag clevis parts. It is easy to operate, with an outstanding safety factor.

**KBSW Clevis load pin**




| Code | L [mm] | d [mm] | L1 [mm] | d1 [mm] | Weight [kg/pc.] | For accessory part |
|---|---|---|---|---|---|---|
| KBSW 5/6 | 16.50 | 7.40 | 16 | 2.50 | 0.01 | XKW 5/6, KRW 5/6, KHSW 5/6, KLHW 5/6, KPW 6, KVS 6 |
| KBSW 7 | 23 | 9 | 22 | 3 | 0.02 | XKW 7, KRW 7, KOW 7, KHSW 7, KCHW 7, KLHW 7, KFW 7, KPW 7, KPSW 7, KSCHW 7, KVS 7 |
| KBSW 8 | 23 | 10 | 22 | 3 | 0.02 | XKW 8, KRW 8, KOW 8, KHSW 8, BKHSW 8, KCHW 8, KLHW 8, KFW 8, KPW 8, KPSW 8, KSCHW 8, KVS 8 |
| KBSW 10 | 29.50 | 12.50 | 28 | 3.50 | 0.03 | XKW 10, KRW 10, KOW 10, KHSW 10, BKHSW 10, KCHW 10, KLHW 10, KFW 10, KPW 10, KPSW 10, KSCHW 10, KVS 10 |
| KBSW 13 | 37 | 16 | 36 | 4 | 0.06 | XKW 13, KRW 13, KOW 13, KHSW 13, KCHW 13, KLHW 13, KFW 13, KPW 13, KPSW 13, KSCHW 13, KVS 13 |
| KBSW 16 | 52 | 20 | 40 | 4.50 | 0.12 | XKW 16, KRW 16, KOW 16, KHSW 16, KCHW 16, KLHW 16, KPW 16, KPSW 16 |
| KBSW 19/20 | 73 | 24 | 50 | 5 | 0.27 | KRW 19/20, KHSW 19/20, KLHW 19/20, KPW 19/20 |
| KBSW 22 | 71 | 27 | 55 | 5 | 0.29 | KRW 22, KHSW 22, KLHW 22, KPW 22 |
| KBSW 26 | 86 | 33 | 70 | 5 | 0.59 | KLHW 26 |

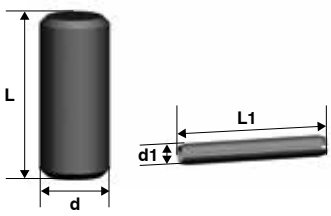
Please specify the hook design when placing your order!

# pewag KBS-KSS Special clevis load pin

## Stamped for quality.

The spare clevis load pin for KSS clevis turnbuckle consists of a high-strength, tempered bolt with corropro coating and a safety sleeve.

**KBS-KSS Special clevis load pin**




| Code | d x L [mm] | d1 x L1 [mm] | For accessory part |
|---|---|---|---|
| KBS-KSS 6/7 | 8 x 22.5 | 3 x 22 | KSS 6/7 |
| KBS-KSS 8 | 10 x 27.2 | 3 x 26 | KSS 8 |
| KBS-KSS 10 | 12 x 32.2 | 4 x 32 | KSS 10 |
| KBS-KSS 13 | 16 x 45.7 | 4 x 40 | KSS 13 |

# pewag SFGW Safety catch sets

## Good at their job.

These SFGW safety catch sets with die-forged and electro-galvanised safety catch and a spring from rust-proof spring steel are all about safety and security.

They are suitable for pewag winner accessories. Please refer to the tables to determine which set goes with which hook.
The safety catch sets are in a league of their own – even the tiniest pewag parts offer outstanding quality!

**SFGW Safety catch set**

| Code | For accessory part |
|---|---|
| SFGW 5/6 | HSW 5/6, KHSW 5/6 |
| SFGW 7/8 | HSW 7/8, KHSW 7, KHSW 8, WS 7/8, EHS 7/8, WSBW 7/8 |
| SFGW 10 | HSW 10, KHSW 10, WS 10, EHS 10, WSBW 10 |
| SFGW 13 | HSW 13, KHSW 13, WS 13, EHS 13, WSBW 13, SSM 5 |
| SFGW 16 | HSW 16, KHSW 16 |
| SFGW 19/20 | HSW 19/20, KHSW 19/20, SSM 7/8 |
| SFGW 22 | HSW 22, KHSW 22, SSM 10 |
| SFGW 26/32 | HSW 26, HSW 32, HS 32, SSM 13 |

**SFGW-G Safety catch set**

| Code | For accessory part |
|---|---|
| SFGW-G 8 | GKHSW 8 |
| SFGW-G 10 | GKHSW 10 |

**SFGW-B Safety catch set**

| Code | For accessory part |
|---|---|
| SFGW-B 8 | BKHSW 8 |
| SFGW-B 10 | BKHSW 10 |

**SFGW-A Safety catch set**

| Code | For accessory part |
|---|---|
| SFGW-A 1 | AWHW 1.3 |
| SFGW-A 3 | AWHW 3.8 |
| SFGW-A 6 | AWHW 6.3, AWHW 10 |

**SFG-W Safety catch set**

| Code | For accessory part |
|---|---|
| SFG-W 16 | WS 16 |

# pewag CBHW Bolt + safety bush

## Quality assurance.

The spare parts set for CW Connex connecting links and CARW round sling connecting links know no compromises when it comes to safety. For this reason, we recommend replacing each safety set after it has been assembled/disassembled three times – quality assured! The bolt comes with a black corropro coating and looks rather unremarkable - however, its modest exterior hides an unsurpassed level of know-how and expertise!

| CBHW Bolt + safety bush | Code | For accessory part |
|---|---|---|
|  | CBHW 5 G10 | CW 5 |
| | CBHW 6 G10 | CW 6 |
| | CBHW 7 G10 | CW 7 |
| | CBHW 8 G10 | CW 8, CARW 8 |
| | CBHW 10 G10 | CW 10, CARW 10 |
| | CBHW 13 G10 | CW 13, CARW 13 |
| | CBHW 16 G10 | CW 16, CARW 16 |
| | CBHW 19/20 G10 | CW 19/20 |
| | CBHW 22 G10 | CW 22, CARW 22 |
| | CBHW 26 G10 | CW 26 |
| | CBHW 32 G10 | CW 32 |

# pewag CLBHW Bolts + safety bush

## Optimal with Connex.

The CLBHW bolt and safety bush is the replacement part for CLW with non-removable bolts and ideal partner for the Connex system!

| CLBHW Bolts + safety bush | Code | For accessory part |
|---|---|---|
|  | CLBHW 7 G10 | CLW 7 |
| | CLBHW 10 G10 | CLW 10 |
| | CLBHW 13 G10 | CLW 13 |
| | CLBHW 16 G10 | CLW 16 |

# pewag PSGW Safety catch

## Optimal safety.

When it comes to safety catches, the name says it all. They are regarded ideal replacement parts for PSW and KPSW grab hooks with safety catches. The spring is particularly userfriendly and made of stainless steel. We recommend protecting the nut from accidental release by using a prickpunch or glue.

| PSGW Safety catch | Code | For accessory part |
|---|---|---|
|  | PSGW 7/8 G10 | PSW 7/8, KPSW 7, KPSW 8 |
| | PSGW 10 G10 | PSW 10, KPSW 10 |
| | PSGW 13 G10 | PSW 13, KPSW 13 |
| | PSGW 16 G10 | PSW 16, KPSW 16 |

# pewag UBMS Bolt + washer + nut

## Full house.

This comprehensive set contains all the spare parts needed for U Unilock. The screws for these components are special screws – please note that standard screws must not be used. The screw, nut and washers are manufactured to the highest standards, in true pewag style.

| UBMS Bolt + washer + nut | Code | For accessory part |
|---|---|---|
|  | UBMS 5/6 | U 5/6 |
| | UBMS 7 | U 7 |
| | UBMS 8 | U 8 |
| | UBMS 10 | U 10 |
| | UBMS 13 | U 13 |
| | UBMS 16 | U 16 |
| | UBMS 19/20 | U 19/20 |
| | UBMS 26 | U 26 |

# pewag KBMSW Bolt + nut + split pin

## Good things come in threes.

Clevis shackles need an overhaul from time to time in order to maintain the pewag quality standards that we are committed to and also recommend to our customers. Replacing the shackles is easy: The KBMSW screw, nut and split pin are the ideal spare parts combination for KSCHW clevis shackles.

| KBMSW Bolt + nut + split pin | Code | For accessory part |
|---|---|---|
|  | KBMSW 7/8 G10 | KSCHW 7, KSCHW 8 |
| | KBMSW 10 G10 | KSCHW 10 |
| | KBMSW 13 G10 | KSCHW 13 |

# pewag VLHW Trigger set

## Safety you can rely on.

Trigger sets for LHW, KLHW and WLH(B)W safety hooks consist of a high-strength safety lever, a spring made of stainless steel and a retaining pin. The sets come with auxiliary material to facilitate assembly as well as detailed assembly instructions to make sure that your safety standards leave nothing to be desired.

| VLHW Trigger set | Code | For accessory part |
|---|---|---|
|  | VLHW 5/6 G10 | LHW 5/6, KLHW 5/6, WLH(B)W 6 |
| | VLHW 7/8 G10 | LHW 7/8, KLHW 7, KLHW 8, WLH(B)W 7/8 |
| | VLHW 10 G10 | LHW 10, KLHW 10, WLH (B)W 10 |
| | VLHW 13 G10 | LHW 13, KLHW 13, WLH(B)W 13 |
| | VLHW 16 G10 | LHW 16, KLHW 16, WLH(B)W 16 |
| | VLHW 19/20/22/26 G10 | LHW 19/20, LHW 22, KLHW 19/20, KLHW 22, KLHW 26 |

Please specify the correct hook design in your order.

# pewag IDW Tag set for lifting

## Customised for you.

This is the spare part set for pewag winner 400 and 200 lifting chains. After all, the advantage of being able to customise your tags with names, logos etc. is worth protecting!

| IDW Tag set for lifting | Code | For lifting chains | Consisting of |
|---|---|---|---|
|  | ID-Set neutral | I- and multi-leg slings | Tag neutral + rope with quick-release fastener + safety information |

# User information

## for lifting in G10

**Content**



# User information

**General information and safety-specific information on usage, storage, inspection and maintenance of pewag lifting accessories.**

## General information

pewag prides itself on its versatile and multi-faceted quality products that suit a wide range of applications. Different construction, loading and lashing methods for general lifting applications do not pose a particular challenge for our universally applicable lifting accessories as they were manufactured with precisely these different demands in mind. All information on design and load capacities in the catalogues (Uniform Load Method) take this range into account. There is also an alternative method in existence for rating the product load capacity, for which the specific application scenario of the chain and all operating conditions must be known. In such a case, please contact the pewag Technical Service team, as the information contained in the catalogues does not apply to such processes.

**Responsibility is key**
If the pewag lifting accessories are used correctly and by competent persons, they have a long lifespan and provide the highest possible safety standards. Material and personal damage can be avoided by reading this user information carefully and handling all lifting processes in a responsible, provident manner.

## Changes to the condition as delivered

We urgently recommend using only the original parts that are included in the scope of delivery with pewag lifting chains (bolts, safety pins, screws etc.) Modifying the original condition of the lifting accessories by bending, grinding, removal of parts, welding, drilling, stamping etc. means exposing yourself and others to unnecessary danger. In such a case, safety can no longer be guaranteed and usage becomes dangerous.
Risk factors and conditions include heating the chains to a temperature of more than 380 °C (pewag winner 400) and removing safety parts such as safety pins, safety catches etc. Do not apply any surface coatings to pewag chain slings, i.e. do not subject them to hot galvanizing or electrogalvanizing.

If any surface treatments are required, please make sure to double-check with the pewag service department first. Dipping or removing a coating with chemicals are potentially dangerous processes that may give rise to hazards. We urgently recommend customers to check with the pewag technical team first.

## Restrictions of use

**For hazardous or dangerous conditions, please refer to the table on page 20.**

**Temperature effects**
The table on page 20 lists the load reduction values in case of extreme temperatures. These apply until the chain and/or the lifting accessories have reached room temperature. pewag lifting accessories must on no account be used outside the indicated temperature range. If this has been the case, the chains must be removed from service.

**Effects of acids, caustics and chemicals**
pewag lifting accessories must not be used in acids or caustic solutions or be exposed to their vapours. Please be aware of this requirement at all times as certain production processes release acids and/or vapours! If the use of pewag lifting accessories with highly concentrated chemicals in combination with high temperatures cannot be avoided, please make sure to obtain the express approval of such usage by a pewag expert.

**Hazardous conditions**
The working load limits in this catalogue have been determined on the basis that the product is not being used in hazardous conditions. Hazardous conditions are present when lifting accessories are used offshore or for the lifting of persons or potentially dangerous goods such as liquid metal, corrosive or caustic substances or nuclear material. If the chain sling is to be used for such purposes, the extent of the risk is to be assessed by an expert, the load capacity must be adjusted accordingly and incorrect usage in hazardous conditions must be avoided at all cost. As a rule, usage in hazardous conditions should be avoided.

**Prevention is better than cure!**
Before using any lifting accessory, several inspections must be performed:
- Does the lifting chain correspond to the order?
- Has the inspection certificate or certificate of conformity been supplied?
- Do the markings and load capacities stated on the chain sling correspond to the information given on the inspection certificate or certificate of conformity?
- Have all the particularities of the chain sling been entered into a register of lifting equipment, if required?
- Has the operating manual outlining the correct use of the chain sling been supplied and read and understood by all personnel?

Please check the lifting accessories for visible signs of damage or wear prior to each use. In case of any doubt or damage, do not use the chain slings and have them inspected by a competent person.

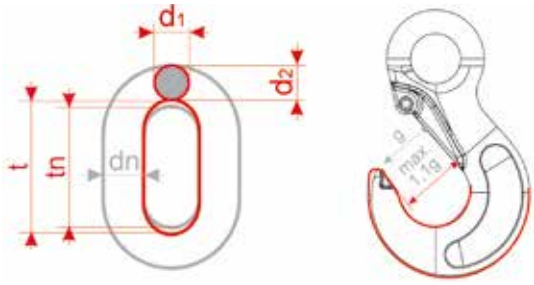
Inspections by a competent person must be performed in accordance with national legislation, but at least once every 12 months. If the chain sling is frequently used at its full load capacity, more frequent inspections are required!

Please note that the chain sling must also be inspected after unusual events, for instance uncontrolled exposure to heat.

We recommend subjecting the chain sling to a load capacity test with 2 times the load capacity every two years, followed by a visual inspection, or another type of crack test.

**Visual inspection criteria**
If at least once of the criteria listed below manifests itself during the visual inspection, all parts must be removed from service:
- Breakage of a component.
- Illegible or missing marking of the chain sling (i.e. information on identification data and/or load capacity).
- Deformation of suspension or sling parts or the chain itself.
- Elongation of the chain resulting in **t > 1.05 tn.**
- Wear as determined by the mean value of two measurements of diameters $d_1$ and $d_2$ carried out at a right angle as shown. The chain must be removed from service life if:

$$d_m = \frac{d_1 + d_2}{2} \leq 0{,}9$$




- Visible damage such as cuts, notches, grooves, surface cracks, discolouration due to excessive heat exposure, signs of subsequent welding, bent or twisted links or other flaws.
- Obvious wear or chemical removal of material if the admissible dimensional changes as outlined in the table supplied has been exceeded, e.g. pitting corrosion.
- Cracks and cross-cracks that are visible to the naked eye.
- Missing or non-functional safety device as well as signs of widening or twisting of hooks, i.e. noticeable enlargement of the opening or other forms of deformation. The critical point is reached when the enlargement of the opening exceeds 10 % of the nominal value or if the safety catch is open, as this indicates that the hook is overloaded.

**Correct maintenance**
Please note that all maintenance activities of pewag lifting accessories must be handled by competent persons to minimise the risk of improper use.

**Precise documentation**
All inspections and their results must be recorded and these records be kept throughout the service life of the chain slings. Precise records of this sort constitute the best basis for effective maintenance.

**Clean storage**
pewag lifting chains must always be stored in a clean and dried condition and protected against corrosion, i.e. slightly lubricated.

**Maximal approved dimensional change:**

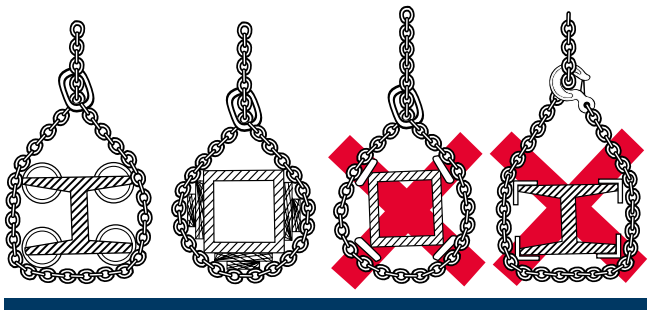
| Designation | Dimensions | Admissible deviation |
|---|---|---|
| Chain | dm | -10 % |
| | t | +5 % |
| Links | d | -10 % |
| | t | +10 % |
| Hooks * | e | +5 % |
| | $d_2$ and h | -10 % |
| | g | +10 % |
| | a | -10 % |
| CW, CARW, CLW | halves loose | no changing admissible |
| | e | +5 % |
| | c | -10 % |
| BWW, GHW | e | +5 % |
| | d | -15 % |
| | $d_1$ | +5 % |
| | angle change | ≤3° |
| SCHW, GSCHW, U | bolt loose | no changing admissible |
| | e | +5 % |
| | d, $d_1$, $d_2$ and M | -10 % |
| SM | e | +5 % |
| | g | +10 % |
| | d | -10 % |
| BA | $d_2$ | -10 % |
| FA | $d_1$ | -5 % |
| Clevis bolts<br>Connex bolts | d | -10 % |
| LHW, KLHW, | $d_2$ | -10 % |
| WLH(B)W | h | -10 % |
| | opening of hook | 2x s max. |

* HSW, FW, PW, KHSW, GKHSW, BKHSW, PSW, KPSW, LHW, WLHW, WLHBW, KLHW, KSCHW, KCHW, KFW, KPW, KVS, XKW, KOW, KRW, WSBW

# Correct use of chain slings

**The right angle of inclination**
To ensure safe handling, the slinging points and chain sling types must be selected in such a way that the angles of inclination of all chain strands (legs) lie within the data given on the load capacity tag. Preferably, all angles of inclination should be the same. Avoid angles of inclination of less than 15° because of the high risk of load instability. Never use chain slings with the angle of inclination exceeding 60°!

**Edge-loading – know your limits**
The maximum load capacity of pewag chain slings assumes that the individual chain legs are pulled straight under load, i.e. that they do not run over edges. However, if edge-loading is unavoidable, load protection (packing) should be used to avoid damage (see illustration):



If chains are guided over edges without proper protection, their load capacity is significantly reduced and safe usage can no longer be guaranteed. See the table on page 20 for the corresponding load factors. Where chain have to be looped around beams or other round-shaped loads, the diameter should be at least twice or 3 times the chain pitch. For smaller diameters, the load capacity of the chains must be reduced by 50 %.

**Impact-/shock-loading**
For the load capacities of pewag lifting chains to apply, it is assumed that the individual chain strands are not subjected to impact- or shock-loading. In cases of possible impact/shock, the load factors on page 20 apply.

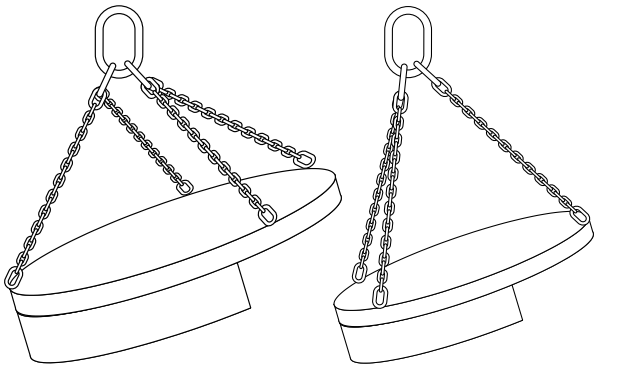
**Classification of impacts**
- Slight impact may result from accelerated lifting or lowering operations.
- Medium impact may result from the chain slipping while adjusting itself to the shape of the load.
- Strong impact results for instance from the load falling into the unloaded chain.

**Vibrations**
If they are used correctly, pewag lifting chains and accessories withstand high load cycles, with a standard rating of 20,000 load cycles. In case of high dynamic loads, there is a risk of the chain or components getting damaged. The employer's liability insurance association Metall Nord Süd recommends reducing stress at WLL by using a larger nominal thickness/size in such a case.

**Symmetrical loading**
For the load capacities of pewag lifting chains to apply, it is assumed that the individual chain strands are placed under load symmetrically. When the load is lifted, this results in equal angles of inclination and the individual strands are symmetrical to each other.

The load may be considered symmetrical when all of the following conditions apply:
- The load is less than 80 % of the indicated load capacity
- The angles of inclination of all chain strands are not lower than 15° and are very similar (i.e. only differ by a maximum of 15°).
- For three- and four-stranded lifting chains, it must be ensured that the corresponding plan angles are within 15° of each other.

**Be careful!**
If not all of these parameters are complied with, the load cannot be considered symmetrical and the classification of the lifting operation must be left to an expert. In case of doubt, only one chain strand (leg) should be considered as load-bearing. For the corresponding load capacity values, please refer to the load capacity table on page 18 and 19 to determine the precise load capacity.



The main part of the load is carried by just one leg.

The main part of the load is carried by two legs.

**Wrongful use defeats the purpose**
pewag lifting chains offer perfect quality standards if they are used according to their intended purpose.
In cases where not all individual legs are used simultaneously or where several lifting chains are used at the same time, different load capacities apply as outlined in the tables on pages 18 and 19. In case of doubt regarding the intended purpose, the load capacity as indicated on the tag must be amended in accordance with the following table:

| Type of sling chain | Number of individual strands used | Use factor in relation to the load capacity given on the tag |
|---|---|---|
| two-stranded (II-leg) | 1 | 1/2 |
| three- and four-stranded (III/IV-leg) | 2 | 2/3 |
| three- and four-stranded (III/IV-leg) | 1 | 1/3 |
| 2 x single-stranded (single leg) | 2 | 1.4 up to 45° |
| 2 x two-stranded (II-leg) | 3 or 4 | 1.5<br>from 0° – 45° and 45° – 60° |

**Precautions**

- Hang any individual strands (leg) that you do not use back into the master link to prevent hazards caused by freely swinging chains or unintended hooking.
- Before using several chain slings at the same time, make sure that the crane hook is big enough for all the master rings. Make sure that the master rings cannot fall out of the hook during lifting.
- Angles of inclination of more than 45° must be avoided.
- Use only chain slings of the same nominal thickness and grade at the same time.

# Additional detailed information

**Never tip-load the hook!**

**Wrong!**

**Correct!**

**Detailed original operating manuals for individual products are available for download at www.pewag.com.
Our manuals are subject to a continuous improvement process to ensure that they are always up to date.
For this reason, always refer to the latest version of a manual.**

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