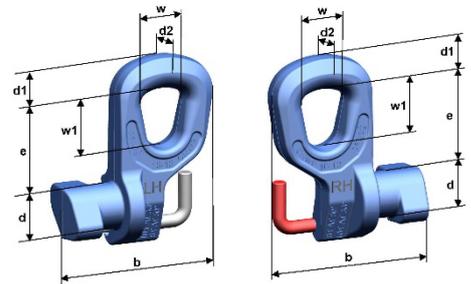


Original operating manual



CHWP Container hook

These CHWP Container hooks are designed for the assembly of chain slings and after reading the operating manual as well as the current national norms for lifting and transporting purposes. CHWP Container hooks are combined with other components like pewag winner pro chains, connecting links, hooks and master links to build chain slings. This product meets the requirements of the EU Machinery Directive 2006/42/EC and is only to be used when taking into consideration the declaration of incorporation and after reading and understanding the operating manual. The operating manual must always be available to the user until the CHWP Container hooks are discarded. It is updated continuously and is only valid in its latest version, which can be downloaded from the following link www.pewag.com.



Code	e [mm]	b [mm]	d [mm]	d1 [mm]	d2 [mm]	w [mm]	w1 [mm]	weight [kg/Set]
CHWP 16	95	166	49	35	35	48	61	18,8

Code	WLL per Set (4pcs.) at vertical loading [kg]	WLL per Set (4pcs.) at max. 36° [kg]	WLL per Set (4pcs.) at max. 50° [kg]	WLL per Set (4pcs.) at max. 60° [kg]
CHWP 16	50.000	40.000	32.000	25.000

Static test coefficient = 2,5; Safety factor = 4

Conditions of use

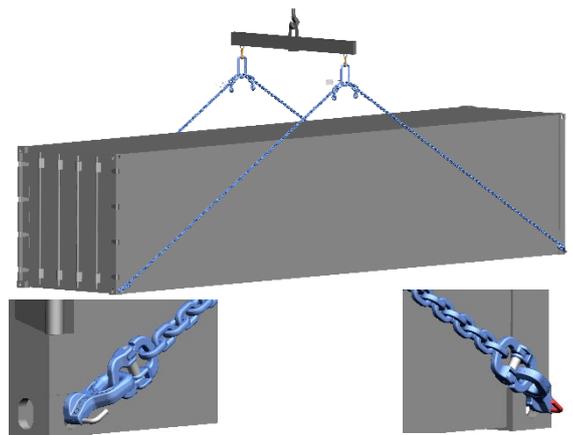
Use purposes: These CHWP Container hooks serve as end hooks for the attachment of the chain slings to containers suited with container corners acc. ISO 1161.

Load: the load must only act in the longitudinal direction and on the center of the eye on the hook with a maximum working load limit described in the table above. The hook must be aligned in the direction of the load.

Admissible operating temperature: -60°C – 200°C.

Impacts: The load must be applied without any impact or shock loading.

- CHWP Container hooks must only be used by competent personnel.
- CHWP Container hooks must be checked before each use for visible signs of damage.



Container hook left hand „LH“

Container hook right hand „RH“

Restrictions of use

Under certain conditions, the use of CHWP Container hooks is restricted (see table below). The table below describes certain loads with their corresponding reduction factors. Safe working load values can be calculated by multiplying the working load limit with the reduction factor defined in the table. If more restrictions of use are applicable during a lifting process, all corresponding reduction factors must be taken into account.

Reduction factors

Temperature*	-60°C to 200°C	above 200°C to 300°C	above 300°C
Reduction factor	1	0,6	not permissible
Impact loading	slight impacts created, for example, when accelerating during the lifting or lowering movement	medium impacts created, for example, when the chain is loaded but it slips while adjusting to the shape of the load	strong impacts created, for example, when the load falls onto an unloaded chain
Reduction factor	1	0,7	not permissible

* The use at temperatures below -60°C and above 300°C is forbidden!

All instructions given in this operating manual assume the absence of extremely dangerous conditions. Such extremely dangerous conditions include offshore activities, lifting of people and potentially dangerous loads, such as liquid metals or nuclear material. In these cases, the admissibility and extent of the risks are to be assessed by pewag.

Reasonably foreseeable misuse

CHWP Container hooks are not designed to be used with food, cosmetics or pharmaceutical products, and must not be subjected to severe corrosive influences (e.g. acids, sewage...). They must not be used in explosion-protected areas or exposed to the fumes released by acids or chemicals. They must also not be used under other circumstances as the one described in Conditions of use and Restrictions of use – e.g. transverse or flexural loading. CHWP Container hooks must not be hooked into other container corners than those acc. ISO 1161. Do not apply any surface coating procedure with damaging effects on the materials (e.g. hot galvanizing or electrogalvanizing) and do not subject them to heat, welding or drilling processes.

Assembly instructions

The assembly may only be executed by a qualified person. pewag winner pro CHWP 16 Container hooks are attached at the eye of the hook to the chain by means of CWP 16 Connex Connecting links, hooks type KHSWP 16 or KLHGWP 16, resp. CW 19/20 or CW 22 Connex Connecting links. Container hooks CHWP 16 LH must be attached to the corners on the left side and CHWP 16 RH must be attached to the corners on the right side of the container. For easy indentifying they are marked with „LH“ for left hand hook and „RH“ for right hand hook. Also the safety handle for the right hand hook is powdercoated red.

Replacement part:

SBSWP - LH
SBSWP - RH

Safety precautions to be taken by the user

Gloves must be worn during the whole process. When conditions with restrictions of use take place, working load limit values must be reduced by the above reduction factors in order to assure the required security level.

Residual risks

Overloading because of exceeding the working load limit or not reducing the working load limit when influences under severe conditions such as temperature, asymmetry, edge load or impact occur, can lead to failure of the container hook. Other factors are unsatisfactory adjustment, transgression of the permitted angle of inclination, strong vibrations with heavy load, transverse loading, and the use of uninspected container hooks. In such cases, the load could fall causing injuries or fatalities among the workers who operate and work in the danger zone of the lifting equipment.

How to act in case of accidents or damages

After deformation of the CHWP container hook because of overloading or other extraordinary events, take the lifting assembly out of service for inspection or repair by a qualified person.

Maintenance, Inspections and Repairs

Maintenance: CHWP container hooks shall be cleaned regularly, dried when in contact with wet atmospheres and protected from corrosion, e.g. lightly oiled.

Inspections: CHWP container hooks need to be inspected in a clean condition – they must not contain oil, dirt or rust. Painting is only permissible if an evaluation of the CHWP container hook condition is possible. When cleaning, do not subject CHWP container hooks to processes which cause material embrittlement (e.g. pickling), overheating (e.g. flame cleaning), material abrasion (e.g. sand blasting), etc. Surface cracks or other defects must not be covered. CHWP container hooks must be checked before each use for visible signs of damage. Once a year an inspection must be carried out by a competent person. However, this period must be shortened up in view of the conditions of use – e.g. because of frequent use with maximum load capacity or under conditions with restrictions of use, wear or corrosion. It is recommended to subject CHWP container hooks every two years to a crack test. There are different ways of crack testing: subjecting the CHWP container hook to a load test with 2 times the working load limit, followed by a visual inspection, a magnetic crack test or a dye-penetration method.

Withdrawal:

- Broken parts, deformation, notches, cracks of all types.
- Signs of heat (e.g. discoloration or coating-burnoff).
- In the case of doubts about the safety and correct functioning of the CHWP container hook.
- Unrecognizable identification marking.
- If wear or excessive corrosion occurs and the tolerable change of measurement is transgressed (see following table).
- If the safety bolt missing or not working correctly.

Measure	Maximal permitted change
d1, d2, h	-10%
e	+5%

Repair: CHWP container hooks are only to be repaired by a qualified person. Damaged accessories must be replaced by new, original replacement parts SBSWP – LH, resp. SBSWP – RH. The threaded bush in the set must be secured by min. 2 punch marks, alternatively glued to the bolt. Welding, heat treatments, as well as the straightening of bent CHWP container hooks are not permitted. Inspections and repairs have to be documented and the corresponding reports have to be retained during the service life of the CHWP container hook.

Storage

pewag winner pro CHWP container hooks shall be stored cleaned, dried, protected from corrosion, e.g. lightly oiled. While stored, they must not be exposed to corrosive, mechanical or thermal influences.

Declaration of incorporation

In accordance with the requirements established in Annex II, part B, of the EU Machinery Directive 2006/42/EC for components in lifting accessories:

This is to inform you that the product mentioned in this original operating manual is designed to be incorporated in lifting accessories complying with all essential requirements of the EU Machinery Directive 2006/42/EC. This product must not be put into service until the final lifting accessory into which it is to be incorporated has been declared in conformity with the provisions of the Directive 2006/42/EC. Moreover, it is a precondition that this operating manual has been read and understood. This declaration has no legal effect if any changes to the product are introduced without pewag’s approval.

Following essential safety and health requirements of Annex I of the Directive are applied and fulfilled: 1.1.3, 1.3.4, 1.5.4, 4.1.2.3, 4.1.2.5, 4.3, 4.4.1.

Additionally, we declare that the relevant technical documentation is compiled in accordance with part B of Annex VII and will be transmitted electronically due to a well-founded request by the national competent authority.

The person authorised to compile the technical documentation: DI Bernhard Oswald; Mariazeller Straße 143; A-8605 Kapfenberg

Kapfenberg, 2022-07-11

pewag austria GmbH
Stefan Duller