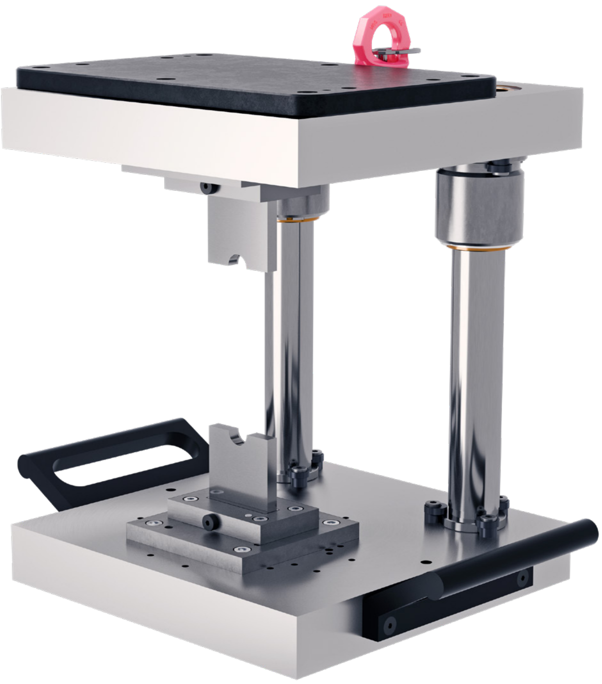
Reliable Connections

OptiSwage®

Two-Jaw Platform with ClassicCrimp or EcoCrimp Jaws



OptiSwage® with ClassicCrimp Jaws

Product description

General function

The OptiSwage® Two-Jaw Platform is a die set that uses precision guiding features and pairs of specialty jaws to ensure the best possible performance of Oetiker Multi Crimp Rings (MCRs) with two-jaw swaging. It can be customized to swage up to three MCRs simultaneously.

Compatibilities

Compatible with Oetiker Multi Crimp Rings (MCRs). The OptiSwage® Two-Jaw Swaging Platform can be equipped with Oetiker ClassicCrimp or EcoCrimp jaws. By default, the platform is configured to make one centered connection at a time. One pair of either jaw type can be purchased to fit into the single-connection configuration of the platform.

Multi-connection configurations can be custom made to close multiple MCRs per cycle. Contact your local Oetiker service center for details.

The OptiSwage® Two-Jaw Platform requires an external driving mechanism, such as a hydraulic press.

Intended use

The unit has been engineered specifically for swaging Oetiker Multi Crimp Rings only. It is designed for use in compliant presses and industrial environments that match the technical requirements defined in the instruction manual.

Packaging

The platform is delivered disassembled in a wooden box.
Box dimensions: 848 x 378 x 380 mm
Empty weight: 19 kg

General data

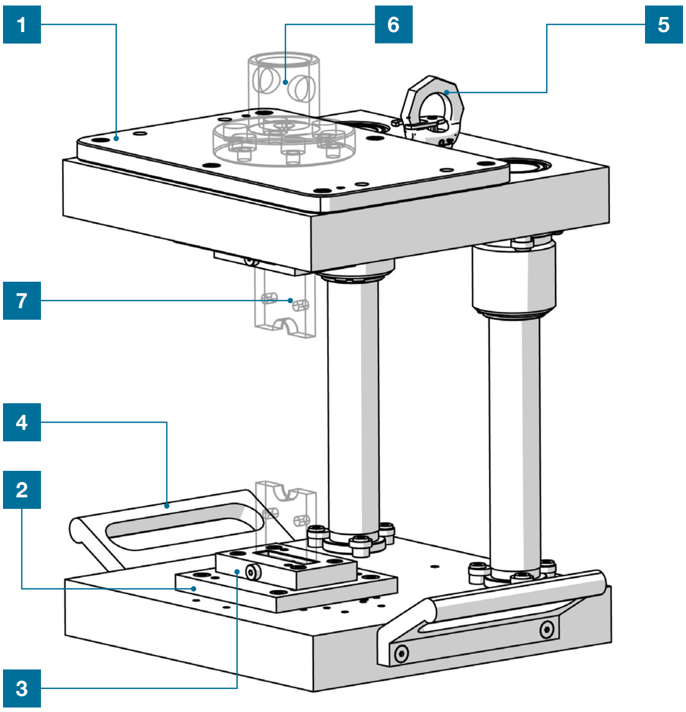
Article no

13403988	OptiSwage® Two-Jaw Platform
13404005	OptiSwage® Two-Jaw Platform without Jaw Mounts
00000000*	OptiSwage® Two-Jaw Platform with Classic Crimp Jaws
00000000*	OptiSwage® Two-Jaw Platform with EcoCrimp Jaws

*material number size dependent

Product attributes

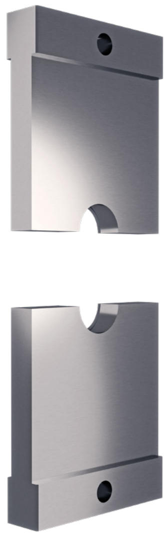
Overview functional parts



1 Press adapter plate | **2** Pressure plate | **3** Holding plate | **4** Transport handle | **5** Eyebolt | **6** Press connecting flange (to be provided by the customer) | **7** Swaging jaws (sold separately)

Jaw options

ClassicCrimp Jaws



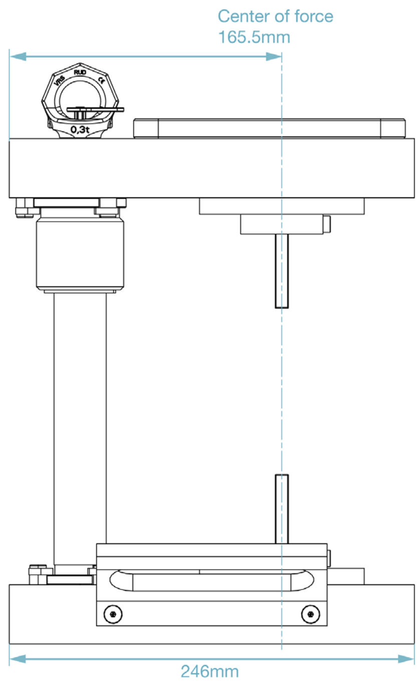
EcoCrimp Jaws

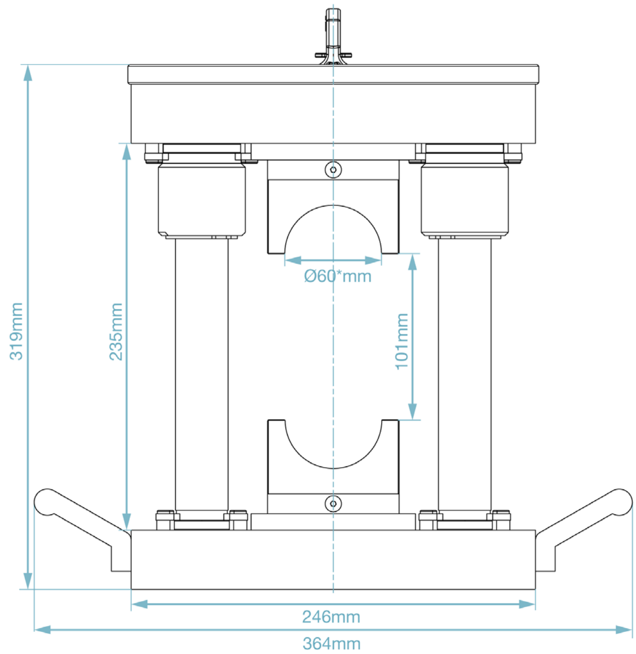
OptiSwage® with EcoCrimp Jaws

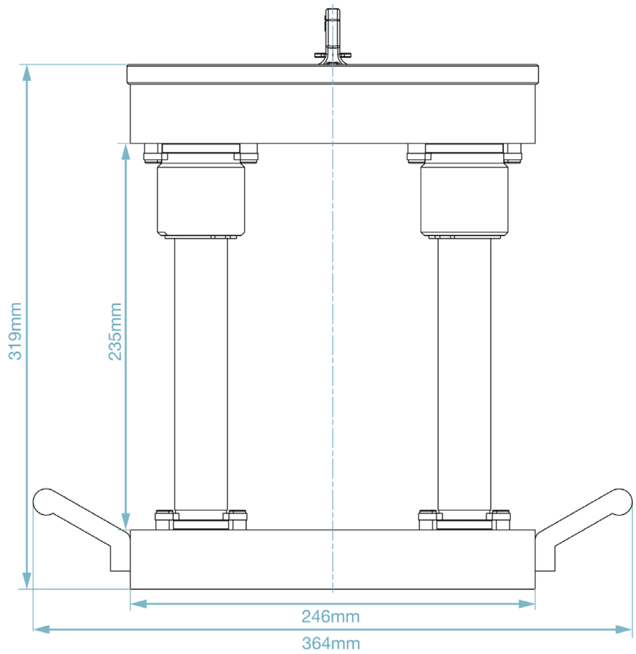
Dimensions

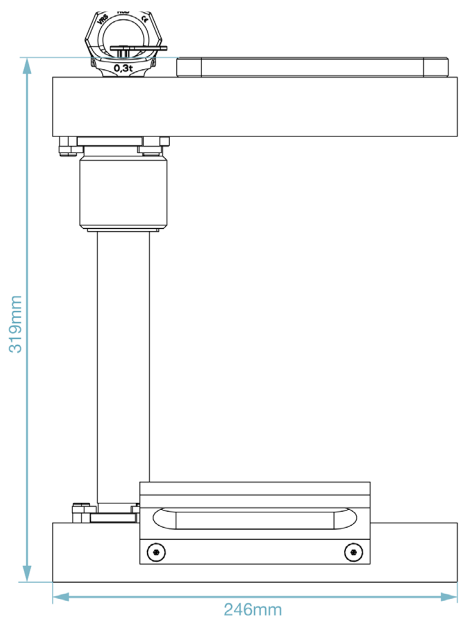
Length	246 mm
Width	364 mm
Height (open)	319 mm
Height (closed)	236 mm
Weight	approx. 43.7 kg

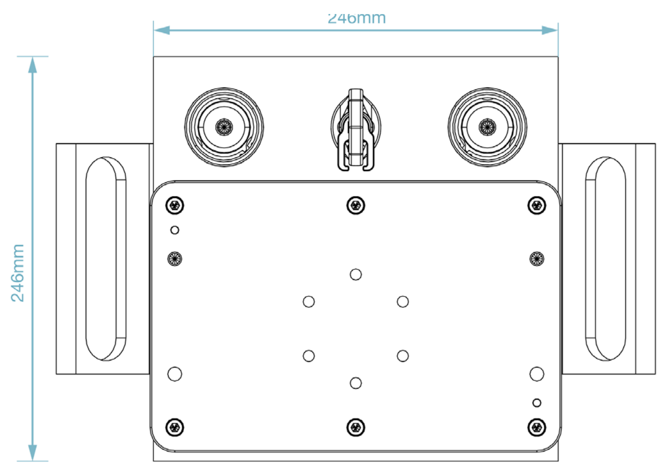
Dimensions


Center of force
165.5mm
246mm


319mm
235mm
Ø60*mm
101mm
246mm
364mm


319mm
235mm
246mm
364mm


319mm
246mm


246mm
246mm

Materials
Steel, aluminum, and polyurethane

Functional critical attributes

Interfaces
- Handles for manual transportation with two people
- Eyebolt for crane transportation
- Oetiker ClassicCrimp or EcoCrimp jaws easily lock into the jaw mounts (pressure plate and holding plate) for quick installation.

Press interface:
- Press adapter plate comes ready to machine to fit any compatible press interface.

Press requirements:
- 80 kN / 8 t ± 5% (for a single crimping)
- 250 kN / 25 t ± 5% (for three simultaneous crimpings)
- Opening gap: 319 mm plus connection flange height
- Press work surface: 250 mm x 250 mm
- Stroke and force limitation mechanism

Performance parameters
Note: These parameters are guidelines and are subject to variation based on the specific application.

EcoCrimp Jaw
Can close Oetiker Multi Crimp Rings 250 RX from 15 mm – 60 mm diameter.

Ø i-Ring in mm	Diameter reduction in mm	
	MCR thickness	
	0.8 mm	1 mm
15.0-15.9	2.3	n/a
16.0-16.9	2.4	n/a
17.0-17.9	2.6	n/a
18.0-18.9	2.7	n/a
19.0-19.9	2.9	3.0
20.0-28.9	3.0	3.5
29.0-34.9	3.5	4.0
35.0-46.9	3.5	4.2
47.0-50.0	3.5	4.5
50.1	n/a	4.5

ClassicCrimp Jaw
Can close Oetiker Multi Crimp Ring 150 R from 5.5 mm – 60 mm diameter.
Reduces the diameter of Oetiker PG 150 Multi Crimp Rings by up to 2x their nominal band thickness.

Product damaging parameters
- Excessive humidity and moisture should be avoided.
- The platform must be secured according to the manufacturing instructions during transportation.
- The press must include a stroke and force limitation mechanism to avoid jaw damage.
- Modifying the tool without the consent of Oetiker may result in tool damage or risk of injury.
- Do not use non-approved spare parts.
- Do not operate the tool if it has visible damage.

Maintenance attributes

Maintenance cycle
Daily: Clean the swaging tool with a dry cloth.
Weekly: Clean, oil, and check jaws for wear.
After 250 000 strokes: check, lubricate, and replace worn components.
Every year or after 1 000 000 strokes: full check and lubricate.

Maintenance responsibility
Maintenance is not provided by Oetiker. Maintenance of the tool is the responsibility of the user.

Article number spare parts
13404009	Press adapter plate kit
13404011	Pressure plate kit
13404010	Holding plate kit
05010360	Ball cage
05011665	Safety clip