

02

EXOSET® SAFETY LIFTING CLAMPS INSPECTION GAUGE

Height Safety
Lifting
Load Control
Safety Management



INSPECTION GAUGE FUNCTIONS

General

The Inspection Gauge is available for SpanSet Exoset lifting clamps with a Working Load Limit (WLL) of 0.5 t to 6 t, including the Standard, Hardox, and Stainless Steel versions. The Inspection Gauge is designed for quick checks during visual inspections and serves as a support tool to assist with the service and repair of SpanSet Exoset lifting clamps. It is intended as a supplementary inspection aid and does not replace the procedures described in the SpanSet Service and Repair Manual.

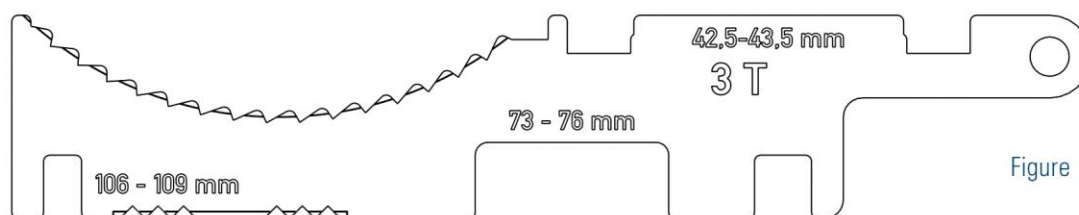


Figure 1.

The Inspection Gauge enables inspection of the lifting clamp at six different locations for signs of overload and wear. The inspection covers the clamp body, camsegment, pivot, and hoisting eye. The gauge is provided with engraved reference lines for the camsegment and pivot. These lines indicate the maximum permissible wear of the teeth on the camsegment and the pivot. The acceptable measurement range between the side plates of the clamp body and the overload indicator on the body are also engraved on the gauge. In addition, the acceptable inside diameter range of the universal lifting eye is indicated. The Inspection Gauge is supplied as a set for SpanSet EVU H/S lifting clamps with a WLL of 0.5 t to 6 t. The gauges are fitted with an adjustable screw for convenient use and compact storage.

Camsegment

The Inspection Gauge features a cut-out that matches the tooth profile of the camsegment. This cut-out is used to measure wear of the camsegment teeth. An engraved reference line indicates the maximum permissible wear, corresponding to 50% of the original tooth height. Place the Inspection Gauge over the camsegment and hold it against a light source while sliding the gauge across the teeth. Any gaps or misalignment will indicate wear of the camsegment teeth.

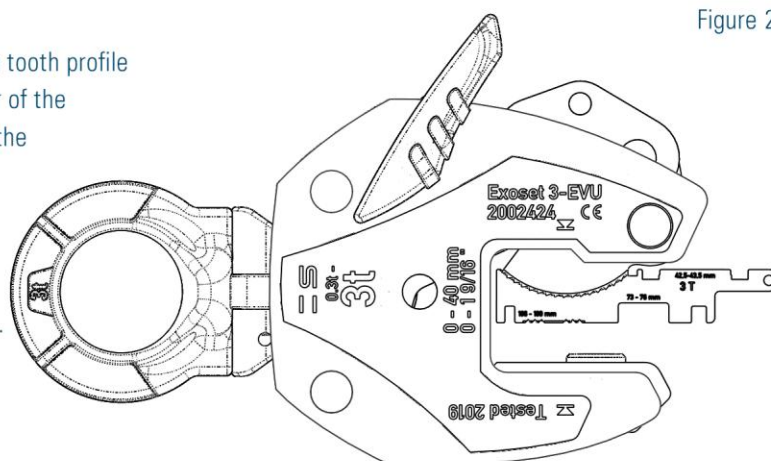


Figure 2.

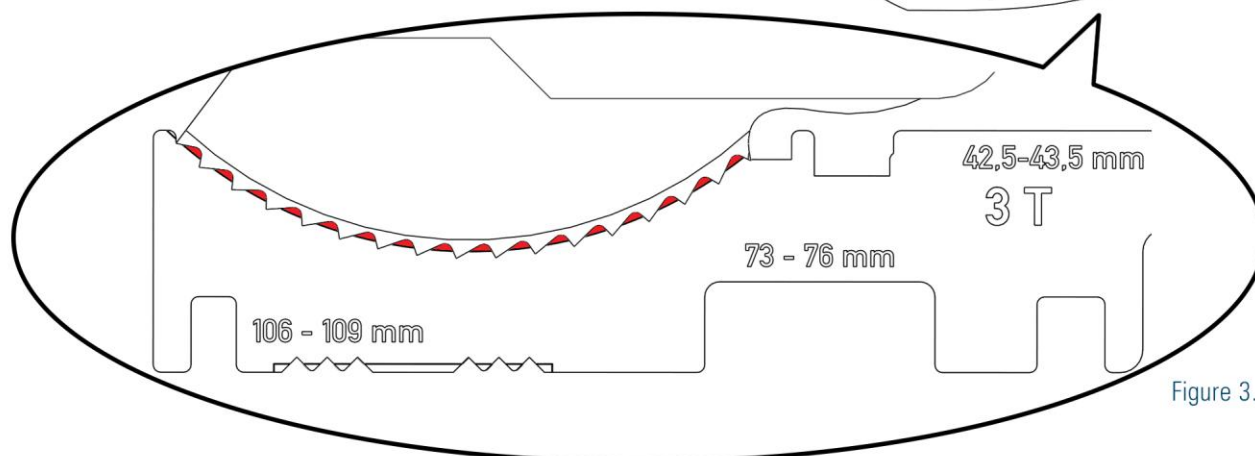


Figure 3.



0.5t



1t



2t

INSPECTION GAUGE FUNCTIONS

Pivot

The Inspection Gauge features a cut-out that matches the tooth profile of the pivot. This cut-out is used to measure wear of the pivot teeth. An engraved reference line indicates the maximum permissible wear, corresponding to 50% of the original tooth height. Place the Inspection Gauge over the cam pivot and hold it against a light source while sliding the gauge across the teeth. Any gaps or misalignment will indicate wear of the pivot teeth.

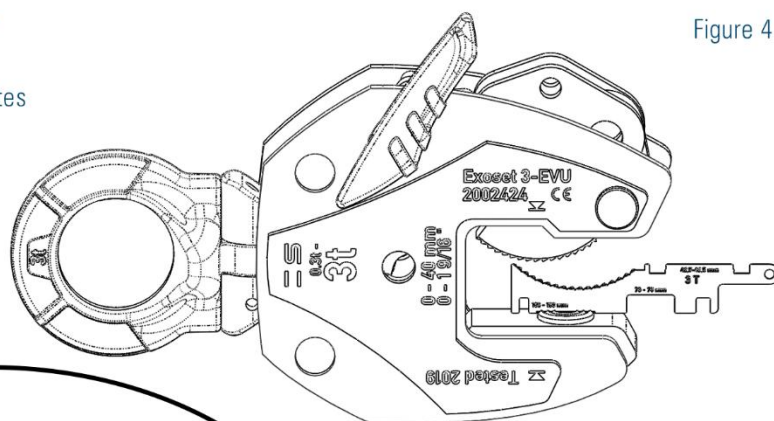


Figure 4.

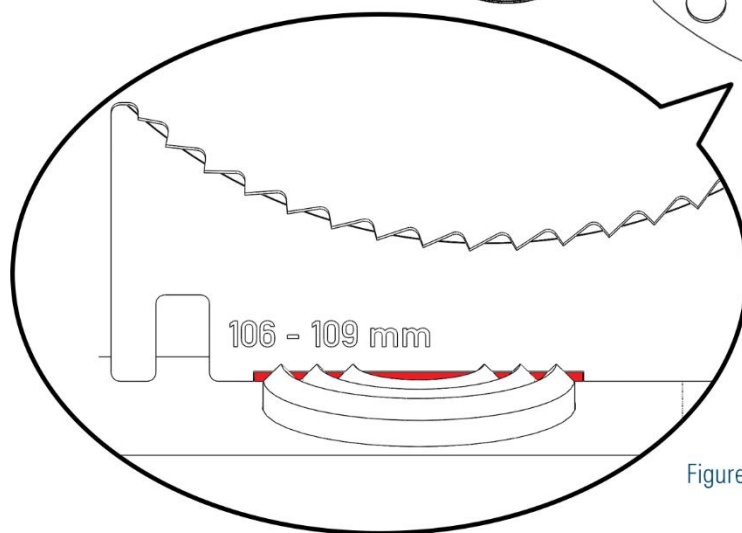


Figure 5.

Hoisting Eye

The Inspection Gauge is provided with a cut-out for inspecting the lifting eye. Insert the cut-out into the inside diameter of the lifting eye and rotate the gauge to check the lifting eye for wear and deformation. The minimum and maximum permissible inside diameters of the lifting eye are engraved on the Inspection Gauge.

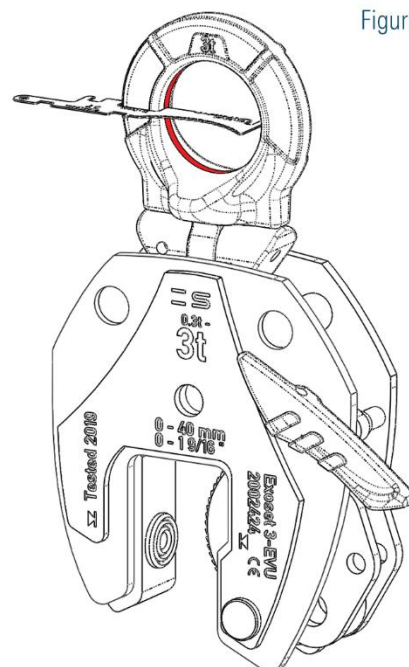


Figure 6.

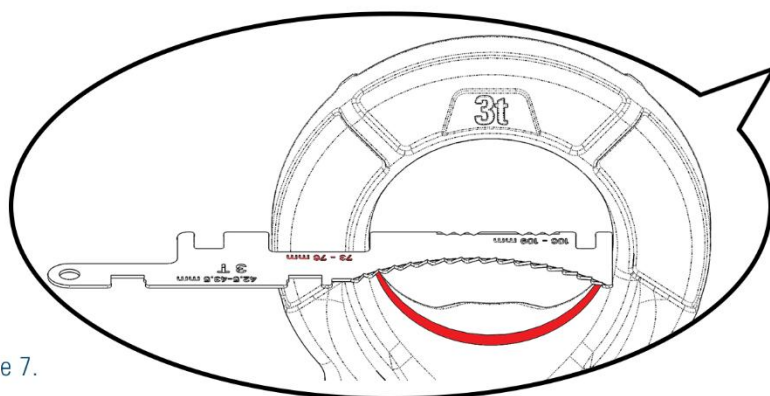


Figure 7.



3t



5t



6t

INSPECTION GAUGE FUNCTIONS

Body indicator

The body of the EVU lifting clamp is equipped with overload indicators (two arrows) that allow deformation of the jaw opening to be checked. Position the left cut-out of the Inspection Gauge precisely over the left arrow of the overload indicator. The right cut-out should align with the right arrow of the overload indicator. Both arrows must fall within their respective cut-outs. The minimum and maximum permissible distance between the overload indicators is engraved on the Inspection Gauge.

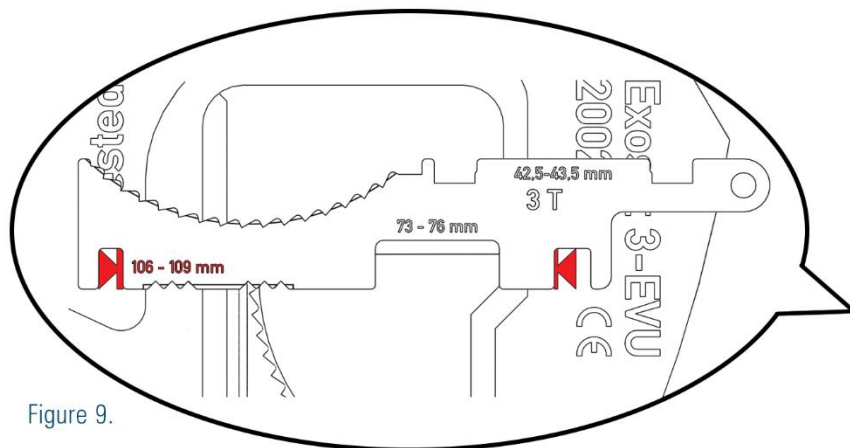


Figure 9.

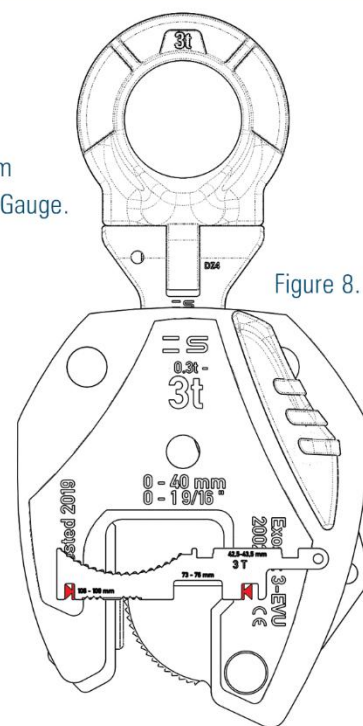


Figure 8.

Body plates

The Inspection Gauge can be used to check the clamp body for deformation between the two body plates. For an accurate measurement, the inspection must be carried out close to the lifting eye (see Figure 10). The gauge features a stepped cut-out consisting of a narrow section and a wider section. The narrow section must fit between the two body plates. If it does not fit, or if the wider section fits between the body plates, the clamp body has exceeded the maximum permissible deformation limit and must be removed from service. The minimum and maximum permissible distance between the body plates is engraved on the Inspection Gauge.

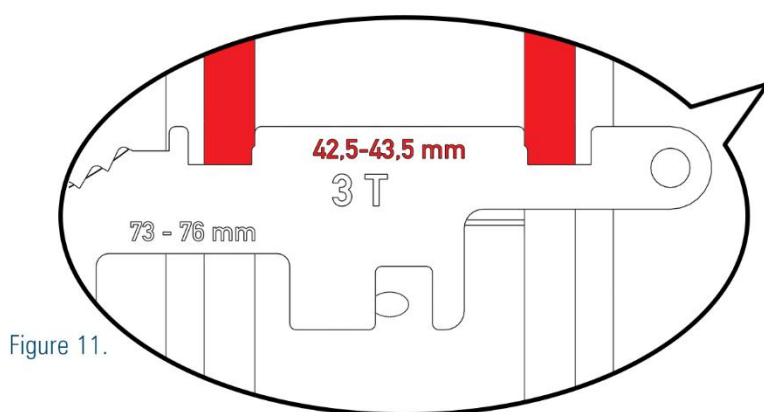


Figure 11.

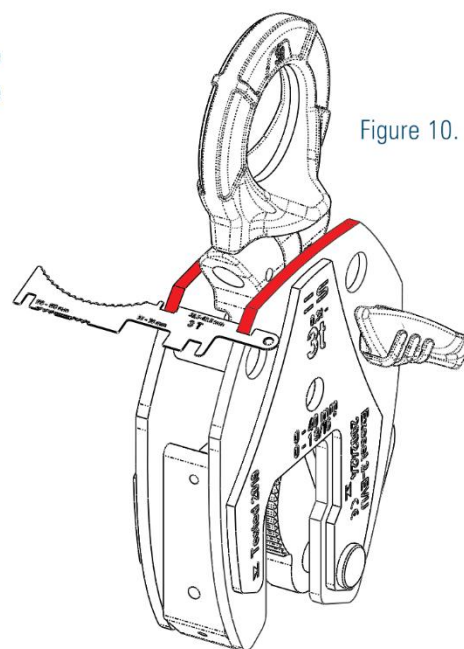


Figure 10.



Instruction Manual



Service and Repair manual



IDX4U