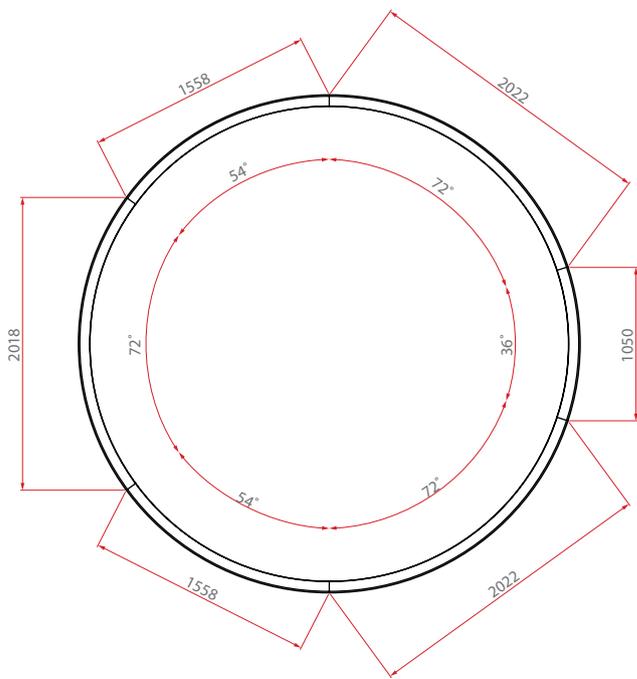


Skirt for oil reactor



Profile:	<i>E-Shape Profile</i>
Material grade:	<i>SS 321</i>
Execution:	<i>laser fused</i>
Industry served:	<i>Oil & Gas</i>
Destination:	<i>USA</i>

Special tailored E-shape profile with 450mm height and 90mm width, material thickness: the webs 10mm, and the flanges 15mm. Material chosen is 1.4541.

These profiles are used in the oil refinery when adapting existing oil reactors applying internal structural modifications without having to rebuild the complete reactor.

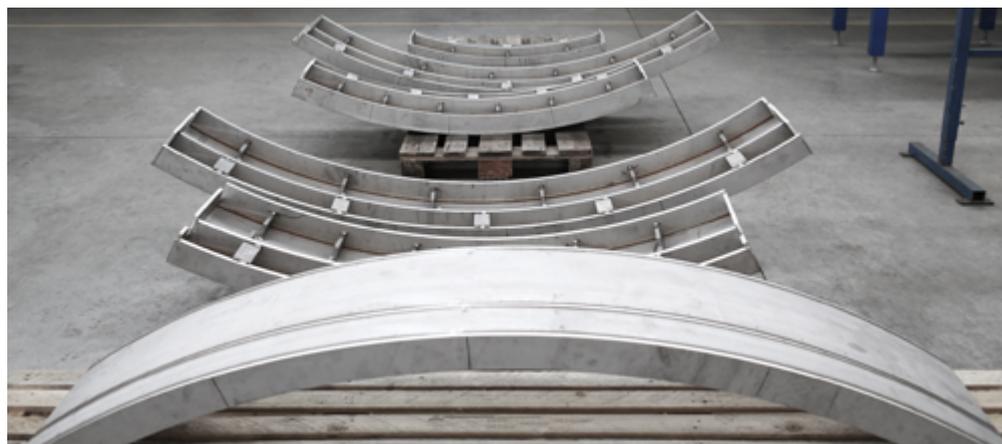
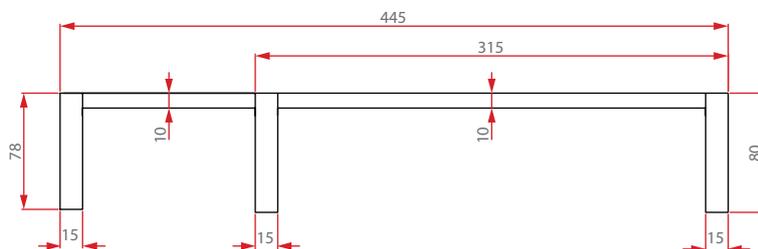
The different laser fused segments, that all together build a circle, are welded internally to the existing reactor and operate as support for special beams and special T-sections that are placed inside and carry the single reactor stages. Each curved segment is assembled from plate stripes laser-cut in an already curved shape. The

segment's components are stitched together with stiffeners that improve the handling friendliness during all production steps; from positioning under the laser to laser fusion of the parts.

Laser fusion is done with our 3D laser fusion technology, using a 5-axis robot that can easily follow the curved path that needs to be fused. We do grant full welding penetration and an UT (Ultrasonic Testing) of the welds is performed by qualified personnel according to a special customer's specification, in order to certify the proper execution.

The sections vary upon the existing reactor's dimensions and the type of application, generally having a skirt diameter between 2.5 and 4.5m, while the length of the single section is from 1m to 2.2m.

Also the shape varies from E-Section, to S-Section or U-Channels, according to the existing kind of fixation system inside the reactor.



all base material was laser-cut to shape prior to assembly and fusing