

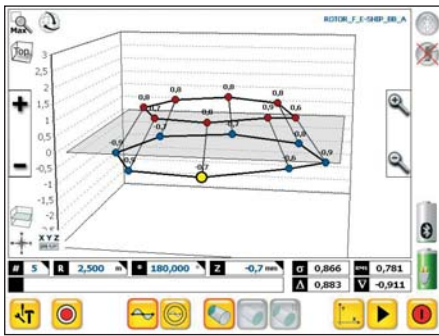
A Flange Foundation Flatness Measurement



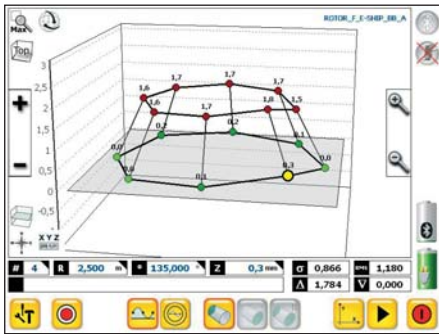
The inner diameter is 165 inches, and the outer diameter is 197 inches. Eight raised segments will support the flange. Measurement points were defined at the inner and outer diameters of each segment.



The sweep laser T310 cuts a reference plane above the flange. The receiver R310 is moved from one point to the next. The Software ProFlange V2 is used to record the points and to study the result.



Here you see the inner and outer segment ring as measured in 3D. The Graphic is a screen shot from ProFlangeV2. It is very easy to use, a complete solution for flange measurement and quality control.



The Graphic is a screen shot showing the correction of the flange foundation. The software supports the alignment of the In-Situ Milling machine.

No.	Z(o) in	Z(i) in	mrاد
1	.0063 in	.0677 in	-3.9
2	.0039 in	.0665 in	-4.0
3	.0000 in	.0591 in	-3.8
4	.0126 in	.0701 in	-3.7
5	.0059 in	.0657 in	-3.8
6	.0000 in	.0630 in	-4.0
7	.0000 in	.0646 in	-4.1
8	.0063 in	.0657 in	-3.8

The recorded data is also available in tabular form. It can also be exported to Excel.

Here we see the relative height of each point and the angle of each segment.



Used equipment:

- Rotational laser T310
- Laser receiver R310
- UMPC DU 310
- Flange Measurement Software ProFlange



T310 Part No. BG 830200/1



R310
Part No. BG 830100



DU310 Part No. IT 200310

AD 1005E 12/08 - Design / DTP: michael.steffens.medientdesign
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