



# FERMENTERS

- Perfect temperature control
- Reduced Cleaning Efforts
- Higher Product Yields
- Lower Energy and Maintenance Costs

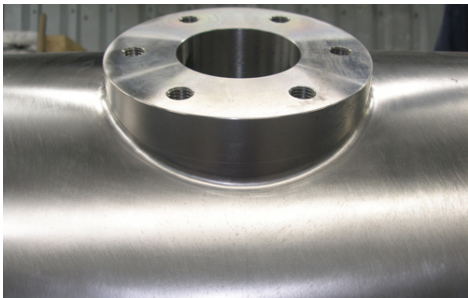
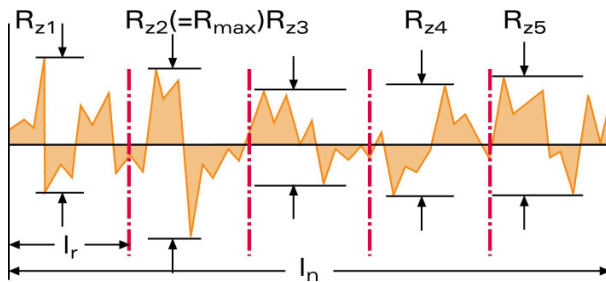


INNOVATIVE • PERFECT • QUALITY

### Highest surface quality!

The quality of inner surfaces of fermentation tanks is of the highest importance. High surface qualities contribute to the effectiveness of biological safety and cleaning. ZIEMEX uses cold rolled stainless steel sheets for tank production.

The surface of this material has an average roughness of  $< 0,8 \mu\text{m}$  without further treatment. By contrast all infection organisms are larger.



### Direct cooling systems!

ZIEMEX fermenters tanks do not need external plate heat exchangers to control the fermentation temperature.

So no infection problems occur because of fouling problems in the plate heat exchangers. Thanks to the ZIEMEX cooling system it is possible to build individual temperature zones in the fermentation tank. Using the ZIEMEX cooling system  $\text{NH}_3$ , glycole, sole or water can be used as refrigerants. The dimpled plate ZIEMEX cooling system offers you the possibility to reduce energy and maintenance costs.

