

Structural beams for fertilizer plant



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| Profile: | <i>IPE270, UPN80/100/120, UAP140, L150</i> |
| Material grade: | <i>316L</i> |
| Execution: | <i>laser fused (channel hot rolled)</i> |
| Industry served: | <i>Petrochem, Chemical & Pharmaceutical</i> |
| Destination: | <i>Poland</i> |



For a new Urea and Ammonium Nitrate (UAN) fertilizer plant in Poland, several stainless structural sections were needed. Especially the dome of the tower was designed with curved sections. And in order to reduce problems when assembling the dome, the engineers demanded for these sections being in one single piece and not butt-welded. For this ultra-long IPE beams had to be supplied, covering a span of 15.1m. 144 bars of these IPE270 (270x135x6.6x10.2mm) had to be produced.

Montanstahl is equipped to handle these kind of challenges with these particular demanding characteristics:

It starts by having an in-house de-coiling plant, allowing quick reaction and all required stainless steel plates in greater 15m

length were de-coiled and transferred to the cutting laser.

The particular cutting lasers are designed for cutting plates up to greater than 16m length.

Also the welding lasers are foreseen to provide solution to ultra-long sections, as well as all the straightening equipment.

On site these ultra-long beams were curved to the requested radius.

Montanstahl did supply also the transoms for the domes. They were made of laser fused angle bars. Even those were produced and supplied in special length from 6-10.8m length.

In addition to that, both hot rolled and laser fused U-channels in off-the-shelve 6m length were supplied.

All in all 144 beams, 138 channels in std. length and 60 angle bars in different length were supplied for a total of 95 ton stainless structural's were shipped to Poland.

