



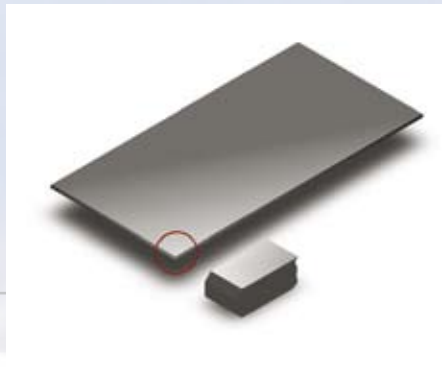
Efficient welding in the wind tower manufacturing industry

CONTROLLED QUALITY IN WELDING
OF ON- AND OFF-SHORE POWER PLANTS





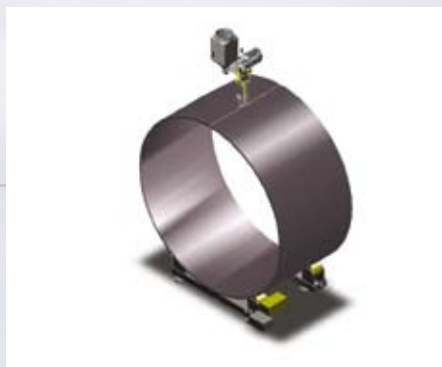
Oxy fuel or plasma cutting of plate and seam preparation



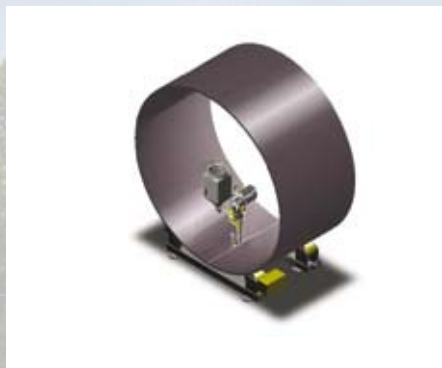
Rolling, forming and tack welding of the shell



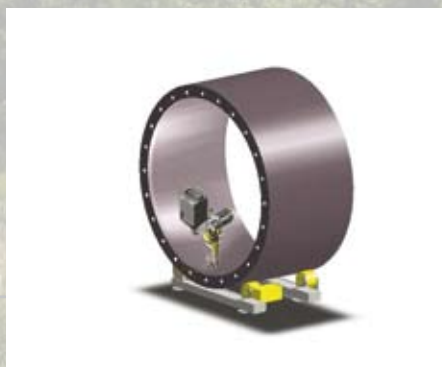
External longitudinal submerged-arc welding using a column and boom



Internal longitudinal submerged-arc welding using a column and boom



Manual MAG welding or submerged-arc welding of flanges and supports





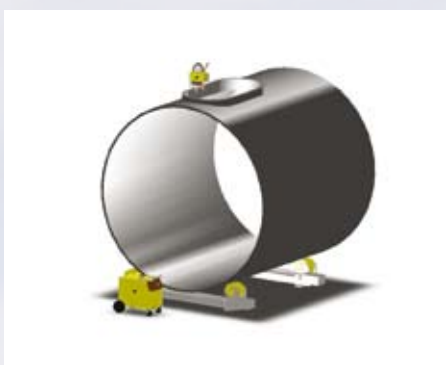
Hydraulic forming of shell sections when tack welding.



Joining of shell sections using roller beds or a head and tailstock positioner. External submerged-arc welding performed by a column and boom station.



Joining of shell sections using an ESAB Tripletrac. A tractor unit specially designed for internal welding.



Automatic welding of door frame using an ESAB Frametrac. A MIG/MAG welding tractor specially designed for travelling along a door frame.



Production of sub components (gear box housing), using an ESAB positioner and manual welding equipment.



Dedicated solutions for dedicated manufacturers

The secret behind the efficient production of wind towers is a smooth component flow in the workshop. The benefit of a high deposition welding process is completely lost if the set up or handling of components in any area of the process fails or takes an unacceptable time. ESAB can assist with the welding and cutting process in wind tower production, and deliver finely tuned solutions for each step in your welding production.

With a complete package from ESAB there is only one supplier and one time plan. This results in a large project being organised efficiently, with a fixed cost and agreed time schedule. Smooth production flow is a part of the complete delivery.

High productivity welding with a deposition rate of up to 40 kg/hour with a tandem twin submerged-arc welding head is possible.

The process is specially designed for production of wind towers where benefits from working in narrow weld preparations with reduced weld volumes can be achieved.

This combination will result in dramatically reduced welding time and increased productivity.

A dedicated wire and flux combination can eliminate major obstacles such as reduced impact strength in the weld, and poor slag release in narrow joints. OK 12.22 wire and OK 10.72 flux from ESAB gives good impact strength at minus 50 degrees, to satisfy offshore wind tower applications.



*ESAB reserves the right to alter specifications without prior notice.
ESAB is approved according to ISO 9001:2000*

Wherever in the world quality and productivity in welding and cutting counts, ESAB is there to set the standard



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