



IDEESA
ingeniería y diseño europeo, s.a.



OUR COMPANY

Founded in 1993 as a Technical & Commercial office to support local manufacturing shops in the Oil & Gas business, IDESA has become one of the most recognized and respected companies for the design, fabrication and supply of static and modular equipment worldwide.

As a result of its expansive growth, IDESA is one of the leading suppliers of Long Lead manufactured equipment such as Coke Drums, Vacuum Columns, Fractionators, Reactors and FCC & FCK units, as well as all types of Vessels and pressurized equipment for gas or liquid storage (H₂, CO₂, LPG, PP,LNG..). Its leadership position in the market is due not only to its human resource and technical capacity, but also to the location of its production facilities in Avilés (northern coast of Spain), only 1 kilometer from the industrial shipping port, which allows direct access from plant-to-ship without transportation limitations.



Since May 2014, IDESA is part of GRUPO DANIEL ALONSO (GDA), an industrial group specialized in steel processing that has locations in four countries and provides work to more than 1,500 employees in fifteen working centers.

Quality system of IDESA is certified in ISO 9001. In the same way, IDESA has the "U" & "U2" ASME Stamp , the AD 2000-Merkblatt HPO certification and it is also certified for CE Marking for pressure vessels and welded structures (EN1090), ISO 3834-2 Quality requirements for fusion welding of metallic materials.

OUR CAPABILITIES

- Manufacturing capacity: 44000m² - 6 Bays
- Forming press machine designed for 8.000 ton
- Pieces up to Φ 16 m; 2.000 tons
- 12 x 12.5 x 43 m PWHT furnace
- 1 Blasting cabin 8 x 8.3 x 35 m (w x h x l)

Machining

- NC Mobile column milling machine. Diameter 130 mm and 10.000 x 4.500mm.
- Vertical lathe up to diameter 12 m. Weight: 150 t - Height: 4.500 mm.
- NC milling machines.
- NC horizontal lathes.
- 1 Beveling machine, 3.300 m width x 20.000 m length, able to machine straight- and curve type bevels (J-, U-type, etc.).
- 1 Beveling machine, 4.000 m width x 30.000 m length, able to machine straight- and curve type bevels (J-, U-type, etc.)

Rolling

- Cold rolling up to 206 mm in 4.000 mm, ID 6.000 mm
- Cold rolling up to 192 mm in 4.000 mm, ID 3.000 mm.

Cutting, forming, assembly, welding, PWHT

- NC plate flame cutting up to 300 mm thickness.
- Plasma cutting up to 80 mm thickness.
- Water jet cutting system.
- Laser cutting system.
- 1 hydraulic press 4.000 t with 4.600 mm between posts.
- 1 vertical press 1.200 t with 6.200 mm between posts.
- 1 folding machine 2.000 t x 8 m length.
- 25 automatic welding columns.
- 1 plasma welding machine.
- 1 heat treatment furnace (12 m x 12,5 m x 40 m).
- Turning rolls of 50 t (4 pairs), < 150 t (30 pairs), 200 t (25 pairs), 250 t (9 pairs), 400 t (10 pairs), 600 t (12 pairs), 800 t (2 pairs) y 1.000 t (10 pairs).
- Automatic welding machines 14 m height x 9 m arm length, with 2 and 3 wires.
- 1 Portical station of automatic welding able to weld with 4 heads simultaneously, each of them with 3 wires, for can diameter up to 7 m.
- 1 Back gouge weld milling machine. Maximum milling speed of 400 mm/min and depth up to 120 mm.
- 2 Growing lines for can assembly: sections up to 30 m in length and 400 t. in weight.



MATERIALS

- Carbon Steel: low alloy, sour service, high strength (up to 500 MPa), low temperature, etc.
- Cr-Mo steels
- Clad and/or weld overlay (CS/Cr-Mo + SS)
- Solid Stainless Steels
- Ni Steels
- Duplex & SuperDuplex
- Inconel, Monel, Hastelloy, Incoloy...

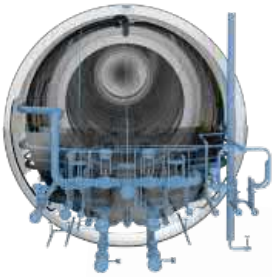


PRODUCTS

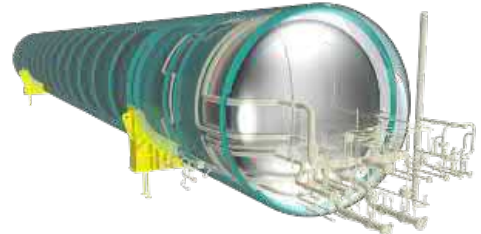
- Coke Drums
- FCC Units with refractory application (including dry-out).
- FCK units
- Reactors
- Columns fully dressed
- Separators
- Drums
- Pressure Vessels
- Pressurised Storage Tanks for H₂, LCO₂
- Bullets for LPG's
- Cryogenic double wall pressurized equipment for LNG storage (from 500 m³ up to 2000 m³)
- Autoclaves for the Aeronautical Industry



DESIGN CAPABILITIES



- Design software: COMPRESS, FINGLOW, PV ELITE, PASSAT
- Finite Element Analysis software: COMPRESS/Nozzlepro, ANSYS, Femap-NX Nastran
- CAD y 3D modeling software: AutoCAD, SOLIDWORKS, SPACECLAIM, SOLIDEDGE



TRANSPORT & LOAD OUT / STORAGE AREAS-HARBOUR FACTS

IDESA has not identified any restrictions with respect to transportation concerning dimensions and weights of final products. Regarding internal capacities, IDESA has its own equipment that allow us to move pieces up to 750 tons, 40 axles of SPMTs “Self-Propelled Modular Trailers”. That allows great flexibility, being able to move equipment between workshops and from our facilities to the port, either for storage or along side the ship, ready for loading.

Grupo Daniel Alonso S.L, manages more than 250,000 m² of available space in the Avilés port for storage loads (3 Km) from our main Factory. IDESA facilities are strategically situated with large areas for storage, located a few meters from our manufacturing factories at the harbor of Avilés (northern Spain), for national and international transport and delivery of its Onshore & Offshore products. Product storage and subsequent load-out can be in either horizontal or vertical position as per customer wishes.

In addition, IDESA can perform final assembly activities at the harbor. IDESA heavy lift equipment is loaded out and shipped from Avilés Port.

The quay draught of the harbour dock is 14 m LAT (Lowest Astronomical Tide).



Contact us

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Made with pride in Spain 🇪🇸

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