

Adell



BRASS
CASTING, FORGING
& MACHINING

Production and Technology At Adell



Engineering, Design & Innovation



Innovation and design are our most important values. Adell has unique aesthetical and stylish designs which protect the water and environment. We believe a good design will catch everyone. Our products are designed by our design experts according to customer demands and expectations, considering the national and international standards and our design criteria. Functionality, energy saving, aesthetics, ergonomics, mountability and maintainability, size compatibility, safety, production life span, testability, modularity, packaging and shipping, impact on environmental pollution, waste utilization, production techniques and cost issues are taken into consideration at the design phase.

Quality Management



We have a professional QC team with an aim to investigate the situation and focus on the improvement plan. We are looking into the very fine details of the whole manufacturing process and will implement procedures including visual inspection, acceptance standard review and worker training and so on.

- IQC- Incoming Quality Control
- PQC- Process Quality Control
- FQC- Final Quality Control

The ERP system of the whole process that begins from order to the shipment to accelerate and optimize the operation steps to prevent potential failures or delays.

Mould & Tool Production



Mould developing is processed using the most precision CNC workbenches. Core, casting and hot working moulds, designed using the 3D Unigraphics CAD-Glass programs in a computer environment, are made by cutting the steel blocks in microns with high precision.

Technologies that we utilise:

CNC Vertical Machining Centers, Universal Mills, Lathes, Drills, Grinder Machines, EDM Tool & Cutter Grinders Machine.

Die-Mould Materials:

Cu-Be,
Brass,
Various Steels



Low-Pressure & Gravity Brass Die-Casting



Raw Materials

- CC 757 S, CC 770 DZR, CC 773, Low Lead listed in UBA, 4MS

Technologies that we utilise:

KWC LDCP 1011 Low Pressure Casting Line.
Induga LDCP 1001 Low Pressure Casting Line.
IMR C40 Gravity Die Casting.
IMR C55 Gravity Die Casting.
IMR FA 5.0 S Hydraulic Core Blowing Machine
IMR FA 2.5 S Pneumatic Core Blowing Machine

Capacity:

1000+ tons per year

Casting Capabilities:

Max. die dimensions: 500 x 400 mm
Max. Weight of Die: 150 Kg/pc
Max. 7 kg. Casting Weight.



Brass Hot Forging



Raw Materials:

- CW 617 N, CW 511 Low Lead listed in UBA and 4MS

Capacity:

Various press machines up to 400 tons.



Turning & Machining Process



Raw Materials:

- All kinds of brass, s. steel and aluminum.
- CW 614 N, CW 509 L, CW 510 L, CW 511 L

Capacity:

Max Ø 65 mm

Technologies that we utilise:

- Gozio Billo CNC Horizontal Machining Centers - 5 Axis
- Brother CNC Tapping Centers - 4 Axis
- Brother CNC-2 Pallets - 4 Axis
- Chiron CNC-2 Pallets - 4 Axis
- Transfer Machines - 3 Axis
- CNC Lathes - 4 Axis
- CNC Automatic Lathes with C and Y Axis



Assembling, Testing & Packaging



Product quality is developed with the perfect combination of fine components, details and precision workmanship. Each part is picked and scaled carefully with this approach. The product is mounted by assembling the product body with the parts such as cartridge, lever, aerator and screw. The assembled products are subject to 100% leak-tightness, Functionality, and resistance to pressure tests in high precision testing devices. In addition, they are tested in life span, flow rate, sound and surface coating strength through the random method.



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