



METALS OF BAHRAIN

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MEBA Technical Profile – Nov 2014



Profile

About Us



Metals of Bahrain (MEBA) is a modern module industrial center established in Bahrain in 1992. The idea is to produce engineered Ferrous and Non-Ferrous Castings and components to the industrial community around the world. Manufacturers of pumps, valves, hydraulic power transmission, water line fittings etc. have been our trade partners for the last 22 years.




In 2003, MEBA launched its latest production line for casting Bronze and steel alloys. The no-bake casting line uses the latest technology for metal casting and analysis.







Units

1. Foundry
2. Machine Shop
3. Quality Control
4. Heat Treatment
5. Centrifugal Casting
6. Tool Room and Pattern Shop
7. Austempered Ductile Iron (ADI)

Foundry	
<p>Tool room / Engineering Center</p> <ul style="list-style-type: none"> • 2 x 3D Router Machine • Wood Processing Unit 	 
Automatic Cold Box Core Making.	
Self Set Molding	
Sand Reclamation	
Continuous Mixer (Furan Sand)	
<p>Melting</p> <ul style="list-style-type: none"> -Dual Track 750 Kw Induction Furnace with two Crucibles of 1 tone capacity - Dual Track 175 Kw Induction Furnace with two Crucibles of 250 kgs capacity 	
Shot Blast Chamber	
Fettling and Finishing	
<p>Heat Treatment Furnaces with fork type quenching facility and chart recorder.</p> <ul style="list-style-type: none"> - Two tone batch capacity with 1950x1500x1000 mm chamber size - 500 Kg. batch capacity with 1200x1200x 800mm chamber size 	
Pneumatic Glass Beads Blast	
Inspection and Testing	

Machine Shop	
C.N.C. Machining centers	  
Vertical Machine Center (VMC)	
Horizontal Machine Center	
Turn Mill Center	
2 x Wickman Multi Spindle Auto Lathes	
2 x Rossini –Threading and Multi-station Transfer Machine	
Milling	
Trimming process	
Gang Drills	
Turret Lathe	
Grinding Machines	
Center Lathe Machine	

Quality Control	
ARL Spectrometer	 
Arun Tech Spectrometer	
Non Destructive Testing (NDT)	
Tensile Testing	
Hardness Testing	
Sand Lab	
Microstructure Examination	
Die penetrant Test	

Tool Room / Pattern Shop	
Routers	 
3 D Scanner	

Alloys	
Cast Iron	Gray Iron (FG Iron) various grades. Ductile iron (SG Iron) of various grades with Ferrite and pear lite structure -Ni-hard, Hi-Chrome Iron
Copper Base	LG2 BS1400 , Nickel Al Bronze (AB1,AB2) Phosphorous Bronze (PB1, PB2), Leaded Bronze (LB2, LB4,LBC3)
Stainless Steels / Duplex / Super Duplex (Corrosion and heat Resist)	Stainless 304-316-316L, Duplex - 2205, 2507, ASTM 890 3A,4A,5A Heat Resist Steel (ASTM 297- HK,HL,HE)
Carbon Steel / Low Alloy Steel	ASTM A 216 WCA, WCB, WCC. ASTM 732 1 A, 2A, 2Q, 3A,3Q, 7Q, 8Q
Manganese Steel (Impact and Wear Resist)	ASTM128 (Grade A,B,C,D)
Austempered Ductile Iron (ADI)	ASTM A897

Applications
Pump parts
Valve Components
Crusher parts
Earth Moving Equipment Parts
Oilfield Consumable
Maintenance Spare Parts
Pressure and Corrosion Resist Components
Smelter Replacement parts
Fittings (Flanges, Bend And Tees)
Bushes (Bronze And Stainless)

Product Showcase	
<p>Stainless Steel / Duplex Grades : 316, 316L, 2205, 2507</p>	
<p>Bronze LG2 , pb1, pb2, AB2, Leaded bronze, Tin Bronze</p>	
<p>Wear / Impact / Heat Resist Steel Mn. Steel High Cr. / High Ni Steel Low Alloy Steel</p>	

Product Showcase – For Aluminum Smelters	
<p>Intermediate Tube Material: Grey cast iron</p>	
<p>Steel Shovel Material : Stainless Steel</p>	
<p>Pouring Spout Material: Grey cast iron , SG iron</p>	
<p>T Bar Starting Head Material Alloy Aluminium</p>	

Product Showcase –Earth Moving Equipment Parts



Product Showcase – Oil Field



Thanks

