

Phone: +973 17 830 707 Fax : +973 17 830 004 Web: http://www.meba.bh

MEBA Technical Profile - Nov 2014



# **Profile**



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#### **About Us**

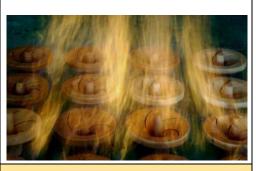
Metals of Bahrain (MEBA) is a modern module industrial center established in Bahrain in 1992 The idea is to produce engineered Ferrous and Non-Ferrous Castings and components to the industrial community around the world. Manufacturers of pumps, valves, hydraulic power transmission, water line fittings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



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## Foundry

## Tool room / Engineering Center

- 2 x 3D Router Machine
- Wood Processing Unit

Automatic Cold Box Core Making.

Self Set Molding

Sand Reclamation

Continuous Mixer (Furan Sand)

#### Melting

- -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



Fettling and Finishing

Heat Treatment Furnaces with fork type quenching facility and chart recorder.

- 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** 







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# **Machine Shop**

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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







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# **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





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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)					



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



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



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#### **Product Showcase – Oil Field**





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## **Thanks**

