

COMPANY PROFILE

APEX ENGINEERING is a solutions oriented **Heat Treatment company** in providing the best customer service in the industry with excellent on-time delivery of top quality products at a reasonable competitive price. As qualified and experienced specialist in heat treatment. Our advanced knowledge and technology, combined with a flexible and customer-oriented approach with proven metallurgical background. **APEX ENGINEERING** can also offer valuable customers technical support and advice on heat treatment and/or material solutions for product improvement.

TYPES OF FURNACES AVAILABLE

- 1) GAS NITRIDING FURNACE (Electrically Heated): 1 NO**
Make: Fluidtherm Technology
Chamber Size: 600mm D X 1000mm H.
Loading Capacity: 150-180 Kg/batch.
- 2) LIQUID NITRIDNG FURNACE (Electrically Heated) : 2 NOS**
Make: Kumar & Co.
Chamber Size: 500mm D X 1000mm H.
Loading Capacity: 80-100 Kg/batch.
- 3) PREHEATING FURNACE (Electrically Heated): 1NO**
Make: Kumar & Co.
Chamber Size: 500mm D X 1000mm H.
Loading Capacity: 80-100 Kg/batch.
- 4) ROTARY RETORT FURNACE (Electrically Heated): 1 NO**
Make: Kumar & Co.
Chamber Size: 380mm D x 600mm L.
Loading Capacity: 40-50 Kg/Batch depend on size of the component.
- 5) TEMPERING OWEN (Electrically Heated): 1 NO**
Make: Kumar & Co.
Chamber Size: 650mm W x 650mm H x 1250mm L.
Loading Capacity: 100 Kg/Batch.
- 6) AUSTEMPERING FURNACE (Electrically Heated): 1 NO**
Make: Kumar & Co.
Chamber Size: 500mm D x 1200mm H.
Loading Capacity: 50 Kg/Batch.
- 7) INDUCTION HARDENING MACHINE: 1 NO**
Make: RAYDNE(HF).
Capacity: 50KW.

8) GAS CARBURISING FURNACE (GCF) PIT TYPE (Electrically Heated): 1 NO

Make: Control Scientific.
Chamber Size: 900 D x 1500mm H.
Loading Capacity: 1.5t/Batch.

9) OIL QUENCH TANK (CAPACITY-15000 LITERS)

Make: Kumar & Co.
Chamber Size: 900 D x 1500mm H.
Loading Capacity: 1.5t/Batch.

10) TEMPERING FURNACE PIT TYPE (Electrically Heated): 1 NO

Make: Control Scientific.
Chamber Size: 900 D x 1500mm H.
Loading Capacity: 1.5t/Batch.

11) MATERIAL HANDLING EQUIPMENTS: 2 NOS

Hydraulic Press Capacity: 20ton.
Hand Pallet Hydraulic: 2ton.
Operation: Bend removing on the component before and after heat treated.

HEAT TREATMENT PROCESS CARRIED OUT

APEX ENGINEERING is a solutions oriented company providing heat treating services for steels, nonferrous metals and alloys using various processes such as:

- Gas Nitriding.
- Ferritic Nitro-Carburizing (FNC).
- Gas Carburizing.
- Gas Nitriding with Steam Oxidization.
- Liquid Nitriding.
- Age Hardening.
- Induction Hardening up to 1.5 metres Length.
- Hardening and Tempering.
- Case Hardening and Tempering
- CarboNitriding
- Carburizing
- Annealing and Nitrogen Annealing
- Stress Relieving
- Normalizing
- ** Austempering (Special Process to obtain strong bainite micro structure)
- ** Bluing

QUALITY ASSURANCE WITH METTALURGICAL LABOURATORY

APEX ENGINEERING has a fully equipped metallurgical lab on site to conduct all hardness testing examination and micro-analysis. Laboratory has a complete line of testing equipment that can be used to inspect and analyse the results of the various treatments performed in the plant.

APEX ENGINEERING has a complete metallurgical laboratory which includes

a) CUTT-OFF MACHINE:

Make: CHENNAI METCO.
Model: BAINCUT – M.
Capacity: Up to 50 mm.

b) MOULDING MACHINE:

Make: CHENNAI METCO.
Model: BAINMOUT.
Capacity: Up to 40 mm.

c) POLISHING MACHINE:

Make: CHENNAI METCO.
Model: BAINPOL.
Type: Double Disc with Mounting, Polishing, Etching facilities

d) MICRO SCOPE:

Make: CHENNAI METCO.
Model: METSCOPE.
Type: Optical microscope with a Digital Camera for metallurgical examination and for recording photomicrographs with Printing System.

e) MICRO HARDNESS TESTER:

Make: TMC ASSOCIATES.
Model: DHV1000.
Load: 10 grams to 1 kg.
Type: Digital Vickers Machine with precise readings and computerised printing system.

f) CHEMICAL ANALYSIS:

We have full set up of chemical analysis installed at our lab for testing salt strength.

g) ROCKWELL HARDNESS TESTER:

Lab is also equipped with Rockwell Hardness Machine.

OUR VALUABLE CUSTOMERS

- PRICOL.
- L.G.BALAKRISHNAN & BROS.
- G-PLAST.
- K.S.B PUMPS.
- HINDUSTAN MOULDS AND DIES.
- JKS.
- JAYA REKHA INDUSTRIES.
- BHARAT BALANCING AND WEIGHTS & CO.
- DECCAN PUMPS PVT LTD.

We will be happy if we get an appointment to reach you and explain about our plant and our process carried out.

We are into ISO 9001:2015 Documentation and will shortly be an ISO Company.

Looking forward to join hands with you as one of your valuable Vendor.

Thanking You.

For further details and query.

Please Contact.

Office: 99440 62220.

Mobile: 96294 88811.

Regards,

Apex Engineering,

SF No: 30/A2, Parasakthi Nagar,

Ganapath Post,

Coimbatore – 641 006.

Land Mark: Behind Naval Housing Board (Athipalayam Pirivu).

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