CHW Forge has the experience and capability to provide forgings for the wide range of materials to meet the critical requirements of oil & gas, heavy engineering, fabrication and defence industry. CHW Forge is continuously working to upgrade its knowledge and processes. It is developing forgings of new grades of material keeping in mind the ever changing needs of its customers. We regularly manufacture the following alloys:

- Titanium Alloy
- Inconel
- Aluminium Alloy
- Stainless Steel
- Duplex Stainless Steel
- 15CDV6 Alloy Steel
- Maraging Steel
- Alloy Steel

CHW Forge holds healthy relationships with an impressive list of clients across diverse industries:

- Oil & Gas
- Nuclear Power
- Defense & Aerospace
- Power Generation
- Pressure Vessels & Heat Exchanger
- Cement & Mining
- Heavy Industrial Equipment
- Bar Service Centers
- Bearing and Gear Blanks
- Wind Energy
- Shipping & Marine

CHW Forge Private Limited

Registered Office UNIT 1
New Hapur Road Flyover, Mahavir
Ghaziabad - 201001
Uttar Pradesh, India
Phone: +91 120 4376970 - 71
Fax: +91 120 4376971

E-mail: chw@chwforge.com
www.chwforge.com

UNIT 2
Amhera, P.O. Pune, G.T. Road
Girnar Tower, Phase-I - 411007
Uttar Pradesh, India
Phone: +91 20 41866600
Fax: +91 20 41866641

Forgings and Relationships
WHICH LAST LONGER
ABOUT CHW FORGE

Established in 1956, CHW Forge is one of India’s leading manufacturer of Alloy steel, Stainless steel, Duplex stainless steel, Inconel, Maraging Steel, Aluminum alloy and Titanium alloy forgings.

- Approved as well known Forge by IBR
- PED 97/23/EC
- AD 200-Merkblatt WO
- AS 9100
- ISO 27001
- OHSAS 18001
- ISO 14001
- ISO 9001
- 17025 by NABL

CHW Forge is well equipped and is backed by the following agencies for:

- 3800 MT Automatic Hydraulic Open Die Forging Press (Wepuko Pahnke, Germany)
- 30 MT Rail Bound Forging Manipulator (Dango & Dienenthal, Germany)
- 1.4 MT Mobile Forging Manipulator (Dango & Dienenthal, Germany)
- 2 MT Mobile Manipulator (Dango & Dienenthal, Germany)
- 40 MT Car Bottom Gas Fired Reheating Furnace (Andritz Metals, Germany)
- 30 MT Chamber Gas Fired Reheating Furnace (Andritz Metals, Germany)
- 5 MT Car Bottom Electrically Heated Furnace (Andritz Technologies, India)
- 10 MT Chamber Electrically Heated Furnace (Wesman Engineering, India)

An Integrated Company wide ERP system maintains accurate control on materials, production and inspection while advanced communication systems ensure fast information exchange between the company and its customers.

WORLD CLASS PRODUCTION INFRASTRUCTURE

3800 MT Automatic Hydraulic Open Die Forging Press

This open die forging press is a very off-set and rugged under the floor press, also known as pull down press having an extremely low center of gravity. The pull down concept also provides a clean forging area with excellent accessibility. The press has extraordinary dynamics and a speed of 215 mm/s and has 110 strokes per minute. A rail bound Manipulator on one side and a manipulator on the other side of the press can be remotely controlled situated few meters below the press operator from the control desk.

This unique press can be used for various forging processes:
- High speed open die forging
- Forging of large cross sections through upsetting process
- Direct upsetting
- Sequential upsetting on a rotating table
- Straightening of drafts
- Punching and piercing of forging billets

Manipulators

To support the ODF press, we have the latest manipulators to facilitate the manufacture of forged products. These manipulators are supplied by Dango & Dienenthal, Germany. In the past manipulators were normally built with heavy structure to make them rigid. The high weight of the machine makes the manipulator sluggish and slow. The new compact design ensures that the manipulator is strong and rigid and has fast movements without losing rigidity.

30 MT Rail Bound Forging Manipulator

Our open die press is equipped with high capacity rail bound forging manipulator of 30 MT carrying capacity and maximum tonnage moment of 60 Ton Mtr.

1.4 MT Mobile Forging Manipulator

The 1.4 MT die forging press has a maximum carrying capacity of 1.4 MT and maximum tonnage moment of 24 Ton Mtr.

2 MT Mobile Manipulator

In order to handle small forgings and move the hot stock in a very short span of time between the furnace and the press, this Diesel - hydraulic driven mobile forging manipulator comes very handy, especially for handling titanium, aluminum and exotic alloys. This is also from Dango & Dienenthal, Germany.

Salient Features

- High power traction & scissor drive
- Double hydraulic power system
- Backward fixed travel drive
- Low adapted suspension system
- Special design drive with inverse cylinder
- Computer2000 Design
- Automatic forge line centering

WORLD CLASS RE-HEATING FURNACES

CHW Forge continuously strive to install latest technology to reduce energy costs and carbon emissions. Our forge shop is equipped with modern gas fired and electric operated furnaces. The furnaces can be operated up to 1270 degree centigrade.

40 MT Car bottom gas fired reheating furnace with regenerative flat flame burners

This furnace is equipped in lightweight design for a flexible operation and with air-preheating for an economic operation. An essential advantage of this furnace, especially when using high-quality material, is that no over-heating at the surface occurs and therefore an optimum homogenous heating can be guaranteed.

30 MT Chamber gas fired reheating furnace with regenerative flat flame burners

The furnace is fired by 4 regenerative burners which are arranged above the material on the roof of the furnace. Due to the number of burners and their arrangement, an optimum distribution of the burner performance over the entire furnace area is ensured. Each burner is provided with a regenerator for pre-heating of the combustion air up to approx. 1100 degree centigrade. The burner is controlled in Air-RegMETH which ensures the maximum heating before the burner starts.

5 MT Car Bottom Electrically Heated Furnace

This furnace is provided with Silicon Carbide type heating elements located on all the 6 sides of the furnace including the floor and the door. This is a car bottom furnace which can be driven out with high speed thereby saving the heat energy. This furnace is capable of meeting heat uniformity even at a temperature of 1250 degree centigrade. This furnace is suitable for heating of exotic materials, super alloys, titanium etc.

10 MT Chamber Electrically Heated Furnace

This is an electrically heated fixed hearth type furnace. It is suitable for heating aluminum alloys. The temperature uniformity is maintained with the help of 2 overhanging low type re circulation fans located at the roof of the furnace for efficient circulation of hot air inside the heating chamber.