

Operating from two manufacturing facilities, **ELLWOOD City Forge Group** is known worldwide as a leader in the open-die forging industry. We manufacture a wide variety of medium and large sized forgings in carbon, alloy, stainless, tool steels and nickel alloys in weights up to 70,000 pounds, lengths to 57 feet, and diameters to 135 inches. We specialize in custom forgings including shafts, blocks, eccentrics, billet, bars, hollow sleeves and disc forgings.

With multiple open die forging presses up to 5000 tons, ECFG can manufacture a wide variety of dimensions in single quantity or high volume. We are experts in providing critical application hydropower components such as bored and solid shafting for turbomachinery, turbine and compressor shafts, impeller shafts and hubs, and wicket gate stems.

We are committed to providing efficient, innovative and cost-effective solutions for your individual needs, **delivered on time.**

In doing this, we serve customers both large and small.



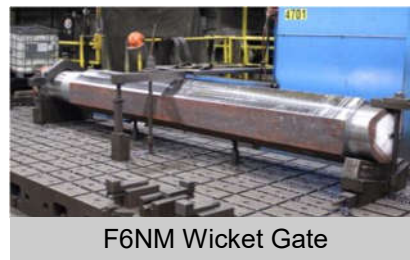
Bar Forging—1500T

## Unsurpassed Reliability

ELLWOOD offers competitive lead times and reliable deliveries to customers in North America and around the world.



5000T Press



F6NM Wicket Gate



**ELLWOOD**  
City Forge Group

**POWER  
GENERATION  
HYDROPOWER**



Peeled Bars

## MATERIALS

- ◆ Carbon
- ◆ Alloy
- ◆ Stainless
- ◆ Tool Steel
- ◆ Nickel Alloys
- ◆ Aluminum



We offer a variety of materials melted in our modern steelmaking facilities and made to your unique specification. Our material is produced with tight chemistry control to provide heat-to-heat analysis consistency and unparalleled cleanliness.

ELLWOOD produces super clean materials using the Vacuum Arc Remelt (VAR) and Electro Slag Remelt (ESR) processes when required by your specification.

We are excited to announce that Aluminum production begins fourth quarter of 2020!

Call us today to see how we can provide a material solution for you!



## PRODUCTS & QUALITY

### Hydropower Products

- ◆ Turbine Shafts
- ◆ Generator Shafts
- ◆ Pump Shafts
- ◆ Impeller Shafts
- ◆ Hubs
- ◆ Wicket Gate Stems
- ◆ Gear Box Components
- ◆ Cylinders/Sleeves
- ◆ Bars

### Quality

Our experienced metallurgical engineers possess a vast understanding of the microstructure of heavy metallic sections over a large range of chemistries, sizes and geometries. Based on this knowledge, we provide the specialized mechanical properties that our customers require.

We hold numerous approvals for marine agencies, power generation, and aerospace.

We are proud to be AS9100 accredited!



## HEAT TREAT & MACHINING

### Heat Treat Facilities

ELLWOOD has state-of-the-art precision heat treating equipment necessary to deliver the demanding mechanical properties that our customers specify.

### Machining

If you require a rough machined, semi-finished or finished forging, ELLWOOD has extensive machining capabilities. Our machining equipment includes milling, conventional and CNC lathe turning, sophisticated machining centers, vertical turning, trepanning and boring.

