



Metallurgical Industries Co.



# **Alnasr Forging Company**

- **Automotive and engine industries:**
- **Railway and metro parts:**
- **Forged parts: and Special parts of electrical networks**
- **Forged and machined steel flanges :**
- **Electric- welded link chain :**
- **Cutting with laser technology :**






**Together  
we  
can**




# **Alnasr Forging Company**



**Factory – EL – Tabbin – Helwan**  
**Telecommunication**  
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**Friday And Saturday Are Off**





## Al-Naser Forging Company Industry

Al-Naser forging company is considered the largest forging plant in Egypt and middle east it was established in 1960 to produce forged steel for feeding the following industries :

### **1- Automotive and engine industries:**

Forged parts for buses, lorries, tractors and engines such as (Crankshafts , connecting rods , gears, axes, Hubs ..... etc. )

### **2- Railway and metro parts:**

Screw-couplings ,Draw Hooks , collision columns , Clips for Railway fasteners, fixing, Rails Base, fish planets,... etc.

### **3- Forged parts:** and Special parts of electrical networks according to customer needs.

### **4- Steel chain conveyors :**

for cement , sugar and various industrial purpose

### **5- Forged and machined steel flanges :**

For petroleum , water and gases pipelines .

### **6- Electric- welded link chain :**

according to customer specifications (DIN) Standard Chain from 13 mm - 45mm

### **7- Machining parts with (C.N.C) machines :**

such as (Milling - Lathes - Drilling - ...)

### **8- Cutting with laser technology :**

### **9- Die Production according to customer needs :**

### **10- Heat treatment according to demands of the customer needs :**

The company produces many parts from special carbon and alloyed steel as international standards.

We are pleased to provide our customers with high quality products in all industries inside Egypt And the Arab countries and the all over world

**Pensioner Major General Star.  
Ashraf Abdel-salam Abdou Awad.  
Chairman and Member of Boa**





## Chain plant

chains are produced according to din for tension and hoisting purposes as follows

## Chain Manufacturing Shop

It has been constructed for manufacturing of metallic chain for tensions and hoisting purpose, and general purpose as well. this shop was modernized To scope the new trends of productions by supporting it with up to date manufacturing ling from Germany chain's are produced according To (Din) standard To Supply S.

## PRODUCTS

- 1\_ Calibrated chains 6 : 16 mm.
  - 2\_ Non - Calibrated Chains 6 : 40 mm.
  - 3\_ Special Chains according To Customers' needs.
  - 4\_ Circular Link Chains.
  - 5\_ Chain attachments,( Swivel- Chackl - End Links And Hooked)
- TO Guarantee Best Properties We Could Get Approval of  
**LOYDS REGSTER OF SHIPPING AS  
MANUFACTURER OF STEEL CHAINS**





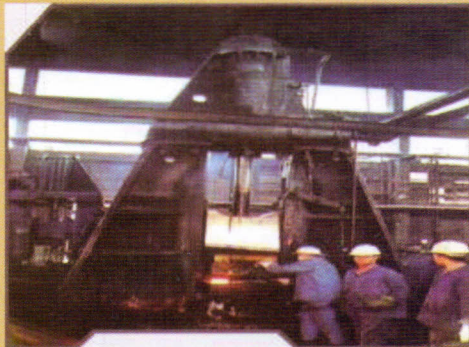


## Din forging shop

Where parts are hot drop stamped up to 100 kg weight per piece.

### Equipment

- drop forging stamping or die stamping hammers up 10 t capacity.
- horizontal forging hammers up to 1250 t capacity.
- heating furnaces of different capacities.
- handling facilities up to 10t weight.



## Free forging shop

The shop produces free forgings of cylindrical shapes up 300mm diameter , and 2t weight(for discs up to 800mm) diameter & 1000kg weight .

### Equipment

- free forging hammers up to 3t capacity.
- heating furnaces of different capacities.
- handling facilities up to 5 t capacity.

Machining and die making shops :

The shops contain:

Horizontal lathes for diameters up to 1000mm and lengths to 5000mm.





Vertical lathes for diameters up to 1200mm .

Horizontal copying lathes for diameters up to 250mm and up to 2500mm length .

## **Drills :**

Upright and radial drills up to 80mm diameter .

Broaching machines up to 75mm .

## **Grinding machine :**

Surface grinding up to 320x100mm.

Inner cylindrical grinding up to 80mm .

Outer cylindrical grinding up to 200mm Diameter .and 2000mm length .center less grinding up to 50mm.

## **Milling machine:**

Vertical milling machine of different sizes (Plano-milling) machines up to 2000x8000mm.

Vertical copy milling machines .

Special machine for manufacturing of helical gears

Up to 750mm and normal gears

Up to 1250mm , module up to 12 .

Spark erosion die-making machine .

## **Planers:**

- Planers of various capacities up to 250x4000mm.

## **Heat treatment shops:**

The shops are equipped with fully automatic controlled pusher type urns of high productivity.

All heat treatment operations are performed (normalizing – annealing – hardening-tempering -..etc.)

There are induction surface treatment high – frequency units and salt baths for treating of tool steels.

Surface carburizing is also performed in our shops.

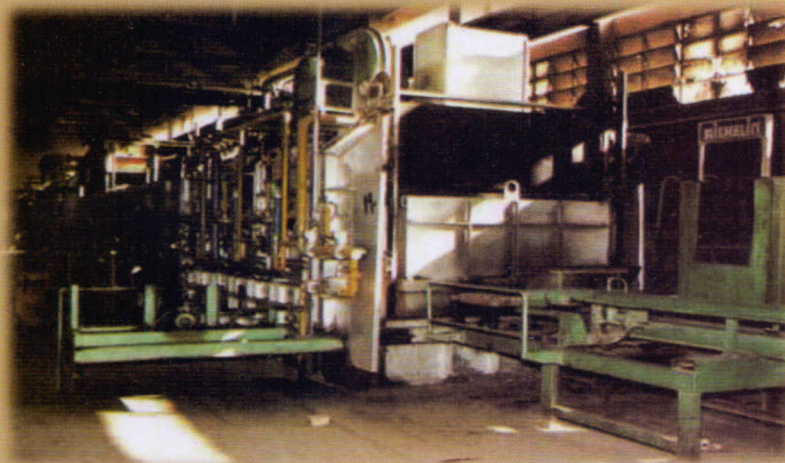


# Alnasr Forging Company



## Design and technology Department for:

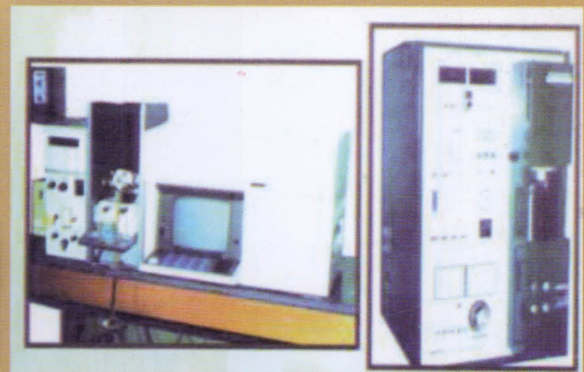
Studying of the required produce geometrically, their drawing and specimens .  
Preparing the required detailed drawings according to product performance.  
Designing of blanking and forming dies according to customer needs and technical specifications.



## Laboratories

Our company is equipped with most advanced laboratories for the following purposes

- Sample preparation and mechanical testing for tension and compression up to 150 tons as well as testing for impact and hardness
- Sample preparation and inspecting for microstructure .
- direct reading of the chemical analysis using the atomic-absorption chemical analyzer .
- fine measuring facilities all these facilities enable our company to help our customer to get their optimum needs .
- nondestructive testing by ultra-sonic .



- 1\_ Spark spectrophotometer.
- 2\_ Chemical analysis for all types of famous alloys and some types of Nonferrous alloys ( copper alloys )



# Alnasr Forging Company



Our company is a main supporter to all industrial customers as.

## Automotive and tractor manufacturers:

Forged parts consist 25-40% of the weight of any tractor, bus Or lorry; examples of those parts are:

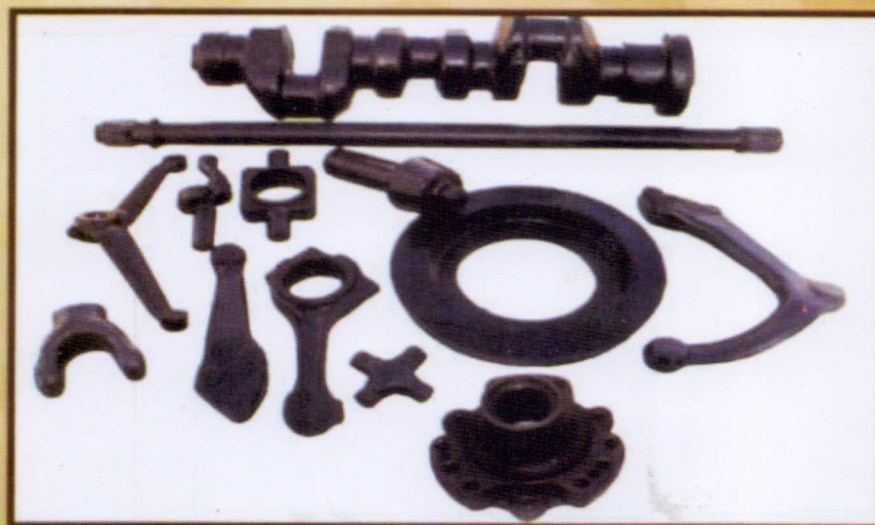
**Engine:** Crank shaft, Camshaft, connecting Rod and Rocker Arm etc .

**Gear box:**

Various gears, rods and transmission levers.

**Mechanical and suspension:**

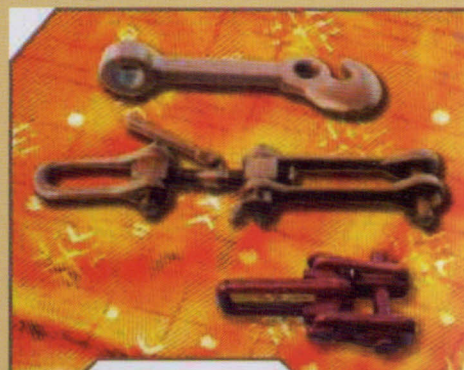
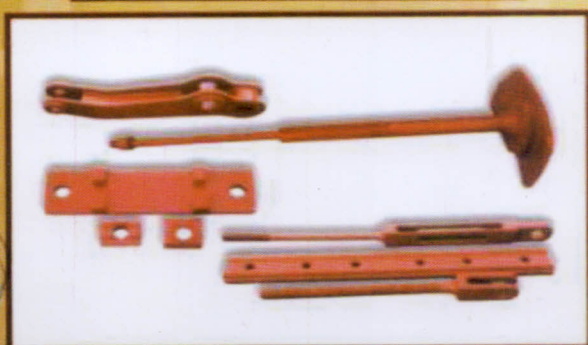
Parts, like Front Axles - Rear Axles-Crown Gears-Front and Rear Hubs- Connecting parts-brake details- Steering Arm.



## Railway needs:

-Buffer rods of various types-Trackin hooks-screw couplings- Suspension group – various types of pins according to international standards.

- Brake details- railway clips-rail bases- fishplates





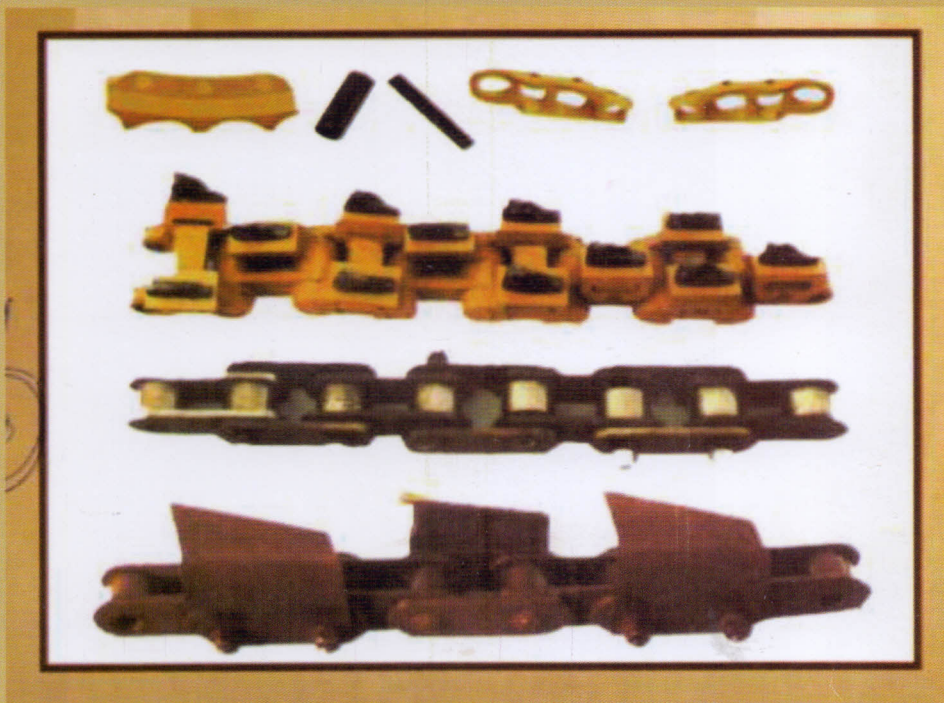
# Alnasr Forging Company



## Petroleum industry

We supply petroleum companies with various types of Steel flanges ( blind- slip on-welding neck- threaded 1/2-24" at working pres. –sures.

( 150-600) 1b/inch<sup>2</sup> according to Standard specifications 0



## Military factories and industries

We supply them with all their needs from the Forged parts suitable for heavy duty.

## Machine Building industry

We supply machine Building factories with all forged parts for manufacturing

Of lathes, milling machines, planning machine, shears and details for Agricultural machine.

## Irrigation authority-land Reclamation co. And drainage

- Parts for irrigation and drainage projects.
- metallic Conveyors of different designs



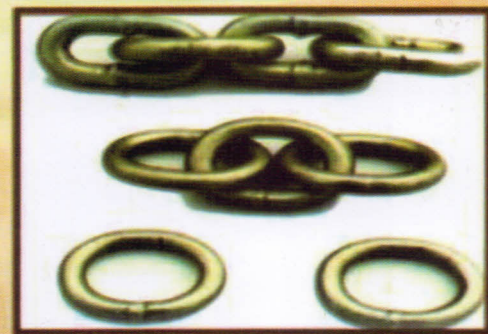
# Alnasr Forging Company



## Marine companies

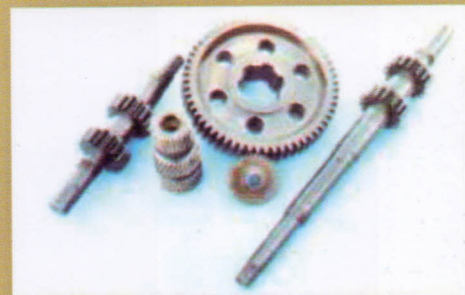
Our company produces the required parts for marine work as:

- 1- Parts for ship- landing and fastening.
- 2- Chains and their accessories according to the international Specifications under supervision of Lloyds Register of shipping



## Spare parts for weaving and spinning industries .

- . Driving gears of different tyoes0
- . special gears.
- . tightening clips
- . The company also manufactures any spare-parts as customer request



## food and sugar industries

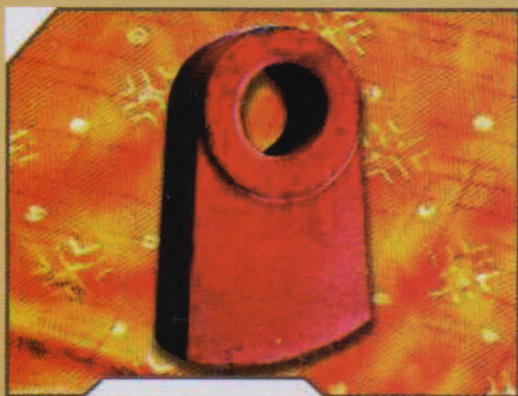
We supply these industries with different chains and their accessories mechanical transportation coveyors for production processes and their spare parts0





## Cement industry

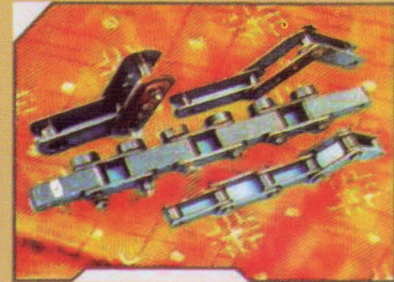
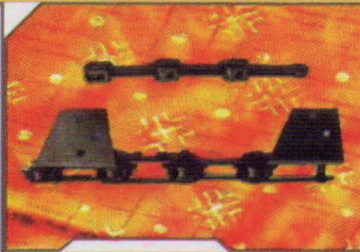
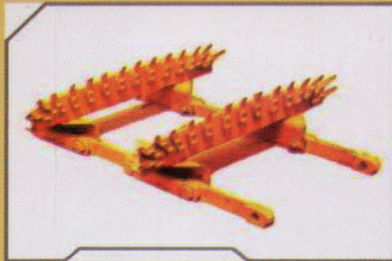
- 1- Complete material transfer conveyors (limestone – clay – clinker)
- 2- RECLAIMER CONVEYORS 0
- 3- CONVEYOR SPARE PARTS.
- 4- CRUSHING HAMMERS.
- CRUSHER HAMMERS AND DISTANCE RINGS
- FASTENING bolts for cement mills
- Sprocket gears
- transmission gears up to module 12.
- Circular and oval ring chains
- 6-40mm and calibrated chains 6-16mm
- wear resisting chains







Different types of metallic conveyors for cement,  
**Fertising, sugar and phosphate industries**  
**As well as road building authorities**



## Laser cutting machine

**The machine cutting used for cutting, drilling and marking  
by High Accuracy and fully computerized**

**The machine used for cutting all shapes and complicated  
solids**

**For all types of materials ( steel – st : st – aluminum )**

**Accuracy     0.03 mm**

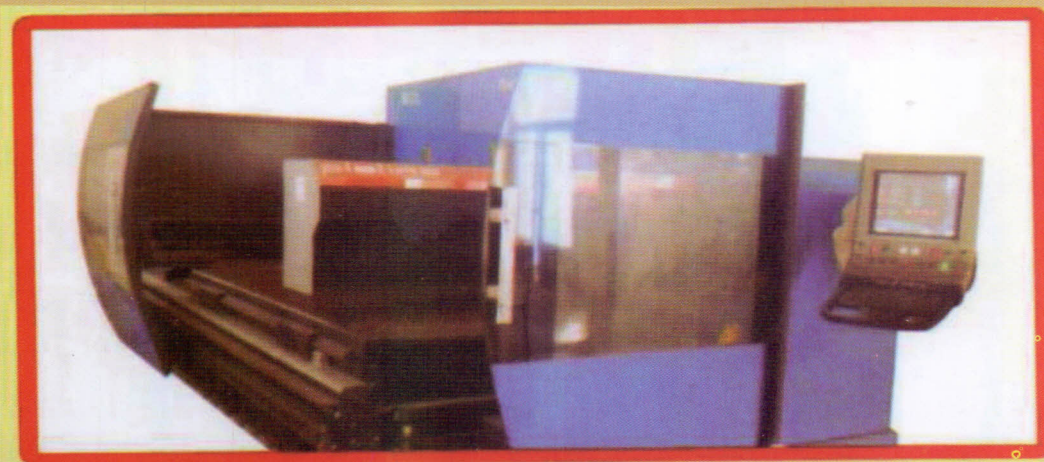
**Power         3000 watt**

**Working area    ( 3000\*1500) mm**

**Max cutting     (thickness) up to 20mm for stell**

**Up to 10mm for st: st**

**Up to 8 mm for aluminum**





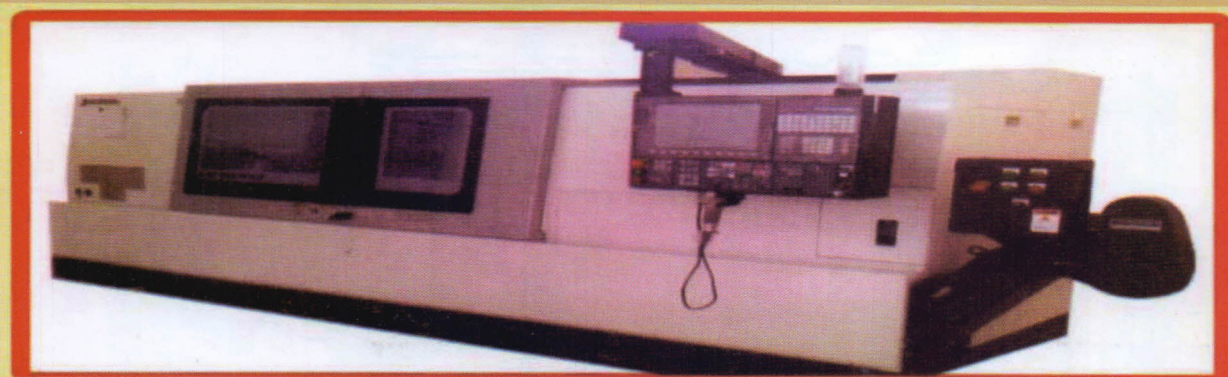


## c.n.c lathing machine Okuma LB 4000 EX ( L )

### **MACHINE SPECIFICATIONS**

- 1- Max turning diameter 300 mm.
- 2- Max length 1 500 mm
- 3- Through – spindle hole 112 mm .
- 4\_ max work piece weight

One side support 350 kg  
Support between centers 600 kg



### **Milling machine CNC :**

The milling is used for the operation and formation of stoppers and spare parts

All types of fish:

1. Plastic stamped
2. foundry stamped
3. stamped of sheet
4. Ironsmiths stamped

Technical specifications of the machine:

Machine Specifications :

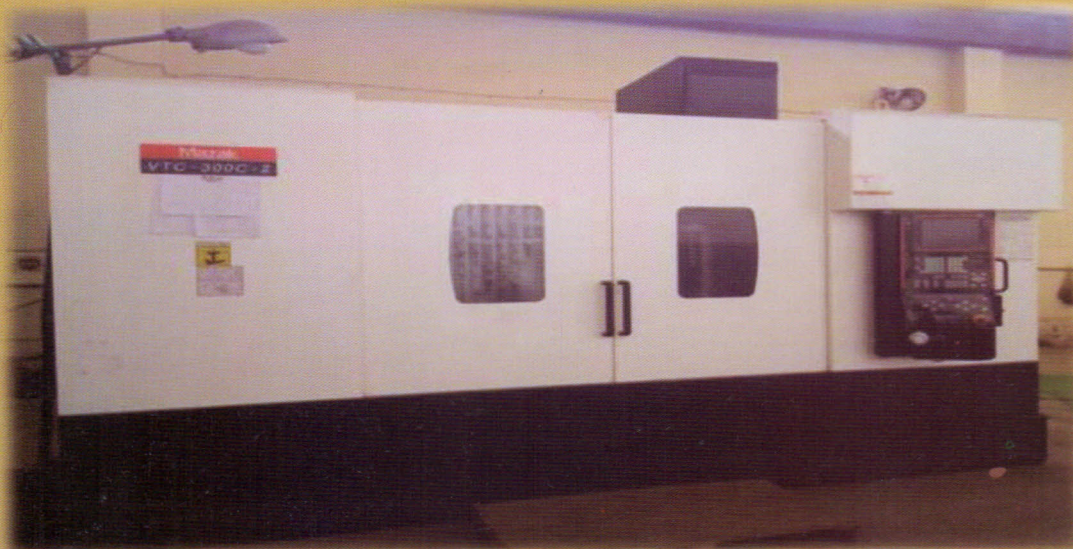
Max block 400x 905x790 mm

Max weight 1400Kgm





Used for chapping and finishing dies forging die – cutting die – any die and spare parts



**c.n.c lathing machine**  
**MACHINE SPECIFICATIONS**

- 1- Max turning diameter 200 mm.
- 2- Max length 500 mm
- 3- Support between centers 125 kg

