

# 安阳锻压

安阳锻压(集团)机械工业有限公司  
ANYANG FORGING PRESS(GROUP)MACHINERY  
INDUSTRY CO.,LTD



## Company Profile

Anyang Forging Press (Group) Machinery Industry Co., Ltd. is the biggest forging equipment manufacturer in China. Our company has 60 years history in producing forging equipment. Our company has been identified as the national high-tech company. We drafted the national standard for CNC Fully Hydraulic Die Forging Hammer, Electro hydraulic forging hammer and Pneumatic forging hammer. Our company is one of the high-tech and high-growth enterprises in Henan province. We are the Executive director of China Forging Association and the Vice President of Henan province Forging Association.

Our main products include Hydraulic free forging press, CNC Fully Hydraulic Die Forging Hammer, Electro hydraulic forging hammer, Electro hydraulic power head, Pneumatic forging hammer, Forging manipulator, Forging charger, hydraulic riveting machine, hydraulic briquette press for metal chip etc. Our C41 series pneumatic forging hammer has been awarded the top prize by China Government and the best brand machine in Henan Province. Hydraulic free forging press has been awarded the National Patent Award for 2 items. Our company has passed ISO9001:2008 quality certification. Two products have been given the original certificate to protect the best quality machines.

Our company covers about 60 acres with four production base including large type CNC forging equipments production base, forging hammer production base, large forgings production base and forging equipment accessories production base. Our company has the provincial level products design and research center and has sales center, after-sale center, quality control and management center, machining center and large heat treatment and product assembly center, which can provide the complete set of service.

Our company follows the principles of "technical innovation first, quality first, sales amount first and after-sales service first" and offer all kinds of forging equipments of complete specifications, superior quality and competitive price. Our products have been exported to Germany, USA, France, UK, Russia, India and Vietnam etc 60 countries and regions and gain high reputation all over the world.

Our company follows the principle to service for the forging industry development, for forging customers and pursuit the satisfaction of customers. We will offer the high quality products and service to contribute our effort for the development of world forging industry.



# HYDRAULIC FREE FORGING PRESS



## ■ Applicability

The machine is mainly used in open die forging, such as punching, reaming, stagger, cutting, bending, drawing etc, which can be use to produce big size excellent quality open die forgings in the field opetrochemical, metallurgical, mining, electric power, aerosace etc.

## ■ Main technical parameter

Main technical parameters of hydraulic free forging press

| Parameter<br>Item           | Model | Unit                 | Y13-800   | Y13-1250  | Y13-1600          | Y13-2000          | Y13-2500          | Y13-3150  | Y13-4000          | Y13-5000  |
|-----------------------------|-------|----------------------|-----------|-----------|-------------------|-------------------|-------------------|-----------|-------------------|-----------|
| Nominal pressure            |       | (MN)                 | 8         | 12.5      | 16                | 20                | 25                | 31.5      | 40                | 50        |
| System pressure             |       | (MN)                 | 25        | 25        | 25                | 25                | 25                | 25        | 25                | 25        |
| Oil cylinder diameter       |       | (MM)                 | φ 640     | φ 800     | φ 740<br>2- φ 360 | φ 740<br>2- φ 480 | φ 900<br>2- φ 460 | 3- φ 730  | φ 900<br>2- φ 840 | 3- φ 920  |
| Clearance distance          |       | (MM)                 | 2300      | 2400      | 2600              | 2800              | 3000              | 3200      | 3600              | 4200      |
| Slide stroke                |       | (MM)                 | 1000      | 1200      | 1400              | 1600              | 1600              | 1900      | 2200              | 2600      |
| Column center distance      |       | (MM)                 | 2200x1100 | 2200x1300 | 2600x1400         | 2800x1500         | 3200x1600         | 3500x1800 | 4000x2000         | 4500x2200 |
| Column diameter             |       | (MM)                 | φ 260     | φ 300     | φ 340             | φ 360             | φ 420             | φ 480     | φ 550             | φ 600     |
| Return speed                |       | (MM/S)               | 300       | 300       | 250               | 250               | 250               | 200       | 200               | 200       |
| Working speed               |       | (MM/S)               | 45        | 45        | 45                | 45                | 45                | 45        | 45                | 45        |
| Down speed                  |       | (MM/S)               | 300       | 300       | 300               | 250               | 250               | 200       | 200               | 200       |
| Traveling platform size     |       | (MM)                 | 2500x1400 | 3000x1400 | 3500x1600         | 4000x1600         | 4000x2000         | 5000x2200 | 5500x2200         | 5500x2800 |
| Traveling platform stroke   |       | (MM)                 | 800       | 1000      | 1500              | 1500              | 2000              | 2500      | 3500              | 3500      |
| Traveling platform speed    |       | (MM/S)               | 200       | 200       | 150               | 150               | 150               | 150       | 100               | 100       |
| Fast forge per minute       |       | (MIN <sup>-1</sup> ) | 45        | 45        | 45                | 45                | 45                | 35        | 35                | 35        |
| Maximum eccentricity        |       | (MM)                 | 80        | 80        | 120               | 120               | 120               | 150       | 150               | 150       |
| Maximum forgeable ingot     |       | (T)                  | 5         | 10        | 15                | 20                | 35                | 45        | 50                | 58        |
| Main motor power            |       | (KW)                 | 330       | 440       | 990               | 1100              | 1320              | 1650      | 2090              | 2420      |
| Machine height above ground |       | (≤MM)                | 7500      | 8000      | 9000              | 9000              | 9500              | 10500     | 11500             | 13000     |

Note: Above parameters are standard parameters, it may have some change without inform.

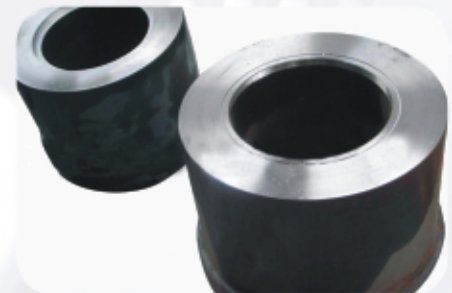
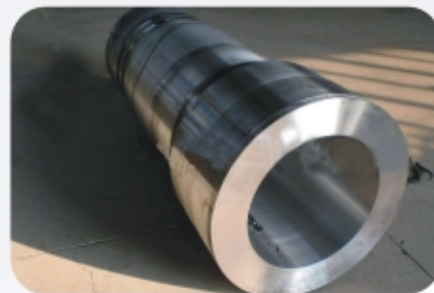
## Product Brief Introduction

1. The hydraulic press adopts three cross beam four columns structures, and the top and lower cross beam, four columns and lock nut consist of the closing framework born the full load. There is one set fast exchange die device set in movable cross beam so that it is convenient for hoisting the workpiece. The top die is connected with the exchange die device, and it is easy to change the die and save the time. The bi-directional horizontal movement worktable is connected with the lower cross beam. The movable cross beam is driven by plunger type main cylinder, lift cylinder and guided by the columns and moves between the top and lower cross beam.
2. The working cylinder of hydraulic press consists of three hydraulic cylinders. It can realize the upgrade automatically during the working. When upsetting the forgings, the first pressure is not enough, the pressure should be risen to second pressure. It is not still enough, and it will be risen the maximum pressure 25 Mpa. Before it has the pressure in middle cylinder, now three cylinders have the pressure simultaneously. This machine is transmitted the energy through the hydraulic oil, and it can be come true the large force in systematical structure, there is large stroke, moreover, it can be gotten the rated maximum pressure wherever the position of stroke. It can come true the pressure maintaining for a long time so that it can be gotten the overload protection easily. It is better than forging hammers comparing to the symmetrical blow. So it can be manufactured the symmetrical internal and external structure forge pieces.
3. The Indication of hydraulic system adopts stroke indication and pressure indication, so the fixed stroke pressing and fixed pressure and fixed pressure pressing. The former adopts the encoder and the later adopts the pressure relay, so it can be met the working requirements.
4. The hydraulic system is controlled by the second grade inserted valve, so the machine has uniformity of operation and no shock, and there is multilevel overload protection, oil temperature alarm, oil level alarm protection etc automatic protection device. The electric system is controlled by the PLC, so that ensures the safety of machine and operators.
5. To compress the working cylinder with the prefill valve of large flow volume, it is connected with the reserve tank. It can come true the quick oil extension and quick oil return when lifting. It's saved the forging change over time and enhance the forging efficiency.
6. The cooling system is set in this machine, and it can control the oil temperature and ensure the normal operation.
7. The hydraulic forging press can be worked together with forging manipulator, which can increase efficiency largely.





## Application For Different Forgings







## MANUFACTURING ABILITY



Precision Parts Machining Workshop



Precision Parts Machining Workshop



Heat Treatment Workshop



125 Ton Travelling Crane



Heavy Parts Machining Workshop



TK42200 CNC Boring And Milling Machine



LP4021 CNC Machining Center



X2025/6M CNC Milling Machine



Z3080X25 Radial Drilling Machine



1250 Ton Hot Forging Press in Assembling



2500 Ton Hot Forging Press in Assembling



4000 Ton Hot Forging Press in Assembling



## PART OF CUSTOMERS



800 Ton Hydraulic Forging Press



1250 Ton Hydraulic Forging Press



1600 Ton Hydraulic Forging Press



2000 Ton Hydraulic Forging Press



2500 Ton Hydraulic Forging Press



2500 Ton Hydraulic Forging Press



3150 Ton Hydraulic Forging Press



3150 Ton Hydraulic Forging Press



4000 Ton Hydraulic Forging Press



## WORLD SALE MAP

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|                      |             |              |
|----------------------|-------------|--------------|
| United States        | Czech       | Uzbekistan   |
| Japan                | Philippines | Belgium      |
| Germany              | Pakistan    | Taiwan       |
| France               | Romania     | Iran         |
| Brazil               | New Zealand | Norway       |
| United Kingdom       | Peru        | Argentina    |
| Italy                | Ukraine     | Austria      |
| Russia               | Vietnam     | South Africa |
| India                | Bangladesh  | Denmark      |
| Canada               | Morocco     | Thailand     |
| Spain                | Croatia     | Columbia     |
| Australia            | Sudan       | Venezuela    |
| Mexico               | Sri Lanka   | Finland      |
| South Korea          | Bulgaria    | Singapore    |
| Netherlands          | Slovenia    | Malaysia     |
| Indonesia            | Burma       | Nigeria      |
| Turkey               | Kenya       | Israel       |
| Switzerland          | North Korea | Chile        |
| Sweden               | Bhutan      | Portugal     |
| United Arab Emirates | Poland      | Egypt        |

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