

# Anyang Forging Press Machinery Industry Co., Ltd

Add: No.12 Zhangde Road, Anyang City, Henan Province, China.

Tel: 0086-372-5931234 Fax: 0086-372-5922446 Post Code: 455000

Website: <http://www.chinesehammers.com> Email: [anyang@chinesehammers.com](mailto:anyang@chinesehammers.com)

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## Electro-hydraulic Power Driving System for Modernization of Air Compressor Forging Hammer / Vapor Forging Hammer

### 1. Summarize

(1). Name: Electro-hydraulic Power Driving System

(2). Type: Open Die Hammer Power Driving System / Closed Die Hammer Power Driving System

(3). Basic Purpose: To realize hammer head lift up, hang up, heavy hit, light hit, slow down, press down, and urgent stop ...etc all kinds of actions being used in forging works, the hit energy was varied as per the lifting height of hammer head, to satisfy the requirements in forging process.

(4). Equipments Supply Range

| Name                            | Electro-hydraulic Power Driving System  |
|---------------------------------|---|
| Power Head Part                 | Link cylinder girder, main cylinder, accumulator, hammer head, lower sealing combination, hammer rod, buffer cylinder, hall switch system, hammer head and hammer rod combination |
| Operating and Safety Valve Part | Main operating valve, quick release valve, safety valve.  |
| Hydraulic Station Part          | Oil tank, motor-pump group, pilot unloading valve, valve seat, motor soleplate, rubber pipe assembly, steel pipes and accessories.  |
| Plate Type Heat Exchanger       | Heat Exchanger, pump group, filters.  |
| Electrical Control Part         | Electrical box and control desk   |
| Operating Part                  | Operating Lever   |
| Gas Bottle Group Part           | Nitrogen gas bottle group, bottle support, ball valve(check valve)  |
| Technical documents             | Operating manual, quality certificate, and packing list.  |

Detail please refer Sketch Map of electro-hydraulic forging hammer.

We only use the existing foundation, existing anvil block, existing die holder, existing hammer frame, all other parts will be supplied and designed by manufacturer.

## 2. Technical Parameters

For Double Arms Open Die Forging Hammer

| Items \ Model                 | Unit              | DY1Z<br>(1Ton)                                | DY2Z<br>(2Ton) | DY3Z<br>(3Ton) | DY5Z<br>(5Ton) |
|-------------------------------|-------------------|---|----------------|----------------|----------------|
| Hitting Energy                | KJ                | 35  | 70             | 120            | 175            |
| Rated Weight Of Falling Parts | KG                | 1300  | 2600           | 4200           | 6000           |
| Max Stroke                    | mm                | 1000  | 1260           | 1450           | 1730           |
| Hitting Frequency             | Min <sup>-1</sup> | Heavy Hitting: 50-60<br>Light Hitting: 90-120 |                |                |                |
| Working Gas Pressure          | Mpa               | 2-4   |                |                |                |
| Working Oil Pressure          | Mpa               | 10-14   |                |                |                |
| Motor Power                   | Kw                | 55  | 3x55           | 4x55           | 5x55           |

For Closed Die Forging Hammer

| Items \ Model                 | Unit              | DY1M<br>(1Ton)             | DY2M<br>(2Ton) | DY3M<br>(3Ton) | DY5M<br>(5Ton) | DY10M<br>(10Ton) |
|-------------------------------|-------------------|----------------------------|----------------|----------------|----------------|------------------|
| Hitting Energy                | KJ                | 25                         | 50             | 75             | 125            | 250              |
| Rated Weight Of Falling Parts | KG                | 1500                       | 2500           | 3500           | 6000           | 13000            |
| Max Stroke                    | mm                | 1000                       | 1200           | 1250           | 1300           | 1400             |
| Hitting Frequency             | Min <sup>-1</sup> | Not Less Than 60 Impacting |                |                |                |                  |
| Working Gas Pressure          | Mpa               | 2-4                        |                |                |                |                  |
| Working Oil Pressure          | Mpa               | 9-14                       |                |                |                |                  |
| Motor Power                   | Kw                | 55                         | 3x45           | 3x55           | 4x55           | 6x55             |

We have successfully rebuild an Air Compressor Hammer Model M1343 in Ryazan City, Russia.









