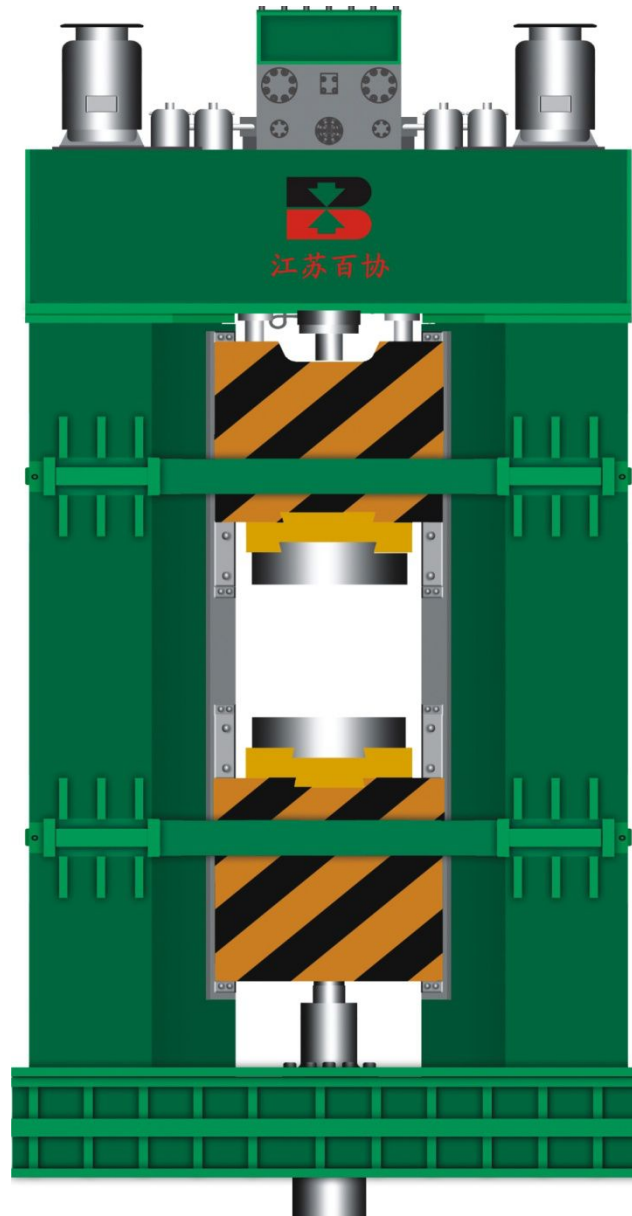


CDKA Series CNC counterblow hammer



Description

If a large CNC die forging hammer adopts structure of CHK series and CDK series, it will be difficult to machine and transport due to its relatively heavy framework and as it needs high-quality workshop and foundation with high investment cost. Therefore, we suggest our CDKA series CNC counterblow hammer for large die forging hammer over 125kJ.

We use advanced technologies of large hammer in China and abroad to design the latest unique CDKA series CNC counterblow hammer on the basis of CHK series and CDK series. Our CDKA series counterblow hammer is equipped with hydraulic coupling, fully hydraulic drive, counter blow with different velocities and can

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realize automation by programmed control.

Our CNC hydraulic counterblow hammer has not only simple and reliable structure, but considerate operating monitoring system, fault diagnosis system, automatic energy control system and programmed blow control system. Hence, it has become an advanced precision forging equipment in the forging industry with high adaptability, high effect, energy-saving, high precision, high reliability and environmental protection.

Structural Characteristics

The weight ratio of our CDKA series CNC hydraulic counterblow hammer's upper ram and lower ram is 1:1. Driven by hydraulic power, these two hammer rams realize relative motion and are guided by framework with same energy, lower micro motion of hammer and 6m/s relative velocity.

Its framework is assembled by welding steel plate, which can avoid vertical shock by blows during the forging. On the top of the framework there is the hydraulic power drive system and on the bottom is the elastic damping isolation system. These systems can help to thoroughly avoid the influence of vibration on the ambient environment.

The hydraulic power drive system of CDKA series CNC hydraulic counterblow hammer adopts fully-hydraulic power-driven principle with highly-integrated tapered valve control structure to realize high-reliable operation.

CDKA CNC hydraulic counterblow hammer can realize man-machine operation and display the state of working and malfunctions through the touch-screen. It can also realize digital control of blow energy and programmable control of striking.

Performance and Features

1. High energy-saving

Our CDKA CNC hydraulic forging hammer is actuated by hydraulic drive system, which makes the energy utilization reach 65% and the striking efficiency come to 95% (traditional hammers only have 2-3% energy utilization and 85% striking frequency). Furthermore, our hammer can precisely control the striking energy to avoid wasting energy, this also realizes energy-saving.

2. High accuracy

Our die forging hammer's precise control of striking energy and program can avoid inaccurate operation arising from different operators.

3. No vibration

The upper and lower rams of our CDKA series CNC hydraulic counterblow hammers strike with equal energy. On the bottom of the framework there is an elastic damping isolation system, which can thoroughly avoid the influence of vibration on the ambient environment.

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4. Fewer investment

CDKA series CNC hydraulic hammer not only enjoys price advantage with higher performance, but also requires lower investment on vibration isolation and workshop. It is calculated that compared with electro-hydraulic hammers with the same weight, our hydraulic counterblow hammer can reduce investment on equipment and vibration isolation by 1/3. If includes a new workshop, the reduction can up to 50%.

5. Lower using cost

Our CDKA series fully-hydraulic die forging hammer not only enjoys high efficiency, energy-saving, high precision, no vibration and environment protection, but also control of striking energy. Giving sufficient but not excess energy can decrease vibration, reduce noise, greatly improve the reliability of the equipment as well as extend the service life of dies.

Technical Parameters

Specification	CDKA	160	200	250	320	400
Striking Energy	kJ	160	200	250	320	400
Weight of Upper Ram	kg	18000	23000	29000	35000	48000
Weight of Lower Ram	kg	20000	25000	32000	39000	52000
Striking Stroke of Upper Ram	mm	630	700	700	700	700
Striking Stroke of Lower Ram	mm	630	700	700	700	700
Striking Frequency	min ⁻¹	50	50	45	45	40
Motor Power	kW	220	264	360	440	528

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