AIDA

COLD FORGING PRESS

K1-E SERIES

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K1-E SERIES

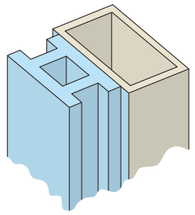
Feature-Rich Presses That Deliver High-Precision Forming

The K1-E Series presses are high-performance cold forging presses that enable the production of the high-quality parts required by today's industries. To achieve this high precision forming, AIDA has increased the rigidity of the frame, has prevented slide tipping, and has also equipped these presses with an overload protector that protects dies from abnormal loads. The compact frame and easy installation requirements ensure that these presses will meet both current and future working environment requirements.
All of these new functions were developed to ensure stable long-term, high-accuracy forming.

K1-6300E

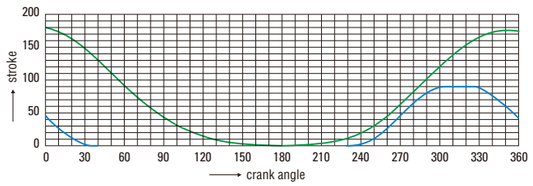
The high-rigidity unibody frame ensures high-precision products.

The drivetrain is separate from the load transmission area, which eliminates the adverse effects of impact loads. Moreover, we use a strong high-rigidity frame in the load transmission area. This keeps the frame elongation that occurs during forming to a minimum and greatly improves product precision.
This also greatly extends the life of dies.



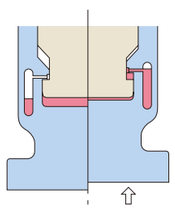
The powerful knuckle motion mechanism enables high-accuracy forming.

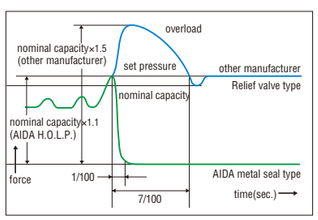
The heavy-duty knuckle mechanism uses a modified knuckle motion to achieve 'slow-touch' motion, improving product forming accuracy. Productivity is further increased by the quick-upstroke feature. Automation equipment can also be easily integrated for a complete forming system.



The quick-acting overload protector protects dies from abnormal loads.

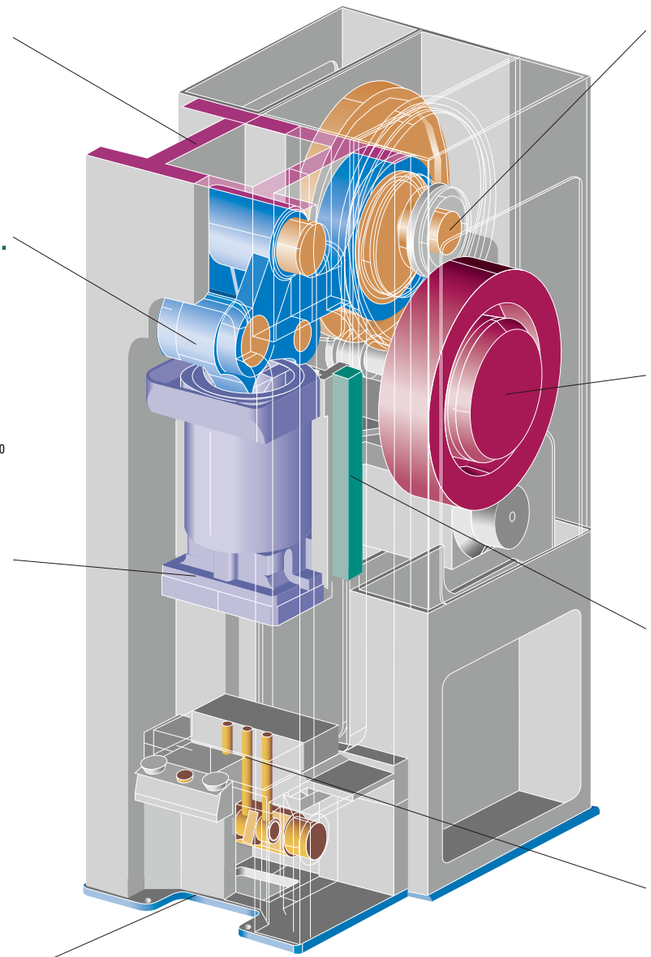
If an abnormal load is detected, the metal seal-type hydraulic overload protector will immediately activate. This feature protects valuable dies by disengaging the drivetrain and immediately stopping the slide. Returning the slide to top dead center will automatically reset the overload protector--no cumbersome valve operation, etc., is necessary.





Floor-mounted for easy installation in your factory.

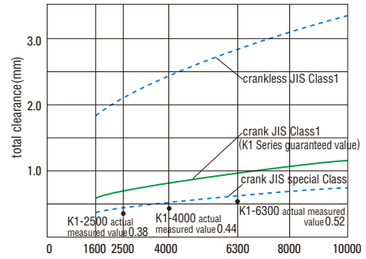
The bed knockout is housed in the bottom of the bolster, eliminating the need for a pit for disassembly purposes. This enables the press to be directly installed on the floor. This not only reduces the cost of the foundation, it also makes it easy to implement factory layout changes.



※This diagram differs slightly by model.

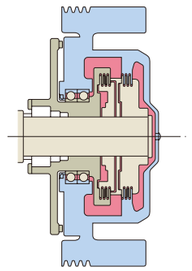
This press delivers high-performance forming and its extremely tight total clearance prevents press accuracy degradation due to vibration.

High-precision machining and super-finishing of the main gear, the knuckle mechanism, the adjusting screw, and the slide joints, etc., reduce the total clearance to 1/3rd that of a conventional press. This maintains the high precision of the torque transmission mechanism over the long-term, and also serves to reduce breakthrough which in turn reduces vibration.
This extends die life and improves product accuracy.



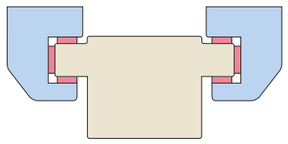
The high-performance wet-type clutch and brake enhances operational safety.

The clutch and brake are fully enclosed to isolate them from dust and debris and to reduce operational noise.
The extremely minimal friction of the linings also eliminates stroke adjustments. Intermittent operation performance has also been enhanced, enabling stable stopping performance over the long-term.



The long slide guides maintain long-term high-accuracy forming.

The long slide guides have six perpendicular surfaces that deliver high resistance to loads.
They also greatly extend the life of high-precision dies.
The guide areas not only have a forced lubrication system that prevents heat generation and wear, the guides also have telescoping covers to eliminate issues resulting from debris and dust.



Three-stage bed knockouts enable easy continuous operation.(Option)

Selecting 3-stage bed knockouts enables easy 2~3-stage continuous operation. Continuous operation eliminates the need for interstage annealing or phosphating processes, etc., which helps reduce costs.