Gap Frame Presses

NC1-E / NC2-E SERIES

Straightside Presses

NS1 / NS2 SERIES

AIDA ENGINEERING, LTD.

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689-A-2410E(D)

High-Rigidity General-Purpose Presses

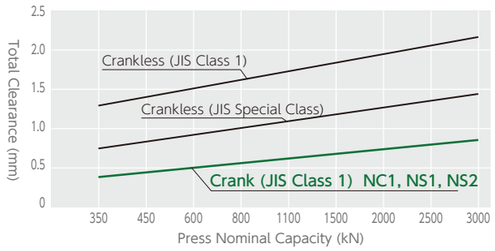
Gap Frame Presses / Straightside Presses

AIDA's Reliable Stamping Machines Enable High Value-Added Metalforming

Reliable stamping machines with excellent rigidity and dynamic accuracy as well as high operability and compatibility with automation. Equipped with a hydraulic overload protector to fully support our customers' stable production.

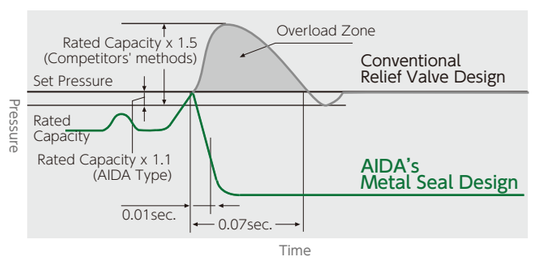
Minimal Total Clearance

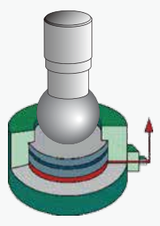
The high-precision machining of each and every mechanical component results in an extremely small total clearance. This dramatically reduces breakthrough, significantly extends die life, and also greatly reduces noise and vibration.



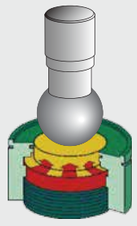
Hydraulic Overload Protector

If an overload occurs during press operation, the AIDA hydraulic overload protector with its unique metal seal system will stop the slide immediately without causing additional loading. Returning the slide to top dead center will automatically reset the system without a cumbersome valve operation, etc.





Conventional Relief Valve Design



AIDA's Metal Seal Design

High-Precision Machined Components

The high precision and long-term reliability of AIDA presses are supported by each and every carefully and meticulously machined component.

Operation Panel Designed for Workability and Safety

The large touchscreen HMI has 5 main menus--Operation, Settings, Setup, Maintenance, and Recipe--and delivers superior visibility and operability. It is also equipped with a wide array of functions that contribute to higher productivity.

MPC Control Unit

The press operation circuit is monitored by a redundant CPU inside AIDA's independently developed Multiprocessing Press Controller (MPC), and moreover, its PLC-based triple-monitoring functions are used for MPC and overrun monitoring to assure stable production.
And no maintenance is required, as the clutch and brake controls and the overrun monitoring, etc., are all designed with solid-state circuits.

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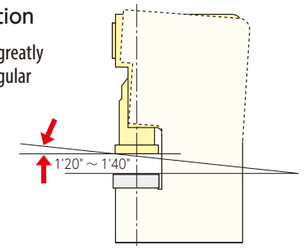
NC2-E
SERIES

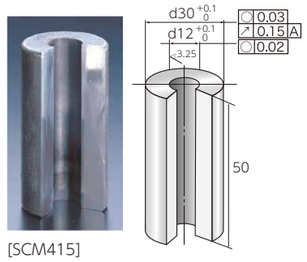
Minimal Angular Deflection

The highly rigid frame construction greatly minimizes frame elongation and angular deflection when forming loads are applied. And the bolster is sufficiently thick to suppress flexural deformation, enabling the easy accommodation of increasingly higher-precision metalforming applications.



*An NC1-1500 under 100% load

Forming Example [One-Touch Forming]



[SCM415]
Diameter: 30 mm; Height: 50 mm

Straightside Presses
NS1
NS2
SERIES

A Wider Slide Left/Right Area

To increase the number of die stages and enable high-value-added forming, the left-right dimension of the NS1-1500 slide has been widened by a factor of approximately 1.25 times compared to the NC1-1500.

Centrally Located Full-Length Slide Guides

The slide guides are centrally located front-to-back, and guide the slide throughout the entire range of motion. (Photo A) This improves front/back and left/right eccentric loading, dynamic accuracy performance, and contributes to longer die life.

◀Photo A

Utilizes Forced Circulation Lubrication

A recirculating oil lubrication system has been adopted for the press drive, bushings, and slide guide areas, enabling high-precision stamping by minimizing thermal deformation of the press frame.

Providing the Optimal System for Your Application

NC1 +
NCTHL Robot Line System

NS2-3000 +
LF Series Straightener Feeder

NS2-3000 +
TCS Series Transfer Unit