PRECISION FORMING PRESS

DSF-U Servo Presses

UL Mechanical Presses

AIDA ENGINEERING, LTD.
URL : https://www.aida.co.jp/en/

708-A-2402E(D)

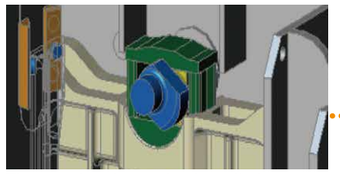
AIDA's UL-timate Precision Forming Press

UL Series

Presses More Accurate Than the Die

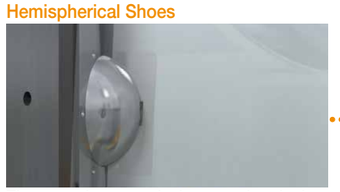
Equipped with an innovative 9-point support design, a highly rigid ring frame, and zero-clearance slide gibs. Its tremendously enhanced dynamic accuracy increases die life by a factor ranging from 10 to almost 100 times.
The slide does not move laterally during forming, enabling next-generation forming that smashes through conventional limitations.
This is truly the next-generation precision forming machine.

Scotch-Yoke Mechanism



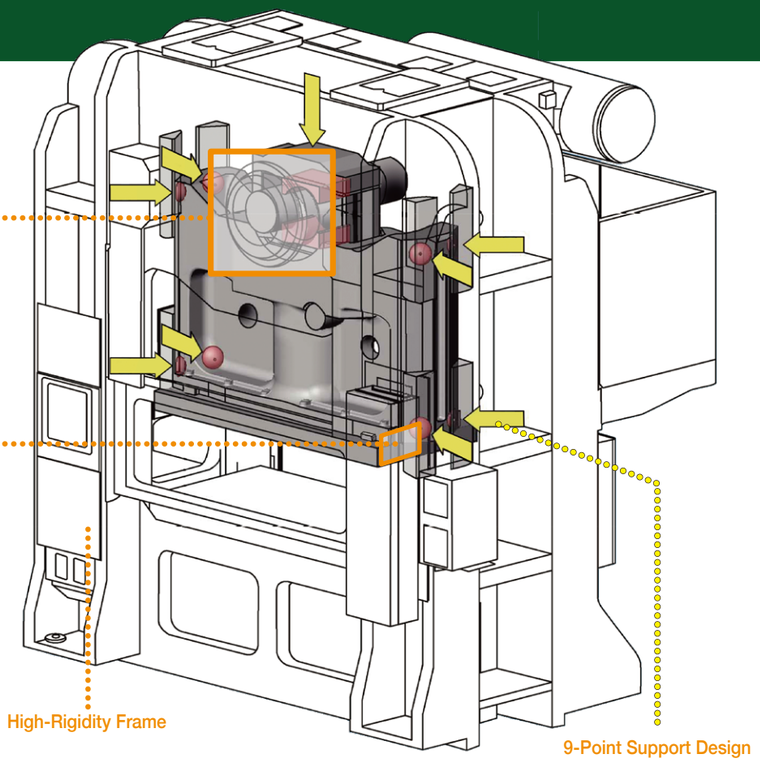
The scotch-yoke mechanism eliminates the need for connecting rods.

Hemispherical Shoes



The zero-clearance design uses hemispherical shoes.

Overall Press Height Reduced by 30%



A versatile high-precision machine for any forming application.

Transfer Forming

- High-precision ironing of drawn products.
- Final forming of bottom sections of drawn products.
- Precision shearing of constrained exterior shapes.
- High-precision FCF methodologies.

Progressive Forming

- Transitioning from fine-blanking methodologies.
- Improved final forming and surface precision.
- Forming that includes large lateral thrust forces.
- High-precision FCF methodologies.

Cold Forging Forming

- Axial accuracy of shaft products.
- Surface precision for upsetting applications.
- Multi-stage cold forging forming.
- Net shape forming.

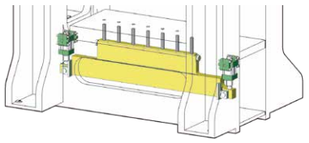
Examples of Special Options That Support Ultimate Forming

Hydraulic Cushion (Fine-Blanking Methodology)

Can be built into slides, bolsters, and subplates.

Bed Knockout Design

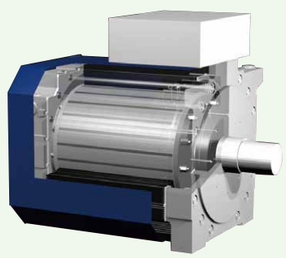
Accommodates multi-stage knockouts.



A Servo UL to Boost Performance to the Next Level!

DSF-U Direct Servo Former

- A direct-drive design that fully transmits the servo motor RPMs to the slide.
- A maintenance-free design--No belts or speed reducers, and no regular replacement of components.



Improved Formability
The press motion is freely programmable to match the forming application.
Reduces speed when the dies come in contact and suppresses material and die vibration.

Improved Productivity
Enables easy synchronization with automation systems, and the optimization of the non-forming range of the stroke boosts productivity.
Pendulum motion that does not pass through top dead center shortens the stroke length and delivers even higher productivity.

Improved Operability
Using the Step Feed controller to align dies enables worry-free die trials even for new dies.
Because there is no flywheel, instantaneous reverse motion is possible.

Lower Energy Costs
The AIDA servo system's peak power reduction function in its standard high-capacity capacitor system has been further enhanced, and a control function has been added to the servo power supply in order to reduce power consumption.