

Setting the standard for the new generation of straight-side presses.

High Value-added Stamping

The elimination of angular deflection and the addition of many new features has raised this from a general purpose press to a machine that provides a high level of dynamic accuracy and functionality resulting in improved productivity.



High productivity is achieved by combining the press with a variety of automation devices.

Transfer stamping system

- * Press : NS1-800(2)
- * Servo
- Transfer Unit : TCS-15(R)



Pattern feed coil line system

- * Press : NS1-1500(1)
- * NC Roll Feed : NCRF-200
- * Straightener : LS-302B
- * Uncoiler : ESR-3H



Standard coil line system

- * Press : NS1-1100(1)
- * NC Roll Feed : F-20 II
- * Uncoiler & Straightener : L-30



Robot line system

- * Press : NS1-2000(2) x 2 (designed for robot line)
- * Transfer Robot : Line Pacer NCTHL





Increased Slide Left-Right dimension

To cope with increased number of operations and higher added value stamping the slide left to right dimension was increased to 1.25 times when comparing NS1-1500 with NC1 Series.

Slide guides at the center and fully lengthened



Front to back anti-off-center loading capacity and dynamic accuracy have been improved and contributes to longer die life by guiding the slide at the front to back center of the press and by fully guiding the whole range of slide motion.

Forced recirculating lubrication system adopted



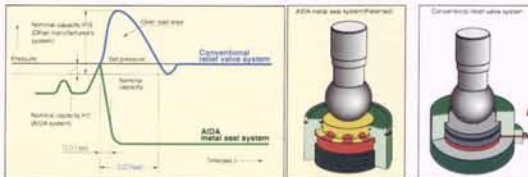
Lubrication of press drive, bearings and slide guides was changed to oil recirculating lubrication system, thus materializing high precision stamping by minimizing thermal deformation of press frame.

Environment friendly considerations

Reduction of noise, vibration, energy and oil in metal forming area is an important theme to make human friendly environment.

Highly rigid frame of this series reduces stamping noise and vibration and newly adopted inverter motor achieved energy saving and noise reduction. And the new standard forced recirculating lubrication system improves the working environment.

Hydraulic overload protector (H.O.L.P.) (PAT.)



When the press is overloaded, AIDA's hydraulic overload protector with its metal seal system that is exclusive to AIDA, is actuated instantly, and the slide stops immediately in a state of no load.

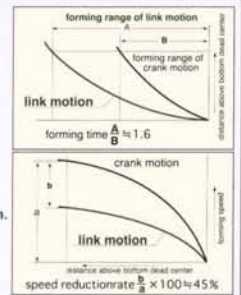
Merely returning the slide to top of dead center resets the overload automatically. Any other operation such as operation of a valve is not required

Offering both crank motion and link motion models.

Link motion that produces high productivity and high precision stamping

The optimum link motion of the NS1-NL Series, based on AIDA's long experience and continuing technology improvement is suitable for drawing, bending, and compression works, and it widens the application range of press working.

- This press realizes presswork of high accuracy and quality. The time of forming stroke is about 1.6 times that of a crank motion press with the same spm.
- The quick return motion increases the productivity remarkably. The productivity is about 1.6 times that of a crank motion press with the same forming speed.
- The low forming speed reduces die temperature rise, operation noise, and vibration. The forming speed is reduced to about 45% of that of crank motion press.
- The shock when the upper die comes in contact with the lower die is reduced, extending the die life. The shock is about 30% of that of a crank motion press.



Operation panel made with productivity and convenience in mind



The large display touch panel screen provides easy visibility and operability. Various features within the system contribute to increasing productivity.



Stand type operation panel is also available (option).

MPC Control Unit



The press run circuit is an AIDA original MPC (Multiprocessing Press Controller) with dual architecture and a dedicated controller that monitors MPC and overrun. Further, clutch and brake control and overrun monitoring all feature solid state circuitry which eliminate the need for maintenance.

New type operation button box lined with the MPC



The operation button box type. The operation mode selector switch is mounted on the button box for easier operation.

Die Height Indicator with 0.01mm increments



Die height can be adjusted in 0.01mm increments to assure precise die adjustment of precision dies.

Other major features

- The solid straight-side frame with the same frame cross sectional ratio at front and back eliminates angular deformation of frame and maintains dynamic parallelism with even frame elongation.
- Compact frame design minimizes frame deformation and saves floor space for installation. Workability is also enhanced due to its better accessibility.

Straightener Feeder System

- Press : NS1-1100(1 NL)
- Straightener Feeder : LFL-300E

