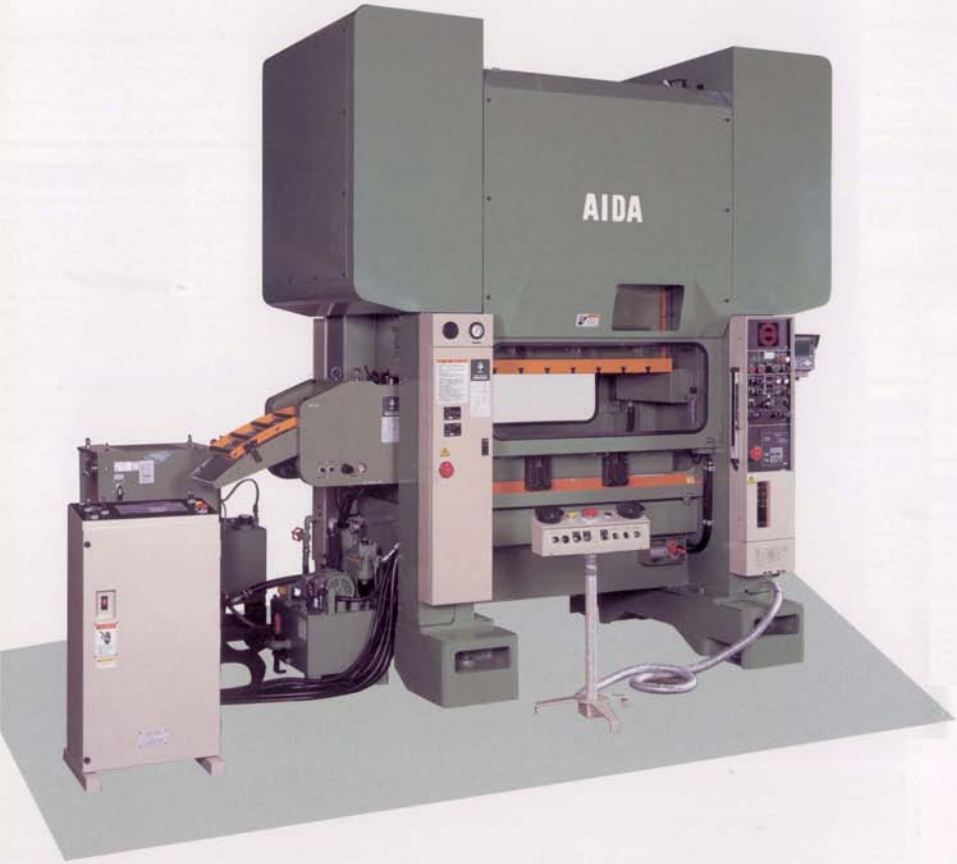
Productivity of precision presswork of small parts from thin material is improved.

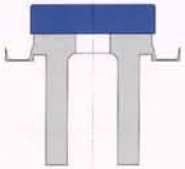
The UMX Series has been developed to meet customers' vital needs for high precision presswork at low cost, which are the needs of the times changing rapidly. The UMX Series satisfies functional requirements for highly precise presswork and also high cost efficiency. The UMX Series is a press for precision progressive forming of small parts from thin material, and it is highly rigid and reliable owing to the straight side integral frame construction and the dry type combined clutch and brake.



for precision progressive forming of small parts from thin material
AIDA PROGMAX™ PRESS
UMX™ SERIES

Straight side highly rigid integral frame construction that enables highly precise presswork

The employment of the straight side highly rigid integral frame construction and two-point suspension enables highly precise presswork, and greatly extends the die life. Increased frame rigidity reduces vibration and noise during presswork. (The bed rigidity value is 1/20000 or more, and the slide rigidity value is 1/18000 or more). Long six-point right angle slide guide withstands off-center loading, and as a result, extends the die life greatly.



Inverter controlled main motor that saves energy

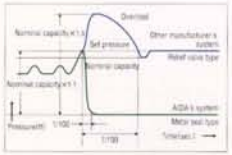
The inverter controlled main motor saves energy, reducing the running cost. The motor noise is very low.

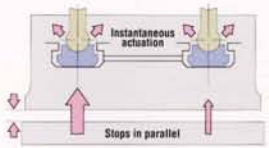
Dry type combined clutch and brake suitable for continuous presswork

Since presswork is performed continuously, this press employs a dry type combined clutch and brake which is economical and has quick response.

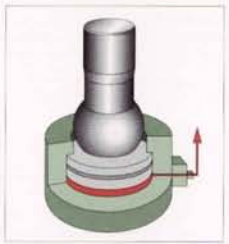
Hydraulic overload protector that protects the dies (H.O.L.P.)

Hydraulic overload protectors (H.O.L.P.) of metal to metal seal system are provided at the right and left suspension points. When overload takes place, the protector is instantaneously actuated to immediately stop the slide movement, protecting the dies from damage. If the overload protector is actuated owing to off-center loading, the slide and the bolster are kept in parallel with each other and no load is exerted on the dies, allowing you to use precision dies without worrying about damage to them. Resetting operation can be automatically carried out by merely returning the slide to the top dead center. When sticking occurs, the slide can be freed with ease by merely relieving the hydraulic pressure in the hydraulic overload protector (H.O.L.P.).

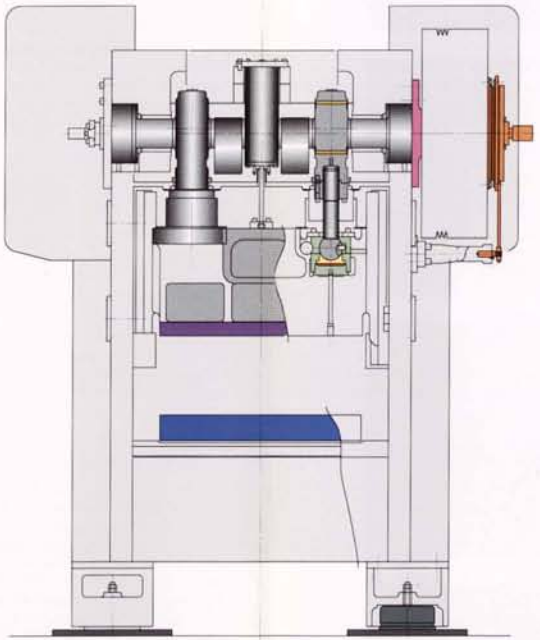




AIDA metal seal system (PAT.)



Conventional relief valve system



Compact floor type installation that improves workability and flexibility

Since scrap is treated under the bed, no pit is required, reducing foundation cost. The overall height is low owing to the backside mounting of the main motor. Spring type vibration isolators have been built in the bed legs. This press requires only a small installation space, and is flexible as to layout change and the installation.

Operation is simple and the operation panel is easy to use

The operation panel is compact and easy to watch and use. A timing switch with an automatic timing advancing function has been built in the operation panel. The slide adjustment is a motor driven type, and the die height indicator shows the reading in increments of 0.01 mm. Receptacles for tools and air connectors have been so arranged that they are convenient for use. The circuit has been so designed that it is easy to install various sensors such as a misfeed detector.

Adoption of NC roll feed that is easy to operate (option)

The NC roll feed switches arranged on the press push-button stand improve efficiency of die setting.
A mechanical driving type feed also can be installed.
(Power take-off shaft is installed on the left side.)

Oil temperature controller that maintains lubricating oil temperature suitable (option)

Lubricating oil is supplied from the oil tank in the bed to all lubrication points. The temperature of supplied oil is appropriately controlled by the oil temperature controller, maintaining the bottom dead center position stable.