

**The AIDA PROGMAX PMX Series of precision progressive forming presses allows for a wider range of application and increased productivity when compared to conventional presses.**

Our continuing development of progressive forming technology and pursuit of value added features and benefits is changing conventional presswork such as blanking, bending, and shallow drawing into precision stamping, providing for the production of highly accurate, high value-added parts. The PMX Series was developed in anticipation of the increased demands for a wider range of presswork. The reduced forming speed has remarkably improved the quality of products, reduced vibration and noise, achieved higher stroking rates, improved productivity and extended die life.

With the floor mount design, the control panel is mounted on the press (3000kN or less) thereby greatly reducing foundation costs and allowing for easy layout changes.



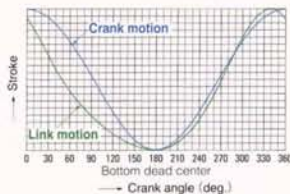
PMX-3000



PMX-2000

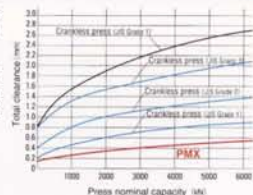
**The link motion assures precision forming.**

The slide speed on a link motion press, during the forming portion of the stroke, is slower than that of a crank motion press, which results in reduced shock to the dies and increased forming time. As a result, die life is extended, quality of precision-formed products (especially those progressive operations in thick material) is improved and stroking rates can be increased.



**The total clearance is very small because of the suspension point design.**

The total clearance conforms to JIS (Japanese Industrial Standard) Special Class, reducing the operation noise. Also, the die life is increased and product accuracy is improved because of reduced break-through which results from lower total clearance.

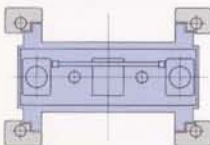


**The highly rigid frame withstands the load of heavy progressive forming.**

The massive frame components, which are held together under the compressive load of the tie rods, provide high rigidity and high accuracy in heavy progressive forming operations.

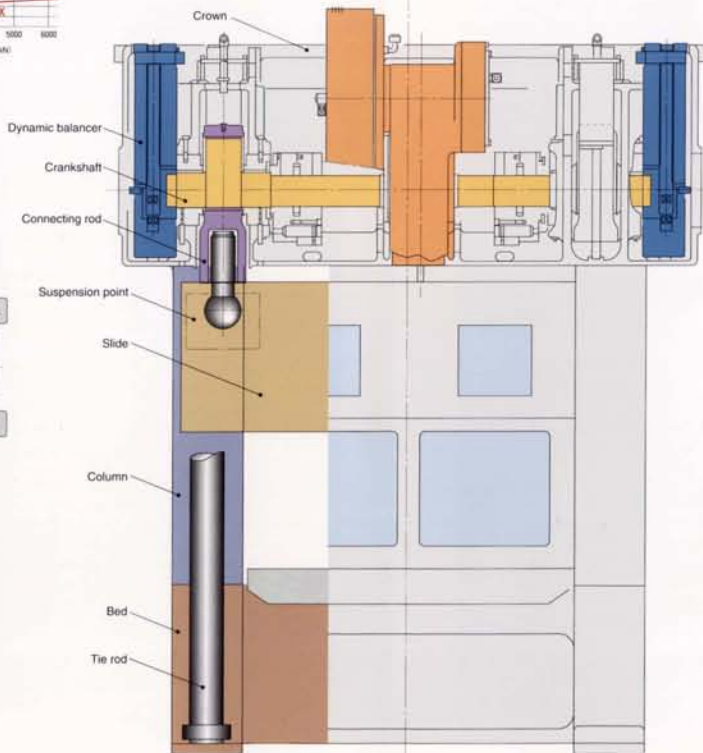
**High guiding accuracy is achieved by using long 8-point square slide guides.**

This press has excellent resistance to off-center loading because of the extremely long 8-point square slide guides and wide spacing of the slide suspension points. Highly accurate machining of mating components during press construction and the use of sintered bronze guide liners allows for the reduction of slide guide clearances that rarely if ever require maintenance. The slide guide sections are lubricated by forced recirculating oil to prevent overheating and wear, and have telescoping covers to prevent contamination.



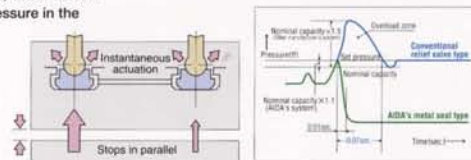
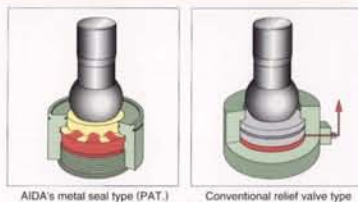
**Wide spaced suspension points reduces the effect of off-center loading.**

Since the distance between the suspension points is greater than the effective die area, resistance to slide tipping caused by off-center loading is significantly increased, which greatly reduces die wear and improves product quality.



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

AIDA's patented Hydraulic Overload Protectors (H.O.L.P.) are included in the slide suspension points. When an overload occurs, the H.O.L.P. is instantaneously actuated and immediately stops the slide movement, protecting the dies from damage. If the overload protector actuation occurs due to off-center loading, the slide and the bolster are kept in parallel with each other and no load is exerted on the dies, which allows the use of precision dies without concern about damage to them. The resetting operation can be carried out by merely returning the slide to its top dead center position. When sticking occurs, the slide can be easily freed by relieving the hydraulic pressure in the hydraulic overload protector (H.O.L.P.).



**Wet type clutch/brake reduces maintenance.**

The adjustment of the clutch and brake to compensate for wear is not required because wear of the linings is very small. The wet clutch and brake also provides superior performance in intermittent operation due to low heat generation. Since the clutch/brake is totally enclosed, it is not affected by dust and the actuation noise level is very low.

**The dynamic balancers provide operational stability and reduced noise levels.**

Dynamic balancers are provided at both ends of the crank shafts to reduce the exciting force of the reciprocating slide and upper die. Because of the dynamic balancers, the rotation of the crank shaft is smooth, and vibration and noise are remarkably reduced.

**The main operation panel is easy to use.**

The main operation panel is easy to read and use. The crank angle indicator can be viewed and the basic operation of the press can be performed from the front of the press. By grouping the push buttons and switches according to their functions and also by use of the operation message display ease of operation has been improved. The programmable limit switch located at the bottom part of the main operation panel can be adjusted precisely due to the digital setting system.

Note: Data bank is optionally available. Data for 99 dies can be controlled.



## PMX Series in a wider range of fields.

The PMX series is performing as a key-equipment in wider-range industrial fields, such as automobile, IT products and home appliances and others.

The scope of application is available not only for progressive, but also blanking/ transfer process.



PMX-2000 & PMX-3000 Progressive Line



PMX-3000 with Servo Driven Transfer System



PMX-6000 Blanking Line with Piling System



PMX-6000 Blanking Line



PMX-8000 Progressive/ Blanking Line