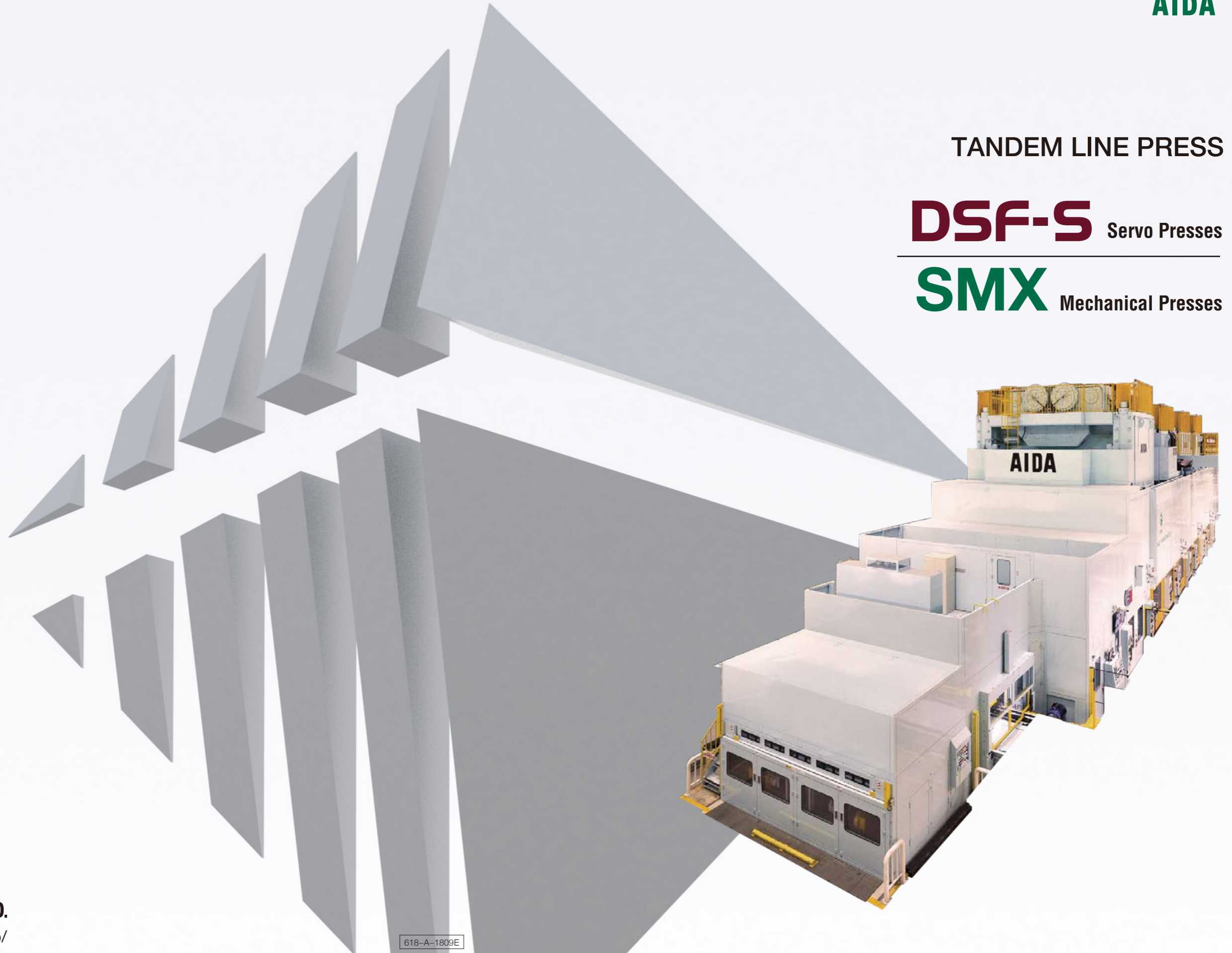




TANDEM LINE PRESS

DSF-S Servo Presses

SMX Mechanical Presses



AIDA ENGINEERING, LTD.

URL : <http://www.aida.co.jp/>

618-A-1809E

High-Precision StampMax Presses SMX Series

Systematically Pursuing Features Required for Medium- and Large-Panel Forming and for Deep Draw Forming

A high-precision, high-rigidity straightside press with superior basic functionality.
A series with an extensive track record spanning various tonnages, stroke lengths, and shaft configurations, and including link motion presses.
AIDA manufactures all the precision parts in-house in order to achieve minimal clearances in critical areas and delivers high-precision forming by means of the high-rigidity 8-surface slide guide design.



Delivering a Total System for High-Precision Forming

We have an extensive track record of delivering a wide array of peripheral press equipment, such as various types of automation equipment, die cushions, and die change equipment. We can recommend an optimized total production system tailored for your products.



SMX-II Series



Hybrid Tandem Line

Tandem Lines with a Global Reputation

- World's highest-speed productivity.
- Also enables the forming of highly contoured panels.
- Energy savings that only a servo press can deliver.
- Lines have been delivered to automotive manufacturers around the world, including in the US, Europe, Asia, China, and Japan.



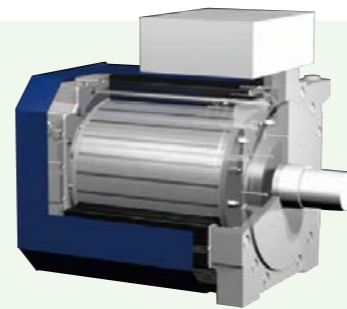
High-Speed Servo Tandem Line



Servo Trial Press

A Servo SMX to Boost Performance to the Next Level!

DSF-S Direct Servo Former

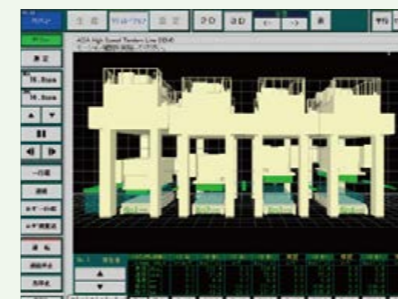


- A direct-drive design that fully transmits the servo motor RPMs to the slide.
- A maintenance-free design--No belts or speed reducers, and no regular replacement of components.
- The gear train drive eliminates slide point phasing issues.

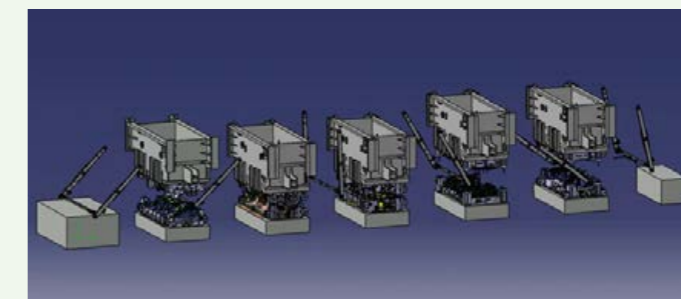
- Improved Formability** The press motion is freely programmable to match the forming application. Reduces speed when the dies come in contact and suppresses material and die vibration.
- Improved Productivity** Enables easy synchronization with automation systems, and the optimization of the non-forming 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.

Synchronization Control System AIDA Digital Motion System (ADMS)

Allows freely programmable, independent motion for each press. Equipped with the AIDA Digital Motion System (ADMS), which automatically calculates the optimal synchronization and phasing of the entire line under every condition. We promise optimal productivity by means of optimal forming motions. And our offline 3D simulation feature (option) enables even higher productivity.



ADMS



3D Simulation (Option)

Servo Drive Die Cushion

A servo motor-driven die cushion that uses oil as the medium. Because oil is used as the pressure transmission medium, durability is significantly higher compared to a mechanical drive mechanism. The electrical power being used by the die cushion is regenerated during the forming process, thereby saving energy. The variable pressure function and the locking mechanism enables the precision-forming of outer panels. No large oil tank is required, which enables effective usage of the pit for other purposes.

