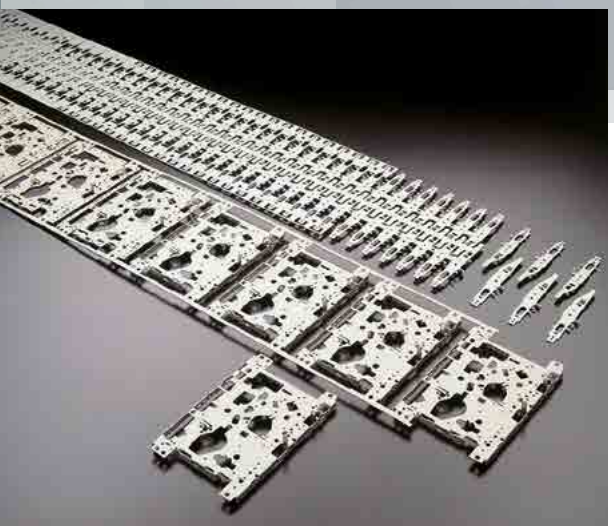
MONOBLOCK PROGRESSIVE
SERVO PRESSES

DSF-NE2



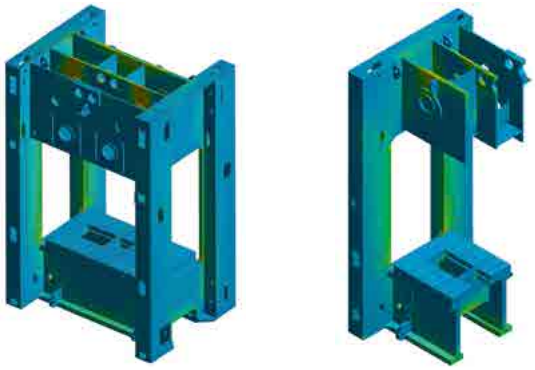
WINNER OF
EURO BLECH AWARD 2022

AIDA

DSF-NE2 Highlights

High Rigidity Monoblock Frame

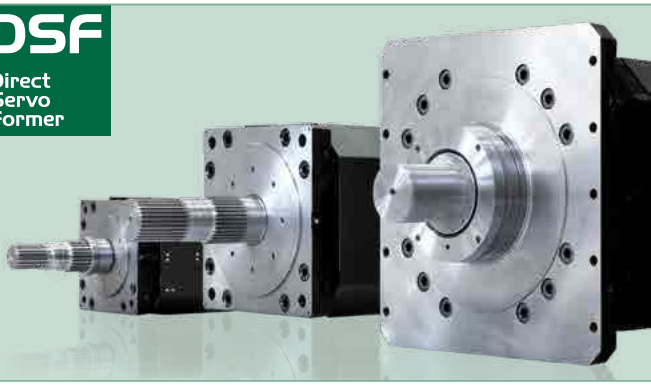
- DSF-NE2 are **high rigidity monoblock frame servo presses**
- Frame **is designed and verified with FEM systems** and achieves **structural rigidity** exceeding the most recent market standards
- The structure is made of **quality-controlled steel plates, thermally stress-relieved** after welding



AIDA Servo Package

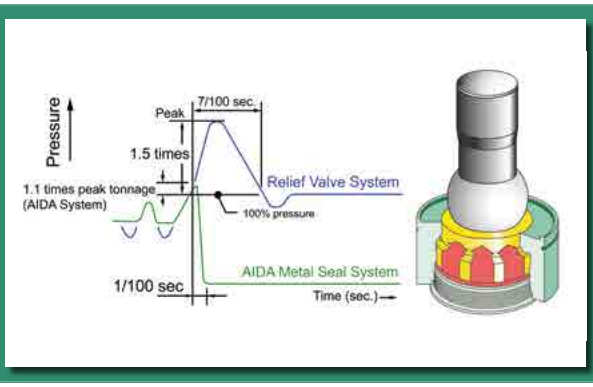
- DSF-NE2 presses are equipped with AIDA's proprietary, high torque, low speed servo motors designed specifically for presswork
- The AIDA servo package enables users to optimize, in accordance with the part height, slide motion and stroke length, allowing for **superior parts forming**
- The superior control of the impact speed on the material available for the AIDA servo package enables **increased productivity, improved die life and reduced die maintenance**

DSF Direct Servo Former



AIDA Hydraulic Overload Protection (HOLP)

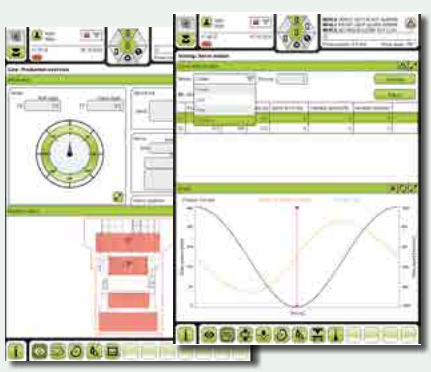
- DSF-NE2 presses are equipped with AIDA's patented high flow rate hydraulic overload protection system HOLP, featuring the **fastest response time** available on the market (P_{Max} to P_0 in 10 ms)
- Thanks to its metal-to-metal seal type conception and its absence of components subject to preventive maintenance, AIDA's HOLP is the **most reliable hydraulic overload system** available on the market



AIDA Intelligent Operation System (AIOS)

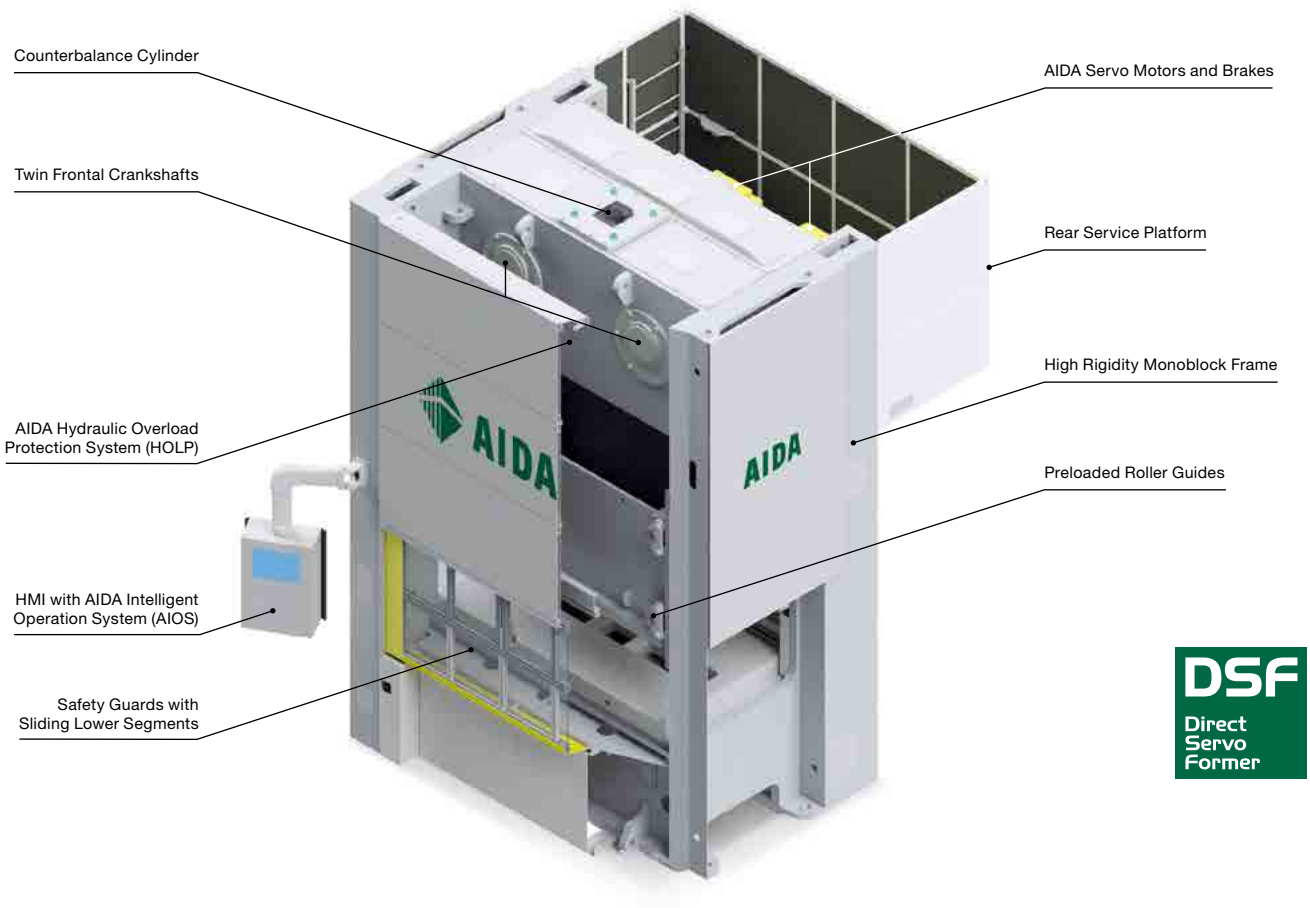
- DSF-NE2 presses are equipped with AIOS press control, the **ultimate user-friendly HMI** allowing intuitive and infinite programmability and flexibility of use
- AIOS enables **quickest man-machine interaction** thanks to its multi-touch functionality
- AIOS features **advanced graphic diagnostics and self-learning functions**

DSF Direct Servo Former



bility Productivity

DSF-NE2 presses are equipped with AIDA's own low RPM high torque servo motor offers unmatched performance in metalforming application. Zero clearance roller guide (without required lubrication) significantly contributes to longer die life. The DSF-NE2 presses series guarantees low-noise, low-vibration multiple varied-length forming, optimizing all manufacturing and maintenance operations and assuring at the same time flexible applications.



DSF-NE2 Servo Press Technology - Features and Benefits

Servo Press Power Management System

- Lower operating cost compared to mechanical and hydraulic presses
- While the press idles, the power consumption is minimal
- During the non-forming portion of the cycle, energy is stored in the capacitor bank
- During the forming cycle, regeneration of stored energy allows to reduce peak of power loads

Infinitely Programmable Stroke and Velocity Profiles

- Ability to program constant velocity for forming applications
- Ease of use of standard programmes for new operators and new processes
- Ease of die set-up and try-out with full load capability at any speed
- Increased production rates at shorter programmable stroke lengths

AIDA Proprietary Servo Motor

- Proprietary, high-torque, low speed servo motors designed specifically for presswork
- Use of rare-earths magnets allows great increase of energy output
- Direct drive
- Minimal components compared to mechanical drive
- In-house R&D, engineering and production of servo motors

TECHNICAL DATA

		DSF-NE2-2500	DSF-NE2-4000		DSF-NE2-6300	
Capacity	kN	2500	4000	4000	6300	6300
Slide Stroke (single reduction)	mm	250	300	300	400	400
Slide and bolster length	mm	2400	2500	3050	3050	3650
Slide and bolster width	mm	1200	1400	1500	1500	1500
Side window opening	mm	1250	1250	1250	1400	1400
Shut height	mm	650	750	750	1000	1000
Slide adjustment	mm	130	250	250	300	300
Press speed in pendulum mode	min^{-1}	140	118	118	104	104

STANDARD EQUIPMENT

- Automatic slide adjustment
- Automatic balancing cylinders pressure adjustment
- Preloaded roller guides, lubrication free
- Progressive oil lubrification system
- Coil feeding line interface
- Data bank for job settings storage
- 20 electronic programmable cams
- Tool protection control, 8 channels
- Tool data import/export by USB port
- User-friendly graphic diagnostic
- Siemens safety-integrated PLC unit
- T-stand with two-hand control
- Free compressed air socket
- Controlled compressed air socket
- 2-channels tonnage monitor, integrated in the press HMI
- Teleservice via VPN
- Start up synoptics
- Tool change synoptics
- Safety layout in HMI
- Stand by function
- Sound proof panels
- Automatic slide locking system

OPTIONS

- Manual hollow pistons clamps
- Automatic translating hollow piston clamps
- Sliding table for die change
- Sound proof cabin
- Antivibration pads
- Bronze bearing temperature monitoring
- Recognition of die code
- Oil quality monitoring system
- Electronic key system for remote login
- Maintenance PC
- AiCARE - AIDA Information Care System

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