MAXIMUM FLEXIBILITY AND AVAILABILITY
Productive and cost-efficient

Hydraulic fineblanking presses
HFAplus & HFAspeed
HFA. THE ADVANTAGES

- High productivity
- High flexibility
- Wide range of applications
- Proven press design
- Maximum process reliability
- High level of automation
Always meeting your expectations
Highly flexible press concept for maximum productivity

The HFA hydraulic accumulator fineblanking presses are the ultimate benchmark if your fineblanking and forming work demands large strokes and working movements. The HFA series is ideal for manufacturing challenging three-dimensional parts and integrating downstream processes such as forming or deburring. These presses guarantee reliable production processes, consistent parts quality and high availability. Whatever your requirements, the HFA presses can be flexibly adapted to meet them.
PERFORMANCE. INTELLIGENTLY DESIGNED
Proven press technology of the highest standard

The HFA series delivers maximum availability and flexibility – for example in the form of up to eight optional and flexibly configurable additional forces. A wide variety of removal systems can also be integrated into the control system. HFA presses are ideal for the cost-efficient production of 3D parts that demand a lot from the fineblanking process – with or without additional operations.

Focus on productivity
The hydraulic power integral to every HFA press guarantees the best possible stroke rate and provides the basis for high productivity. Long tool life and short tool change times are other major factors in cost-effective production. The HFA series’ bolster plates will give you a competitive edge because the tool can be installed on the bolster plate outside the press while it is running. The cladding that is fitted inside the die space as far as the part receptacle is designed to prevent parts getting snagged. This facilitates rapid tool changes. The easy-to-clean flat table also plays an important role.

HFA. The advantages
- 3,200 to 15,500 kN total force
- Wide range of expansion options for universally flexible production
- Large strokes and working movements
High-speed tool exchange
Changing tools takes just minutes in an HFA press. This is because HFA presses feature a permanent tool mounting system, a flat groove-free table for fast cleaning, plus roller blocks and side guide rollers for easy insertion of the tool bolster plate. The hydraulic tool bolster plate mounting system has four mounting cylinders in the upper press table and four in the lower to ensure rapid and absolutely reproducible tool changes. The optional adjusting spindles’ ability to automatically adjust themselves using the tool data stored in the control unit also helps to minimize retooling times.

Maximum tool life
The central support pins prevent tool bending and thus considerably increase tool life. The standard layout of four support pins and a rotary device for the pressure disc ensures perfect pressure pin positioning for every tool.

Additional forces for progressive tools
Up to eight additional forces can be flexibly installed in the tool insert rings. By advancing or displacing, they permit additional operations to be carried out.

Effective tool safety device
Tools are protected against damage by the pressure monitoring system in the rapid-closing cylinders. This type of safety device requires neither actuators nor any sensor motion in the tool; the entire die space is reliably monitored.

HFA. The advantages
- Tool changes within minutes
- Long tool life
- Maximum tool protection
PRECISION. AT EVERY STAGE
Precise positioning and accurate oil metering

Infeed and outfeed unit
The rugged, low-noise roll feeder with its gentle start and braking curve guarantees the positioning accuracy essential for progressive compound tools. The infeed and outfeed axes can be set from the monitor.

Roller lubricator/spray system
Precise oiling optimizes the fineblanking and forming process and increases the cost efficiency of your fineblanking system. The innovative oil, compressed air-free spraying system applies an economical, mist-free oil coating. Different settings and parameters can be activated via the press control system.

Optimized scrap chopper
The force- and stroke-optimized scrap chopper has a blade angled at 3° for the shearing stroke. The result is a lower oil consumption compared with the traditional V-cut. The chopping intervals can be freely selected, and the shearing stroke and clamping force can be set from the control panel.

HFA. The advantages
- Rugged and low-noise roll feeder
- Stroke-optimized scrap chopper
- Cost efficiency roller lubricator/spray system
FLEXIBILITY. EVERYTHING MADE TO MEASURE
The right system for every application

Expansion options for cost-efficient production
The HFA series presses can be adapted to your individual requirements in a variety of ways. You can use proven peripheral systems such as feeding lines, tool change trolleys, removal devices for handling parts and slugs, and fully-automatic deburring and washing systems to automate production of fineblanked parts.

HFA. The advantages
- Perfect configuration
- Maximized automation of production
- High cost-efficiency
SUSTAINABILITY. TOTAL COMMITMENT
Technology for a clean future

Ecology and economy in harmony
Feintool is committed to sustainable environmental protection. Ecological concerns are a major priority when developing new products, and they yield economic benefits too.

Environment-friendly hit mark-free evacuation
Feintool’s part removal systems ensure cost-efficient operation and clean, trouble-free production.

Metered mist-free oiling
Lubricant consumption can be massively reduced by using a spray system — cost savings of up to 50 percent are possible. The energy-saving system uses no compressed air and produces virtually no oil mist, so there is no need for a suction system. The press is less prone to fouling and there are no pollutants in the surrounding air.

HFA. The advantages
- No oil mist
- No hit marks on parts
- Minimized compressed air consumption and less noise
ENERGY. EFFICIENTLY USED
Conserve resources and reduce costs

Green intelligence on board
The HFA series’ innovative energy management system guarantees low energy consumption. This has the dual benefit of conserving natural resources and lowering unit costs.

ECO mode – smart savings
To save energy, just select ECO mode on the screen. In this operating mode, the press automatically lowers the pressure in its high-pressure system to the maximum levels required for the particular process.

Automatic shutdown
The HFA press motors automatically shut down when there is no close or retract command. Just specify the appropriate length of time on the screen using the “Temporary Shutdown” function. The screen display shows that the motors have switched off.

HFA. The advantages
- Reduced energy consumption
- Lower unit production costs
- Conserves the environment
**HFAspeed. UP TO 50% MORE OUTPUT**
Maximum performance and top speed

---

**More power – increased productivity**
The HFAspeed series is equipped with an up-rated drive system and newly developed hydraulic system. Combined with a new tool concept, the press takes parts output into a whole new dimension.

**Expanded programming functions**
The enhanced hydraulic functions eliminate pressure peaks in the system; the cushion pressure is now programmable. Vee-ring and pressure pad synchronization can now be controlled thanks to the new functions. The vee-rings and pressure pads work with cushioning cylinders.

**Enhanced speed for high cycle rates**
Optimized acceleration and feed rate combined with faster scrap chopping also help increase cycle rates.

**Ease of operation included**
Enhanced software screens simplify the programming of additional functions such as controlling synchronization.

---

**HFA. The advantages**

- Up to 50% higher output
- Synchronized ram, pressure pad and vee-ring operation permits the use of speed tools
- State-of-the-art high-end press technology for fast acceleration and maximum speeds
INNOVATION. WITH A FOCUS ON EFFICIENCY
Tool concepts for high cycle rates

**In-strip conveyance**
One effective way of increasing cycle rates is to employ tool concepts in which the workpiece is carried forward while still in the strip. An additional ejector stage ensures the workpiece is reliably removed.

**High speed and multiple outfeed**
This tool system makes it possible to produce fineblanked parts at up to twice the current cycle rate with no loss of quality or increased tool wear. In addition, the system features other compelling characteristics; additional handling equipment can be reduced to a minimum or eliminated completely, while fall-through blanking shortens the blanking cycle.

**HFA speed. Die Vorteile**
- Up to 100% more output
- Smaller overall press stroke
- No hit marks, no surface scratches
COMFORT. PROGRAMMING MADE EASY
Feintool Motion Control

State-of-the-art control technology
The widely employed Beckhoff control system makes the press easy to operate and guarantees high availability rates. The press control system features tried-and-tested components.

User-friendly touch screen
Just enter the tool data and production parameters and retrieve stored data with unerring accuracy. This can be done simply and quickly by fingertip control on the colour touch screen. There is also a sophisticated authorization system to help you.

Universal control design
The operating screens conform to the global Feintool standard. This ensures that press operators and maintenance staff can immediately find their way around — a further contribution to high productivity. Your own shop floor maintenance specialists will value both the familiar hardware and software components and the option of using Feintool’s remote maintenance support.

HFA. The advantages
- Proven Beckhoff control unit
- User-friendly touch screen
- Reliable operation and maintenance
PERIPHERAL SYSTEMS. END-TO-END SOLUTIONS
A perfect match on all sides

Everything from a single source
Feintool offers its customers fully fledged end-to-end solutions for high-output production. These solutions range from individual feeder systems and fully automated tool changers to robots for the separate removal of finished parts and slugs. Operators can obtain engineering, installation, commissioning and training services for entire systems from a single source. This is the only way to bring overall equipment effectiveness (OEE) up to a level of over 80%. Its own experience of producing parts means that Feintool knows the nuances that determine whether or not these solutions are successful.

Ejection without hit marks (optional)
Using compressed air to eject parts can cause hit marks. A fully integrated removal device ensures that parts are extracted entirely undamaged. The device removes parts from the tool at high speed and without damaging them. And a positive side-effect is that oil mist and air noise are gone for good. Switching over from ejection to compressed air mode is a simple operation.

HFA. The advantages
▶ Everything from a single source
▶ High cost-efficiency
▶ Maximum part quality
SERVICE. WITH GUARANTEED PROFESSIONALISM
Excellent service around the clock

24/7 Service Hotline – connected worldwide
Regardless of what time zone your company is manufacturing in, it can access Feintool’s know-how at any time via the Service Hotline. Hotline staff are well experienced with Feintool fineblanking systems, and are thus the most competent advisors around. They have a direct line to Feintool’s service engineers and original spare parts. Remote diagnostics by telephone or internet serve as the most efficient aid for rapid fault remediation.

Smart Maintenance – increasing performance
Smart Maintenance – increasing performance
To increase system availability and cost-efficiency, Feintool offers a smart monitoring and maintenance planning service. Feintool Smart Maintenance helps you to reduce unplanned downtime, optimize maintenance cycles and increase press availability and performance.

eShop – for an even faster response
Original spare parts can be sourced even more quickly in the Feintool eShop. Online ordering speeds up both quotation issuing and order handling. Speedy spare parts delivery means that your fineblanking system will quickly be running at maximum performance again.

Preventive maintenance – avoiding downtime
On request, Feintool’s service engineers will carry out specified maintenance work on fineblanking systems aimed at preventing unprofitable downtime. They draw on the experience gained by the company at its own production facilities around the world. Preventive maintenance is performed as a supplement to the regular, weekly upkeep work undertaken by your own maintenance staff. Preventive maintenance is geared to the specific press model and mode of operation, and is performed at least once a year.

Feintool. Excellent service
▶ Reachable worldwide around the clock
▶ Efficient remote maintenance
▶ Fewer stoppages
FEINTOOL – LEADING WORLDWIDE
Technology support for demanding customers

The complete spectrum
Feintool supplies total solutions comprising presses, tools and peripheral systems for fineblanking and forming technology. Feintool’s activities focus on customer-specific development and production as well as comprehensive support comprising consulting services, engineering and training.

To ensure project success, presses, tool systems, materials technology and component design must all be geared to each other. As a globally operating provider, Feintool unites all of these core competencies, giving it the foundation needed to deliver comprehensive technological consulting and customer support.

Straight to the best solution
Feintool’s specialists assist customers at every step of the process chain. The advice they offer covers everything from part and tool design and materials to lubricants. Customers also benefit from Feintool’s expertise in process optimization, machine operation and preventive maintenance of their systems. Our training courses reflect the company’s comprehensive offering because they provide suitable training modules for each area.

Feintool. Expertise from the technology leader
- Comprehensive technological consulting
- Process optimization
- Comprehensive training services
Feintool Technologie AG
Industriering 3
CH-3250 Lyss - Switzerland
Phone  +41 32 387 51 11
Fax    +41 32 387 57 80
feintool-ftl@feintool.com
www.feintool.com

AMERIKA
Feintool Equipment Corp.
6833 Creek Road
US-Cincinnati, OH 45242
Phone  +1 513 791 00 66
Fax    +1 513 791 15 89
fec@feintool-usa.com

ASIEN
Feintool Japan Co., Ltd.
260-53, Aza Yanagi-Machi Hase
JP-Atsugi City, Kanagawa Pref. 243
Phone  +81 46 247 74 51
Fax    +81 46 247 20 08
feintool@feintool.co.jp

Feintool Beijing Office, SWISSTEC
Hua Qiao Gong Yu 2-43
Hua Yuan Cun, Xi Jiao
CN-Beijing 100044
Phone  +86 10 6841 84 47
Fax    +86 10 6841 28 69
swisstec@public.bta.net.cn

Feintool Fineblanking Technology
(Shanghai) Co., Ltd.
Bld. No. 14, No. 261 Sanbang Road,
Songjiang District
CN-Shanghai 201611
Phone  +86 21 6760 1518
Fax    +86 21 5778 6656
feintool-tca@feintool.com