



FAST AND SAFE:

The revolution in fineblanking

Servo mechanical fineblanking press

XFT 1500speed



XFT 1500speed. The advantages

- ▶ Unrivalled output of up to 200 strokes per minute
- ▶ High flexibility
- ▶ Maximum process reliability
- ▶ Short retooling times
- ▶ Long tool lives
- ▶ Energy efficiency
- ▶ Low production costs per part



Productivity. Of the highest standards

Set your sights still higher

Feintool's new XFT 1500*speed* breaks new ground by becoming the first fineblanking press to achieve up to 200 strokes per minute. Its outstanding cost-efficiency will open up new product areas for you. Use its state-of-the-art servo technology to maximize productivity – no fineblanking press has ever been as fast and reliable as the XFT 1500*speed*.

OUTPUT. TRIPLING IS POSSIBLE

Servo mechanical drive for maximum cycle rates



200 strokes a minute

Want to produce at anything between 5 and 200 strokes a minute? The XFT 1500*speed*'s modern servo technology will let you do so. The press's stiffness and fully programmable sequences of operation ensure long tool lives even at high stroke rates.

New dimensions in output

The new XFT 1500*speed* is driven by two latest-generation servo motors. Compared to models with conventional drives, this press offers entirely new prospects for parts manufacturing. Using suitable tools, manufacturers can increase their output by up to 200%. This enables productivity at rates never before achieved – a critical success factor in highly competitive markets.

Unique servo direct drive

Directly coupling the servo motor to the press table results in a highly dynamic drive system. In the event of a malfunction, it stops much faster, thus shortening the braking distance significantly. This innovative design also enables the motor to run at a slower speed and so consume less energy.

XFT 1500*speed*. The advantages

- ▶ Multiple increase in output compared with other presses
- ▶ 5 to 200 strokes per minute, 50 mm ram stroke
- ▶ Low-wear servo mechanical drive

GENTLE. EXTREME SPEED

Sequences of operation matched to the tool



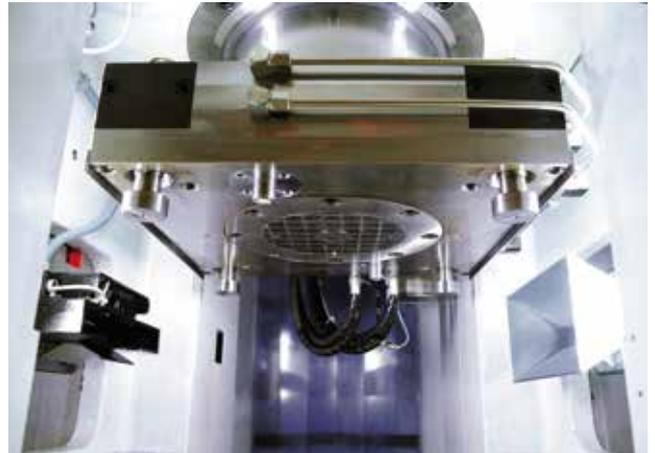
Simple, fully programmable sequences of operation

Milliseconds for productivity

The servo technology of the XFT *1500speed* makes full programming of sequences of operation a simple task. Movements such as acceleration, braking, part removal or even intermediate pauses can be defined with millisecond accuracy. As a result, you get maximum productivity from a process while at the same time taking it easy on your tools.

Sensitivity for high process reliability

Other impressive features of the XFT *1500speed* are its lightning-quick response and process-sensitivity. If complications occur, the interaction between the servo mechanical drive and the newly designed sensor table substantially shortens the time needed to reach a standstill, even when the press is working at maximum cycle rates. What is more, the direct drive shortens press braking distances considerably and effectively prevents tool damage and avoids partially cut parts.



Sensor table and bolster plate combined in a single component

Safe even at top speed

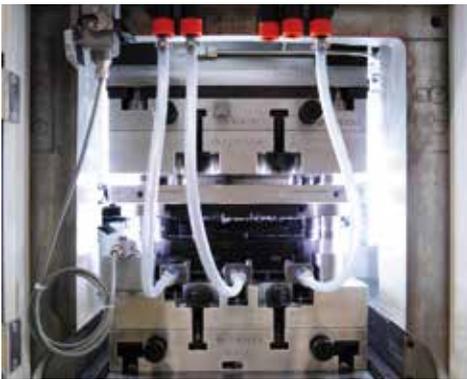
Even at cycle rates of up to 200 strokes per minute, tool safety remains a top priority. The new, patented die space with sensor table ensures maximum protection of valuable tools. It permits a short braking distance even when operating at maximum speed.

XFT *1500speed*. The advantages

- ▶ High-precision sequences of operation
- ▶ Optimized processes for maximum output
- ▶ High level of protection against tool breakage

COST EFFICIENCY. WITH NO INTERRUPTION

Significantly faster tool changes



Tool pre-mounted on bolster plates

Every batch a success

Short retooling times come as standard with the XFT 1500*speed*. This is due to several innovations that were incorporated into the press during its development. These make it possible to change tools in a matter of minutes. As a result, even small batch sizes can be produced very cost-effectively.

High-speed tool changing

Tools are assembled and mounted on bolster plates outside and next to the press while it is still running. The XFT 1500*speed* is fitted with fold-out tool consoles on which the plates are laid for tool removal and installation. These consoles, in conjunction with the new hydraulic tool clamping function, ensure maximum tool-change speed. The old tool is unclamped, rolled onto the console and removed, and the new tool is rolled into the press via the console and hydraulically clamped into place at lightning speed.



Fold-out consoles for simple tool changing

XFT 1500*speed*. The advantages

- ▶ Tool changes within minutes
- ▶ Substantially shorter machine downtimes
- ▶ High cost-efficiency even for small-series production

FLEXIBILITY. BOUNDARY-BREAKING

Expanded, versatile range of applications



The die space in the XFT 1500speed is compatible with its GKP-100 and GKP-160 predecessors.

More applications thanks to flexible hydraulics concept

A new hydraulics concept permits the integration of two additional forces for modular tools, while a further innovation minimizes the pressure peaks that occur at high speeds. It guarantees top quality and prevents unwanted instances of deformed parts due to high stroke rates or thin materials.

Fineblanking and conventional blanking

The press's versatility makes the production of conventionally blanked parts that have to satisfy particular requirements for dimensional repeatability and surface quality an economically attractive option. The XFT 1500speed's unique flexibility opens up a new and broader spectrum of applications. It can achieve 5 to 200 strokes per minute with fixed ram movement; while between 20 and 200 strokes per minute are possible with variable ram movement.



Thanks to the special adapter, the press does not need to be converted to use moving-punch tools.

Investment security included

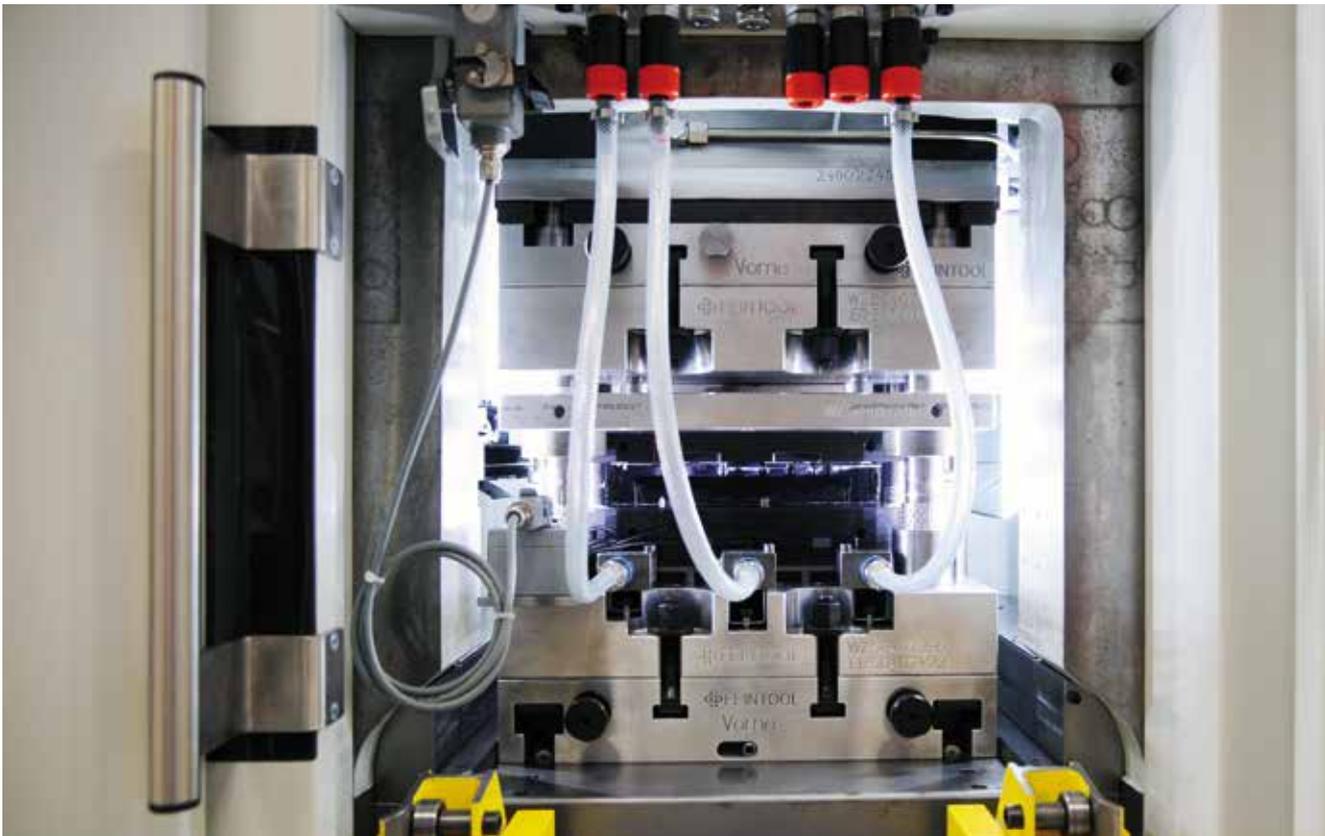
Thanks to its highly flexible die space, the XFT 1500speed can easily accommodate existing tools from its GKP-100 and GKP-160 predecessors. Tools from MFA-1600 presses are compatible after minor adjustments. This provides a high level of investment security. Moreover, modular tools are used in the press. These have the advantage of only having to replace a single module rather than the entire tool if something is incorrect.

XFT 1500speed. The advantages

- ▶ Greater range of applications
- ▶ Minimum pressure peaks ensure maximum parts quality
- ▶ Adoption of existing tools

AVAILABILITY. WITHOUT COMPROMISE

Maximum tool service life



Same process, greater productivity

Even though there is no change in cutting speed, faster closing, sensing and opening processes ensure a marked increase in productivity without subjecting the tools to greater loads.

Deformation prohibited

The new XFT 1500*speed* is gentle on tools. Even at very high cycle rates, tool deformation is practically ruled out. This not only reduces tool wear and maximizes service life, it also ensures that even parts fabricated in large-batch production series are of consistently high quality.

More stability, greater damping

The strength and stiffness of the XFT 1500*speed's* press frame have been optimized. Both the frame and ram guides feature high stiffness properties. In addition, the cast-iron frame ensures maximum stroke damping. All this contributes to the greatest possible parallelism of the press table and thus long tool service lives.

XFT 1500*speed*. The advantages

- ▶ Longer tool service life
- ▶ Consistently high parts quality
- ▶ Greater productivity with no loss of service life

LONGEVITY. CONSISTENT VALUES

Built to last

Quality down to the smallest detail

When Feintool developed its new XFT press concept, it paid close attention to maximizing press service life. Fast and simple maintenance and effortless component replacement help to ensure that your investment will pay off in the long term.

Easy care, low maintenance

The XFT 1500*speed* requires exceedingly little maintenance. Large service ports offer easy access, and centralized lubrication minimizes maintenance work. Feintool's Smart Maintenance principle is ideal for the sophisticated design of this press, with its sensors for monitoring critical elements. Within minutes, Feintool's specialists can establish an online connection to the machine and fix failures by remote maintenance. Feintool's comprehensive maintenance packages, which take into account the current condition of the press, round out the company's range of innovative solutions for successful long-term production.



Large service ports ensure best accessibility

XFT 1500*speed*. The advantages

- ▶ Easy care and maintenance
- ▶ All components of the highest quality
- ▶ Built to work for decades

THE ENVIRONMENT. ACTIONS NOT WORDS

Ecology and economy in harmony

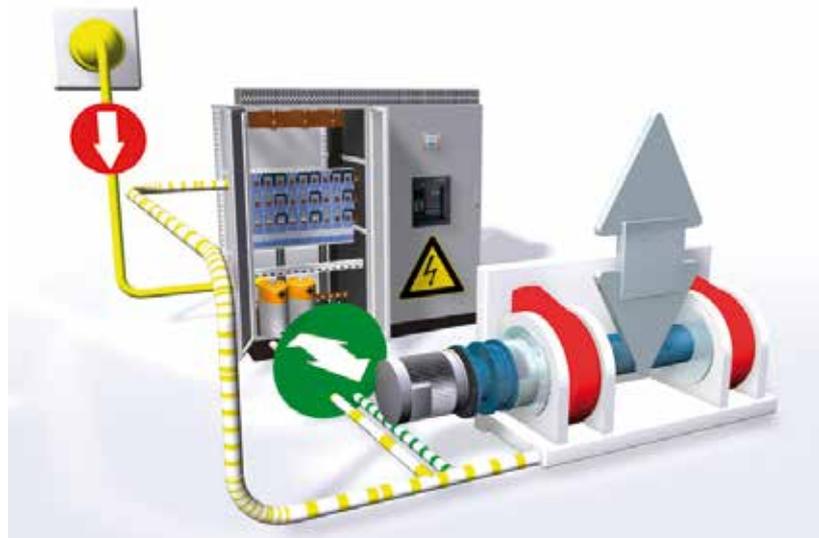
Green intelligence on board

Feintool is committed to sustainable environmental protection, and the company pays close attention to environmental considerations when developing new products. The XFT 1500*speed's* innovative energy management system guarantees minimum energy consumption. This conserves natural resources as well as reducing unit costs – good news for everyone.



Energy efficiency – the smart way

The servo mechanical drive guarantees highly efficient energy use. Thanks to this system, the press only consumes as much energy as it needs to perform the part-specific process. In addition, the press makes use of energy storage: Energy arising from press braking motions is captured and stored, and then re-used when needed. This reduces cost-intensive peak-loading of the electricity grid. When not in use, the XFT 1500*speed* switches automatically to power-saving stand-by mode.



Innovative energy management system

New knuckle joint lowers consumption

The newly developed direct-drive knuckle joint ensures very high mechanical transmission. As a result, a smaller servo motor with a lower torque can be used, which additionally reduces energy consumption.

XFT 1500*speed*. The advantages

- ▶ Environment-friendly energy management
- ▶ Low energy consumption
- ▶ Lower unit production costs

PROCESSES. CLEAN AND SAFE

Servo removal device enhances component quality

Environment-friendly hit mark-free evacuation

Conventional presses normally use expensive compressed air to evacuate parts. Products can be damaged by impacting against objects. Feintool has eliminated this risk by implementing another new development: The XFT 1500*speed* can be optionally equipped with Feintool's new servo-driven removal device, which reliably extracts parts from the tool without damaging them at cycle rates of up to 150 strokes per minute. This has two valuable side effects: oil mist and air noise are gone for good.

Metered mist-free oiling

Feintool also had environmental considerations in mind when it developed a spray system that massively reduces oil consumption. 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.



The removal device that is integrated into the press control system ensures that parts are removed undamaged and sorted by cavity

XFT 1500*speed*. The advantages

- ▶ No hit marks on parts
- ▶ No oil mist, lower oil consumption
- ▶ Minimized compressed air consumption and less noise

COMFORT. CONTROL MADE EASY

Feintool Motion Control

Process controls at your fingertips

Feintool's proven Motion Control system has been extended to include new functions which open up new process control options. With its state-of-the-art control engineering and Ethernet technology, the system is equipped for the future, offering actual-value recording and top-quality process performance. Feintool's Motion Control system has a user-friendly touchscreen interface for ease of operation.

A good sense for details

The XFT 1500*speed's* ram speed and sequences of operation can now be individually but still easily programmed to a previously unachievable depth of detail. Each phase of the motion sequence can be defined and controlled to an accuracy of one hundredth of a second. It is possible to optimize individual process steps at any time. This flexibility enables manufacturers to define the best-fitting, most cost-efficient process for each project. New input values can be tested in a stroke simulation. You can then verify it with a test stroke before starting production.



XFT 1500*speed*. The advantages

- ▶ Precise process analysis
- ▶ Maximum process quality
- ▶ Stroke simulation and test stroke

PERIPHERAL SYSTEMS. COMPREHENSIVE SOLUTIONS

A perfect match on all sides



Your every production need

Best results can only be achieved with the XFT 1500*speed* if the surrounding peripherals can keep pace with the press's high productivity. Feintool offers peripheral system solutions that are perfectly attuned to the press. Its own experience of producing parts means that Feintool knows the nuances that determine whether or not these solutions are successful.

Everything from a single source

Feintool offers its customers fully fledged end-to-end solutions for high-output production, ranging from individual feeder systems and fully automated tool changers to robots for separate removal of finished parts and scrap. From a single source you can obtain the engineering, installation, commissioning and training services for complete facilities.

Feeding lines – seamlessly integrated

Efficient material feeding plays an important part in ensuring the cost-effectiveness of the fineblanking process. Incorporating the feeding line's control and safety technology into the fineblanking press enhances process reliability and system availability by a very significant amount. Feintool can deliver the ideal solution for every challenge by working closely with innovative manufacturers.

XFT 1500*speed*. The advantages

- ▶ Maximum productivity and reliability
- ▶ Optimum solutions for peripheral systems
- ▶ Everything from a single source

SERVICES. EXPERT SUPPORT

Excellent service round the clock



Preventive on-site maintenance service

24/7 Hotline Service – connected worldwide

Regardless of what time zone where 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 an efficient for rapid fault remediation.

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



Professional support by remote maintenance

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
- ▶ Fewer stoppages
- ▶ Minimized downtime

FEINTOOL – LEADING WORLDWIDE

Technology support for demanding customers

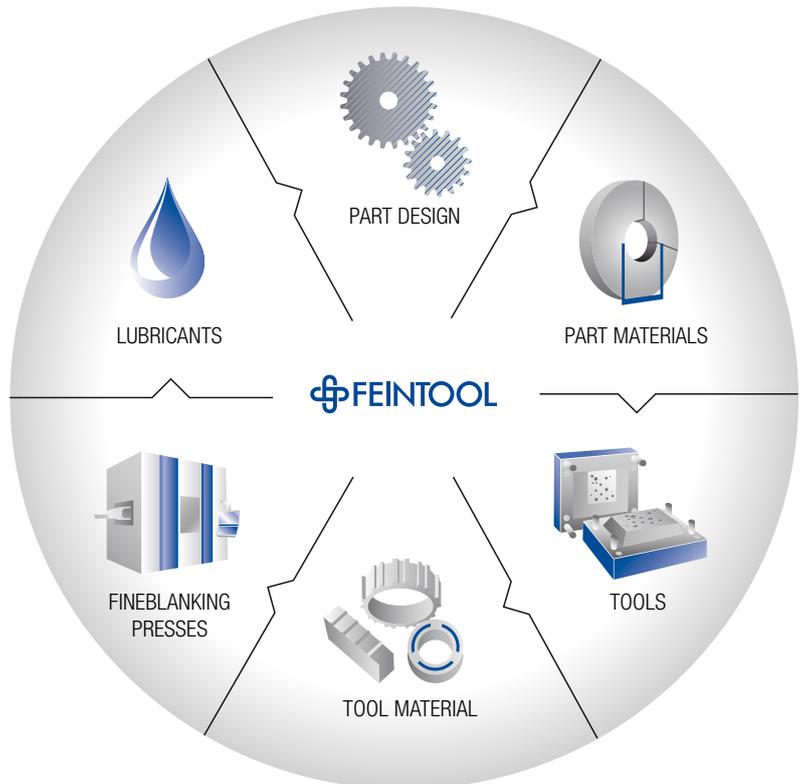


Fineblanking technology training

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.



Feintool technological knowledge for every segment

No detours – direct to the best solution

The specialists at Feintool support you along the entire process chain. The advice they offer covers everything from component and tool design and materials to lubricants. Customers also benefit from Feintool's skills in process optimization, machine operation and preventive maintenance of their systems.

Feintool – Expertise from the technology leader

- ▶ Comprehensive technological consulting
- ▶ Process optimization
- ▶ Services from a single source

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