

ONE PRESS FOR TRYOUT AND PRODUCTION – NO COMPROMISE

ANDRITZ Kaiser ToP-Line

Mechanical servo press combining sensitive tryout and high-speed

ANDRITZ

Tryout and production

The main goal of the newly developed press was to unite tryout and production in a single machine - a quick-running production press, combined with a sensitive tryout press - creating a perfect symbiosis.

At ANDRITZ Kaiser, we believe that now is the right time to take another decisive step in mechanical press development. To do so, we have collected all the new approaches, ideas, and suggestions for improvement we could find. Our work was driven by revolution, not evolution.

In 2018, we decided to develop an all new kind of mechanical press and build a prototype to represent the new ANDRITZ ToP Line. Turning an idea into a reality, taking a risk on an innovation, integrating suggestions for improvement, building, testing, and launching a prototype on the market without the pressure of a delivery deadline; it was every development engineer's dream.

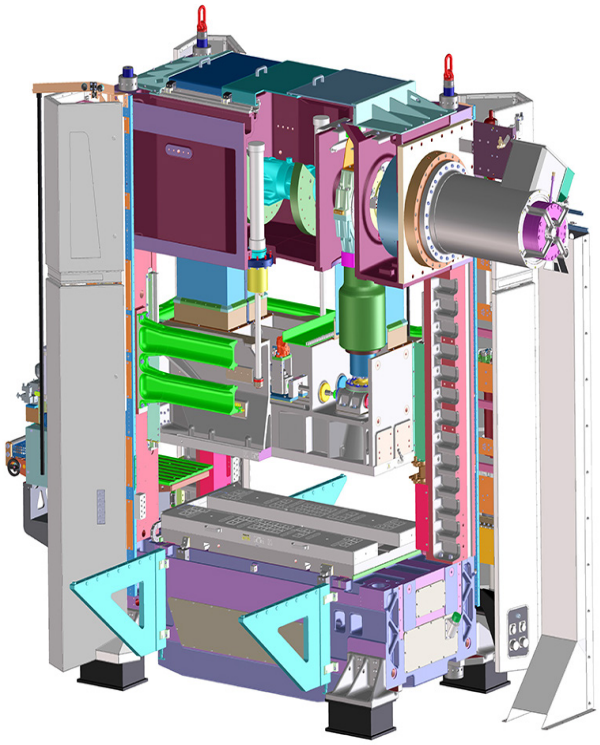
We designed a concept press because our goal was to implement and test all of our innovations in a new machine - similar to other industrial areas. This allowed us to take an all new approach to press manufacturing. We questioned every design principle, evaluated every known solution, and analysed many new aspects. We took an out-of-the-box approach to the task - and even to the peripheral equipment - working with a team of 12 system partners.

The result is a press that combines new features with proven technologies, integrating detailed solutions that are ground-breaking in the press manufacturing industry.

ANDRITZ ... SHAPED BY QUALITY!

REQUIREMENTS FOR THE TRYOUT FUNCTION:

- Controlled, slow ram movements
- Full pressing force, even during slow movements
- Highly flexible tabletop that can be positioned precisely, so that the top tool can remain in the press if adjustments need to be made, with only the bottom tool extended.
- Clearance lift function ("easy access") to ensure the tool is easily accessible
- Precise force control and process monitoring
- Reduction of noise emissions through noise insulation covering
- "Measuring" installation elements to avoid resonance vibrations during machine movements



Details of the internal design of the machine, in particular the bionic structure

At a glance

Precision and quality - Made in Germany

Only a perfect combination of subsystems, like press, feed, transfer, lubrication, tool, belt system and process monitoring systems, can ensure outstanding performance and economic efficiency for your forming system.

KSTE 2000-20-F2-P2-SE

Pressing Force kN	2000
Table length in mm	2000
Table depth mm	1000
Stroke rate 1 to 1/min	1-180
Stroke rate 2 to 1/min	1-240
Lift in mm	20-160
Ram adjustment in mm	125
TIH*) in mm	500
Clearance lift in mm	165

*) Tool installation height



MACHINE HIGHLIGHTS:

- Biometric structure of the press body
- Environmental protection and sustainability
- Use of additive manufacturing
- People in focus
- Highly dynamic servo drive, combined with selectable planetary gear
- Easy access to the tool chamber thanks to clearance lift
- Magnetic tool clamping technology
- New control concept “look & feel”

ANDRITZ KAISER

ANDRITZ Kaiser stands for highest quality in metal forming technology. Decades of experience and the technical specifications of our automatic stamping and metal forming presses guarantee customers high precision, productivity, and reliability.

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