



**ferrum**

ferruCare - We take care of your can seamer

# MODULAR CONVERSIONS FOR TAILOR-MADE SOLUTIONS



# MODULAR CONVERSIONS

## STAY ON TRACK, STAY ON TOP

Markets, customer needs and regulations are evolving, and so it makes sense to modernize your seamer with our modular conversions.



### MEET NEW REQUIREMENTS

Old equipment often needs upgrades to meet increasing hygienic, safety and workplace related regulations. Our proven solutions help numerous customers all over the world.



### MINIMIZE DOWNTIME

Our modular conversions support your processes. The tailor-made solutions are known for their high quality, which ensures less downtime and allows you to use resources for other tasks.



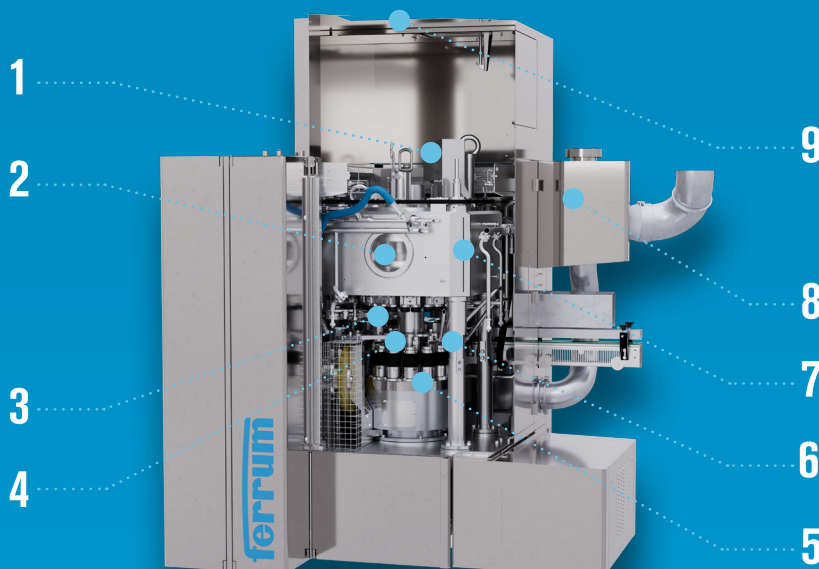
### IMPROVE PERFORMANCE

The performance of products decreases over time and new equipment is more efficient. Increase your efficiency by modernizing your seamer with the latest innovations and technologies instead of simply replacing parts.



### SUPPORT SUSTAINABILITY

Sustainability has never been as important as it is today. Upgrade your seamer with our modular, resource-saving conversions to protect the environment.



## MODULAR CONVERSIONS - EXACTLY FOR YOUR NEEDS

### 1 | AUTOMATIC SEAMING CAM | page 4

Increase workplace safety by eliminating manual changes on the roof.

### 3 | NEW FORMAT PARTS | page 6

You innovate with new cans and lids – we provide optimal support for your processes, all the way through to efficient commissioning.

### 5 | LIGHT WEIGHT CAN KIT | page 8

The kit supports the latest trends towards light weight cans and sustainability of the beverage can industry.

### 7 | STAINLESS STEEL UPPER PART | page 10

Increase hygiene with a completely stainless product room.

### 9 | SEAMER TOP COVER | page 12

Prevent external contamination from the top with a cover according to your needs – even extra high to match with your filler.

### 2 | FERRULOOP | page 5

Procure an additional set of interchangeable assemblies and save up to 3 days during overhaul.

### 4 | HD TOOLING | page 7

Upgrade your tooling to the next hygiene level while improving ergonomics.

### 6 | CAN INFEEED / DISCHARGE CONTROL | page 9

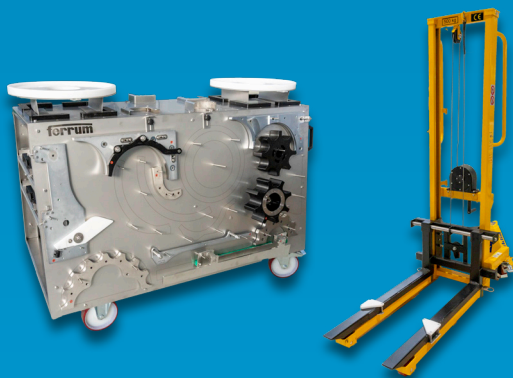
Track every can for maximum process safety.

### 8 | CO<sub>2</sub> EXHAUST UNIT | page 11

Increase workplace safety and meet current CO<sub>2</sub> regulations.

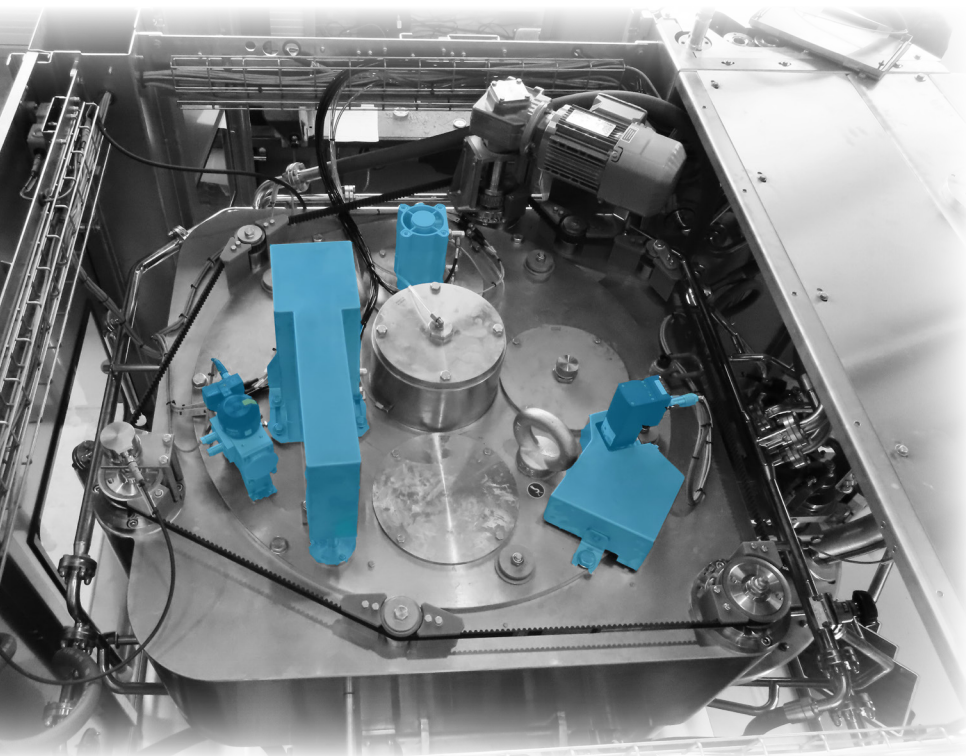
### LIFTING TROLLEY | TOOLING TROLLEY | page 13+14

Improve handling and safety for the format change over with the lifting trolley.  
Simplify and standardize your format change process and improve organisation with the tooling trolley.



# AUTOMATIC SEAMING CAM

## WORKPLACE SAFETY IN FOCUS



Instead of using the safety ladder to perform manual changes on the roof, the seaming cam can be upgraded to an automatic version to set fine adjustments.

All manual tasks are no longer necessary and are carried out automatically by motor.

### INCREASE SAFETY

- + Increased operator safety, as all seamer settings are performed via touch panel and thus from the ground
- + 2<sup>nd</sup> OP can be automatically disengaged for seam control of the 1<sup>st</sup> OP

### OPTIMIZE PRODUCTION

- + Increased accuracy due to automatic, continuous adjustment
- + Reduced changeover times for different materials and thicknesses (less than 1 minute)

### PREVENT ERRORS

- + 10 memory positions simplify operation and reduce potential errors
- + Optimizations are directly visualized and saved

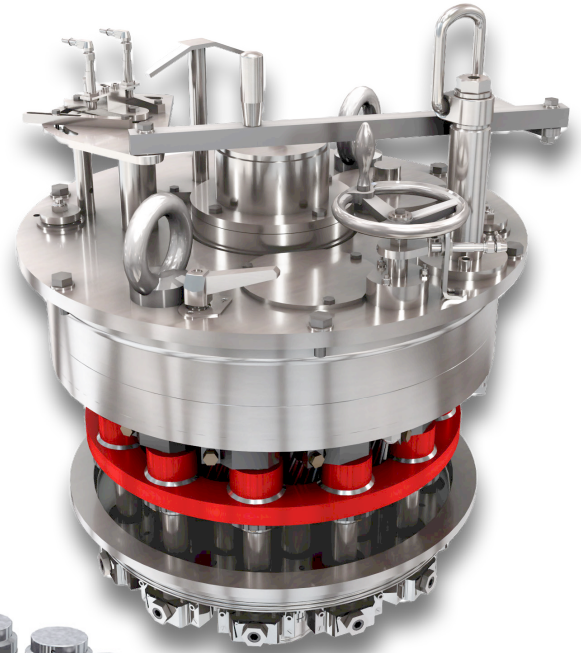
Can Seamer	Compatible
F18	✓
F12	✓
F9	✗
F08	✗
F06	✗
F05	✗

# FERRULOOP

## SAFE AND SIMPLE

Reduce downtime during an overhaul with ferruLoop.

ferruLoop stands for the exchange of complete pre-assembled units during overhaul. One additional set of interchangeable rotor and lifting stations is procured.



### REDUCE DOWNTIME

- + Saves up to 3 days during the annual overhaul of ferruBasic seamers
- + More purposeful deployment of your resources during the annual overhaul

### MINIMIZE RISKS

- + Reduces downtime in case of an unlikely machine breakdown and prevents massive production losses
- + Overhaul of ferruLoop by a Ferrum service technician after production start up enables production monitoring

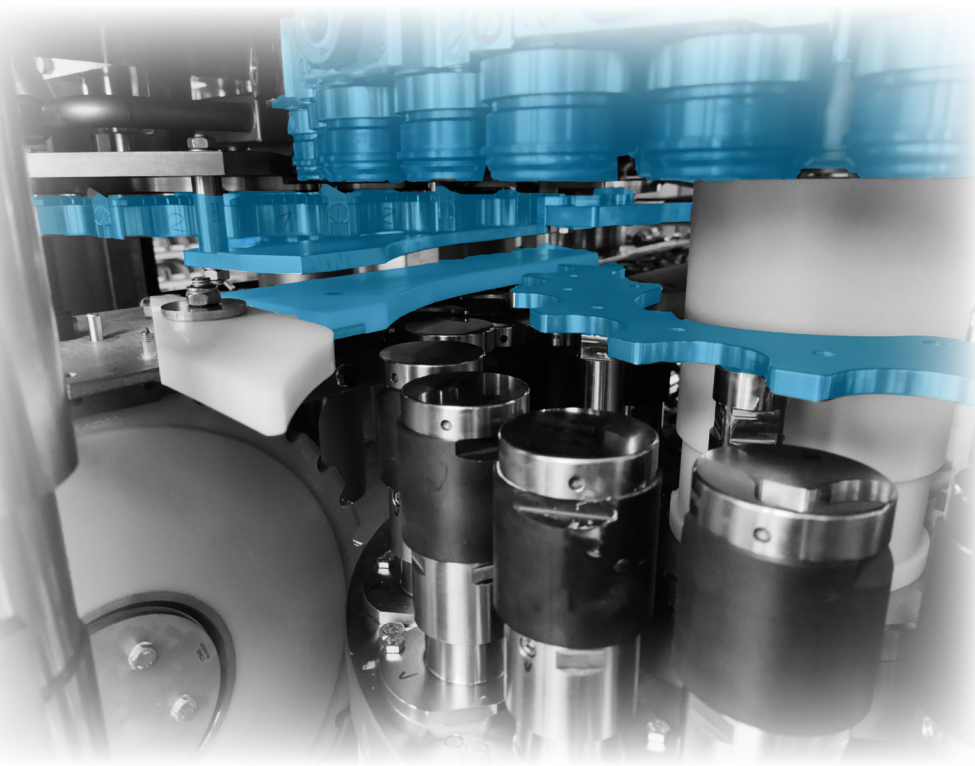
### SAVE COSTS

- + A rotor can be used for more than one seamer of the same type
- + Lifting stations are even compatible between the two machine types F12 and F18

Can Seamer	Compatible
F18	✓
F12	✓
F9	X
F08	X
F06	X
F05	X

# NEW FORMAT PARTS

## INNOVATE WITHOUT RISK



We are always ready to **support your requests for new can and lid format parts**. Our standardized procedures optimally support your processes.

We offer additional spare parts to ensure a safe ramp up.

### RELY ON FUNCTIONALITY

- + We track the latest developments in the can and lid industry and guarantee the functionality of new formats

### EMPOWER INNOVATION

- + We support your ideas with our exceptional seaming expertise

### REDUCE RISK

- + Start-up kits are available as an option, including essential spare parts to ensure uninterrupted production in the event of unforeseen incidents

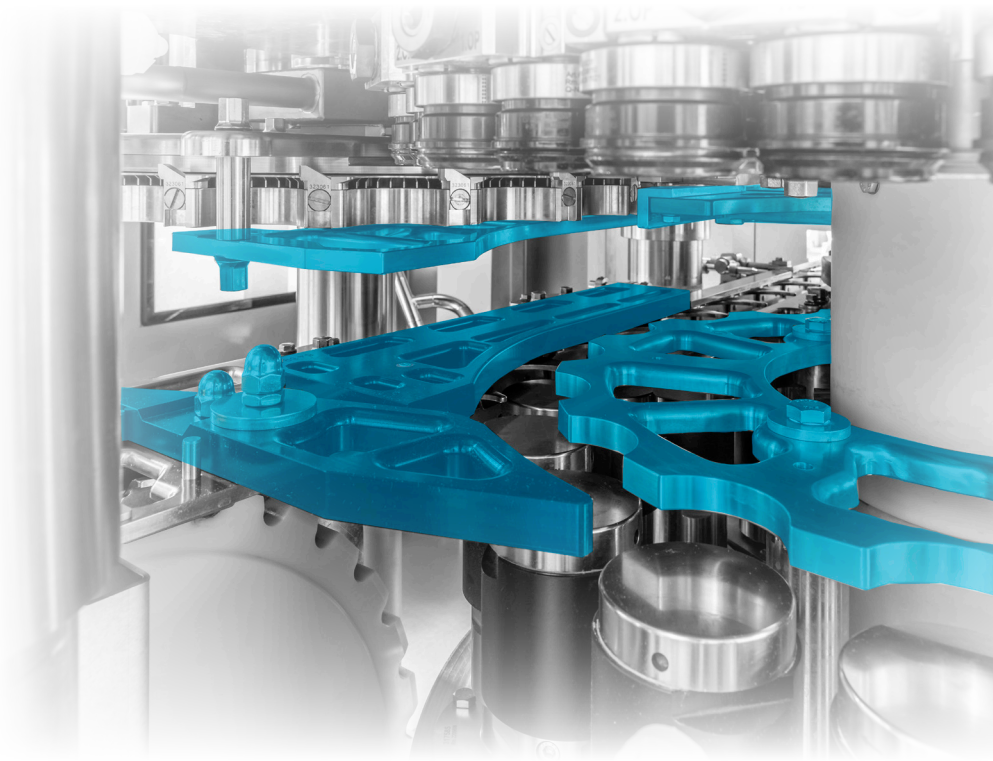
Can Seamer	Compatible
F18	✓
F12	✓
F9	✓
F08	✓
F06	✓
F05	✓

# HD TOOLING

## UPGRADE TOOLING TO THE NEXT HYGIENE LEVEL

An upgrade to a **hygienic design (HD)** of the tooling includes cut-outs to minimize flat surfaces and precisely adapted radii, both of which facilitate optimal liquid drainage.

Plan the conversion with the annual overhaul to further save resources and time.



### IMPROVE HYGIENE

- + Reduced recontamination due to more effective cleaning and reduced surfaces (hygienic design)
- + Completely stainless product area (FDA conformity)

### IMPROVE ERGONOMICS

- + Operators benefit from weight savings on format parts during changeovers

### CLEAN EFFICIENTLY

- + Time savings and reduced water consumption due to more efficient cleaning and strongly reduced spray shadow formation

Can Seamer	Compatible
F18	✓
F12	✓
F9	✗
F08	✓
F06	✓
F05	✗

# LWC KIT (LIGHT WEIGHT CAN)

## FERRUM HELPS TO SUPPORT SUSTAINABILITY



As the **trend toward lighter cans** intensifies, so does the challenge of seaming. Thin-walled cans are more sustainable as less material is used but also more sensitive to horizontal forces.

As the new generation of cans with an axial resistance force of  $>675\text{N}$  penetrates the market, we introduce two solutions:

- **The light weight can kit (LWC kit)**, reduces dynamic forces with the help of new lifting stations and the umbrella knockout pads.
- For can heights above 122 mm, **the high performance kit** is additionally introduced to improve the guidance of the can in sensitive areas with broader guides.

### ENHANCED WARRANTY

- + **Ferrum guarantees best seaming quality with lighter cans**

### OPTIMIZE PERFORMANCE

- + **Machine speed remains unchanged with lighter cans**

### SUPPORT SUSTAINABILITY

- + **With the change to lighter cans, less material is used per can and therefore supports sustainability**

Can Seamer	Compatible
F18	✓
F12	✓
F9	✓
F08	✓
F06	✓
F05	✓



# CAN INFEED / DISCHARGE CONTROL

## TRACK EVERY CAN FOR MAXIMUM PROCESS SAFETY

The mechanical triggering of a jack ensures a production stop in case of a can crash. The infeed / discharge control counts incoming and outgoing cans. The sensor at the infeed table is already installed within the standard version.

Additionally, a sensor is installed to count cans at the seamer exit. If the numbers of cans does not add up, the seamer will stop.

**This upgrade ensures 100% control, even after the jack.**



### PROCESS SAFETY

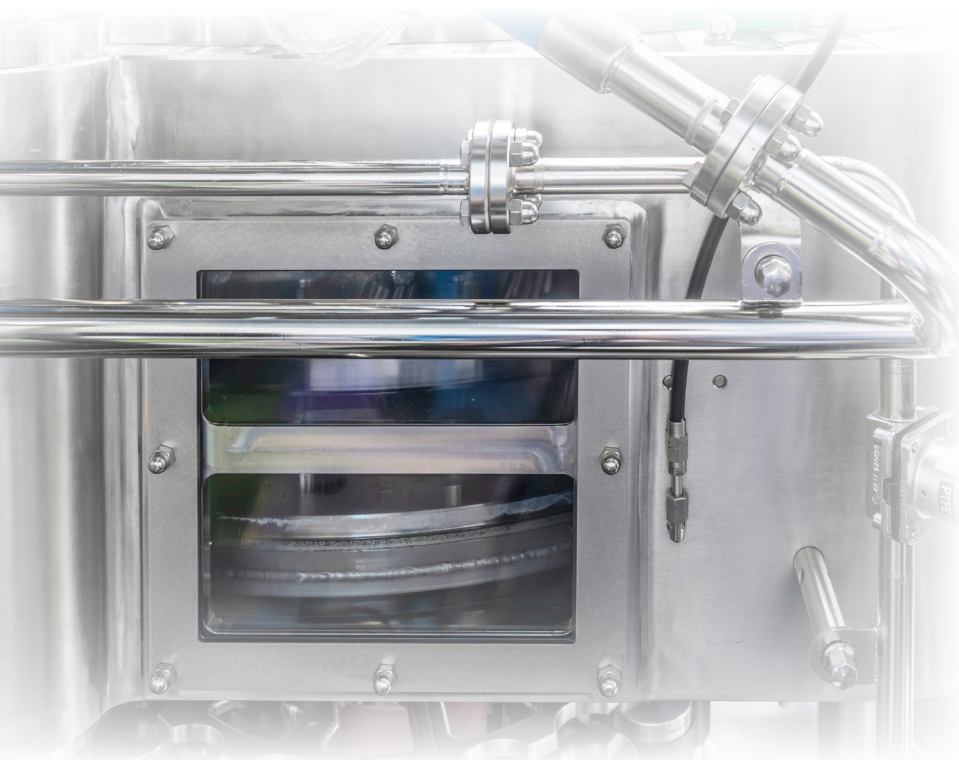
- + **Detects all missing cans in the seamer**

### OPTIMIZE PRODUCTION

- + **Minimize potential can jam and thus production delay**
- + **Minimize potential product and material losses**

Can Seamer	Compatible
F18	✓
F12	✓
F9	✓
F08	✓
F06	✓
F05	✓

# STAINLESS STEEL UPPER PART FOR A COMPLETELY STAINLESS PRODUCT ROOM



The upper part is available **in a stainless steel version** as an upgrade. The conversion replaces the installed upper part, eliminating material pairings between cast iron and stainless steel.

All attached parts are developed according to the current hygiene standards, whereby **the product room only consists of stainless steel** after this conversion and thus can be cleaned optimally.

## INCREASE HYGIENE

- + **Completely stainless product area (FDA conformity)**
- + **Hygienic design improves drainage of liquids**

## OPTIMIZE PRODUCTION

- + **Optimal material pairing prevents corrosion**
- + **Convert your machine during the annual overhaul to save time and money**

## EXTEND LIFETIME

- + **Upgrade your seamer to the current standard of new machines (F12 / F18)**
- + **Upgrading important parts of the seamer results in extended lifetime**

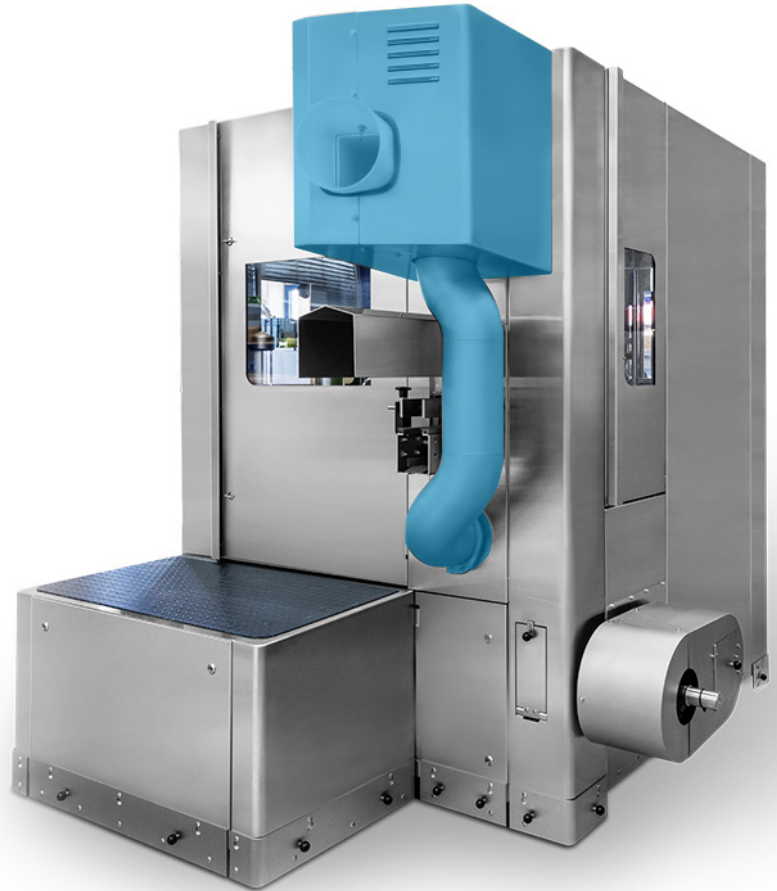
Can Seamer	Compatible
F18	✓
F12	✓
F9	✓
F08	✓
F06	✓
F05	✓

# CO<sub>2</sub> EXHAUST UNIT

## MEET CURRENT SAFETY STANDARDS

For undercover gassing, CO<sub>2</sub> is used to accomplish longevity of products.

The **CO<sub>2</sub> Exhaust Unit** increases occupational safety by extracting the CO<sub>2</sub> from the product room.



### OPTIMIZE WORKING CONDITIONS

- + Efficient extraction of the CO<sub>2</sub> in the product room prevents exceeding the occupational exposure limit (OEL) due to CO<sub>2</sub>

### OPTIMAL MAINTENANCE

- + Integrated cleaning nozzle
- + Quick release ring ensures simple disassembly of the pipe for maintenance activities

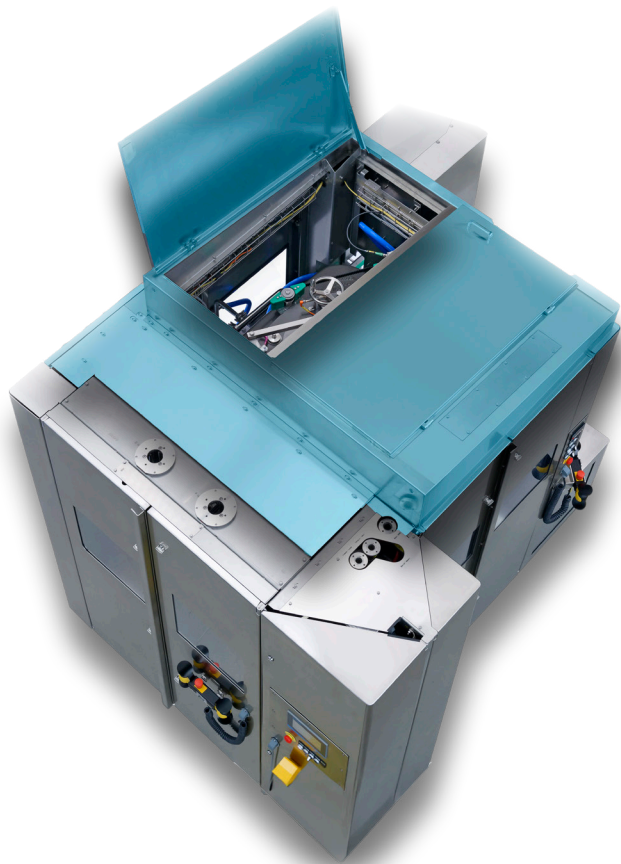
### PROVEN SOLUTION

- + The exhaust unit is developed to highest standards, complies with regulations and helps numerous customers all over the world
- + Quick release ring ensures simple disassembly of the pipe for maintenance activities

Can Seamer	Compatible
F18	✓
F12	✓
F9	✓
F08	✓
F06	✓
F05	✓

# SEAMER TOP COVER

## CHOOSE YOUR COVER ACCORDING TO YOUR NEEDS



We offer a range of seamer top covers as upgrades.

Most importantly, the cover prevents external contamination entering the product room.

Our covers are available with manual or automatic opening.

### IMPROVE HYGIENE

- + Protect your machine from top-down contamination
- + The opening enables faster drying after cleaning and thus reduces recontamination

### OPTIMIZE ERGONOMICS

- + The proven solution considers optimal space for maintenance activities
- + The solution with an automatic opening allows settings being performed efficiently via touch panel

### OPTIMIZE SAFETY

- + The upgrade to automatic operation from the ground increases operator safety since all manual tasks are no longer necessary

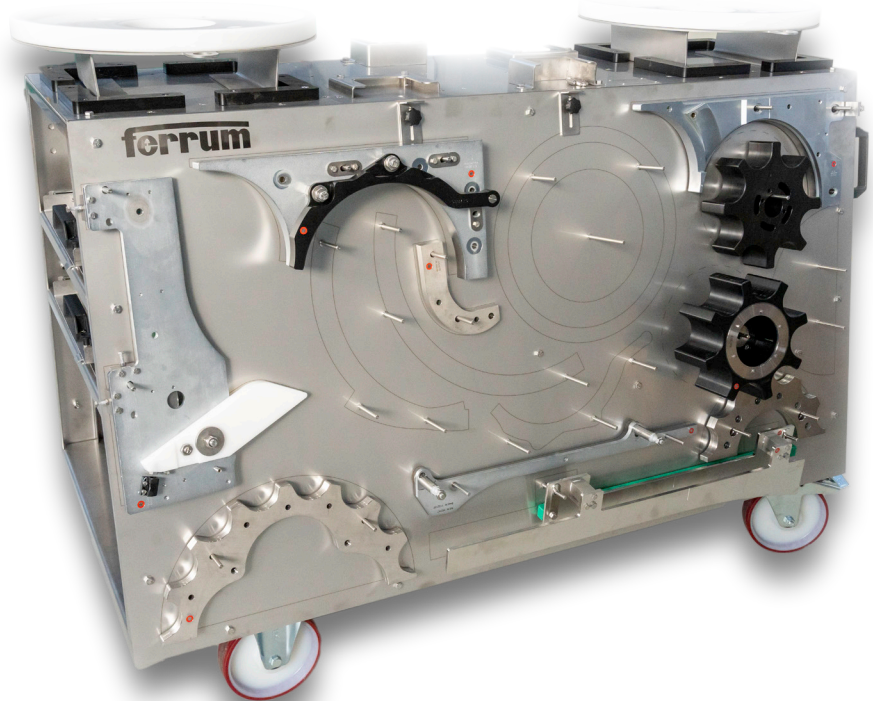
Can Seamer	Compatible
F18	✓
F12	✓
F9	✓
F08	✓
F06	✓
F05	✓

# TOOLING TROLLEY

## SIMPLIFY AND STANDARDIZE YOUR PROCESSES

With our **tooling trolley** the organization of the format change process is quick and easy.

One tooling trolley offers **space for two complete formats** and is also available for tooling in hygienic design.



### SUPPORT STANDARDIZATION

- + **Pictogram for positioning instruction ensures easy handling**
- + **Good overview of all format parts**

### OPTIMIZE HANDLING

- + **Good accessibility of all format parts**

### REDUCE FOOTPRINT

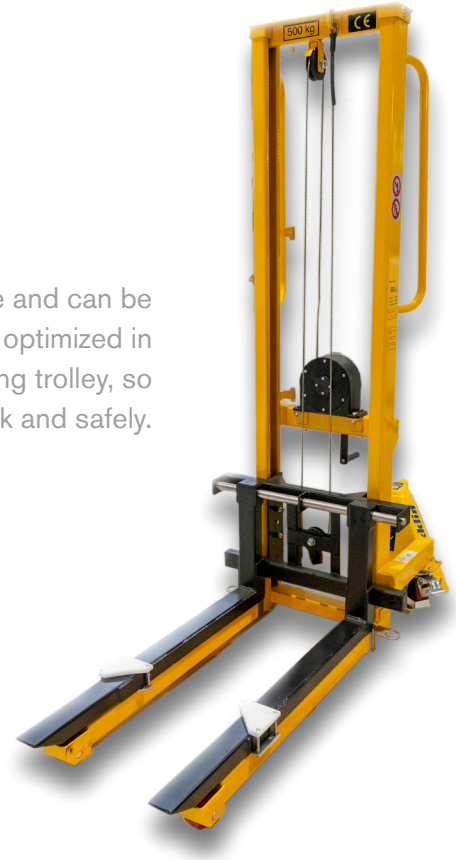
- + **Compact design results in optimal use of space**

Can Seamer	Compatible
F18	✓
F12	✓
F9	✓
F08	✓
F06	✓
F05	✓

# LIFTING TROLLEY

## CONVENIENT FORMAT CHANGE WITHIN REGULATIONS

The **lifting trolley** replaces the manual assembly assistance and can be interpreted as an upgrade. Format changeover has been optimized in handling and safety. It is compatible with the tooling trolley, so that the format changeover can be done quick and safely.



### OPTIMIZE ERGONOMICS

- + Simple & quick operation of the stroke via hand crank
- + Efficient handling due to centering on the tooling trolley

### BOOST EFFICIENCY

- + The lifting trolley can be handled by one operator

### ENABLE FURTHER BENEFITS

- + Efficient handling in combination with the tooling trolley, which is accessible from all sides

Can Seamer	Compatible
F18	✓
F12	✓
F9	✓
F08	✗
F06	✗
F05	✗

# INDIVIDUAL MODIFICATIONS

## CONTACT US FOR A TAILOR-MADE OFFER

The catalogue contains our proven conversions.  
You can further customize your seamer **with individual requests**.  
We frequently develop tailor-made solutions with unique quality  
to meet your needs.

Get in touch with us today to receive **a customized proposal** designed  
**specifically for your requirements**.



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SERVICE LOCATION



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