

Product Catalogue

Machines for non-cutting forming and processing

SegmentFormers • Rolling Formers • Radial Forming Machines •
Chipless Cutting Machines • Flanging Machines

Precise.
Flexible.
Reliable.

SF25



RK25



RF25



RS25



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COMPANY

TECHNOLOGY MEETS RELIABILITY

Since 2010, Fichter formtec GmbH has been developing and building forming machines for precise forming processes. As an owner-managed company, we combine technical expertise with many years of experience – delivering tailored solutions for pressing, rolling, radial forming and cutting.



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FORMING TECHNOLOGY WITH EXPERIENCE.

Since 1992, the Fichter name has stood for the development, construction and distribution of machines. Since 2010, Fichter formtec GmbH has focused on forming machines for precise forming processes. With a high level of in-house production and technical expertise, we develop practical solutions for a wide range of applications.

OUR MILESTONES

- 1992** Foundation of KFM FICHTER
- 2007** Foundation of Fichter Maschinen GmbH
- 2010** Foundation of Fichter formtec GmbH – focus on the development, construction and distribution of forming machines
- 2017** Management handed over to Pascal Spöri and Florian Eckerle, relocation of the company to Eichstetten
- 2024** Expansion of in-house production to approx. 90%



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WORLDWIDE IN OPERATION.

Fichter formtec operates internationally. Our machines are in use at customer sites worldwide – from Europe and Asia to North and South America. More than 260 machines at 25 operating locations stand for experience, reliability and practical solutions in chipless forming technology.



EXPERT
CONSULTING.
WORLDWIDE.



25

Operating locations

260+

Machines worldwide

OUR OPERATING LOCATIONS

- | | | | | |
|------------|------------------|---------------|---------------|------------------|
| 📍 Belgium | 📍 France | 📍 Malaysia | 📍 Poland | 📍 Czech Republic |
| 📍 Brazil | 📍 Greece | 📍 Malta | 📍 Romania | 📍 Turkey |
| 📍 Bulgaria | 📍 United Kingdom | 📍 Mexico | 📍 Sweden | 📍 Ukraine |
| 📍 China | 📍 India | 📍 Netherlands | 📍 Switzerland | 📍 Hungary |
| 📍 Germany | 📍 Korea | 📍 Austria | 📍 Spain | 📍 USA |



OUR MACHINES
DRIVE INDUSTRY.
WORLDWIDE.



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Flanging Machine



SF25

Press Machine

For the non-cutting
forming of rotationally
symmetrical components.

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Press Machine - SF25

The SF25 press machine – SegmentFormer – is particularly suitable for

- pressing / crimping sleeves with cable or hoses
- pressing / crimping housings with connectors
- pressing / crimping hoses and tubes
- pressing / crimping sensors with cable

With the motorized press, a positive connection is achieved, among other things, for improved strain relief, anti-rotation protection or shielding.

For processors of rotationally symmetrical components, the **SegmentFormer SF25** represents a consistent further development of existing systems for pressing tubes, tube ends, sleeves, housings, fittings and many other applications.

A typical application, for example, is to mechanically secure connecting leads in sensor sleeves against pull-out while also sealing them. In addition, connectors can be flanged into sensor housings using this process, and much more. Wall thicknesses from 0.2 mm up to approx. 1.0 mm are possible, depending on the material, with diameters from 3 to 25 mm.

Machine design

Operation of the SF25 press machine is very simple. The workpiece to be formed is inserted into the working area and is usually positioned by means of a stop. It remains stationary while the forming jaws move axially toward the workpiece. The relevant machining parameters can be stored and managed in the control system. The user interface enables simple, intuitive operation. All key processes are electronically monitored and the data are recorded in the control system. This ensures a high level of process reliability and repeatability.

[more about the design of the SF25 press machine](#)

Basic machine

- Base module with mounting holes for all functional components, consisting of: base console with holder for servo motor, gearbox and encoder
- Setup kit available in two versions:
 - Version 1 Slim version for wall thicknesses up to 1.0 mm
 - Version 2 Reinforced version for wall thicknesses from 1.0 up to approx. 2.0 mm
- Forming jaws (forming tool), flat or round pressing, 6 / 8 / 12 / 16 possible

Safety equipment

- Cover for the drive mechanism
- Forming head secured on both sides by cover or protective tube
- Also available with light curtain, either instertion area only or complete
- Emergency stop stops all movements immediately

Control / Software

- VIPA Speed7 PLC with Siemens TP700 comfort operator panel; S7 and TIA Portal V13
- Records selectable via operator panel (optionally by barcode scanner)
- Database for product-specific parameters
- Three access levels for machine control (operator, service and administrator)
- Language freely selectable; German and English as standard, other languages at extra cost
- Control cabinet mounted in the frame

Frame

- Supports all machine components
- Welded and coated steel frame with 4 swivel castors, 2 with parking brake
- Optionally in aluminium system profile

Machine documents

- Documentation, hazard analysis, CE mark

Optional components / attachments

The standard SegmentFormer SF25 can be equipped with various optional attachments and functions. This makes it possible, for example, to expand the machine into a semi-automatic press with process monitoring.

Manual positioning

- Position stop is moved to position manually
- One position possible per data record
- Position is read via encoder and displayed on the HMI
- Component position is detected by sensor at the position stop
- Machine is started automatically or by foot switch



Motorized positioning

- Freely programmable sequence (max. 30 commands per data record)
- Multiple press positions can be programmed in one data record
- By selecting the data record, the stop is moved motorically to the stop position
- Position is displayed on the HMI
- Component position is detected by sensor at the position stop
- Machine is started automatically or by foot switch



Force-displacement monitoring

- A load cell integrated in the toggle lever determines the forces occurring in the lever
- Graphical display of the forces on a separate measuring device
- OK / NOK evaluation



Height-adjustable frame

- Tabletop mounted on height-adjustable columns
- Height adjustability up to 300 mm
- 4 swivel castors, 2 with locking brakes



Light curtain

- Securing the free access to the working area of the SegmentFormer
- With muting function
- Entry side can be walked through

Special designs

- Customised machine design to meet customer requirements
- Integration of the machine as a substation in complete systems
- Further options available on request

Technical Data

Pressing machine SegmentFormer SF25

Dimensions	Standard	1,000 x 1,000 x 1,400 mm (LxWxH)
Tooling data	Number of forming jaws	6 / 8 / 12 / 16
	Jaw shape	Straight or contoured
	Possible workpiece diameter	3 – 25 mm
	Possible wall thicknesses	0.2 – 1.0 mm, depending on material
	Max. stroke length	Up to 20 mm
Power supply	3 x 400 V / 50 Hz / PE (neutral conductor)	
Power rating	3 kVA	
Current	8.2 A	
Fuse protection	8.2 A	
Compressed air supply	5 x 2.5 mm ²	
Compressed air	Not required	
Weight	Approx. 250 kg	
Repeatability	±0.05 mm	
Cycle time	Approx. 3 – 8 seconds	

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SEGMENT FORMER

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SF50

Pressing Machine

For the seamless
forming of rotationally
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Press Machine - SF50

The SF50 press machine – SegmentFormer – is particularly suitable for

- pressing / crimping sleeves with cable or hoses
- pressing / crimping housings with connectors
- pressing / crimping hoses and tubes
- pressing / crimping sensors with cable

With the motor-driven press, a positive connection is achieved, among other things, for improved strain relief, anti-rotation protection or shielding.

For processors of rotationally symmetrical components, the **SegmentFormer SF50** represents a consistent further development of existing systems for pressing tubes, tube ends, sleeves, housings, fittings and many other applications.

A typical application is, for example, the mechanical securing of connecting leads in sensor sleeves against pull-out while simultaneously sealing them. In addition, connectors can be flanged into sensor housings using this process, and much more. Wall thicknesses from 1.0 mm up to approx. 2.0 mm with diameters from 3 to 50 mm are possible.

Machine design

Operation of the press machine is very simple. The workpiece to be formed is inserted into the working area and is usually positioned by means of a stop. It remains stationary while the forming jaws move axially toward the workpiece. The relevant machining parameters can be stored and managed in the machine control system. The user interface enables simple, logical operation. All functionally important processes are electronically monitored and the data are recorded in the control system. This ensures a high level of process reliability and repeatability.

Basic machine

- Base module with mounting holes for all functional components, consisting of: base console with holder for servo motor, gearbox and encoder
- Setup kit consisting of cam, lever, forming jaw guide
- Forming jaws (forming tool), flat or round pressing, 8 possible

Safety equipment

- Cover for the drive mechanism
- Forming head protected on both sides by cover or protective tube
- Front-side protection also available with light curtain
- Emergency stop stops all movements immediately

Control / Software

- VIPA Speed7 PLC with Siemens TP700 Comfort operator panel; S7 and TIA Portal V13
- Records selectable via operator panel (optionally by barcode scanner)
- Database for product-specific parameters
- Three access levels for machine control (operator, service and administrator)
- Language freely selectable; German and English as standard, other languages at extra cost
- Control cabinet mounted in the frame

Frame

- Supports all machine components
- Welded and coated steel frame with 4 swivel castors, 2 with locking brakes
- Optionally in aluminium system profile

Machine documents

- Documentation, hazard analysis, CE mark

Optional components / attachments

The standard SegmentFormer SF50 can be equipped with various optional attachments and functions. This makes it possible, for example, to expand the machine into a semi-automatic press with process monitoring.

Variants - SF25/SF50

Manual positioning

- Position stop is moved to position manually
- One position possible per data record
- Position is read via encoder and displayed on the HMI
- Component position is detected by sensor at the position stop
- Machine is started automatically or by foot switch



Motorized positioning

- Freely programmable sequence (max. 30 commands per data record)
- Multiple press positions can be programmed in one data record
- By selecting the data record, the stop is moved motorically to the stop position
- Position is displayed on the HMI
- Component position is detected by sensor at the position stop
- Machine is started automatically or by foot switch



Force-displacement monitoring

- A load cell integrated in the toggle lever determines the forces occurring in the lever
- Graphical display of the forces on a separate measuring device
- OK / NOK evaluation



Height-adjustable frame

- Tabletop mounted on height-adjustable columns
- Height adjustment range up to 300 mm
- 4 swivel castors, 2 with locking brake



Light curtain

- Securing free access to the working area of the SegmentFormer
- With muting function
- Entry side can be selected

Special designs

- Customised machine design according to customer requirements
- Integration of the machine as a workstation in complete production lines possible
- Further options are available on request

Technical Data

Pressing machine SegmentFormer SF50

Dimensions	Standard	1,250 x 1,700 x 1,635 mm (LxWxH)
Tooling data	Number of forming jaws	8
	Forming jaws	Hardened
	Possible workpiece diameter	3 – 50 mm
	Possible wall thicknesses	0,2 – 2.0 mm, depending on material
	Max. stroke	Up to 30 mm
Power supply	3 x 400 V / 50 Hz / PE (neutral conductor)	
Power rating	3 kVA	
Current	8.2 A	
Fuse protection	8.2 A	
Compressed air connection	5 x 2.5 mm ²	
Compressed air	Not required	
Weight	Approx. 820 kg	
Cycle time	Approx. 3 – 8 seconds	
Repeatability	± 0.05 mm	

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SEGMENT FORMER

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SF25

compact

Pressing Machine

For the seamless
forming of rotationally
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Pressing machine SF25 compact

The SF25 compact pressing machine – **SegmentFormer** – is specially designed for pressing / flanging:

- Hoses and cables
- Housings with sleeves
- Pipe connections and tubes
- Sensors with cables

With the motor-driven press, a form-fitting connection can be produced under axial force for high tensile strength, torsional strength or sealing.

A typical application is, for example, pressing cable connections into sensor housings using a mechanical press instead of manual assembly. In addition, components such as tubes with sleeves or sensors with cables can be joined quickly and safely. Wall thicknesses from 1.2 mm up to approx. 1.8 mm can be processed, depending on the material.

The SF25 compact is a special design based on the proven SegmentFormer platform, which is tailored to the requirements of the above-mentioned applications. Possible applications include the production of pressure-tight components in the automotive sector, as well as in medical technology, laboratory equipment, robot covers and pick-and-place grippers.

Machine design

The machine is easy to operate. The workpiece to be formed is inserted into the machining opening and positioned using a stop. During the forming process, the workpiece is moved axially into the tool. The process parameters for machining can be stored in the machine control and managed as recipes. The operation is simple and logical. All functional processes are electronically monitored and the data is recorded for process tracking.

The machine can also be equipped with a separate feed system.

This ensures high process reliability and reproducible quality.

Basic machine

- Basic module with mounting points for all functional components consisting of base frame with servo motor, gearbox and encoder
- Tool holder with interchangeable die set
- Variant 1: Mechanical die actuation for wall thicknesses up to 1.0 mm
- Variant 2: Motorised die actuation for wall thicknesses from 1.0 mm to approx. 2.0 mm
- Tools (forming tools, flat tools or round presses), various designs possible

Safety equipment (when used as a stand-alone machine)

- Covering of the drive mechanism
- Workpiece area secured by protective door or light curtain
- Front protection with emergency stop and two-hand operation for fast tool change (when enabled)
- Front-side protection can be crossed with light curtain
- Emergency stop immediately stops all movements

Control system / Software

- Siemens S7-1200 control with TIA Portal V13 and touch panel (e.g. SIMATIC Comfort 7")
- Recipe management for process parameters
- Database for product-specific parameters
- Three access levels for machine control (operator, service and administrator)
- Multilingual user interface: German and English, additional languages available on request

- Control cabinet integrated in the frame

Frame

- Mounting of all machine components
- Welded steel construction with 4 swivel castors, 2 of them with locking brake
- Optional aluminium system profile design

Machine documentation

- Documentation, risk analysis, CE marking

Optional components / Add-ons for the SF25 compact pressing machine

The standard SegmentFormer SF25 compact can be equipped with various optional add-ons and functions. This allows, for example, the machine to be integrated into a semi-automatic press or a process monitoring system.

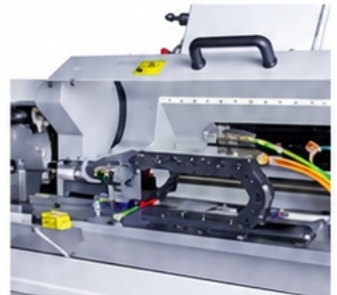
Manual positioning

- Positioning stop manually adjustable via handwheel
- Multiple positions per tool possible
- Position recorded via encoder display and showing actual position
- Component position detected via position switch or sensor
- Machine operated automatically or via foot switch



Motorised positioning

- Freely programmable positioning sequence (max. 30 positions per data set)
- Several press positions can be stored in one data set
- Selection and movement to the desired position via the control system
- Position displayed on the operator panel
- Component position detected via position switch or sensor
- Machine operated automatically or via foot switch



Force-Displacement Monitoring

- Integrated force sensor in the crank mechanism detects the applied force
- Graphical display of the force curve on a separate measuring device
- I.O. and N.I.O. evaluation





Height-adjustable frame

- Table top mounted on height-adjustable columns
- Height adjustment up to 300 mm
- 4 swivel castors, 2 with locking brake



Light curtain

- Securing the free access to the working area of the SegmentFormer
- With muting function
- Retrofit possible

Special designs

- Customization of the machine according to customer requirements
- Integration of the machine into complete production systems possible
- Further options available on request

Technical data

SF25 compact pressing machine

Dimensions	Standard	670 x 600 x 250 mm (LxWxH)
Tooling data	Number of forming jaws	6 / 8 / 12 / 16
	Forming jaws	Hardened
	Possible pressure diameters	3 – 25 mm
	Possible wall thicknesses	0.2 – 1 mm, depending on material
	Max. stroke length	Up to 20 mm
Power supply	3 x L / PE 400 V / 50 Hz	
Rated power	3 kVA	
Current	8.2 A	
Fuse protection	Max. 16 A	
Compressed air connection	5 x 2.5 mm	
Compressed air	Not required	
Weight	Approx. 250 kg	
Repeatability	± 0.05 mm	
Cycle time	Approx. 3 – 8 sec.	

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SEGMENT FORMER

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SF25

open

Pressing Machine

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Pressing machine SF25 open

The SF25 open pressing machine – SegmentFormer – is a compact solution for pressing / flanging rotationally symmetrical components with continuous outer diameters, such as:

- Cables in cable connectors
- Sensors with cylindrical mounting features
- Hoses and tubes with flanges in various diameters
- Step pipes and tubes

Using the motor-driven press, a form-fitting connection can be produced under axial force for improved tensile strength, torsional strength or sealing.

For manufacturers of rotationally symmetrical components, the SegmentFormer SF25 open offers a high degree of flexibility, can be integrated into various systems and used in numerous applications – efficiently, economically and reliably.

A typical application is, for example, pressing cable connections into sensor housings using a mechanical press instead of manual assembly. In addition, components such as tubes with sleeves or sensors with cables can be joined quickly and safely. Wall thicknesses from 0.2 mm up to a diameter of 25 mm can be processed, depending on the material.

Machine design

The machine is easy to operate. The workpiece to be formed is inserted into the machining opening. In this special open design, the workpiece can be positioned freely and is moved axially into the tool during the forming process. The process parameters for machining can be stored in the machine control and managed as recipes. The operation is simple and logical. All functional processes are electronically monitored and the data is recorded for process tracking. This ensures high process reliability and reproducible quality.

Basic machine

- Basic module with mounting points for all functional components consisting of base frame with servo motor, gearbox and encoder
- Forming tool with interchangeable die set
- Various tools (forming tools, flat tools or round presses), different designs possible

Safety equipment

- Covering of the drive mechanism
- Working area secured by protective door or light curtain
- Front protection with emergency stop and two-hand operation for fast tool change (when enabled)
- Front-side protection can be crossed with light curtain
- Emergency stop immediately stops all movements

Control system / Software

- VIPA Speed7 SPS with operator panel Siemens TP700 comfort, S7 and TIA-Portal V13
- Recipe management for process parameters
- Database for product-specific parameters
- Three access levels for machine control (operator, service and administrator)
- Multilingual user interface: German and English, additional languages available on request
- Control cabinet integrated in the frame

Frame

- Mounting of all machine components
- Welded steel construction with 4 swivel castors, 2 of them with locking brake
- Optional aluminium system profile design

Machine documentation

- Documentation, risk analysis, CE marking

Optional components / Add-ons

The standard SegmentFormer SF25 open can be equipped with various optional add-ons and functions. This allows, for example, the machine to be integrated into a semi-automatic press or a process monitoring system.

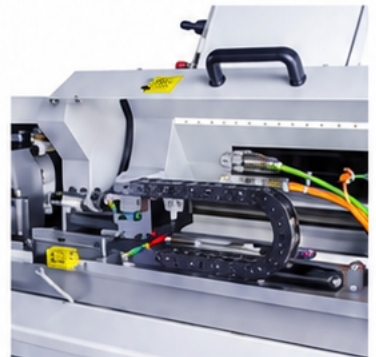
Manual positioning

- Positioning stop manually adjustable via handwheel
- Multiple positions per tool possible
- Position recorded via encoder display and actual position shown
- Component position detected via position switch or sensor
- Machine operated automatically or via foot switch



Motorised positioning

- Freely programmable positioning sequence (max. 50 positions per data set)
- Several press positions can be stored in one data set
- Selection and movement to the desired position via the control system
- Position displayed on the operator panel
- Component position detected via position switch or sensor
- Machine operated automatically or via foot switch



Force-Displacement Monitoring

- Integrated force sensor in the crank mechanism detects the applied force
- Graphical display of the force curve on a separate measuring device
- I.O. and N.I.O. evaluation



Height-adjustable frame

- Table top mounted on height-adjustable columns
- Height adjustment up to 300 mm
- 4 swivel castors, 2 with locking brake



Light curtain

- Securing the free access to the working area of the SegmentFormer
- With muting function
- Retrofit possible

Special designs

- Customization of the machine according to customer requirements
- Integration of the machine into complete production systems possible
- Further alternatives available on request

Technical data

SF25 open pressing machine

Dimensions	Standard	1,000 x 1,000 x 1,400 mm (LxWxH)
Tooling data	Number of forming jaws	6 / 8
	Forming jaws	Hardened
	Possible pressure diameters	3 – 25 mm
	Max. stroke length	Up to 30 mm
Power supply	3 x L / PE 400 V / 50 Hz	
Rated power	3 kVA	
Current	8.2 A	
Fuse protection	Max. 16 A	
Compressed air connection	5 x 2.5 mm	
Compressed air	Not required	
Weight	Approx. 350 kg	
Repeatability	± 0.05 mm	
Cycle time	Approx. 3 – 8 sec.	

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ROLLING FORMER

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RF25

Rolling Former

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Rolling machine RF25

The RF25 rolling machine – RollerFormer – is specially designed for rolling / forming rotationally symmetrical components such as:

- Rolls on tubes and cables
- Rolls on hoses and hoses with flanges
- Rolls on thin-walled tubes
- Rolls on sensor housings with cable

With the RF25 rolling machine, you can create form-fit connections under axial force, e.g. for improved tensile strength, torsional strength or sealing.

For manufacturers of rotationally symmetrical components, the RF25 RollerFormer offers a highly efficient, consistent further development of existing systems for rolling tubes, cables, sleeves and various components.

A typical application is, for example, rolling flanges onto sensor housings using a mechanical rolling process. With this method, components with wall thicknesses from 0.2 mm up to 3.0 mm and diameters from 3 mm to 25 mm can be processed, depending on the material.

Machine design

The rolling machine is easy to operate. The workpiece to be formed is inserted into the machining opening. In most cases, a separate clamping device is used. A wide range of tooling systems are available, allowing the machine to be optimally adapted to the respective workpiece. The process parameters for rolling are stored in the machine control and managed as recipes. All functional processes are electronically monitored and the data is recorded for process tracking. This ensures high process reliability and reproducible quality.

Basic machine

- Basic module with mounting points for all functional components consisting of base frame with servo motor, gearbox and main spindle
- Rolling tool in various designs available
- Version 1: 3 roll stations for application-specific rolling tools, wall thickness 0.5 – 3.0 mm
- Version 2: 1 roll station for application-specific rolling tools with 1 counter support, wall thickness 0.5 – 4.0 mm

Safety equipment

- Rolling area covered by protective housing
- Front protection with safety door
- Additional light curtain possible for fast loading
- Emergency stop immediately stops all movements

Control system / Software

- Siemens S7 CPU with operator panel Siemens TP700 comfort, S7 and TIA-Portal V13
- Recipe management for process parameters
- Database for product-specific parameters
- Three access levels for machine control (operator, service and administrator)
- Multilingual user interface: German and English, additional languages available on request
- Control cabinet integrated in the frame

Frame

- Mounting of all machine components
- Welded steel construction with 4 swivel castors, 2 of them with locking brake
- Optional aluminium system profile design

Machine documentation

- Documentation, risk analysis, CE marking

Optional Components / Attachments

The standard Rolling Former RF25 can be equipped with various optional attachments and functions. This allows the machine to be adapted to specific customer requirements for roller sets and process monitoring, for example.

Configurations – RF25

Manual Positioning of the Clamping Unit

- Manual spindle adjustment for positioning the clamping module. Drive via handwheel and trapezoidal spindle. Position display via scale.
- For small workpieces and when clamping force monitoring is not required.
- Clamping modules can be exchanged quickly.



Motorized Positioning of the Clamping Unit

- Motorized adjustment of the clamping module position. Drive via servo motor and trapezoidal spindle.
- For larger workpieces and when clamping force monitoring is required.
- Clamping modules can be exchanged quickly.
- Limit switches can be integrated into the roller arrangement to monitor the roll position in the workpiece.



Height-Adjustable Frame

- Workpiece support on height-adjustable columns.
- Height adjustment up to 200 mm.
- 4 swivel castors, 2 with parking brake.



Light Curtain

- Safety cover with interlock for roller forming area
- Height adjustment
- Control cabinet on the machine

Special Designs

- Customized machine design according to customer requirements
- Integration of the machine into complete production lines possible
- Further options available on request

Technical Data

Rolling Machine Rolling Former RF25

Dimensions	Standard	1,000 x 1,000 x 1,400 mm (L x W x H)
Number of workstations	Roller sets	1 / 3
	Roller design	Hardened
	Possible workpiece diameter	3 – 25 mm
	Max. roller width	Up to 5 mm
	Possible material thickness	0.2 – 2 mm
Power supply	3/N/PE 50 Hz / 400 V / 230 V	
Power consumption	3 kVA	
Current	6.2 A	
Control voltage	Max. 10 A	
Compressed air supply	6 – 8 bar	
Connection	CEE industrial plug	
Weight	Approx. 300 kg	
Noise level	< 80 dB(A)	
Cycle time	Approx. 4 – 6 sec.	Depending on component and roller set

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ROLLING FORMER

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Rolling Machine RF50

The Rolling Former RF50 – a modular system – is especially designed for:

- Rolling of tubes and bars with flat surfaces
- Rolling of profiles with radii
- Rolling of profiles with multiple radii
- Rolling of sensor and cable profiles

With the RF50 we offer you a versatile solution for a wide range of applications in producing rotationally symmetrical profiles or components.

Compared to conventional manufacturing methods, the RF50 enables a continuous and economical production of rolled profiles for tubes, bars, profiles, wires, cables and similar materials.

A typical application is the integration into automated production lines with robot handling. Handling systems for loading and unloading (e.g. Pick & Place) can be implemented easily. This allows the machine to run in fully automatic mode. Depending on the application, cycle times of approx. 2.2 seconds per component are achievable, with throughput rates of up to 1,800 parts per hour.

Machine Design

The design of the RF50 is very flexible. The workpiece to be formed is inserted into the clamping unit. A spindle, driven by a servomotor, rotates the workpiece. One or more rolling systems are positioned axially against the workpiece. The profile is formed by the rollers which roll into the material. The systems can be moved radially and axially as required and are individually controlled. The machine can accommodate different roller systems. Specific requirements, different workpiece variants and material properties can be realized with suitable configurations. This results in a high degree of process reliability and accurate reproducibility.

Base Machine

- Modular design for all functional components
- Rotational axis with servomotor for precise roll control

Safety Equipment

- Protective enclosure with safety interlock
- Emergency stop and safety controls

Control System / Software

- Siemens S7 CPU with operating panel Siemens TP700 Comfort, S7 and TIA Portal V19
- Database or recipe management (recipes can be stored)
- Available in German or other languages
- Remote maintenance for machine diagnostics (service, maintenance and administration)
- Integrated safety technology for fully automatic operation

Frame

- Made from aluminum profile system
- Table design, powder-coated
- 4 swivel casters, 2 with parking brake
- Optional machine feet

Machine Documentation

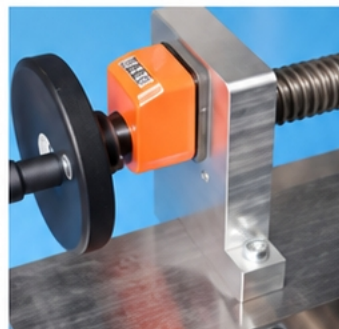
- Documentation, risk analysis, CE marking

Optional Components / Attachments

The standard Rolling Former RF50 can be equipped with various optional attachments and functions. This allows the machine to be extended, for example, to a semi-automatic rolling system with process monitoring.

Manual Positioning of the Clamping Unit

- Manual linear adjustment for clamping unit
- Drive via handwheel and trapezoidal spindle
- The workpiece is clamped using the standard clamping device
- Clamping geometry can be adapted to the workpiece



Motorized Positioning of the Clamping Unit

- Motorized linear adjustment for clamping unit
- Servo motor and trapezoidal spindle drive
- Standard clamping device for workpiece clamping
- Clamping geometry can be adapted to the workpiece
- Axis positions in the rolling process can be programmed and referenced to the workpiece



Height-Adjustable Frame

- Machine table mounted on height-adjustable columns
- Height adjustability up to 300 mm
- 4 swivel castors, 2 with parking brake



Special Designs

- Customized machine design according to customer requirements
- Integration of the machine into complete production lines possible
- Further options available on request

Technical Data

Rolling Machine RF50

Technical Data

Dimensions (L x W x H)		1,200 x 1,200 x 2,100 mm (LxWxH)
Tool data	Number of rollers	1 / 3
	Roller design	Hardened
	Possible roller diameter	10 – 50 mm
	Max. roller width	Up to 5 mm
	Possible wall thickness	0.2 – 2 mm
Power supply		3 x L / PE 400 V / 50 Hz
Power consumption		3 kVA
Current		8.2 A
Fuse protection		Max. 16 A
Cable cross-section		5 x 2.5 mm ²
Compressed air		Not required
Weight		Approx. 950 kg
Working height		1,065 mm
Cycle time		Approx. 4 – 6 sec. Depending on diameter and number of rollers

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ROTARY SWAGING MACHINE

FICHTER
formtec GmbH

RK25

Rotary Swaging Machine

For the precise
processing of
rotationally symmetric
components.

Precise.
Flexible.
Reliable.



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Rotary Swaging Machine RK25

The RK25 rotary swaging machine is especially designed for:

- Swaging, calibrating and round forming of tube ends
- Swaging, calibrating and round forming of solid rods

With the RK25, reliable joint connections can be produced between two components, resulting in improved positional accuracy or tightness.

For manufacturers of rotationally symmetrical components, the RK25 rotary swaging machine enables the consistent further development of existing systems for swaging tubes, rods, shafts, sleeves, fittings and many other applications.

A typical application is, for example, the mechanical joining of connections in sensor housings to protect them from being pulled out and to seal them at the same time (IP67 possible). In addition, different wall thicknesses can be joined, and wall thicknesses from 0.8 mm to 12 mm can be processed with a diameter range of 3 mm to 25 mm, depending on the material.

Machine Design

The operation of the rotary swaging machine is very simple. The workpiece to be formed is inserted into the processing station and clamped manually or using a gripper.

When the cycle starts, the forming tool automatically advances onto the workpiece. After the process is completed, the tool retracts to a predefined position and the finished workpiece can be removed. The process parameters correspond to the adjustable forming diameter.

The relevant parameters for the forming process can be set easily and conveniently via the machine control system. The user interface is designed to be clear and easy to operate. All process-related data is stored electronically and can be called up via the control system. This ensures a high level of process reliability and reproducibility.

Basic Machine

- Base frame for mounting all functional components
- Main drive with integrated assembly block
- Servo-driven axes for radial feed of the forming tools (CNC axes)
- Ball screw spindle with nut and double bearing. Adapted bearing arrangement for optimum guidance of the tool
- Hydraulic unit mounted in the base frame for actuation of the tool holder
- Electrical cabinet with electrical components, control and operator panel
- Cooling unit as standard
- Drives via servo motors, controlled and monitored by the machine control system

Positioning Unit: Clamping Chuck or Gripper

- Manual clamping chuck for securing the workpiece. Drive via hand crank and trapezoidal threaded spindle TR30x6. Positioning via scale
- Motorized clamping chuck for securing the workpiece. Drive via servo motor and trapezoidal threaded spindle TR30x6

Clamping Chin Module

- Servo-driven forming slide for incremental positioning at the defined forming diameter
- Standard clamping jaw geometry for round workpieces
- Clamping jaw geometry can be adapted to the workpiece
- Switchable to hexagon or special geometry by replacing the clamping jaws
- Connection to tool holder via T-slot
- Cooling system for the machine available

Gripper Module

- Electrical connection for positioning unit mounted
- Standard clamping jaw or special jaw geometry can be used
- Position of the clamping jaws can be adjusted via stop
- Connection to tool holder via T-slot
- Clamping force can be set via motor

Safety Equipment

- Safety enclosure completely enclosed, with safety switch. Easy access for quick tool change is ensured
- Two-hand safety device or light curtain (optional)
- Signal lamp with three colours (green, yellow, red) to indicate the operating status
- Emergency stop immediately stops all movements

Control / Software

- Siemens S7 CPU with operator panel Siemens TP700 comfort, S7 and TIA Portal V13
- User-friendly and clear operator interface (optional with barcode scanner)
- Storage of product-specific parameters
- Three access levels for machine control (operator, service and administrator)
- Multilingual interface, standard languages German and English, further languages on request
- Control cabinet with air conditioning

Frame

- Mounting of all machine components
- Welded steel frame, machined and equipped with 4 swivel castors, 2 with parking brake
- Optional aluminium profile frame

Machine Documentation

- Documentation, risk analysis, CE marking

Optional Components / Extensions

The standard RK25 rotary swaging machine can be equipped with various optional components and functions. This allows, for example, the machine to be expanded to a semi-automatic system with process monitoring.

Manual Positioning Unit: Clamping Chuck or Gripper

- Manual clamping chuck with long clamping jaws for workpiece mounting.
Drive via hand crank and trapezoidal threaded spindle
- Positioning via scale
- Standard clamping chuck can be used for clamping the workpiece
- Clamping jaw geometry can be adapted to the workpiece



Motorized Positioning of Clamping Chuck or Gripper

- Motorized long-stroke clamping chuck for workpiece mounting.
- Drive via servo motor and trapezoidal threaded spindle.
- Standard clamping chuck can be used for clamping the workpiece.
- Clamping jaw geometry can be adapted to the workpiece.
- Up to three clamping positions can be programmed in the swaging process to form the workpiece in multiple steps.



Height-Adjustable Frame

- Machine table mounted on height-adjustable columns
- Height adjustment up to 300 mm
- 4 swivel casters, 2 with parking brake



Light Curtain

- Securing the access area to the rotary swaging machine
- With immediate stop function
- Customizable design

Special Designs

- Adaptation of the machine to customer requirements
- Integration of the machine into complete production systems possible
- Further options available on request

Technical Data

Rotary Swaging Machine RK25

Dimensions	Standard	1,600 x 1,000 x 1,400 mm (L x W x H)
Workpiece data	Number of clamping jaws	3
	Workpiece	Rotationally symmetrical
	Possible workpiece diameter	3 – 25 mm
	Max. wall thickness	Up to 15 mm
	Possible material thickness	0.2 – 1 mm
Power supply	3 x L / PE 400 V / 50 Hz	
Rated power	3 kVA	
Current	8.2 A	
Fuse	Max. 16 A	
Compressed air connection	5 x 2.5 mm ²	
Compressed air	Not required	
Weight	Approx. 260 kg	

CUTTING MACHINE

FICHTER
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RS25

Cutting Machine

For precise and
burr-free cutting
of rotationally
symmetric
components.

Precise.
Flexibel.
Reliable.



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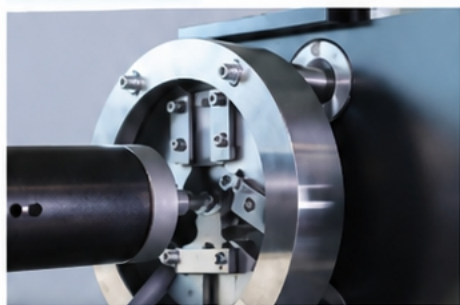
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Efficient and Precise: The Chipless Cutting Machine RS25

The chipless cutting machine RS25 is a high-performance system for the material-saving and precise separation of tubes and solid rods. It has been developed for industrial applications where both clean cuts and short cycle times are required. The machine enables burr-free and dimensionally accurate cutting of a wide range of materials and diameters. Thanks to its robust design and sophisticated special functions, the RS25 is particularly suitable for demanding production environments.

Whether for single-part production or fully automated series production – the RS25 delivers consistent quality, high process reliability and stable cycle times. This makes it an economical and sustainable solution for a wide range of applications.

Cutting without material loss with the RS25

The RS25 cutting machine combines innovative cutting technology with a process that separates the workpiece without material loss. The cut-off part remains usable and can be used directly. This increases material efficiency and reduces costs.

Technical Specifications

The RS25 cutting machine is characterized by a range of technical features that make it a powerful, durable and reliable cutting system:

- **Working range:** Designed for a wide range of applications and adaptable to different material dimensions.
- **Cutting quality:** Burr-free and precise cuts, ideal for subsequent processing steps. Workpieces can be used directly, which is particularly advantageous in automated production processes.
- **Low maintenance:** Robust components and a well thought-out design ensure a long service life and low maintenance requirements.

Wide Range of Material Options

The RS25 cutting machine is extremely flexible and suitable for a wide variety of materials. In addition to metals such as aluminium, steel, copper and stainless steel, special plastics can also be processed, making it ideal for industries with complex material requirements.

Basic Machine

- Base frame for mounting all functional components, including preparations for 3 servo motors, ball screw spindle and main spindle
- Motorized and variable rotary feed
- Version 1: 3-part tool holder, width 3.5 mm or 9 mm
- Version 2: 1-part tool holder with 1 counterholder, width 6.5 mm or 9 mm

Positioning Unit

- Automatic adjustment of the stroke (eccentric) with servo motor and gear unit

Safety Equipment

- Enclosure of the working area
- Safety light curtain secured by a protective housing
- Two-hand safety device adapted to the machine design
- Emergency stop immediately stops all movements

Control / Software

- Siemens S7 CPU with operator panel Siemens TP700 comfort, S7 and TIA Portal V13
- User-friendly and clear operator interface (optional with barcode scanner)
- Storage of product-specific parameters
- Three access levels for machine control (operator, service and administrator)
- Multilingual interface, standard languages German and English, further languages on request
- Control cabinet with air conditioning

Frame

- Mounting of all machine components
- Welded steel frame, machined and equipped with 4 swivel casters, 2 with parking brake
- Optional aluminum profile frame

Machine Documentation

- Documentation, risk analysis, CE marking

Typical Applications of the Chipless Cutting Machine

The cutting machine is particularly suitable for chipless separation of tubular components, for cutting to length of plastic tubes, for cutting cable conduits and for separating solid rods. Typical applications of the RS25 include the chipless separation of tubes and rods made of different materials. Workpieces with a length of 0.1 mm to several meters and diameters from 3 mm to 25 mm can be processed.

Height-Adjustable Frame

- Machine table mounted on height-adjustable columns
- Height adjustment up to 300 mm
- 4 swivel casters, 2 with parking brake



Light Curtain

- Securing the access area to the cutting machine
- With immediate stop function
- Customizable design

Special Designs

- Adaptation of the machine to customer requirements
- Integration of the machine into complete production systems possible
- Further options available on request

Technical Data

Chipless Cutting Machine RS25

Dimensions	Standard	1,000 x 1,000 x 1,400 mm (L x W x H)
Workpiece data	Number of clamping jaws	1 / 3
	Spindles	Hardened
	Possible tube diameter	3 – 25 mm
	Possible material thickness	0.2 – 1 mm
Power supply	3 x L / PE 400 V / 50 Hz	
Rated power	3 kVA	
Current	8.2 A	
Fuse	Max. 16 A	
Compressed air connection	5 x 2.5 mm ²	
Compressed air	Not required	
Weight	Approx. 260 kg	

Flanging Machine

For precise and
reliable, tight
connections –
durable and
process-safe.

Precise.
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Flanging Machine – for tight connections

The flanging machine forms a flange on metal tubes by cold forming. The end of the tube is precisely shaped to create a defined collar. This produces a stable and tight connection for a wide range of applications, e.g. in the automotive, heating and refrigeration industries.

Modern flanging machines are specifically designed for industrial production processes and offer high precision and repeatability. Thanks to their robust design, they are ideal for continuous operation and can easily be integrated into existing production lines.

Our flanging machine combines proven technology with innovative functions to meet the high demands of modern production – with maximum performance and efficiency.



Technical Specifications of the Flanging Machine

The tube diameter of the tube to be flanged is defined by the outer diameter of the workpiece and the geometrical design of the flange. With the flanging process, the tube end is formed into a collar that provides a precise fit with mating components. The process can be used for a wide range of materials, including steel, stainless steel, aluminum and copper. Individual solutions for special applications, such as varying flange geometries or specific functional requirements, can also be realized.

Flanging machines are primarily used in the automotive and supplier industry as well as in heating and refrigeration technology. Typical applications include the production of tube connections for fluid and gas lines, pressure-tight connections or mounting elements. The process is characterized by short cycle times, high dimensional accuracy and a consistently high component quality. In addition, the flanging machine can be integrated into automated production lines, ensuring an efficient and economical manufacturing process.

Precise and Consistent Results thanks to Solid Control



The flanging process ensures consistent forming of the workpiece, with the material being shaped plastically without material loss. Various flange geometries can be realized depending on the application. High process reliability and stable results make the flanging machine the ideal solution for precise and durable connections with low reject rates.

Suitable Materials for the Flanging Process

A wide range of materials can be processed by flanging, especially materials that can be plastically deformed without cracking or breaking. The material properties, such as strength, ductility and hardness, have a significant influence on the flanging result.

- **Steel:** Robust and versatile, ideal for mechanical components
- **Copper:** Excellent formability, frequently used in HVAC, refrigeration and electrical applications

Typical Applications of the Flanging Machine



The flanging machine is particularly suitable for flanging tubes according to **DIN 74234** or **SAE**. This creates a special form of **mechanical connection**, in which the end of a tube is precisely formed into a collar. This technology is widely used in industrial manufacturing, for example in the automotive industry, HVAC and refrigeration technology, as well as in fluid and gas systems. Typical applications include the flanging of tubes for brake lines, fuel lines, hydraulic lines or mounting elements. The flanging process enables a stable and durable connection without additional components (e.g. welding or soldering), which results in high process reliability and tightness.

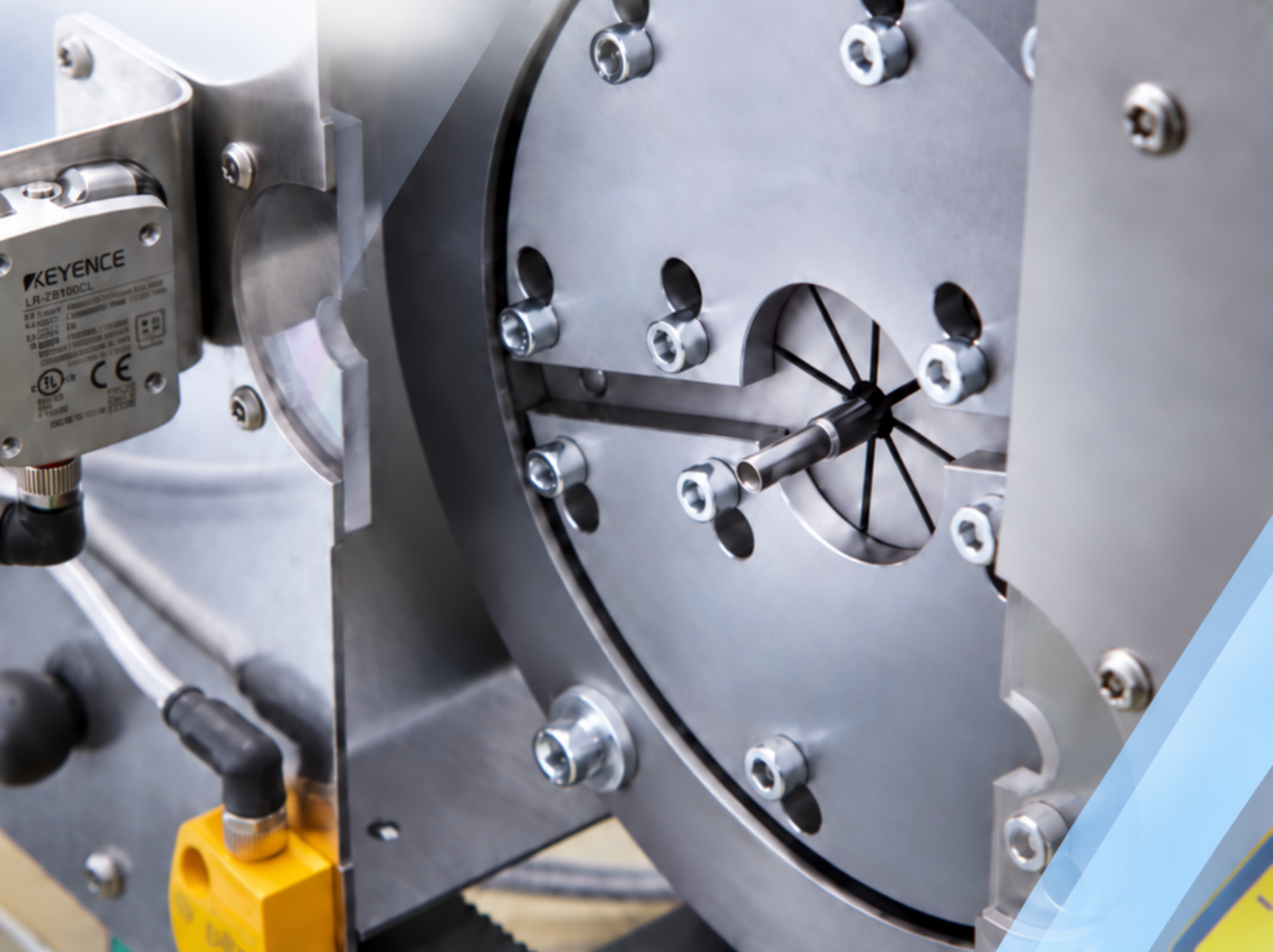
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PRECISE.
FLEXIBLE.
RELIABLE.

Machines for chipless forming
and processing operations.



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