# THE SOLUTION FOR TUBES

transfluid
The solution for tubes.

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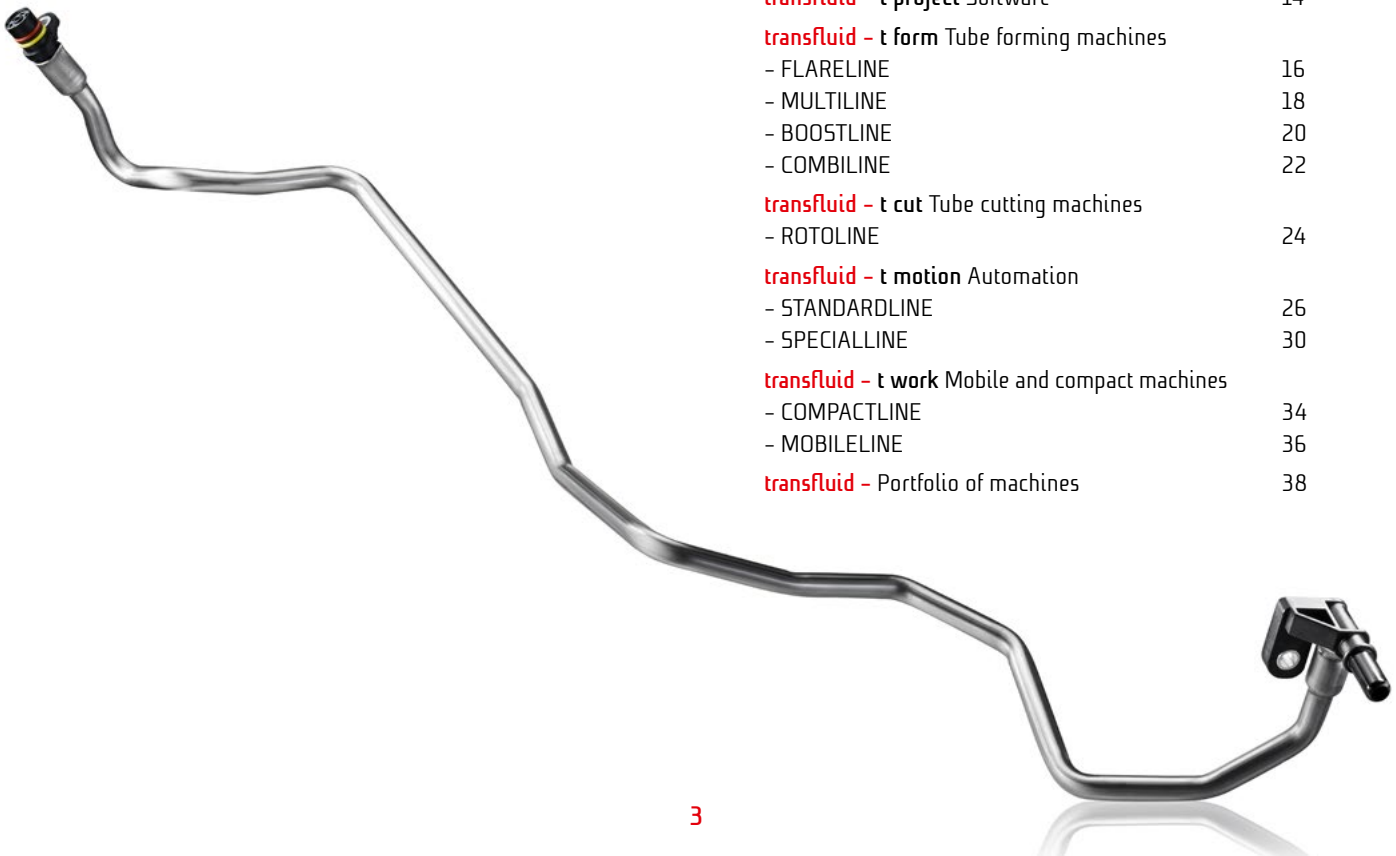
The solution for tubes.

# WE HAVE THE RIGHT SOLUTION

With transfluid, you bring technological excellence to your production. Our solutions, services, and systems are designed to meet exactly what you need to manufacture at a world-class level. For your requirements and even more complex challenges. Whether producing a single part or large-scale series with consistently high quality. With customised high-tech developments or our powerful standard machines, transfluid has the solution to advance your ideas.

## CONTENTS





# *POWER*LINE

## MAXIMUM STABILITY
## FULL CONTROL


## SERVO-HYDRAULIC CNC MANDREL BENDING MACHINES

### t bend *POWER*LINE for performance and stability.

The **t bend** *POWER*LINE CNC tube bending machines take bending performance to a completely new level – developed to meet the highest demands in industrial tube processing.

With efficient servo-hydraulic drive technology and an extremely robust design, they deliver maximum bending performance – reliably, precisely and economically.

### Your benefits at a glance:

- **Powerful and precise** – solid construction and outstanding rigidity
- **Simple and fast** – short set-up times and fast operator training
- **Durable** – robust design, durable tools, optimized maintenance
- **Economical** – excellent price-performance ratio

Whether it is tubes with large dimensions or delicate components: the **t bend** *POWER*LINE masters tube diameters from 6 to 330 mm with outstanding stability. Thanks to digital control, fast set-up processes and optional software connection, you can go straight into automated production – efficient, safe and forward-looking.

The nine available machine sizes give you maximum flexibility for any production strategy. The simple operation means quick training, creates autonomy and ensures smooth processes over the long term.

## WHAT MAKES IT SPECIAL?

**Robust construction and optimized equipment**
Solid welded machine structure, quick-change tools, bayonet locks, multiple bending levels (multi-stage bending), bending mandrels of various materials, forming tools, wiper dies, etc. ensure versatility and durability.

**Efficiency and cost benefits**
Short set-up times thanks to swivelling bridges, tool racks and optimised clamping technology. The set-up processes are optimized for speed and simplicity, from the smallest to the largest machine.

**t bend *POWER*LINE – uncompromisingly strong, unbeatably efficient.**

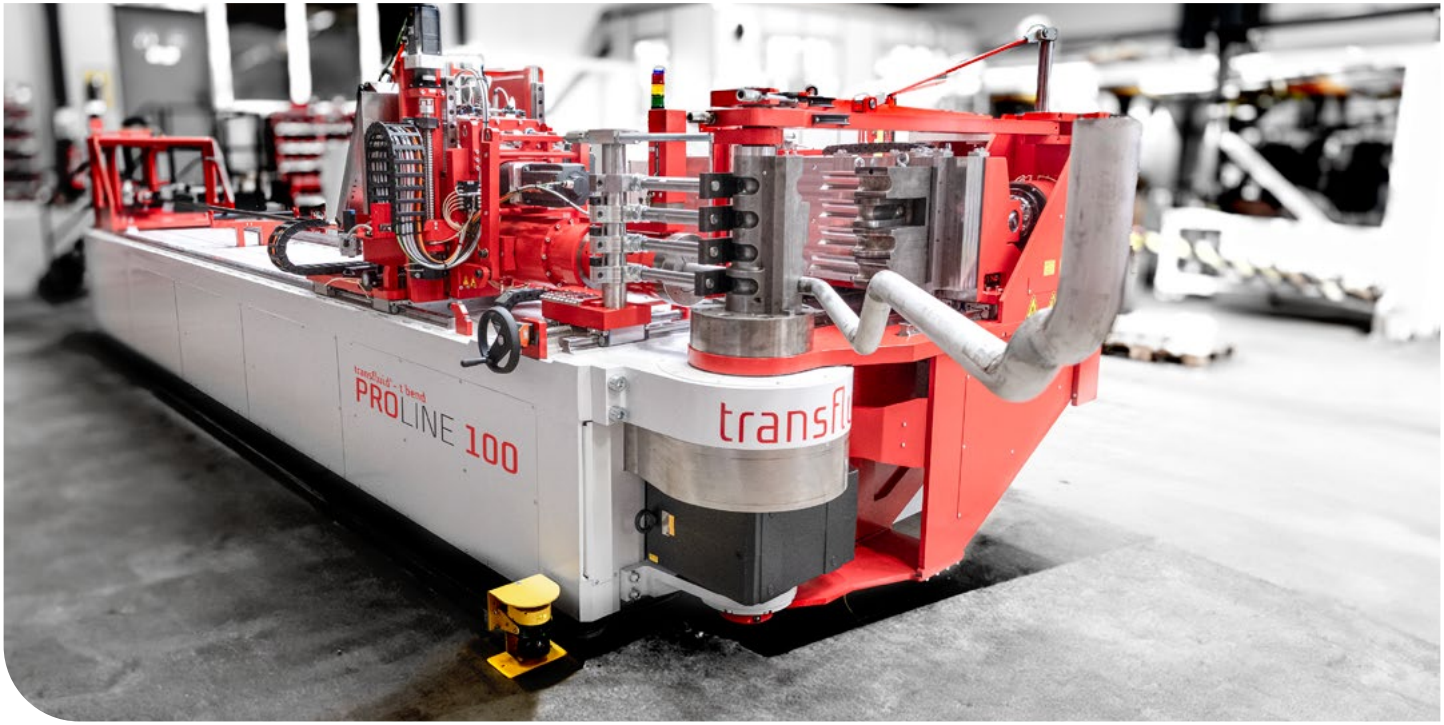
## t bend *POWER*LINE MACHINE SIZES

| Model | Tube-ø | Max. Radius |
|---|---|---|
| POWERLINE 42 | 6 - 42 mm | 126 mm |
| POWERLINE 60 | 6 - 60 mm | 180 mm |
| POWERLINE 90 | 6 - 88,9 mm | 270 mm |
| POWERLINE 120 | 20 - 120 mm | 360 mm |
| POWERLINE 140 | 40 - 140 mm | 420 mm |
| POWERLINE 170 | 40 - 170 mm | 510 mm |
| POWERLINE 220 | 40 - 220 mm | 700 mm |
| POWERLINE 273 | 60 - 273 mm | 820 mm |
| POWERLINE 330 | 80 - 330 mm | 975 mm |


watch the movie

# PROLINE

## PRECISION AND SPEED IN PERFECT BALANCE




### SERVO-ELECTRIC CNC MANDREL BENDING MACHINES

**t bend *PRO*LINE for dynamism and efficiency.**

The **t bend** ***PRO***LINE is the all-electric answer to the highest demands in tube processing.

With 100% servo-electric technology, it combines dynamics, precision and energy efficiency. All axes can be individually programmed, collisions are prevented and cycle times are optimised – for maximum performance with minimum energy consumption.

**Your benefits at a glance:**

- **Powerful** – synchronously programmable electric axes for optimal cycle times
- **Flexible** – different radii and the most complex tube geometries thanks to several bending planes with automatic level change
- **Digital** – project management and CAD connection for end-to-end planning
- **Future-proof** – Predictive Control for predictive service and maximum system availability

Whether tube diameters from 6 to 150 mm or complex geometries with several radii: the **t bend** *PRO*LINE delivers reproducible results at the highest level. It processes round, oval, square and rectangular profiles and impresses with its rigidity, robustness and speed.

With the **t bend** *PRO*LINE, you are investing in top technological quality. These bending machines are the ideal choice for fast, cost-efficient tube processing.

## WHAT MAKES IT SPECIAL?

**100% servo-electric technology**
All axes are electrically driven – quietly, precisely and with up to 70% less energy consumption.

**Maximum speed and precision**
High-speed bending axis with up to 300° per second and absolutely reproducible results – even with complex contours.

**Easy operation and fast set-up times**
The intuitive CNC control with graphical interface and automatic level change makes the machine particularly user-friendly.

**Can be automated with t motion**
Can be seamlessly integrated into production lines immediately or later – perfect for growing production requirements.

The **t bend** *PRO*LINE redefines speed: it combines high speed with ease of use and automation options.

Whether a single part or series, simple or complex contours – the **t bend** *PRO*LINE is the ideal solution for companies that want to use tomorrow's technologies today.

**t bend** *PRO*LINE **– High-speed bending without collisions, with maximum process reliability**

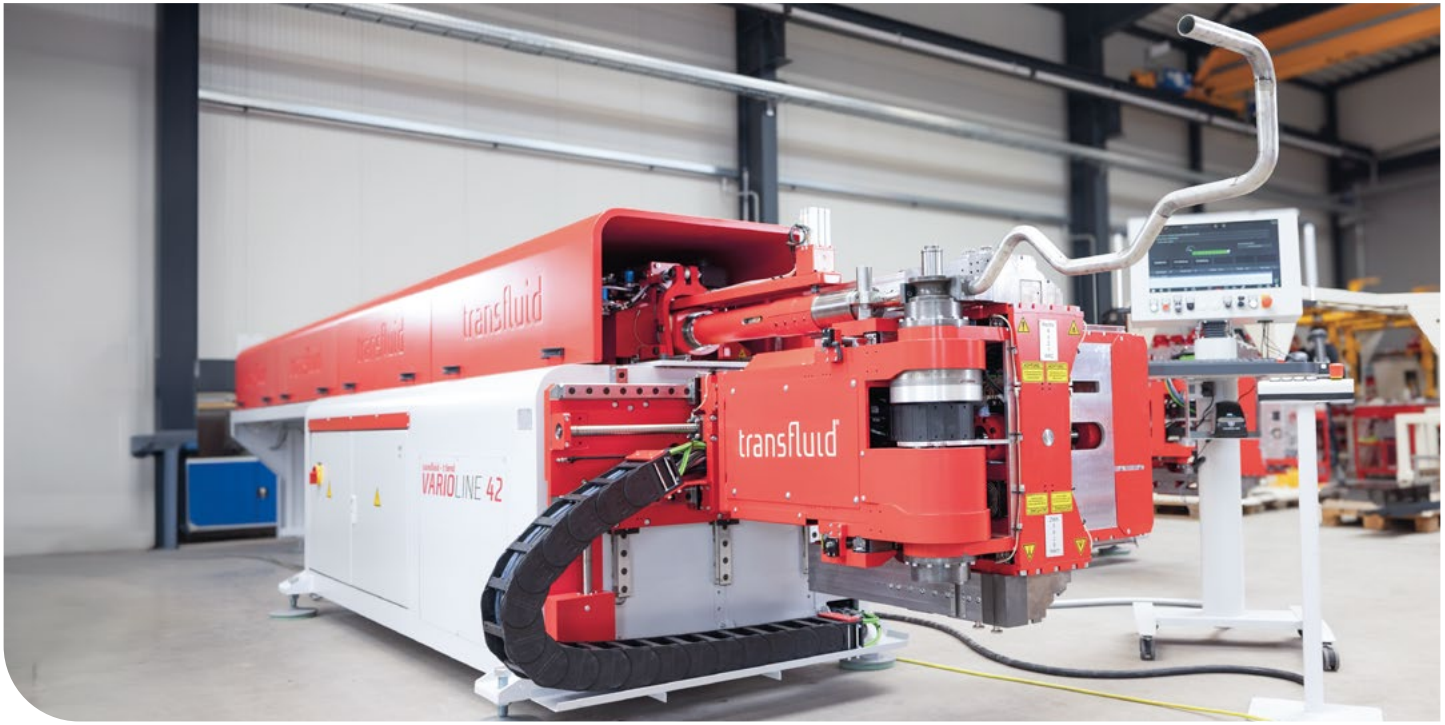
## t bend *PRO*LINE MACHINE SIZES

| Model | Tube-ø | Max. Radius |
|---|---|---|
| PROLINE 22 | 6 – 22 mm | 66 mm |
| PROLINE 30 | 6 – 30 mm | 90 mm |
| PROLINE 42 | 6 – 42 mm | 168 mm |
| PROLINE 50 | 6 – 50,8 mm | 150 mm |
| PROLINE 60 | 6 – 60 mm | 150 mm |
| PROLINE 80 | 6 – 80 mm | 240 mm |
| PROLINE 100 | 20 – 101,6 mm | 305 mm |
| PROLINE 130 | 20 – 127,3 mm | 390 mm |
| PROLINE 150 | 20 – 150 mm | 450 mm |


watch the movie

# VARIOLINE

## EVERYTHING IS POSSIBLE




### SERVO-ELECTRIC CNC MANDREL BENDING MACHINES 360° BENDING HEAD RIGHT/LEFT

### t bend *VARIO*LINE for flexibility and performance.

The **t bend** *VARIO*LINE opens up new dimensions in tube processing.

With servo-electric right/left bending technology, optional free-form function and fully automatic head change, it makes it possible to achieve even the most complex geometries with just one clamping – quickly, precisely and economically.

### Your benefits at a glance:

- **Versatile** – freely programmable right/left bending
- **Powerful** – synchronously electric axes for optimal cycle times
- **Flexible** – different radii and the most complex tube geometries thanks to several bending planes with automatic level change
- **Economical** – what used to be declined can now be produced efficiently in one clamping

Whether for the production of challenging individual pieces or high-precision series: the **t bend** *VARIOLINE* sets the standard when flexibility and productivity are required.

## WHAT MAKES IT SPECIAL?

**360° bending head**
Freely positionable, with horizontal and vertical axis, enabling right and left bending in a single operation.

**Multi-stage bending**
Multiple radii and tool planes for maximum geometry versatility.

**Servo-electric technology**
100% electric drives for up to 70% energy savings compared to hydraulic systems.

**Can be automated with t motion**
With its flexible automation capability, the **t bend** *VARIOLINE* fits seamlessly into modern manufacturing processes – as a stand-alone solution or as part of a complex production cell. It combines top performance at the highest level with simple operation, well thought-out features and a wide range of equipment options.

The **t bend** *VARIOLINE* is the solution for companies that accept no limits when it comes to bending technology. It combines cutting-edge technology, maximum flexibility and efficiency – making even the most demanding components feasible.

**t bend** *VARIOLINE* **– cutting-edge technology without limits.**

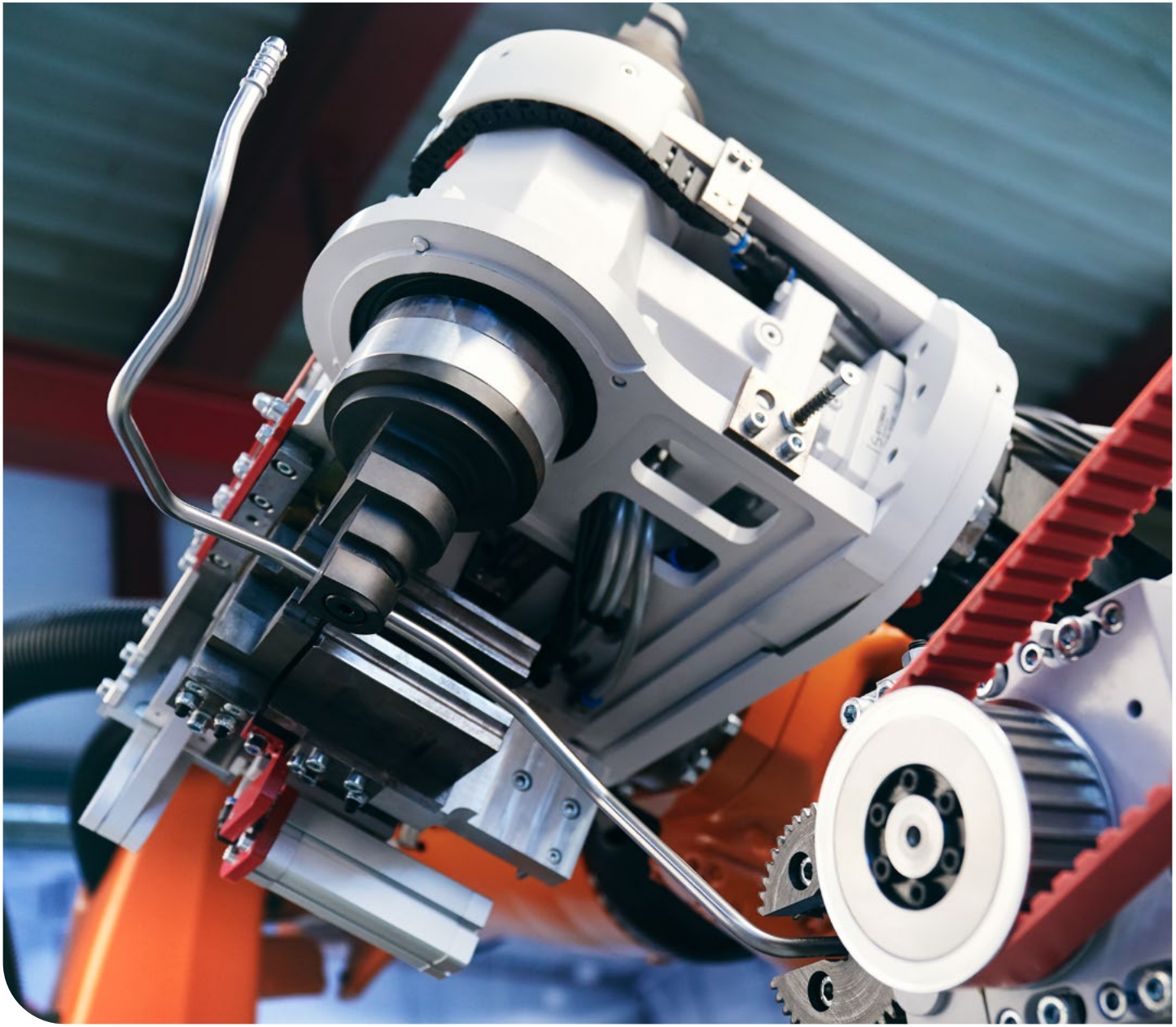
## t bend *VARIOLINE* MACHINE SIZES

| Model | Tube-ø | Max. Radius |
|---|---|---|
| VARIOLINE 22 | 6 - 22 mm | 66 mm |
| VARIOLINE 30 | 6 - 30 mm | 90 mm |
| VARIOLINE 42 | 6 - 42 mm | 168 mm |
| VARIOLINE 60 | 6 - 60 mm | 180 mm |


watch the movie

# ROBOLINE

## BENDING REDEFINED
## FAST AND VERSATILE



## ROBOTIC BENDING TECHNOLOGY

### t bend *ROBO*LINE – Automated. Flexible. Future-proof.

The **t bend** *ROBO*LINE combines state-of-the-art robot technology with innovative bending performance – especially designed for long, unstable tubes or busbars, which may also be fitted with additional components.

Whether it is complex geometries or variable quantities, the robot bends precisely and manages the handling at the same time. This system adapts to your production and takes it to a new level of efficiency.

#### WHAT MAKES IT SPECIAL?

**Robot and machine**
The robot manages handling and bending, even with long tubes or pre-assembled components.

**Scalable and modular**
From the single station to the production cell with several robot units that can operate alternately in parallel.

**t bend *ROBO*LINE – Bending redefined: fast and versatile.**

#### t bend *ROBO*LINE MACHINE SIZES

| Model | Tube-ø |
|---|---|
| ROBOLINE 18 | 6 – 18 mm |
| ROBOLINE 22 | 6 – 22 mm |

watch the movie

### Your benefits at a glance:

- **Seamless and process-optimized** – no additional handling required
- **Stable and reliable** – due to the bending on both sides, there are no vibrations in thin-walled long parts (automatically integrated elevation brackets stabilize this process)
- **Dynamic and versatile** – right and left bending with just one clamping, thanks to the robot head with can rotate in both directions

# BASIC- & OPTIONAL EQUIPMENT

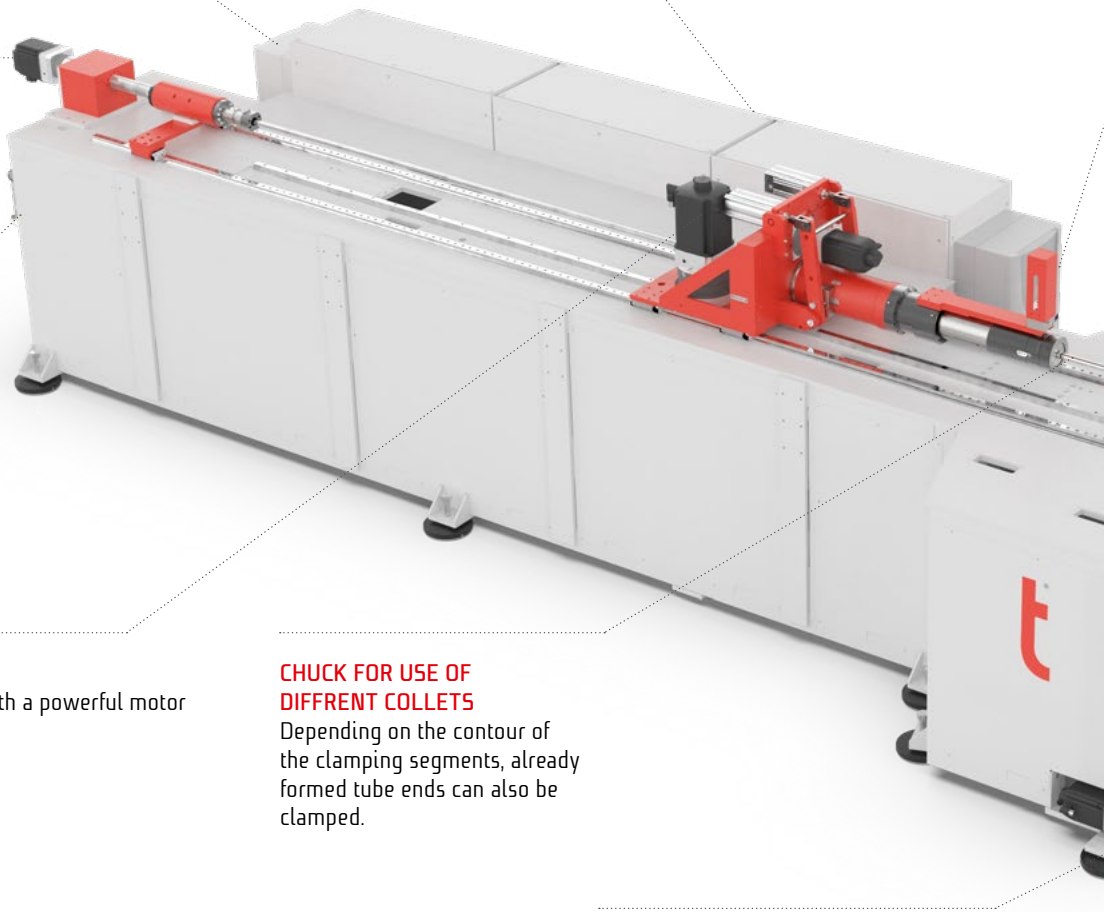
**AIR CONDITIONING**
Cools the electrical carbinet.

**MANDREL WITHDRAWAL**
Automatic and programmable mandrel positioning.

**AUTOMATIC MANDREL LUBRICATION**
Available for inside diameters as small as Ø 13.5 mm.

**BOOSTING FUNCTION**
The collet is equipped with a powerful motor for push bending.

**CONTROL UNIT**
The control unit is equipped with high-quality electronic components from leading suppliers.



**CHUCK FOR USE OF DIFFRENT COLLETS**
Depending on the contour of the clamping segments, already formed tube ends can also be clamped.

**DRIVES**
Servo-electric or servo-hydraulic drives – depending on the model – ensure powerful and precise bending processes.

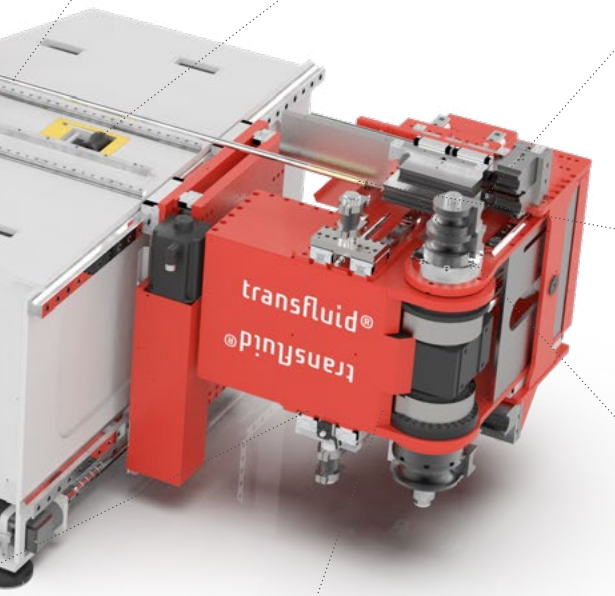
Illustration may show optional equipment. Scope and design depend on machine type and configuration.

# POWERLINE
# PROLINE
# VARIOLINE

**REPEATED GRIPPING**
For bending tubes exceeding the max. usable length of the machine.

**BENDING MANDRELS**
Available in different contours and materials.

**MANDREL SUPPORT**
Provides constant support for the mandrel and the tube.




**MULTILEVEL BENDING**
Each bending head can be equipped with multiple tool sets.

**BENDING OF END-FORMED TUBES**
Bending tools for tubes with already formed ends

**WIPER DIE**
Prevents the formation of wrinkles on the inside of the bend, which occur when the material exceeds its elastic limit and sets in the curve.

**ROTATING BENDING HEAD (ONLY VARIOLINE)**
Can be positioned horizontally and vertically including rotation axis for change of bending direction.

**HAND SCANNER**
for loading bending programs

**POWERFUL CONTROL UNIT**

# BENDINGSOFTWARE

## DIGITALLY PROGRAMMED


## NEXT-GENERATION SOFTWARE

Fewer process steps to the finished component: with the **t project** ***BENDING****SOFTWARE*, you have full control of all bending process variables even before production begins. Material-specific and collision-free, even complex bending geometries can be planned and implemented reliably.

Test virtually, save time in reality: the simulation determines exact bending times and cutting lengths and checks tube geometries for feasibility in advance. Tube data and results are documented precisely and are 100% reproducible.

All common interfaces are available for import, export, and seamless networking with MES or ERP systems.

### Your benefits at a glance:

- **Digital and smart** – complete mapping of the bending process from design to production
- **Clearly calculated** – precise cycle times already determined before production start
- **Efficiently programmed** – batch import, Easy-Teach, and intuitive operation for fast results
- **Seamlessly integrated** – open interfaces to CAD, ERP, and MES systems for Industry 4.0
- **Future-proof** – modularly expandable, upgrade-ready, and suitable for existing machines

Future-ready, powerful, smart: Our **t project** ***BENDING****SOFTWARE* for tube processing combines state-of-the-art technology with maximum user-friendliness.

It adapts seamlessly to your individual requirements and helps you design production processes that are safer, more precise, and more cost-efficient.

An intuitive user interface and a modern design ensure easy operation and a pleasant user experience. Compatibility with current operating systems guarantees maximum system performance.

Regular updates and reliable support ensure that **t project** ***BENDING****SOFTWARE* is continuously enhanced and always up to date.

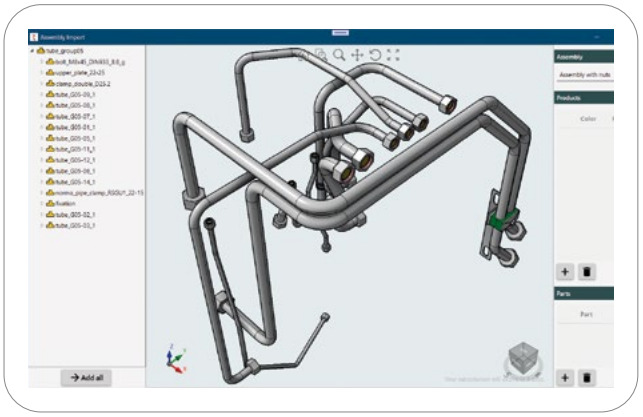
With innovative features and increased performance, **t project** ***BENDING****SOFTWARE* sets new standards for demanding, precise, and reliable bending processes.

## WHAT MAKES IT SPECIAL?

**Tube Manager**
The control center for smart tube processing. Developed for the highest demands in tube processing, the software combines modern design with intelligent functionality.

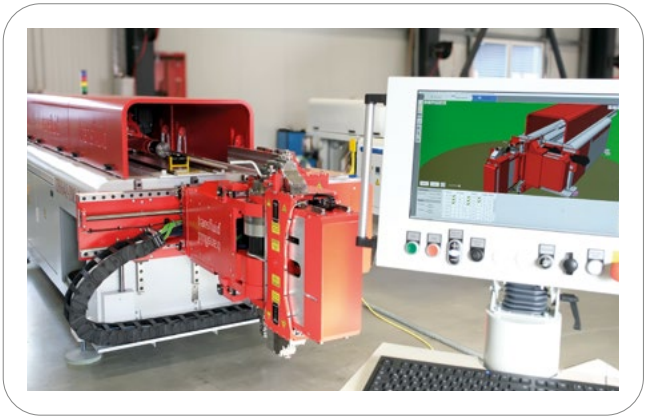
**Batch Import & Automatic Simulation**
Visualization of assemblies, including all components, for precise planning and control already in the design phase.

Automatic calculation, simulation, and optimization of the entire assembly—reliable, fast, and fully reproducible.



**Product Database**
Integrated product databases for managing complete tube assemblies, including visualization of drillings, forming, and nuts.

**Digital Twin**
Complete offline programming of all machine functions and highly complex components with integrated testing and error analysis—including special equipment, process optimization, and workflow simulation.



**Playback**
1:1 monitoring of the machine status—live or delayed.

**Predictive Maintenance**
Monitoring the condition and wear of individual machine groups to optimize maintenance intervals.

**Automatic Real-Time Cycle Time Analysis**
Fully automatic, precise determination of cycle times based on actual axis speeds directly from the machine PLC.

**t project** ***BENDING****SOFTWARE* **– Intelligent Software for smarter production.**

# FLARELINE

## QUICKLY TO THE PERFECT SHAPE

## t form *FLARE*LINE – Smooth. Tight. High quality.

The **t form** *FLARE*LINE uses a rotating forming principle that produces sealing surfaces of the highest surface quality – without any additional post-processing.

Even with different materials or geometries, the quality remains constant. This material-friendly forming process is particularly advantageous for tubing systems with dynamic loads and offers greater safety.

The **t form** *FLARE*LINE delivers connection quality at the highest level.

### WHAT MAKES IT SPECIAL?

**High flexibility**
Suitable for prototypes and series production.

**Cost advantages**
Less post-processing, fewer sources of error, higher profitability.

**Automatable**
Integration into production lines for constant process quality.

**t form** *FLARE*LINE **– Quickly in perfect shape.**

### t form *FLARE*LINE MACHINE SIZES

| Model | Tube-ø | Wall thickness max. | Cycle time |
|---|---|---|---|
| FLARELINE 28 | 6 – 28 mm | 2,5 mm | 4 – 10 Sec. |
| FLARELINE 42 | 6 – 42 mm | 4,0 mm | 4 – 15 Sec. |
| FLARELINE 115 | 30 – 115 mm | 4,0 mm | 10 – 45 Sec. |

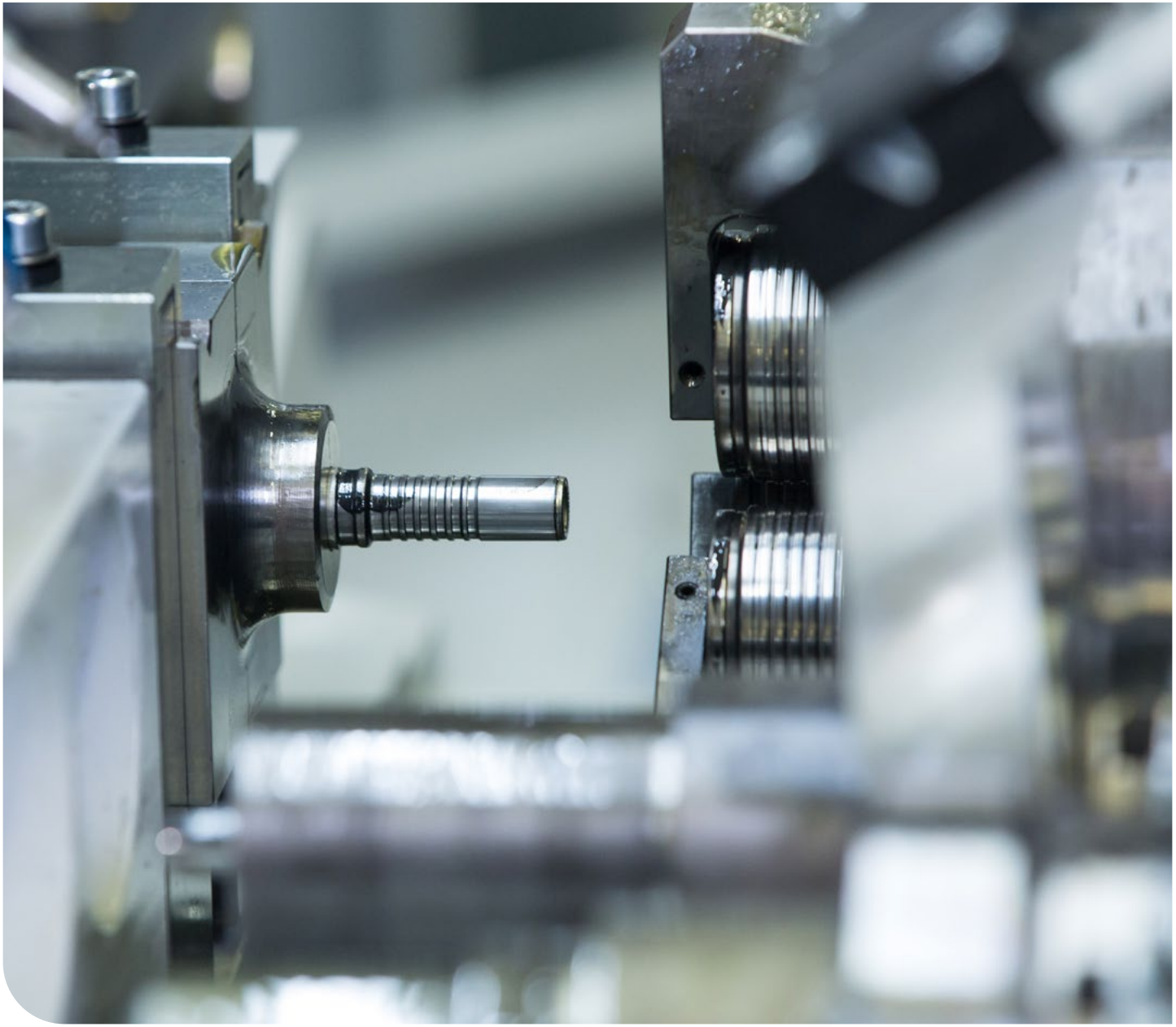
watch the movie

### Your benefits at a glance:

- **Tight and durable** – absolutely tight, stable and durable connections
- **Perfect surfaces** – mirror-like sealing surfaces without reworking
- **Tool technology** – various flare angles (37° to 90°)
- **Compact machine design** – for reverse geometries

# MULTILINE

## DO MORE
## DELIVER MORE



# ROLLFORMING MACHINES

## t form *MULTI*LINE – Do more. Deliver more.

The **t form** ***MULTI***LINE is the all-rounder for complex tube end machining. With rotating forming technology, it delivers accurate results for beading, radii, contours or threads – chipless, clean and precise.

### WHAT MAKES IT SPECIAL?

**Rotating forming technology**
Chipless rolling guarantees exact contours, the best surfaces and tight O-ring grooves.

**Servo-electric drives**
All axes are servo-electric with simultaneous CNC control for maximum precision.

**Modular**
Can be expanded with additional options such as cutting after bending, synchronous inner/outer rolling or integration into production cells.

The **t form** ***MULTI***LINE combines precision, flexibility and process reliability in a modular system. It delivers excellent results, reduces tool and set-up costs and provides clear competitive advantages.

**t form** ***MULTI***LINE – **Be able to do more, deliver more.**

### t form *MULTI*LINE MACHINE SIZES

| Model | Tube-ø | Wall thickness max. | Cycle time |
|---|---|---|---|
| MULTILINE 22 | 4 – 22 mm | 1,0 mm | 4 – 10 Sec. |
| MULTILINE 65 | 15 – 65 mm | 1,5 mm | 8 – 14 Sec. |
| MULTILINE 127 | 40 – 127,3 mm | 2,0 mm | 15 – 50 Sec. |
| MULTILINE 176 | 50 – 176 mm | 3,0 mm | 15 – 60 Sec. |

watch the movie

### Your benefits at a glance:

- **Process- and quality-optimized** – perfect surface quality
- **Complex and highly precise** – exact radii, O-ring grooves and sharp edges
- **Efficient and flexible** – shortest clamping lengths from 1×D – processing also after bending
- **Tool-optimized and powerful** – minimum tool use, maximum output

# BOOSTLINE

## INTELLIGENT APPLICATION OF FORMING FORCE

# AXIAL FORMING MACHINES

## t form *BOOST*LINE – Systematic shaping. Strong. Fast. Precise.

The **t form** ***BOOST***LINE revolutionises chipless tube joining technology: instead of turning, welding or soldering, it relies on axial forming – quick and clean. This results in high-precision, sealing and dimensionally stable components without joints, with maximum safety and quality.

### WHAT MAKES IT SPECIAL?

**Axial forming**
Material- and energy-saving - perfect results without turning, welding or soldering.

**Multi-stage processes**
With forming forces of up to 1,300 kN and up to 6 forming stages enabled by an additional clamping element, the **t form** ***BOOST***LINE offers unlimited flexibility for the most complex geometries while maintaining minimal tooling.

**t form** ***BOOST***LINE **– Intelligent application of forming force.**

### t form *BOOST*LINE MACHINE SIZES

| Model | Tube-ø | Forming length | Cycle Time/Stage |
|---|---|---|---|
| BOOSTLINE 20 | 4 - 20 mm | 60 mm | 2 - 3 Sec. |
| BOOSTLINE 32 | 6 - 32 mm | 80 mm | 2,5 - 3,5 Sec. |
| BOOSTLINE 45 | 6 - 45 mm | 90 mm | 3 - 5 Sec. |
| BOOSTLINE 60 | 6 - 60 mm | 180 mm | 5 - 8 Sec. |

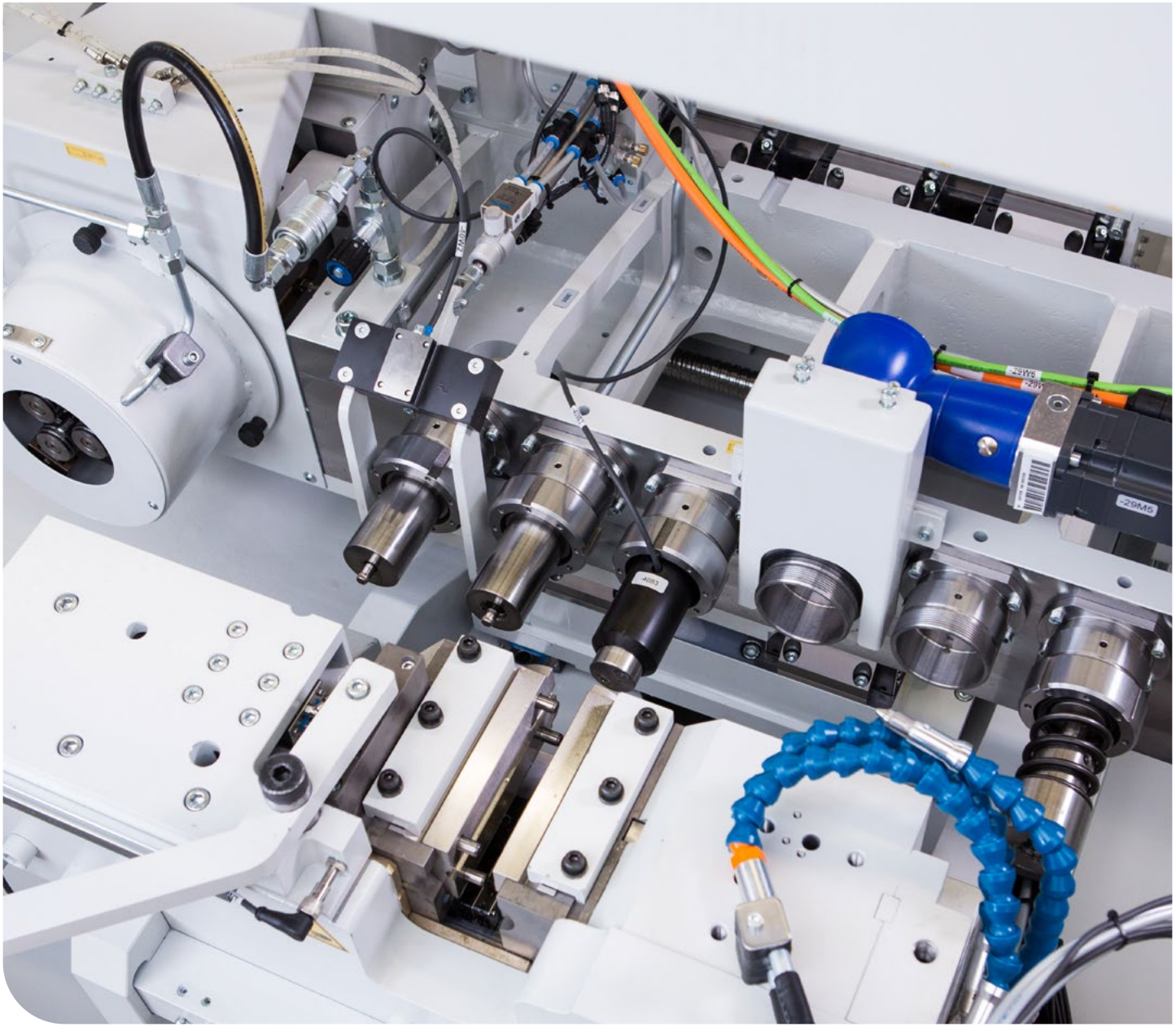
### Your benefits at a glance:

- **Four machine sizes** – optional horizontal or vertical processing
- **Time savings** – extremely short set-up times thanks to the quick-change system
- **Chip-free and precise** – chipless production, high surface quality
- **Process-optimized and economical** – cost savings due to the elimination of energy-intensive or complex processing steps (e.g. welding, soldering, etc.)
- **Unique** – additional clamping element for maximum shape versatility


watch the movie

# COMBILINE

## THE BEST COMBINED
## TWICE THE FORMING STRENGTH



# COMBINATION MACHINES

## t form *COMBI*LINE – The all-in-one production centre.

**t form *COMBI*LINE** is your all-in-one production centre – the fusion of **t form *BOOST*LINE** and **t form *MULTI*LINE**.

You can do everything in one clamping: axial forming, rolling, thread cutting, milling, surface finishing, cutting – fast, precise, smart. Whether stainless steel, steel or non-ferrous metal – this system knows almost no material limits. Thanks to servo-technology and digital control, you can control force and displacement on all axes with pinpoint accuracy.

### WHAT MAKES IT SPECIAL?

**Multiple processes in one machine**
Axial forming, rolling, surface finishing, cutting or thread forming in one pass.

**More freedom**
Complex retrograde geometries easy to implement.

**t form *COMBI*LINE – The best combined – twice the forming strength.**

### Your benefits at a glance:

- **Multifunctional** – combination of axial and rotational processes in one clamping
- **Process-integrated** – less handling, more freedom
- **Powerful and precise** – servo-electric drives with force and displacement control for maximum precision
- **Material-efficient** – direct tube forming


### t form *COMBI*LINE MACHINE SIZES

| Model | Tube-ø | Forming length | Cycle time/Stage |
|---|---|---|---|
| COMBILINE 632/622 | 6–32 mm (roll forming up to 30 mm) | 80 mm compress 40 mm roll forming | 3–4 Sec./stage + 4–10 Sec. roll forming |
| COMBILINE 645/622 | 6–45 mm (roll forming up to 30 mm) | 90 mm compress 40 mm roll forming | 4–5 Sec./stage + 4–10 Sec. roll forming |
| COMBILINE 660/622 | 6–45 mm (roll forming up to 30 mm) | 180 mm compress 40 mm roll forming | 5–9 Sec./stage + 6–10 Sec. roll forming |
| COMBILINE 660/1565 | 6–60 mm (roll forming up to 65 mm) | 180 mm compress 80 mm roll forming | 5–9 Sec./stage + 8–14 Sec. roll forming |

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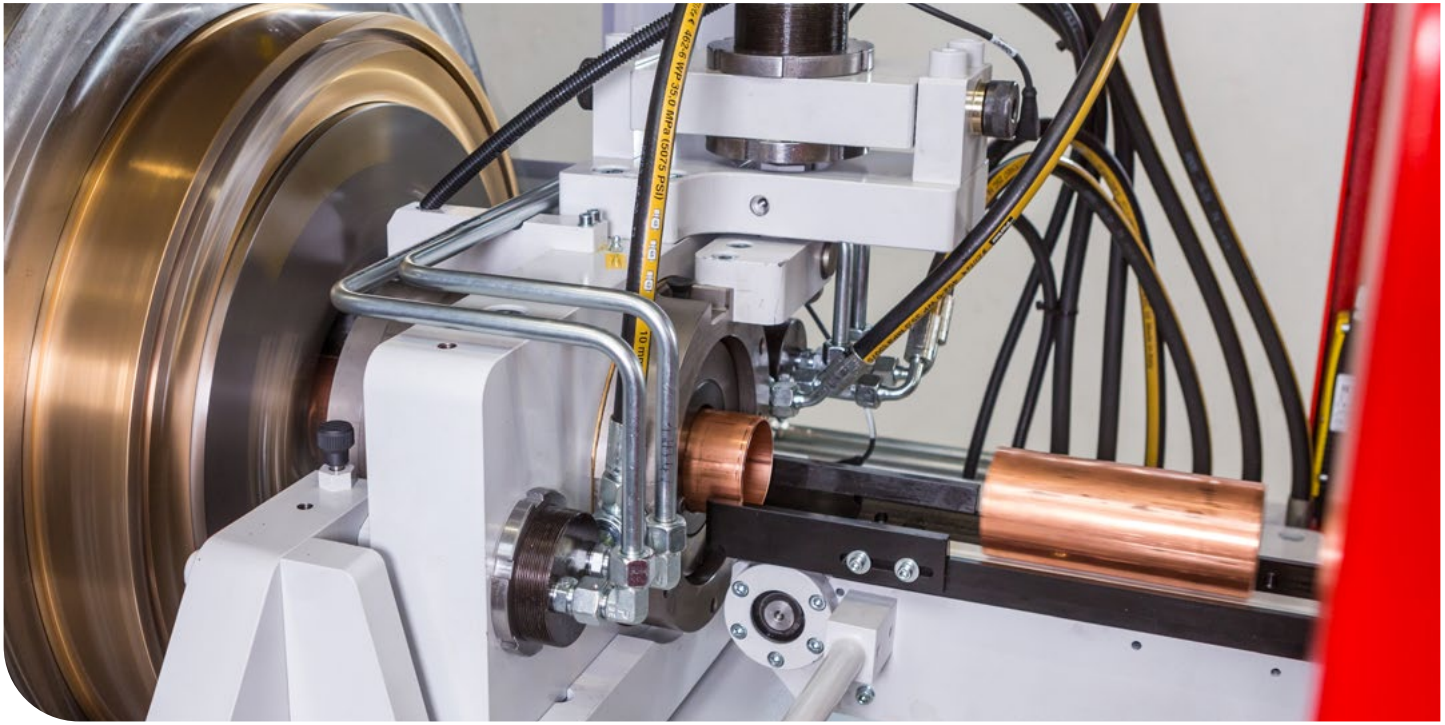
# ROTOLINE

## EFFICIENT CUTTING



## CHIPLESS ORBITAL CUTTING MACHINES

### t cut ROTOLINE – Fast. Clean. Economical.

The **t cut** *ROTOLINE* stands for cutting technology at the highest level. With its chipless orbital cutting principle and tear function, it delivers smooth, optimized cutting surfaces.

This makes it the ideal solution for industrial applications where speed, process reliability and cutting quality are paramount.

### Your benefits at a glance:

- **Clean cutting surfaces** – low-burr, optimised, without chips, without contamination
- **Precision cuts** – shortest cutting lengths starting from 25 mm
- **High cycle rate** – up to 2,000 cuts per hour (from 55 mm with tear function)
- **Modular design** – loading systems, coil feeding, scanner, labeler or laser marking
- **Perfect cut without deformation** – two clamping units that pull the tube apart

The **t cut** *ROTOLINE* guarantees precise, clean and economical cuts in record time.

Whether it is batch production or flexible production of small quantities – these machines ensure the highest productivity and quality.

## WHAT MAKES IT SPECIAL?

**Smart Cutting**
Software-supported nesting function minimizes waste.

**Economical**
Minimal material loss, immediate further processing possible.

**Optimized processes**
Increased efficiency through seamless integration into production lines.

**Fast changeover**
Tool change in less than 10 minutes.

**Robust construction**
Durable, reliable, designed for continuous operation.

**t cut** *ROTOLINE* **– Efficient cutting.**

## t cut *ROTOLINE* MACHINE SIZES

| Model | Tube-ø | Wall thickness max. | Cycle time |
|---|---|---|---|
| ROTOLINE 28 | 6 – 28 mm | 2,0 mm | 2,2 – 8,0 Sec. |
| ROTOLINE 50 | 6 – 50 mm | 2,4 mm | 2,2 – 8,0 Sec. |
| ROTOLINE 80 | 20 – 80 mm | 3,0 mm | 5 – 10 Sec. |
| ROTOLINE 100 | 20 – 100 mm | 3,0 mm | 5 – 10 Sec. |

watch the movie

# STANDARDLINE

## MORE SPEED
## MORE ADVANTAGE

## AUTOMATION

### t motion STANDARDLINE – Automation for an optimized production flow.

With **t motion** *STANDARDLINE*, we plan and implement material-flow-optimized manufacturing modules or cells for your tube processing operations.

We design the layout tailored to your specific requirements and integrate all desired tube processing machines with the corresponding handling systems. With over 35 years of experience in automation, we offer standardized modular systems for our product lines. We are specialists in custom-engineered special systems.

### Your benefits at a glance:

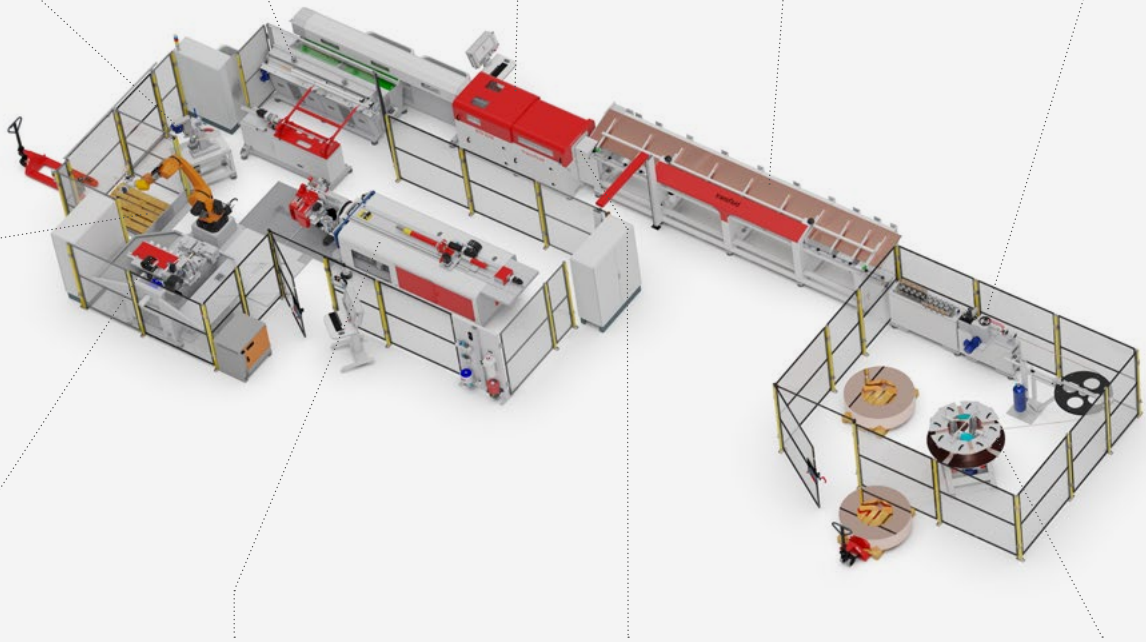
- **Plug and Produce** – ready for production and flexible in series production
- **Individually adaptable** – additional process steps (such as loading and unloading systems or additional machines) can be easily integrated
- **Industry 4.0** – interfaces to consumption and operational data acquisition enable full digitalization and data analysis
- **Fast and precise** – high degree of automation for efficient, high-speed production

Upon request, also available in combination with product marking as well as optical, contactless camera systems for comprehensive control of geometries and surfaces. In addition, there is the option for punching and stamping, as well as the integration of loading and unloading systems – for your individually tailored automation solution.

**t motion** *STANDARD*LINE combines standardized systems with automation. The result is a solution that is not only productive but also builds confidence—today and in the future.

**t motion** *STANDARD*LINE **– Power on. Produce.**

## EFFICIENT PRODUCTION CELLS THROUGH MODULAR STANDARD SOLUTIONS




The list is an example. Additional functions can also be integrated.

# STANDARDLINE

## MORE SPEED
## MORE ADVANTAGE

## LOADING, UNLOADING, AND HANDLING SYSTEMS MANUFACTURED BY TRANSFLUID

Depending on the material, tube diameters, and tube lengths, we offer standardized loading systems for all machines.

Already formed tubes and tubes with components can be processed safely. Proper orientation is ensured so that tubes are correctly positioned in the production cells.

External components such as nuts, flanges, and support sleeves can be precisely integrated into the system, even for additional processing steps. Various loading volumes can be realized.

**The right system for every requirement**

For large series as well as small batch sizes, we offer flexible solutions for every application, which can be modularly configured or retrofitted as needed.

Depending on component lengths, a wide variety of handling and gripping systems are available.

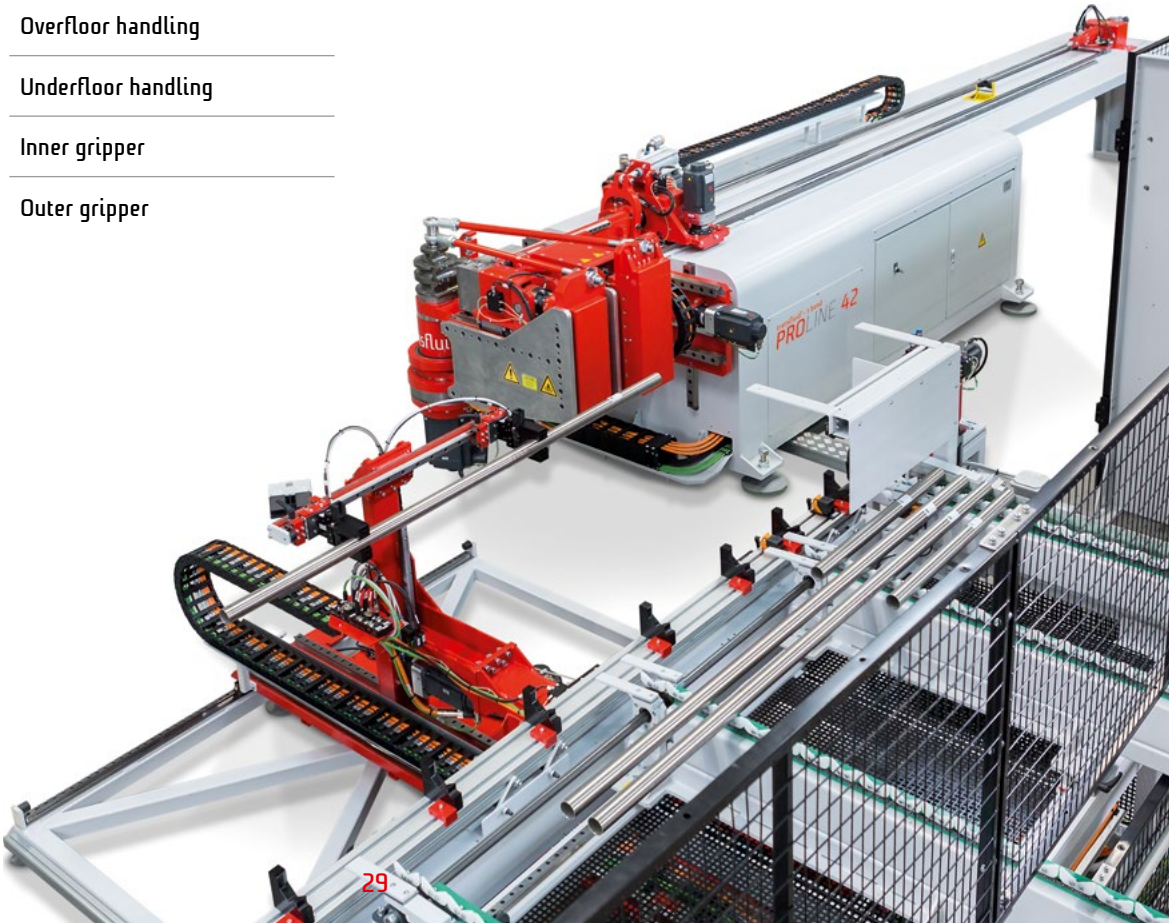
For short tubes, underfloor systems with corresponding insertion axes are offered. For longer tubes, overhead handling systems are available. Both systems can be combined, providing ideal accessibility for setup and maintenance processes.

## A WIDE RANGE OF HANDLING AND GRIPPING SYSTEMS FOR EVERY REQUIREMENT:

| LOADING SYSTEMS | HANDLING-/GRIPPING SYSTEMS |
|---|---|
| Alignment station | Handling robots |
| Swivel arm feeder | Rotating module |
| Conveyor feeder | Overfloor handling |
| Chain feeder | Underfloor handling |
| Loading tables | Inner gripper |
| Bowl feeder | Outer gripper |
| Step feeder | |

All of these systems are designed and manufactured by transfluid to match the tube bending machines, ensuring optimal integration and functionality.

**t motion *STANDARD*LINE – Power on. Produce.**

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# SPECIALLINE

## PRECISELY TAILORED FOR THE HIGHEST DEMANDS

## AUTOMATION

### t motion SPECIALLINE – Customized automation solutions for complex production processes.

With **t motion** *SPECIALLINE*, we implement highly individual automation solutions for complex tube processing operations—precisely tailored to your specific requirements.

Where standard solutions reach their limits, **t motion** *SPECIALLINE* begins. We develop custom production cells, integrate a wide variety of processing operations, and connect transfluid machines into a powerful, fully networked production unit.

### Your benefits at a glance:

- **Unlimited integration** – integration of transfluid machines and external systems into a seamless, centrally controlled production solution.
- **Maximum customization** – Customer-specific special processes, complex processing sequences, and special technologies can be implemented flexibly
- **Central system intelligence** – Unified control via **t project** for transparent data flows, process monitoring, and digital twins
- **Scalable and future-proof** – Extensions, process adjustments, and new technologies can be integrated at any time

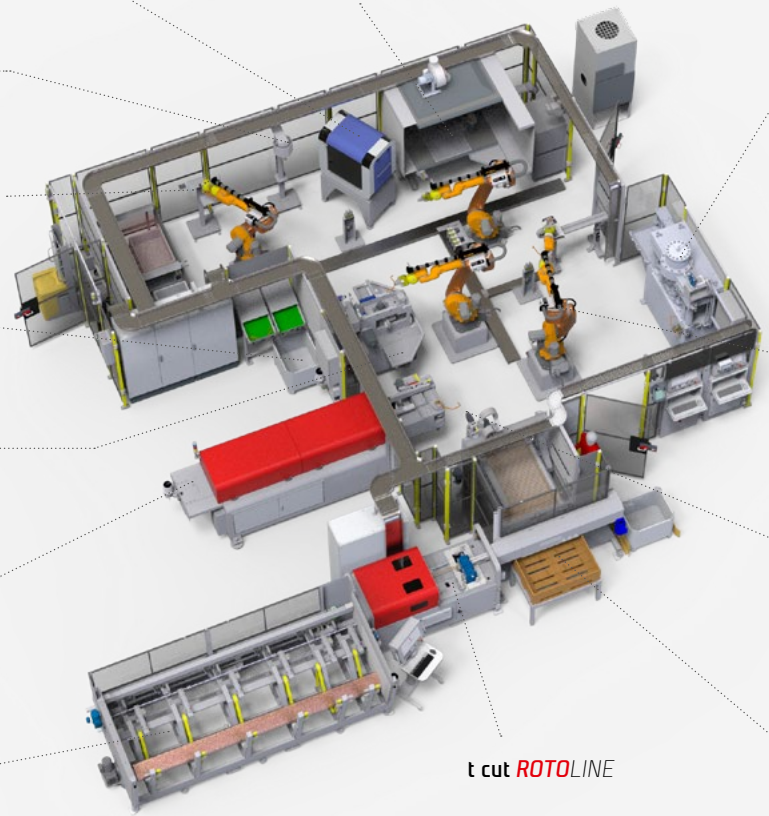
Whether laser cutting systems, induction solutions, optical measuring systems, or special stations for unique forming or assembly processes—we approach automation holistically.

Our software **t project** provides centralized control and enables full integration of all machines and components, regardless of the manufacturer. This creates a unified system with a clear data structure, transparent process monitoring, and maximum flexibility.

Simulation-based planning, and intelligent synchronization of material and data flows ensure that even highly complex systems can be operated safely, efficiently, and future-proof.

**t motion** *SPECIAL*LINE stands for engineering expertise, integration strength, and the courage to deliver individual solutions—for production concepts that have never existed before.

## TAILORED PRODUCTION SYSTEMS THROUGH INTELLIGENT SYSTEM INTEGRATION

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The list is an example. Additional functions can also be integrated.

# transfluid + TRUMPF

## PARTNERSHIP IN THE WORLD OF TUBES


### COMBINATION OF LASER TUBE CUTTING SYSTEMS AND TUBE BENDING TECHNOLOGY

transfluid and TRUMPF have joined forces to optimize the tube manufacturing process.

As one of the market and technology leaders in machine tools and laser systems, TRUMPF offers a comprehensive range of laser tube processing solutions, covering both cutting and 3D post-processing of bent or formed tubes.

The hardware of both companies is digitally interconnected, enabling greater transparency and flexibility throughout the entire process.

### Your benefits at a glance:

- **Digitally connected** – interaction of hardware ensures transparency, flexibility, and cost-effectiveness
- **Fully automatable** – seamlessly integrable into complete tube processing cells
- **Precise post-processing** – for bent or formed tubes using flexible 3D laser tube cutting systems
- **Profitability** – time and cost savings in production and reduced susceptibility to errors

As a globally recognised partner for the manufacture of tube bending and tube processing machines, we place great importance on guaranteeing you the best solution.

Both companies share a strong drive for innovation, with the customer and their needs at the center.

For this reason, transfluid and TRUMPF jointly offer solutions for the entire tube processing chain–from laser cutting and bending to further processing.

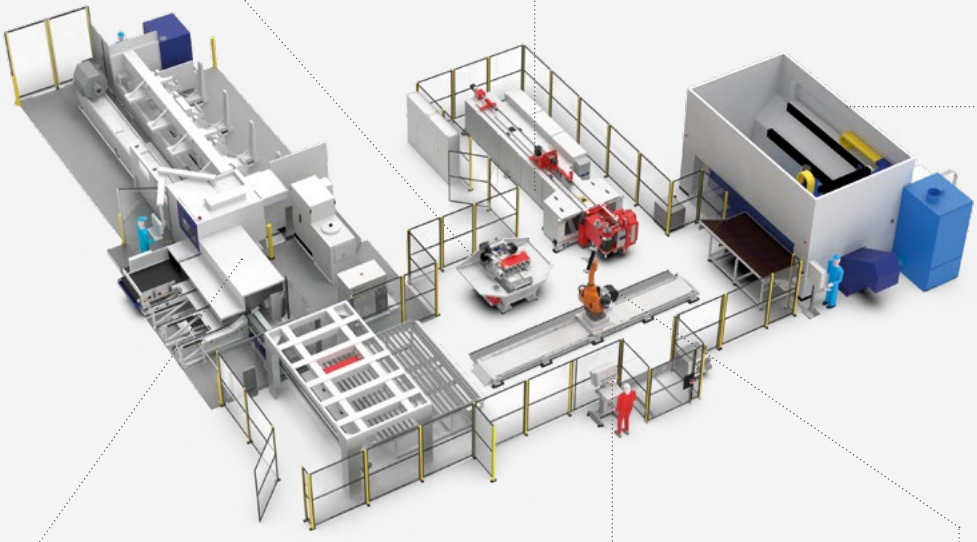
Available on request as stand-alone machine solutions with appropriate interfaces or as fully automated production cells in various configurations.

## THE RIGHT SOLUTION FOR EVERY REQUIREMENT

t form *COMBILINE*

t bend *VARIOLINE*

TRUMPF TruLaser Cell
3D laser tube cutting system



TRUMPF TruLaser Tube
Laser tube cutting machine

t project *BENDINGSOFTWARE*

t bend *ROBOLINE*

TRUMPF | Solution Partner

The list is an example. Additional functions can also be integrated.

# COMPACTLINE

## PRECISE PERFORMANCE IN A COMPACT SIZE


### COMPACT MANDREL BENDING MACHINES

**t work *COMPACT*LINE – Precise performance in a compact size.**

The **t work** ***COMPACT***LINE is the ideal solution for companies requiring space-saving, high-performance tube bending machines. It is mobile and ensures precise bending results for single parts and small batch production.

**Your benefits at a glance:**

- **Easy and mobile** – for use to assemble directly on-site, with minimal space requirements
- **Compact and economical** – perfect for single pieces and small batches
- **Precise** – hydraulic power with digital accuracy
- **Fast and dynamic** – short set-up times for efficient processes

The **t work** *COMPACTLINE* stands for mandrel bending technology that works right away – quick to set up, easy to use and ready for any challenge.

## WHAT MAKES IT SPECIAL?

**Precise bending**
Tube diameters from 6 to 101 mm, narrow radii from 1.5×D possible

**Easy operation**
PLC control with touch panel, storage of bending angles

**Robust construction**
Durable and reliable

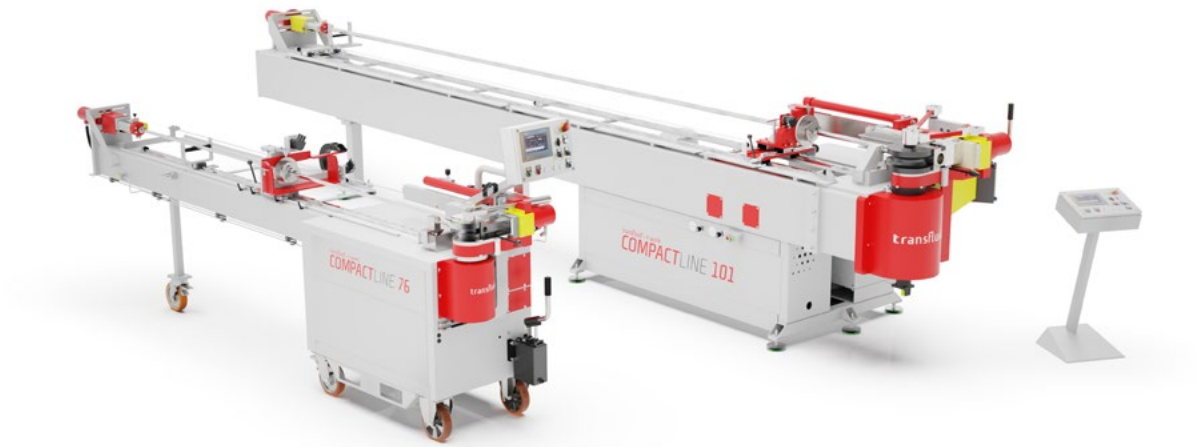
**A wide range of optional equipment**
Integrated saw, deburring unit, cutting ring pre-assembly, flaring tools and much more

The **t work** *COMPACTLINE* combines compactness, flexibility and bending quality – especially valuable for companies that require reliable bending processes in production with minimal space requirements.

**t work** *COMPACTLINE* **– Precise performance in a compact size.**

## t work *COMPACTLINE* MACHINE SIZES

| Model | Tube-ø | Max. Radius |
|---|---|---|
| COMPACTLINE 42 | 6 – 42 mm | 105 mm |
| COMPACTLINE 76 | 6 – 76,1 mm | 150 mm |
| COMPACTLINE 101 | 6 – 101,6 mm | 250 mm |

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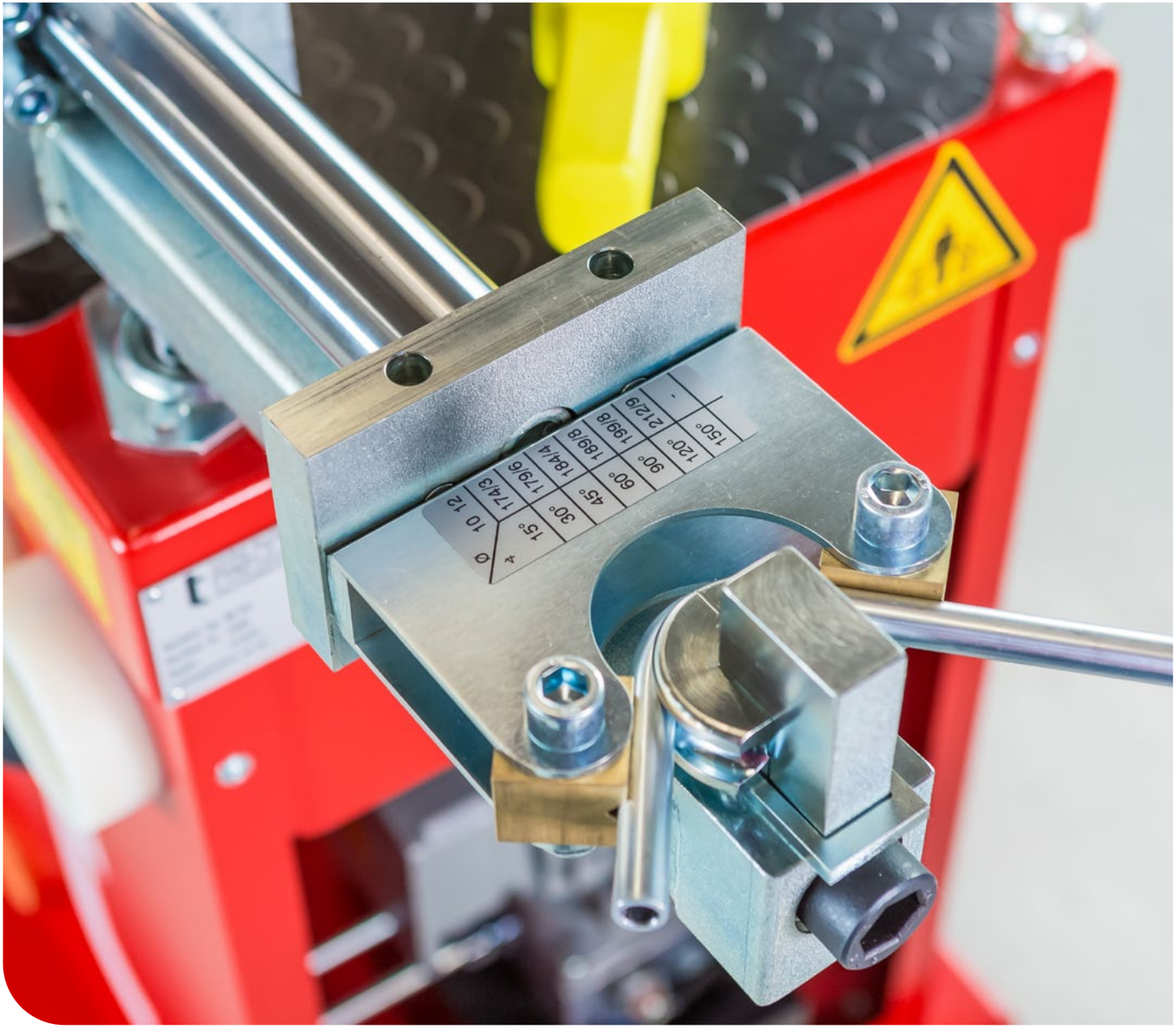
# MOBILELINE

## PERFORMANCE
## ANYTIME AND ANYWHERE



# MOBILE BENDING MACHINE

## t work *MOBILE*LINE – Performance, anytime and anywhere.

The **t work** *MOBILE*LINE brings bending power directly to the job site – mobile, compact and robust. Whether on the construction site, on the factory floor or for servicing calls: This machine impresses with its robust design, easy handling and reliable performance – wherever it matters.

### WHAT MAKES IT SPECIAL?

**Flexible equipment**
Options such as deburring unit, cutting ring pre-assembly, flaring tools or saw attachment.

The **t work** *MOBILE*LINE is the first choice for hydraulics engineers who work directly on site. It combines precise performance, agility and ease of use – ideal for projects where performance is required directly on site.

**t work** *MOBILE*LINE **– mobile, compact, robust.**

### t work *MOBILE*LINE MACHINE SIZES

| Model | Tube-ø | Max. Radius |
|---|---|---|
| MOBILELINE 42 | 6 - 42 mm | 126 mm |
| MOBILELINE 60 | 6 - 60 mm | 180 mm |
| MOBILELINE 90 | 6 - 90 mm | 270 mm |
| MOBILELINE 115 | 6 - 115 mm | 345 mm |

watch the movie

### Your benefits at a glance:

- **Mobile** – immediately ready for use without set-up time, flexible at any location
- **Expandable** – a wide range of optional equipment for hydraulic tubes
- **User-friendly** – quick setup, easy to use
- **Robust and durable** – for reliable performance even in harsh conditions

# PORTFOLIO OF MACHINES

## t bend

### VARIOLINE
Fully electric mandrel bending machines 360° rotating bending head right/left

### PROLINE
Fully electric mandrel bending machines

## t form

### FLARELINE
Rollforming machines

### MULTILINE
Rollforming machines

### BOOSTLINE
Axial forming machines

## t work

### COMPACTLINE
Compact mandrel bending machines

### MOBILELINE
Mobile bending machine

### MOBILELINE EQUIPMENT
Pre-assembly machines

## *POWER*LINE

Mandrel bending machines with servohydraulic motors

## *ROBO*LINE

Robotic bending machines

## *COMBI*LINE

Combination machines

t cut

## *ROTO*LINE

Chipless orbital cutting machines

Flaring machines

Tube deburring machines

Electro-hydraulic drive unit

Tube chamfering machines

transfluid
The solution for tubes.

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