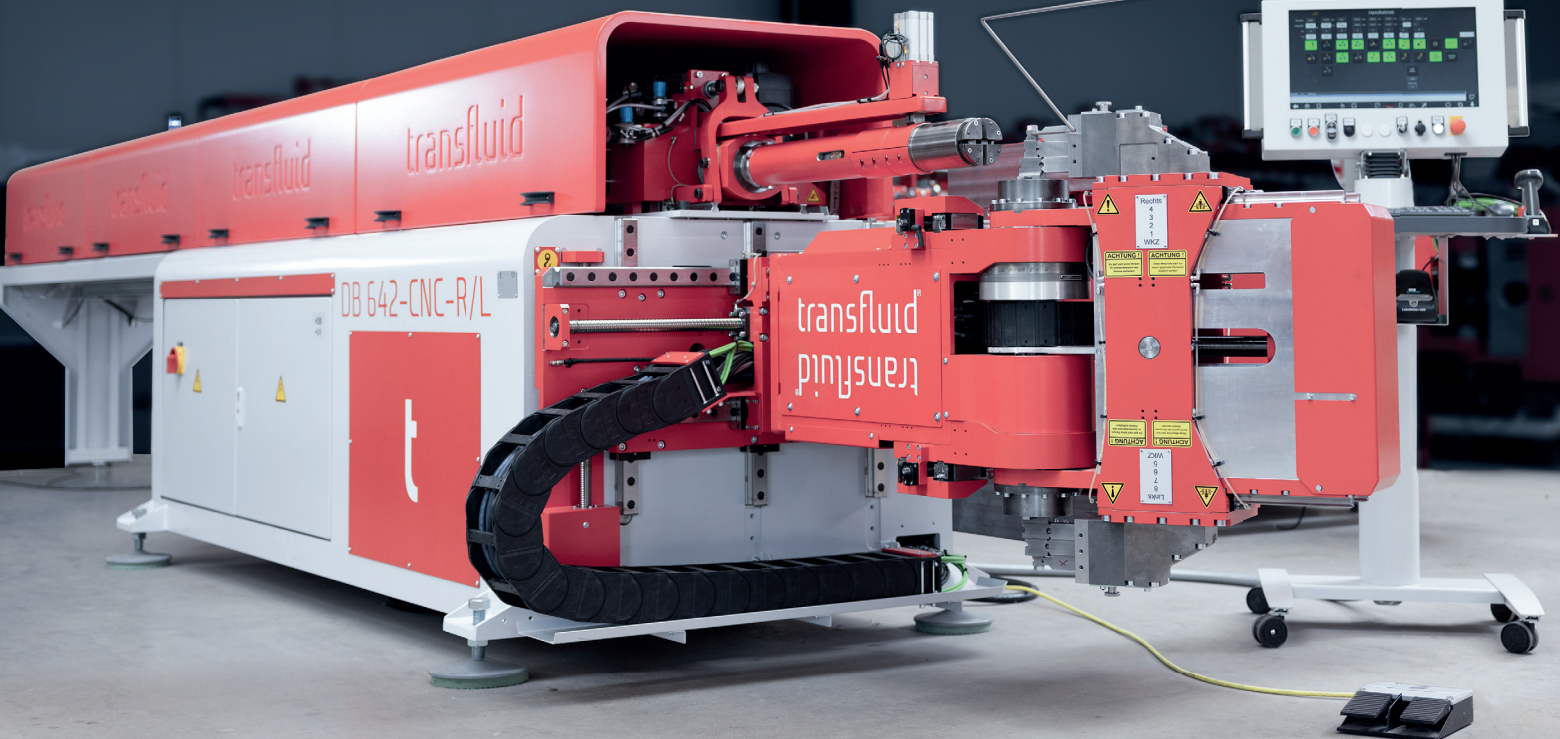
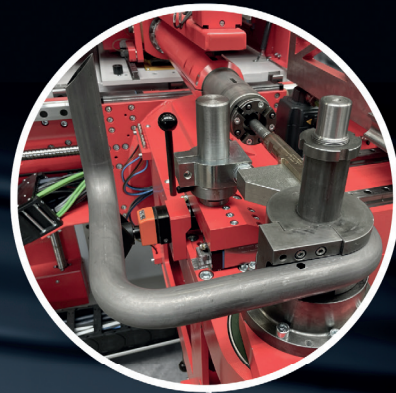




transfluid<sup>®</sup>  
The solution for tubes. **t**

## PARTNERSHIP IN THE WORLD OF TUBES

transfluid<sup>®</sup> and TRUMPF have joined forces,  
to optimize your tube manufacturing process.



## QUALITY, COMPETENCE AND EXPERIENCE

The partnership between TRUMPF and transfluid® enables highly flexible combinations between laser tube cutting systems and tube bending/forming technology, as well as fully automated tube manufacturing concepts:

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

As a globally sought-after partner for the manufacture of tube bending machines and tube processing machines, transfluid Maschinenbau GmbH attaches great importance to guaranteeing the customer the best possible added value

Both companies are united by a strong drive for innovation with a focus on the customer and customer requirements. For this reason, transfluid and TRUMPF are joining forces to provide solutions for the complete tube processing chain, from laser cutting to bending and further processing.

On request as stand-alone machine solutions with corresponding interfaces or as fully automatic production cells.



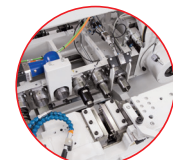
**t bend**  
Mandrel Bending Machine  
CNC Right/Left



**t motion**  
Handling robot



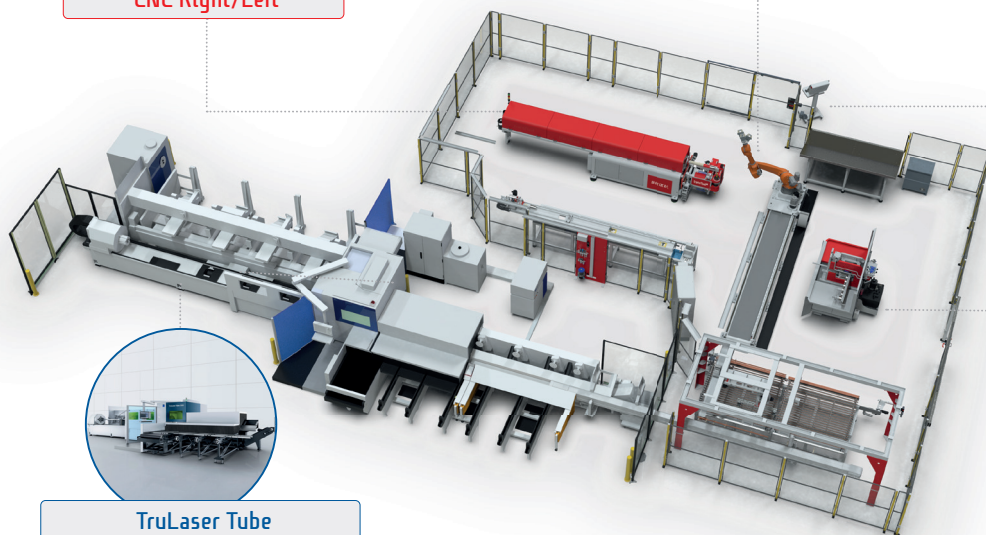
**t project**  
Software



**t form**  
Combination machine  
REB/SRM



**TruLaser Tube**  
Laser tube cutting machine



# ADVANTAGES

## Cutting of the tubes via TruLaser Tube:

### 1. Highly dynamic and highly flexible cutting process

Tubes and profiles with diameters of up to 254 mm and wall thicknesses of up to 10 mm for e.g. structural steel can be cut to size. Further processing such as holes, miter cuts, etc. possible.

### 2. Setup-free cutting process

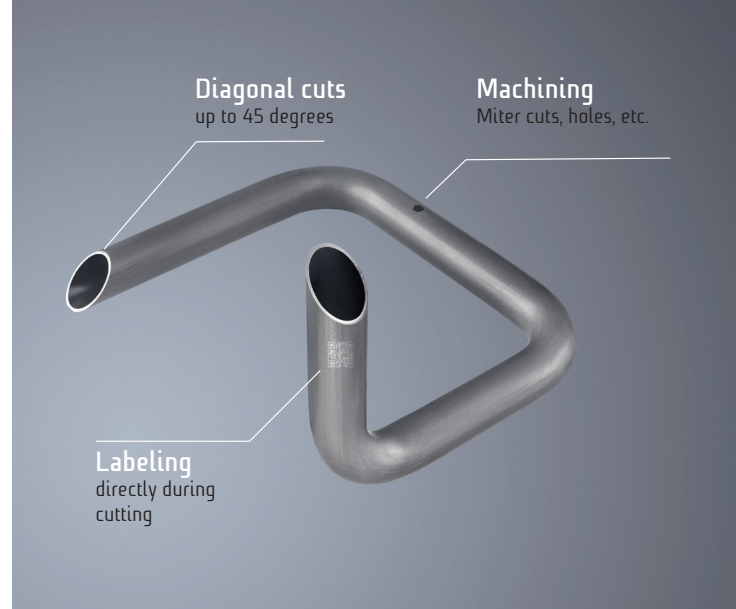
The clamping technology allows quick changeover between materials and cross-sections without retooling.

### 3. Integrated weld seam detection and alignment

This ensures the controlled seam position also in the subsequent process.

### 4. Labeling option

Marking and labeling can already be carried out during laser cutting. The individualized tubes can thus be tracked during the further production process.



### 5. Loading and unloading options

Round tubes, profiles, square or rectangular tubes can be introduced into the machining processes and fed to downstream processes using a variety of systems.

### 6. Flexible production

Tubes and profiles that do not need to be bent can also be cut and machined (e.g. for welded constructions, frame constructions, innovative tube constructions)

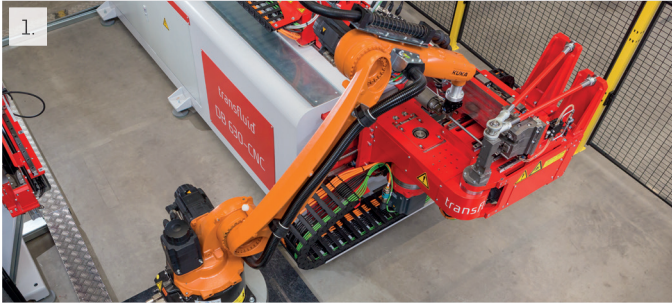
### 7. Extensive software

Perfectly coordinated software for cutting quantity optimization (nesting) up to complete production planning tools.



TruLaser Tube 5000 fiber  
Laser tube cutting machine

# FURTHER PROCESSING THROUGH THE transfluid® PRODUCT PORTFOLIO



## 1. LOADING

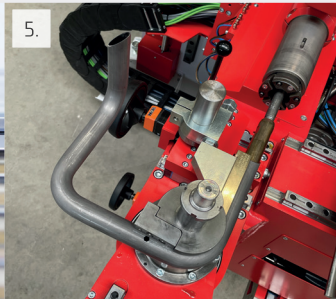
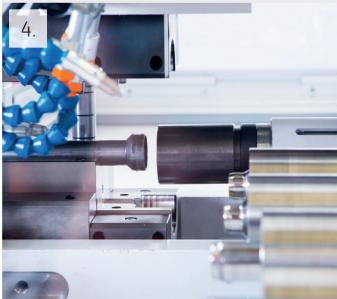
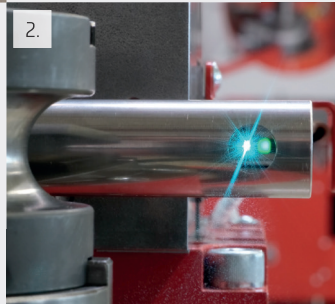
Manual or fully automatic loading of the tubes, direct transfer from the laser tube cutting machine is also possible.

## 2. ALIGNMENT

Alignment of the tubes on the basis of the lasered (e.g. hole detection).

## 3. RETRIEVAL OF PROCESS PARAMETERS

Reading and processing of the component label.



## 4. FORMING

Unlimited variety of shapes is realized with the highest effort.

## 5. BENDING PROCESS

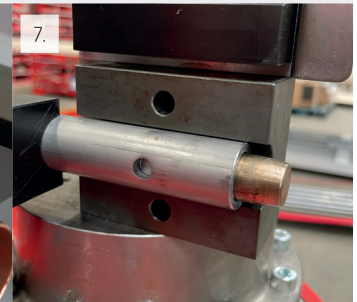
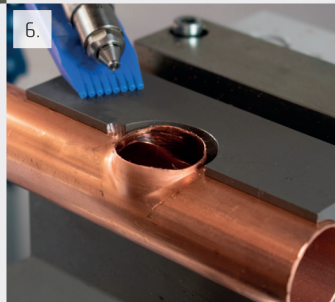
Highly efficient CNC bending technology for small and large bending tasks.

## 6. COLLARING

Collaring or forming of T-pieces via laser cuts made in advance, e.g. with the transfluid collaring machine t form AM-854.

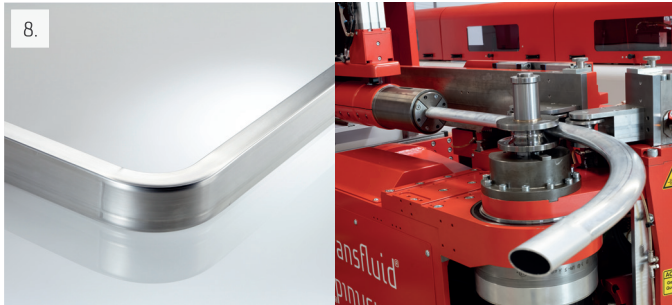
## 7. PUNCHING

Punching on the bending machine as a supplement when holes are too close to the sheet area.



# THE RIGHT SYSTEM FOR EVERY REQUIREMENT

8.



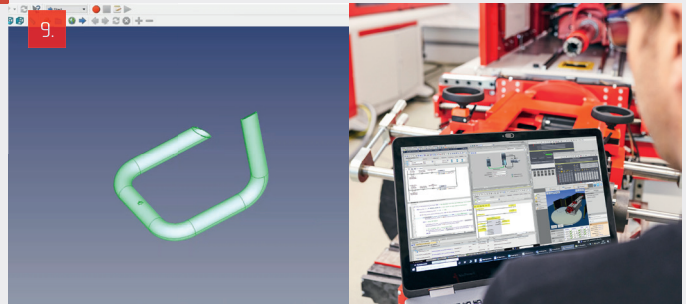
## 8. MATERIAL VARIATIONS

transfluid® machines can also be equipped for bending profiles, oval tubes and square material.

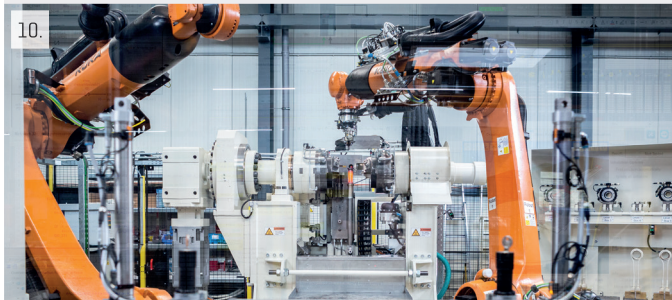
## 9. SOFTWARE

Database for compensation of material data, so that the 1st component can already be manufactured with an accurate fit.

Online interfaces for data exchange between the tube laser system and the other production equipment (bending, molds, etc.).



10.



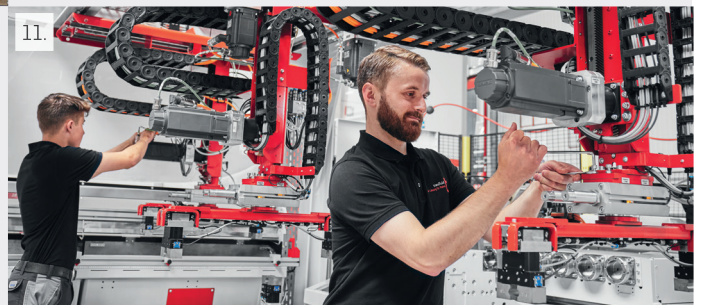
## 10. AUTOMATION

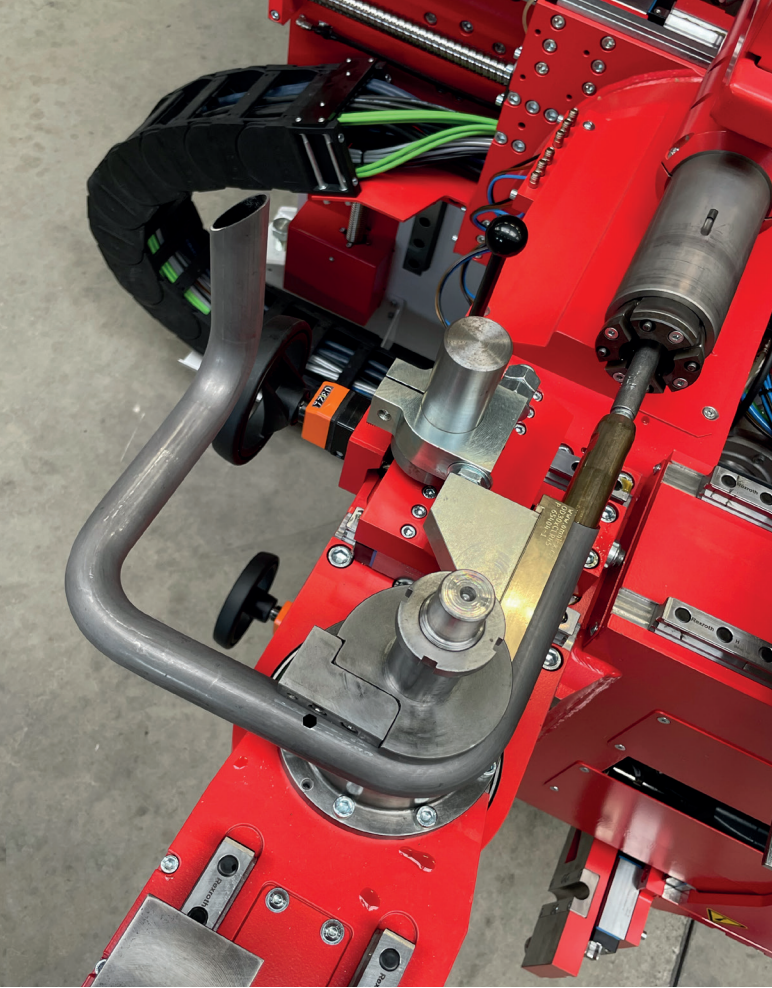
Stand-alone or fully interlinked solutions for large series, small series or single piece production are possible.

All systems are designed and produced by transfluid® to match the bending machines. This ensures optimal integration and functionality.

## 11. CUSTOMER REQUIREMENTS IN LINE WITH NEEDS

Customer-, / product-oriented customization options. We design the layout that fits your requirements and integrate all desired processing and handling options.





## YOUR ADVANTAGES AT A GLANCE:

### Complete process chain in tube processing

Through the seamless integration of TRUMPF Laser tube cutting machines in transfluid® production cells or production lines, enormous competitive advantages can be achieved.

#### 1. DIGITALLY NETWORKED

The hardware of both manufacturers is digitally networked and, through their interaction, makes the overall process more transparent, flexible and, above all, more economical.

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#### 2. AUTOMATIC PRODUCTION

Can be fully automated as part of a complete tube processing cell.

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#### 3. VERSATILITY

The flexibility of laser tube processing offers unprecedented opportunities to component designers across all industries. Complex designs can be cut into tubes that are not possible with conventional cutting methods.

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#### 4. POST-PROCESSING

Extensive possibilities for post-processing bent or shaped tubes with flexible 3D laser tube cutting systems such as the TruLaser Cell 5030 or TruLaser Cell 8030.

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#### 5. PROFITABILITY

Time and cost savings in production due to the reduction of work steps such as sawing, drilling and deburring. The automatic connection to the bending cell eliminates manual work steps and reduces the susceptibility to errors.

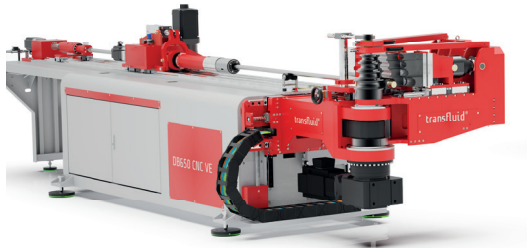
### Further benefits from the strong partnership between TRUMPF and transfluid®:

- Customised solutions tailored to requirements Bundled know-how from 2 world market leaders
- On request, central project management by a general contractor
- Attractive financing offers
- Continuous advice and support in the selection process, project planning and implementation
- Perfect after-sales service

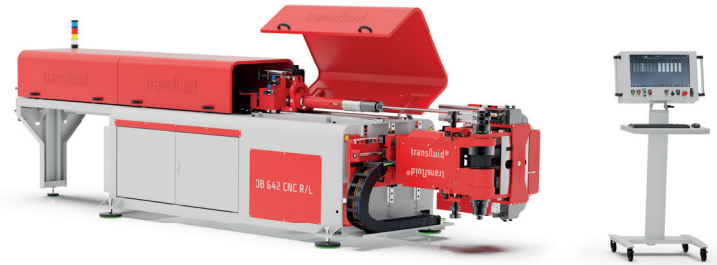
# MACHINE OVERVIEW

You can find the whole offer of pipe working machines on our homepage [www.transfluid.de](http://www.transfluid.de).

t bend – All-electric mandrel bending machines



t bend – All-electric mandrel bending machines 360° bending head right/left



t form – REB Axial forming machines



t form – SRM Roll forming machines



t form – REB/SRM Combination machines



t form – UMR Roll forming machines



t form – AM Collaring machine



t cut – RTO chipless orbital cutting systems





transfluid®  
The solution for tubes. **t**

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USA

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