



Tube Fabrication  
Solutions for  
Branching and Flanging

**T-DRILL**

# Joining Tubes by Branching and Flanging

T-DRILL product range consists of a full line of modern tube fabrication machinery, from portable on-site equipment to flexible customized, automated production lines. Manufacturing requirements vary; so do optimum solutions. This brochure presents a few of the most popular T-DRILL solutions for industrial use.

## Typical Application Areas

For nearly 40 years, T-DRILL has been acclaimed for its innovations in tube and pipe fabrication. T-DRILL collaring and flanging systems have become an industry standard worldwide recognized and accepted, for example, by

- Det Norske Veritas
- Germanischer Lloyd
- Lloyd's Register of Shipping
- Bureau Veritas
- ANSI/ASME
- ASTM
- U.S. Corps of Engineers
- TÜV
- UL

Today, the T-DRILL method is successfully applied in

- Food processing equipment
- Pulp and paper industry
- Fabrication of stainless steel piping systems
- Water treatment
- Ship-building
- Conventional and Nuclear Submarines

## T-60

The portable pipe-branching system for stainless steel is ideal for on-site conditions. The collaring range is O.D. 20 - 51 mm (½"-1½" IPS).



**Whenever** two pipes need to be joined together, T-DRILL is the answer. The T-DRILL process is a patented method of producing outlets for branch connections directly from run pipe material. T-DRILL technology also provides machines for flanging, i.e. the formation of lips at the very end of the tube. The use of loose flanges brings many advantages compared to traditional, welded flange connections.

**Orbital Welding** T-DRILL Collaring brings great advantages since it allows the use of orbital welding equipment.



"Photo courtesy of ARC Machines, Inc."

## T-110 and TEC-150

Transportable production machine T-110 and TEC-150 collaring station includes all necessary equipment for the production of high-quality branch collars in the range of O.D 21.3–219.1 mm (½"-8" IPS).

## F-200 and F-400

T-DRILL flanging machines eliminate the need for costly welded flanges and reduce pipe joint preparation and installation time by over 40%. Flanging range O.D. 21.3–419 mm (½"-16" IPS).



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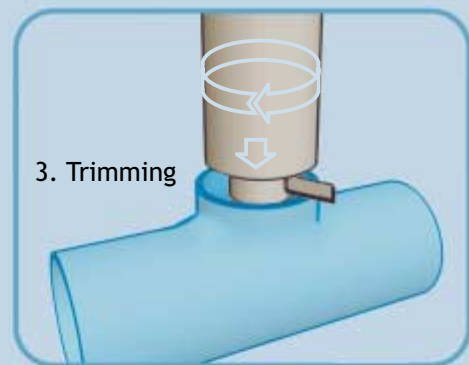
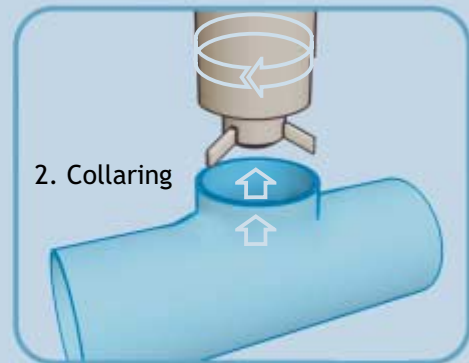
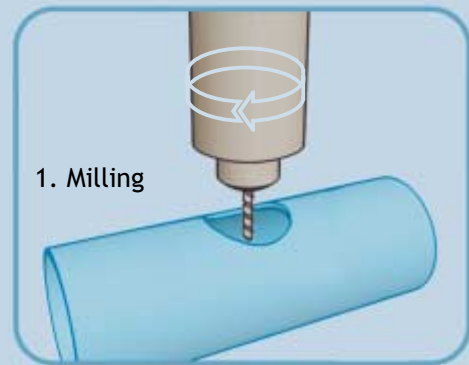
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## The T-DRILL Collaring Method

The T-DRILL method of branching and flanging is applicable to almost all malleable material including stainless steel, CuNi, aluminium alloys and copper. Instead of three welded joints, only one simple weld joint is required.

- No costly inventories
- Improved flow characteristics
- Minimized inspection cost
- Less chance of leakage or call-backs

1. An elliptical hole is milled in the pipe
2. The forming pins of the collaring head are extended and the collar formed. This is aided by automated lubrication and optimized forming.
3. The collar is trimmed to the desired height.



The business environment may be demanding, but you can reach ambitious goals with a strong, flexible technology partner like T-DRILL.