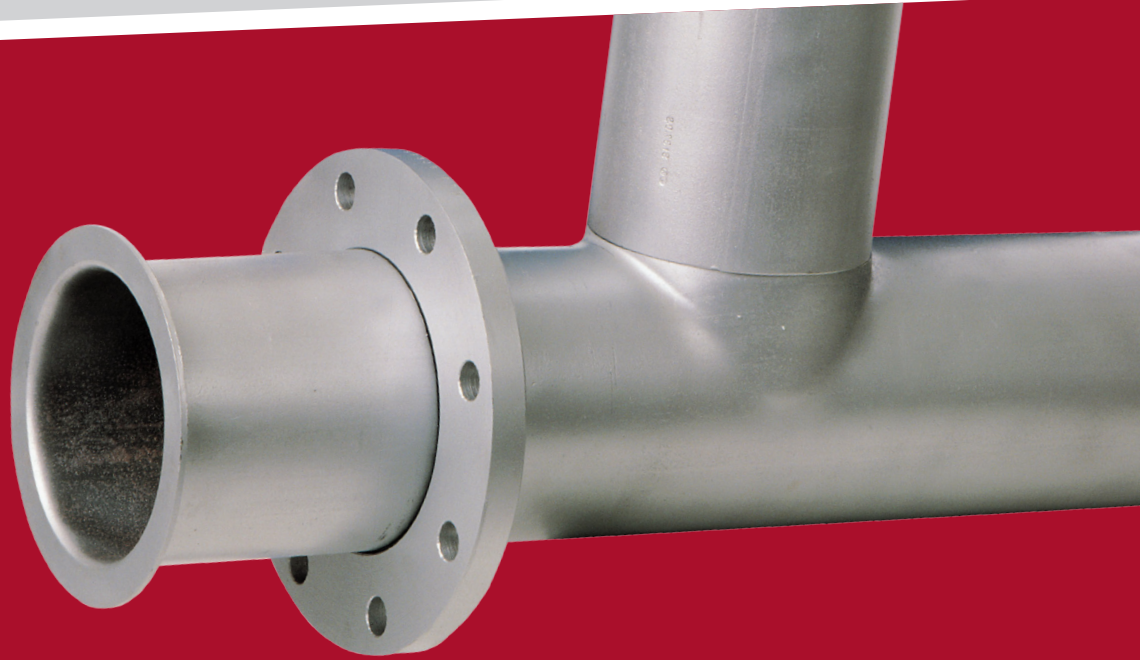


# T-DRILL

PRODUCTIVITY AS A PRODUCT.



## F-SERIES

Flanging Machines

F-200  
F-400

# F-SERIES MULTIPURPOSE FLANGING TECHNOLOGY

**T-DRILL** F-series pipe flanging machines offer new potential in heavy-duty pipe end forming and flanging. Lips/Stub ends, for the use of loose flanges, are formed directly on the end of the pipe – a solution that saves you up to 40% in time and costs compared to traditional weld neck flange connections.

Flanging by using the **T-DRILL** method takes minimum roughly a minute, while a similar process made by welding in stainless steel pipe takes up to one hour, including the preparations. Because of no welding, there's no need for inspection of the welding seam.

## T-DRILL FLANGING TECHNOLOGY

The T-DRILL flanging method is approved by

- Pressure Equipment Directive (PED)
- Det Norske Veritas
- Germanischer Lloyd
- Lloyd's Register of Shipping
- Bureau Veritas
- ASME Standard
- ASTM F2015-00



Germanischer Lloyd



INTERNATIONAL  
Standards Worldwide



Lloyd's  
Register



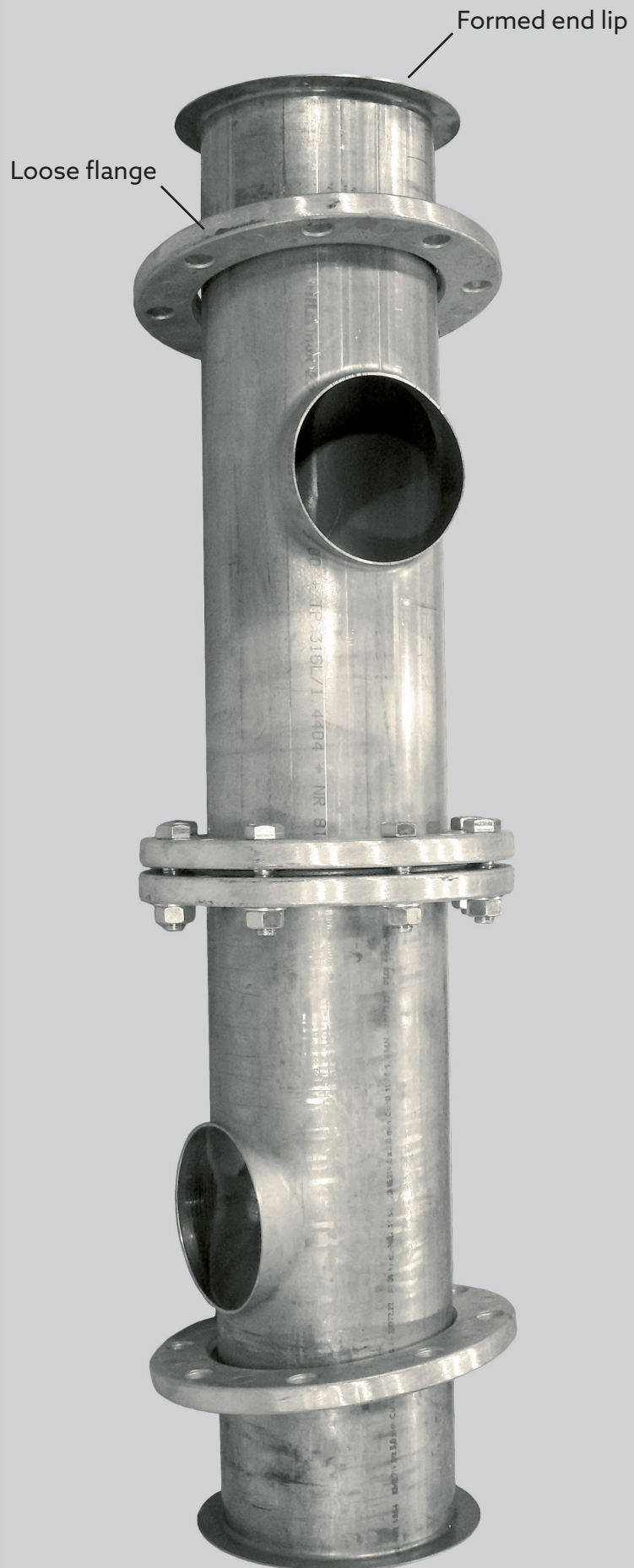
DNV



ASME  
SETTING THE STANDARD



BUREAU  
VERITAS



# FLANGING TECHNOLOGY

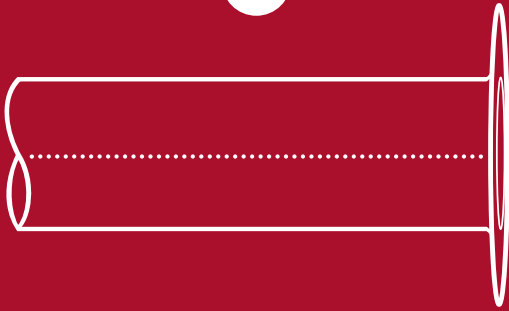
A. Flanging

B. Flaring

C. Expansion

D. Bevelling

A



B



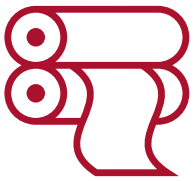
C



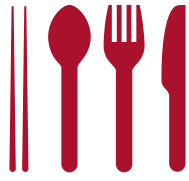
D



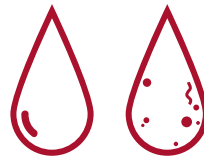
## Perfect for



Pulp and paper industry



Food and brewery processing pipes



Water and wastewater installations



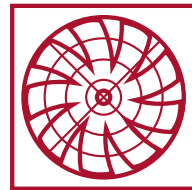
Shipbuilding



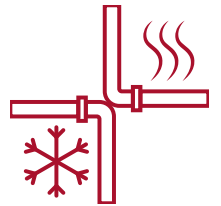
Chemical industry



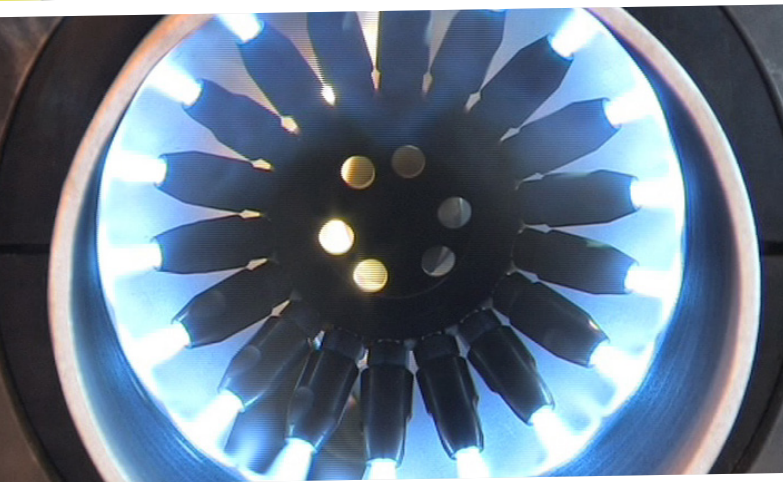
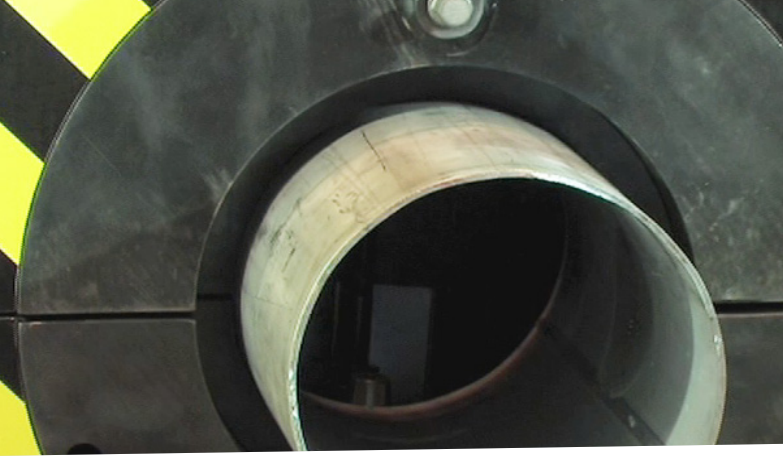
Mechanical services for multi-story buildings



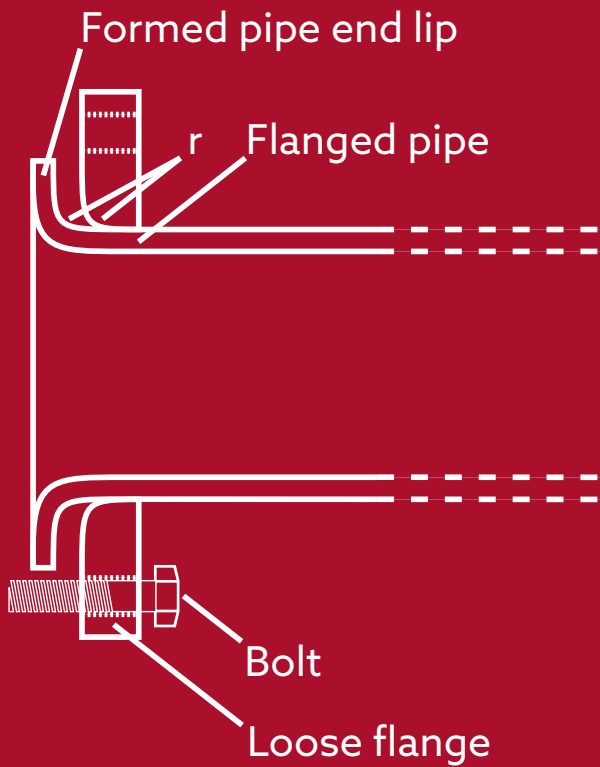
Ventilation systems



District heating and cooling piping



## ***LOOSE FLANGE JOINT***

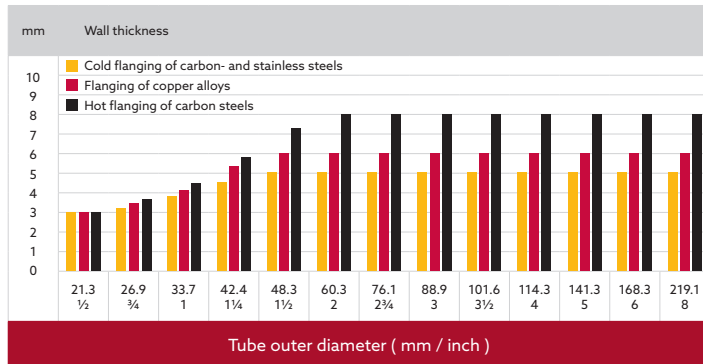




## F-200 Flanging machine

The T-DRILL F-200 is capable of both hot and cold forming of most malleable materials within an O.D. range of 21,3-219,1 mm.

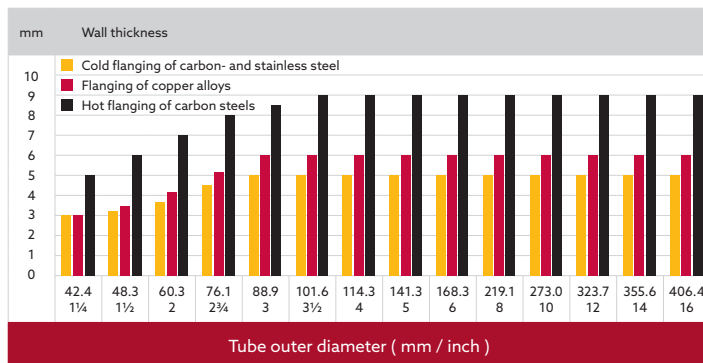
### Capacity of F-200



## F-400 Flanging machine

The T-DRILL F-400 meets the most demanding requirements of pipe manufacturing on larger O.D. ranges. It is capable of both hot and cold forming within an O.D. range of 42,4-419 mm.

### Capacity of F-400

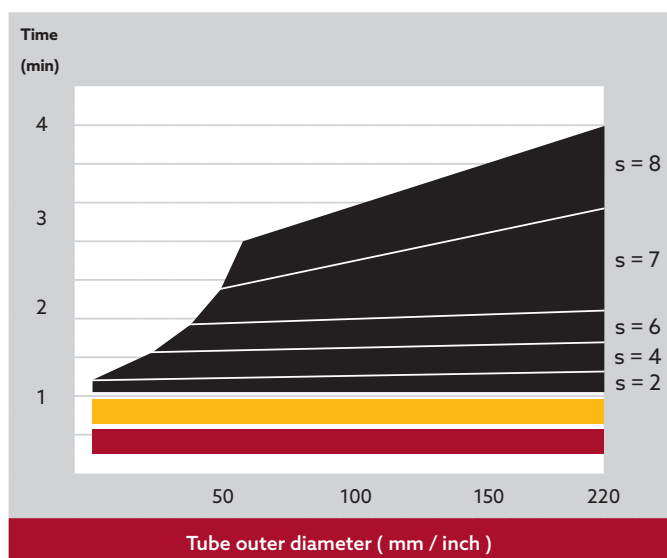


## Technical data

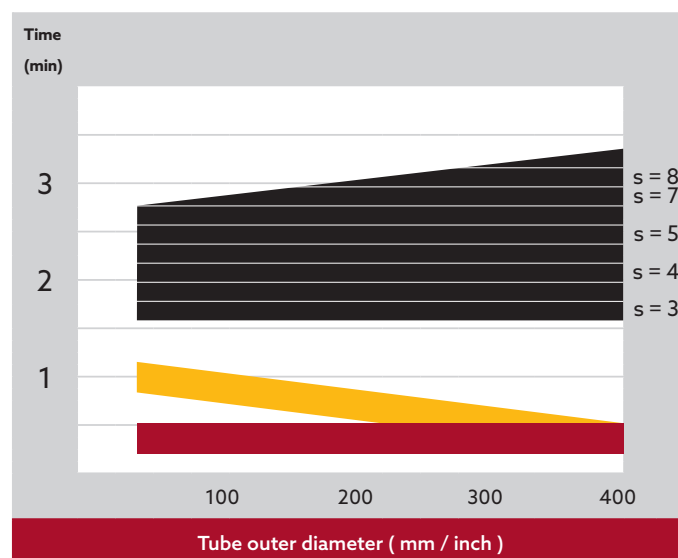
	F-200	F-400
Pipe to be flanged	Ø21,3-219,1 mm	Ø42,4-419 mm
Materials to be formed	Copper, Carbon steels, Stainless steel, Aluminium	
Rated power	10 kW	15,5 kW
Air supply	6 bar/90 psi	6 bar/90 psi
Motor of hydraulics	4 kW	4 kW
Hydraulic pump output	0...23 l/min	0...25 l/min
Gas connections for burner	Oxygen 6 bars, propane 2 bars	Oxygen 6 bars, propane 2 bars

The information included in this brochure is subject to revision without notice.

## Flanging times for F-200



## Flanging times for F-400



Sometimes thinner than 2 mm wall pipes needs multi-stage flanging. In case of better flanging time estimation needed, please contact T-DRILL sales.

- Multi-stage flanging
- Flanging in one stage
- Hot flanging on different wall thicknesses

- Multi-stage flanging
- Flanging in one stage
- Hot flanging on different wall thicknesses

The charts above are meant to be suggestive only. Total times depend on the material specifications.

## DO IT WITH T-DRILL

Cut costs – Improve quality – Increase profit

- + Cut workshop costs by eliminating the need for welding and X-raying.
- + Precise and stable results, no risk of weld or braze fracture
- + No costly flange inventories or complex equipment needed
- + Fast installation with loose flanges, no bolt-hole positioning
- + Very easy to operate and practically maintenance-free with programmability
- + Hot & cold forming for long and bent pipes, smooth/grooved flanged surfaces.

### MANUFACTURER:

# T-DRILL

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