

T-DRILL PRODUCTIVITY AS A PRODUCT.

F-420e

Revolutionary – fully electric Flanging Machine

Takes the flanging technology to a whole new level

Globally the first of its kind, T-DRILL's revolutionary Flanging Machine F-420e, is by far the most advanced flanging machine on the market – implemented with entirely programmable servo technology.

T-DRILL F-420e guarantees the highest possible workpiece quality and repeatability, including the best quality-related software adjustments on the market. All adjustments by the program – ensure the fastest set-up time, also when switching from one pipe dimension to another.

The machine is easily operated to achieve maximal quality with minimal operator effect. Also, maintenance is very easy (no hydraulics), including mainly cleaning and lubrication.

F-420e is suitable for malleable materials, such as copper, carbon steel, stainless steel, aluminium, pipe diameters up to 420 mm (16"), wall thickness up to 6 mm with cold forming, and 10 mm with hot forming (carbon steel).



Technical data

F-420e	
Pipe to be flanged	Ø33,7 – 419,0 mm
Materials to be formed	Copper, CuNi, Carbon steel, Stainless steel, Aluminium
Max. wall thickness	SST 6mm, excluding small tubes Hot forming for carbon steels up to 9 mm
Operating voltage/Power	380-440 V / 50/60 Hz - 3-phase/ 12 kW

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

Key Features:

- Fully Electric: no hydraulics and pneumatics
- Process fully by the program & servo technology – means excellent repeatability with minimal quality-related operator effect
- Modern, easy, and instructional user interface and touch screen
- Extended safety features and operations
- Safe induction heater option for hot forming
- Optimized process speed without prevalent temperature dependence
- Workpiece-specific programs can be saved, selected, and loaded
- Easy and fast set-up time for new products – also when switching from one pipe dimension to another
- A stable, robust structure guarantees vibration-free operation
- Low energy consumption
- 0-90 ° flaring programmatically without accessories
- Expansion for the slip fit optionally
- Clamping force adjustable by the program
- Minimal need for maintenance – mainly cleaning and lubrication
- Remote condition monitoring/diagnostics possibilities (service)
- Industry 4.0 ready

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

