T-DRILL

PRODUCTIVITY AS A PRODUCT.

# OCC-115

## ORBITAL CUTTING & CHAMFERING MACHINE

Automated tube cutting machine with a wide range of configurable options

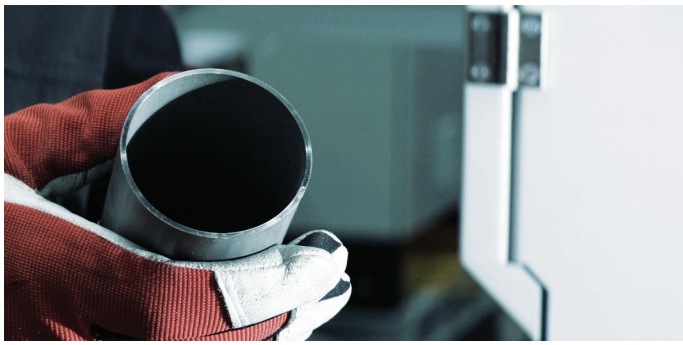
# OCC-115 ORBITAL CUTTING & CHAMFERING MACHINE

**T-DRILL OCC-115** is an automated tube cutting machine designed for the orbital cutting and chamfering of tubes up to O.D. Ø 114.3 mm with wall thicknesses of up to 6 mm, delivering exceptional quality and precision.

The tube remains stationary while rotating tools perform the cut. Combined with T-DRILL's tube gripping method and the even distribution of cutting forces, this preserves tube geometry, minimizes I.D. reduction, and eliminates the risk of damage caused by rotating bent tubes.

The OCC-115 combines cutting with the creation of four chamfers in a single work cycle: internal and external chamfers on both pipe ends. This produces weld-ready tube ends directly from the machine, reducing handling and eliminating secondary chamfering operations.

Using a lathe-style cutting process, the OCC-115 produces a single continuous chip instead of fine cutting debris, simplifying chip handling and helping maintain a clean production environment.

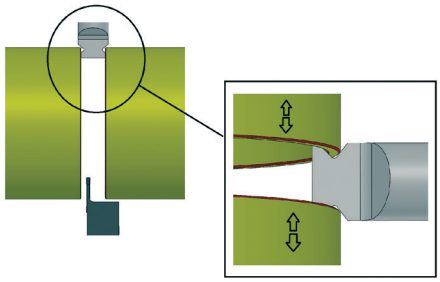


## Key Benefits

- Wide capacity range
- Weld-ready cut surface
- Tube is stationary during cutting – consistent cut quality and tube geometry, no risk of damage caused by spinning bent or irregular material
- Chamfering of both inner and outer edges at both pipe ends in a single work cycle
- Production rates up to 300 pcs/h
- Automated tube feeding cutting and chamfering
- Modern, easy-to-use user interface

## Technical details

| OCC-115 ORBITAL CUTTING & CHAMFERING MACHINE | |
|---|---|
| Cutting range | O.D. Ø Ø 6–114.3 mm (cutting)<br>O.D. Ø 10–114.3 mm (cutting & chamfering) |
| Wall thickness | 1–6 mm (minimum depends on tube diameter) |
| Material | Aluminium, Copper, CuNi, Steel, Stainless Steel |
| Repeating accuracy | +/- 0,1 mm |
| Min. cut length | 20 mm |
| Trim cut | 20 mm |
| Offcut | 40 mm + cut off piece length |
| Waste piece min. | 151 mm |
| Typical production rates | 100 - 300 pcs/h depending on cut length, material and required cut quality |
| **Tooling:** | |
| Parting off inserts | Standard (Width 1,5 mm) |
| Deburring/ chamfering | Special insert according to customers' needs |
| Tube clamping | According to tube diameter |
| Gripper jaws (feed/ outfeed) | V-style / according to tube diameter |
| Coolant | Water-miscible coolants |



## Typical Applications

Data Centers | HVACR | Process Piping | Shipbuilding | Water Treatment


MANUFACTURER:

**T-DRILL OY**
Ampujantie 32
66400 Laihia, FINLAND
Tel. +358 6 475 3333
sales@t-drill.fi
www.t-drill.com

**T-DRILL Industries Inc.**
1740 Corporate Drive
Norcross, GA 30093, USA
Tel. 1-800-554-2730
sales@t-drill.com
www.t-drill.com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