

BALLIU

Balliu streamlines tube machining with Flextopus and SINUMERIK ONE

Customer Challenge

- Traditional tube machining for custom parts involves multiple machines and steps (cutting, drilling, lasering), which increases errors, material waste, setup time, and process complexity. Balliu needed a solution to **unify all tube processing steps into one efficient workflow**.

Solution

- Balliu developed **Flextopus**, an integrated tube machining system that takes a 3D drawing and, in one workflow, produces drilled, lasered, and finished tubes using **Siemens SINUMERIK ONE** — a digital CNC platform that combines precise motion control, advanced machining strategies, and digital twin capabilities.

Customer benefit

- **Fewer errors & losses:** Integrated machining reduces manual transfers between machines, lowering defects and rework.
- **Up to 20 % better material use:** Enhanced process precision and integration improve cutting and machining efficiency, reducing scrap.
- **Simplified workflow:** One platform from 3D design to finished tube shortens lead times and improves production flexibility