NEOTISS
HIGH PERFORMANCE TUBE

Three-Dimensional Bending Process

NEOTISS France - Les Laumes Plant

NEOTISS, leader of heat exchanger welded tubes for premium markets, has extended its range of tubular goods to tubes with complex three-dimensional geometries. NEOTISS is now 100% integrated to deliver tubes from strip to three dimensional bent tubes.

Grades

Titanium
Stainless steel
Nickel base alloys
Copper alloys

Geometry

Coiling
Two- and Three-dimensional bending

Technology

Smooth
Single or dual enhanced
Helix

Our added-value

Thanks to its expertise in the forming of tubes in exotic materials, Neotiss has been able to master the bending of tubes in titanium, stainless steel and high nickel alloys. By bringing together its mechanical, chemical and thermal expertise of exotic materials, Neotiss is now able to support its Customer in the development of high-performance tubes with complex geometry.

Our equipment

Neotiss is equipped with a CNC tube bending machine being able to realize complex tube geometries. It is a multitrack multiradius with a bending direction that can be changed easily.
Our equipment has 9 controlled axes that govern the movements of the machine and are driven by absolute digital electric motors with electric technology, controlled by a CNC program. Our equipment offers high production speed with an excellent reproducibility and can produce tube with a Bending Radius/Tube Diameter ratio very low.

Our range of bent tubes

Outside tube diameter: 4 to 25 mm
Tube thickness: 0.4 to 2.0 mm
Tube materials: titanium, stainless steel, nickel base alloys, copper alloys
Tube condition: as welded or heat treated by inline induction (before bending)
Tube technology: smooth, low finned, helix
Maximal bending radius: 150 mm
Other dimensions or grade upon request.

The application

Three-dimensional bent tubes could serve a wide range of markets including aerospace, food and beverage, leisure, heating element or automotive.