

2026-02-24

## Machinery List / Plant List



**NIRAS** has 5 Induction Bending Machines. The machines bend pipe diameter (OD) from 16 mm to 508 mm.

Wall thickness (WT) from 2 mm to 100 mm and centre radius from 70 mm to 22.000 mm. Factors as material grade, bending angle and wall thickness together with the customers requirements are important to determine the smallest possible radius.

**Please see: "Design Criteria for induction bending"** in the "**Downloads**" section of NIRAS web page, to find physical limitations for the bending machines.

We will be more than happy to assist you in the stage of planning and design. "Contact page" on the NIRAS web page guide you to our employees.

NIRAS web page: [www.niras.no](http://www.niras.no)

**METRONOR** - Optical 3-dimension measure equipment.

### Laboratory

Struers Tegramin-30 preparation system for metallographic specimens.

Struers DuraScan-20 Hardness Tester with automatic image evaluation to ensure the highest possible repeatability.

Zeiss Axio Vert Microscope for microstructural evaluation along with Zen image analysis software.

Corrosion testing in accordance with ASTM G-48

### Fully Automatic heat treatment oven NORSOK M-650 Approved

Temperature range 580°C to 1150°C

Inside dimension l x b x h (mm) 6300 x 2600 x 2000

Heating and cooling is being logged electronically.

Temperature measured in the furnace, on the material and in the pool.

Plant



### Plant

Total office area: 850 m<sup>2</sup>

Total workshop area: 4500 m<sup>2</sup>

Covered warehouse: 900 m<sup>2</sup>

Outside storage: 4000 m<sup>2</sup>

Crane capacity: 8 Pcs x 6,3 ton

Truck capacity: 7 ton

### Machine F



### Machine E



### Machine D



### Machine C



### Machine B



### Blasting



### Heat treatment robot and furnace

