

GRIDIN'S GROUP

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METALWORK AND FABRICATION OF STEEL STRUCTURES

ISO 9001
ISO 14001
ISO 18001

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GRIDIN'S GROUP INTRODUCES A PARTNER OPERATING A STEEL STRUCTURE PRODUCTION PLANT IN FINLAND

A strategic approach to the organisation of the production as well as favourable location of the plant allows achieving mobilisation of industrial and professional resources to perform major projects. Plant capacity as well as competence and experience of the employees, use of modern technologies and equipment – all of this allows us to be among the leaders in the field of production of various types of steel structures of any complexity and purpose.

Main activities are:

- Primary steel constructions for offshore and onshore, oil & gas, wind, power and industrial sectors;
- Secondary steel constructions for different applications;
- Manufacturing, painting, assembling and transportation of various steel constructions such as gantry, STS, industrial overhead and RTG cranes, Straddle carriers, wind turbine towers, autoclaves, subsea products etc.

Advantageous geographical location of the plant allows to ship the production efficiently by any mode of transportation: sea, road.

ISO 9001 OHSAS 18001
ISO 3834-2 EN 1090-1 Exc3



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Main advantages are:

- Lifting capacity up to 400t
- Assembly area right next to harbour
- Over 10,000 m^2 roofed fabrication area
- More than 10 hectares of storage area
- Harbour with two piers (shipping lane depth 8m)
- Yard assembly area

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Factory info

- Factory and the storage area: 22 hectares
- Workshop: 9 000 m^2
- Surface treatment facilities: 1 930 m^2
- Lifting capacity on yard: 50t, 200t (410t)
- Workshop overhead bridge cranes: 3x100t, 1x40t, 3x20t etc.
- Highest area - height under the hooks - 23 m.

WORKSHOP AREAS





Prefabrication:
- Cutting
- Part preparation
- Machining

Plateworks

Steel structure assembly:
- Box assembly portal
- Normal assembly area
- High assembly area

Tubular structures:
- Plate rolling
- Joining blocks



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MAIN FABRICATION EQUIPMENT

- Plate rolling machines
- Plate portals
- Oxyfuel cutting with CNC
  (Smax:300 mm x:7000 mm y:24000 mm)
- Plasma cutting with CNC
  (Smax:20 mm x:3000 mm y:12000 mm)
- CNC controlled milling center
  (x:4000 mm y:1250 mm z:1000 mm)
- CNC controlled lathe
  (Dmax350 mm (560) Lmax1700 mm)
- On-site machining / line boring
  (Dmax600 mm Lmax5000 mm)



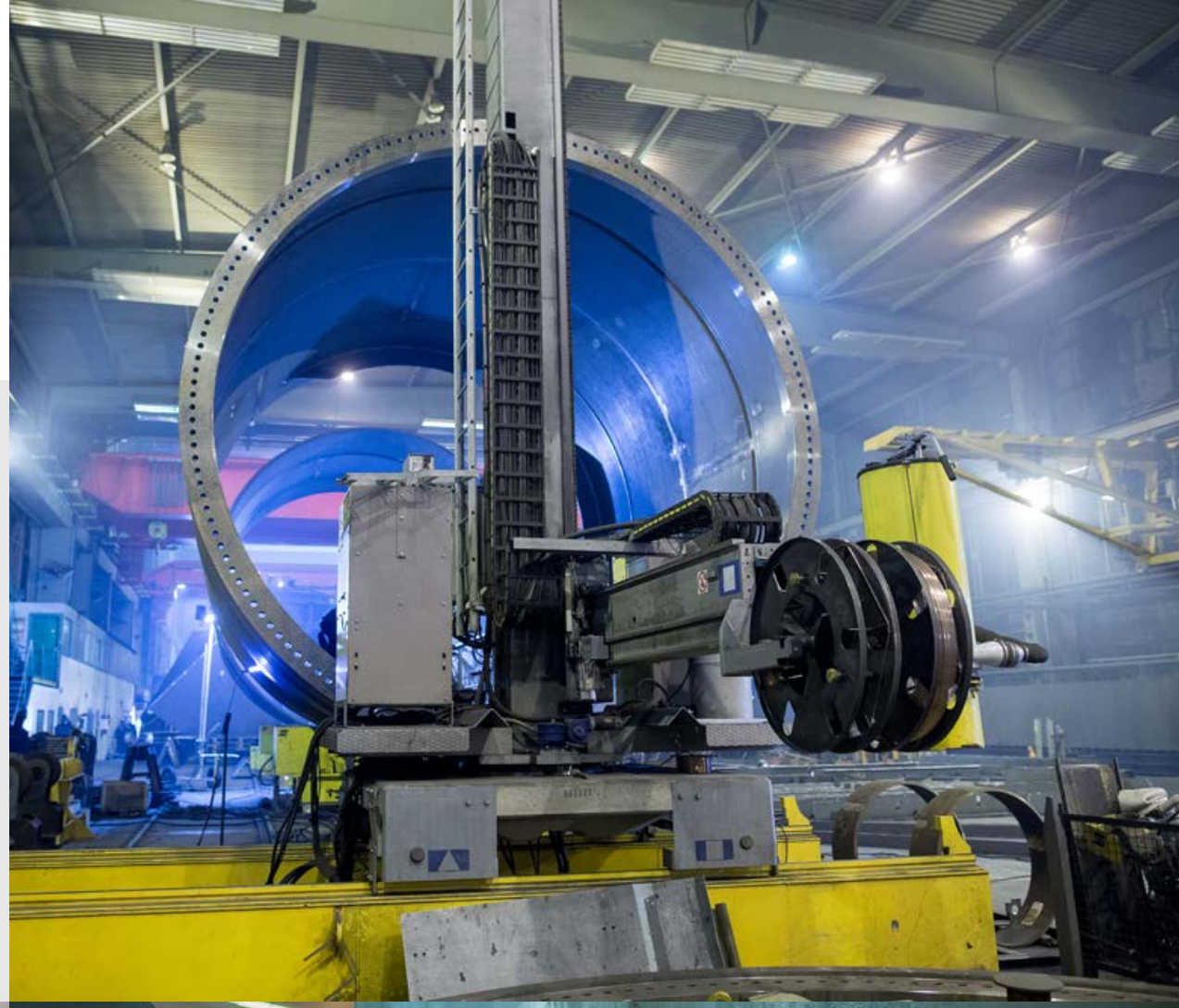


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STEEL STRUCTURE PLANT
IN FINLAND

MAIN FABRICATION EQUIPMENT

- Davi 4-roll rolling machine with CNC (Lmax:3000mm Dmax:6000mm Smax:42mm (S355))
- Roundo 4-roll rolling machine (Lmax:2500 mm Dmax:6000mm Smax:60mm (S355))
- Esab welding tower tandem-SAW 2 * 1000 A (x:5000 mm y:6000 mm)
- Bode welding tower tandem-SAW 2 * 1000 A (x:6000 mm y:6000 mm)
- Flange welding station (Dmax:6000 mm)
- WTG tower fabrication lines:
  Line A (Esab); Line B (Pema)







WELDING

2 * IWE
4 * IWS
Qualified welders:
EN 287-1
ISO 9606-1
Qualified welding operators:
EN 1418
ISO 14732
Welding processes:
111, 121, 123, 136, 138, 52, 783
WPQR EN 15614-1 s=8-120 mm (DNV)







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NON DESTRUCTIVE TESTING

NDT methods:

- PT – dye penetrant testing;
- MT – magnetic particle testing;
- VT – visual testing;
- ET – eddy current testing;
- UT – ultrasonic testing:
  - Manual method:
    - »UT – ultrasonic testing;
    - »UTM – ultrasonic thickness measurements.
  - Automatic method (P-scan system):
    - »P-scan – welding seams testing;
    - »T-scan – corrosion mapping (C-scan).

Specialists are certified to ISO 9712.





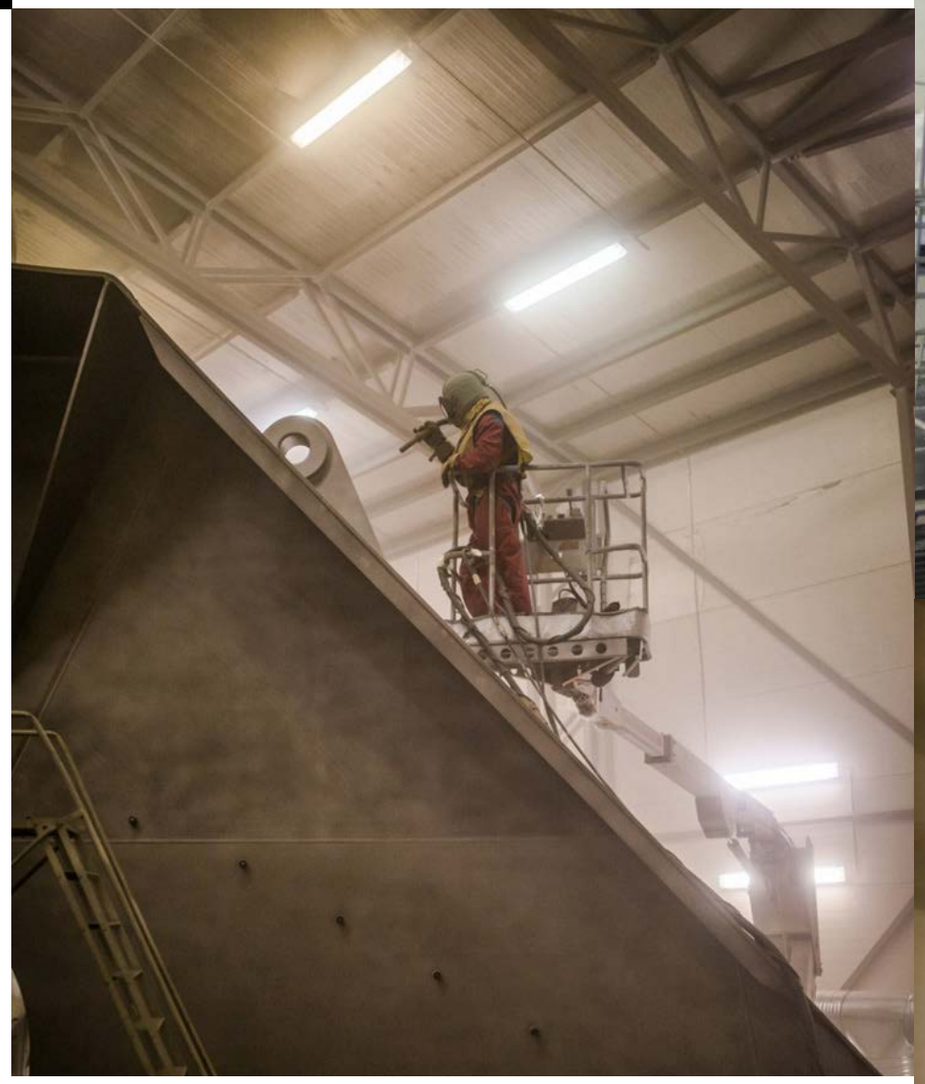


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SURFACE TREATMENT: BLASTING







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SURFACE TREATMENT: PAINTING

Painting hall for large structures

Four specially equipped painting halls make it possible to prepare the structure surfaces for painting by applying sandblast cleaning, paint-and-lacquer coating of any kind, and metal-spraying coating.

If needed, location and sizes of painting halls allow painting either separate parts of large structures or painting entire large structures.





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STEEL STRUCTURE PLANT
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MAIN PRODUCTION TYPES

Offshore:

- Cranes for offshore
- Subsea components

Wind energy:

- TP's
- Wind generators towers













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STEEL STRUCTURE PLANT
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MAIN PRODUCTION TYPES

Cranes: RTG, STS, etc

- construction
- electrification
- maintenance
- modernisation
- transportation
- relocation







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