

Rev.04

Company presentation Maskinering AS

Date: 04.01.18

MASKINERING A.S



Production of machine parts – Welded structures – Mechanical work
Established 1974

Company presentation

English

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Company data and contact information

- **Company name:** Maskinering AS
- **Address:** Burøyveien 18
- **Postal code and city:** 8012 Bodø

- **CEO:** Kjell-Ivar Ysland
- **Mobile:** (+47) 90 04 92 98
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- **E-mail:** firmapost@maskineringas.no
- **Internet:** www.maskineringas.no

- **Facebook:** <https://www.facebook.com/MaskineringAS/>
- **LinkedIn:** coming up soon

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Approvals

Quality:



Welding:



Civil construction:



In addition we have ship and offshore clearance in all of our special fields, and are approved suppliers for Aker and Kværner.

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Main fields of activity – our offers for you

- Production and repair of machine parts according to your specifications, drawings and preferences via turning, milling and drilling etc., applying both CNC-controlled and manually operated machines
- 3D-waterjet cutting on 5 axis waterjet cutting machine
- Mobile machining via turning, milling and line drilling – on-site adaption and repair of wear related damages – Maskinering AS is a specialist in mobile machining.
- Welding of structures according to EN 1090, pipe systems and pressure vessels in accordance with pressure equipment directive PED (2014/68/EU), repair welding and welding of uncertified structures for non-critical applications and individuals
- Mechanical services, including hydraulics
- Pipe fitting
- Technical expert services in materials technology, qualification of welding procedure specifications (WPS/WPQR) and qualification of welders
- Heat treatment of small parts

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Main fields of activity – references from former projects

**FORSVARET**

For alt vi har. Og alt vi er.

**HEIDELBERGCEMENT
GROUP****HENT**

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Our facilities

- Our facilities include a welding shop, a machining shop, administration building with 6 offices and a meeting room and 8500 m² of open-air ground.

Work shop	Length [m]	Width [m]	Height [m]	Portal size w × h [m]	Crane capacity [t]	Max. height beneath crane hook [m]	Work-place cranes (500 kg)
Welding shop	48	18	12	9 × 9	20 + 20	10	4
Machining shop	48	18	6	5 × 5	12,5	4,2	3

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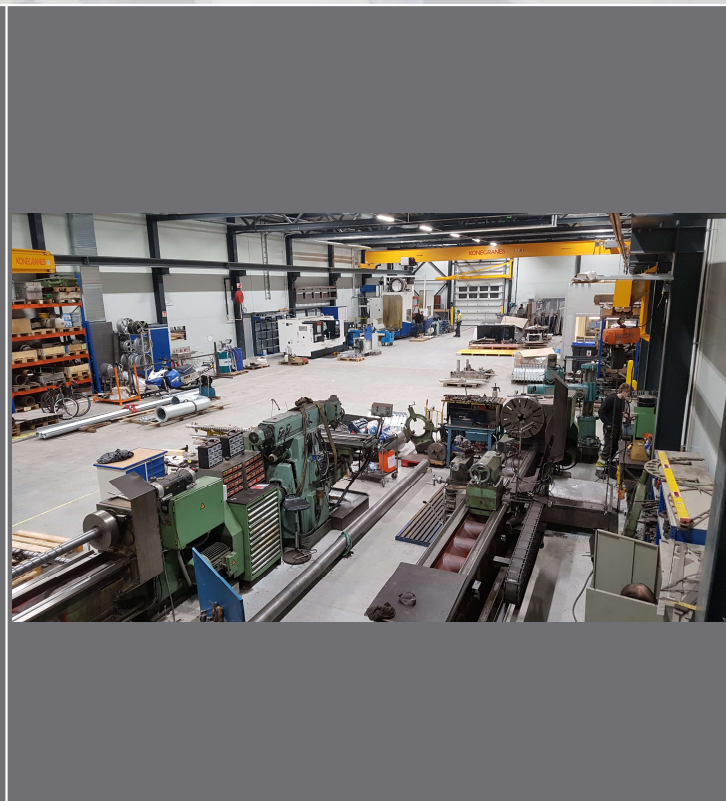
Our facilities – overview pictures



Outside



Welding shop



Machining shop

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Production equipment - stationary

Type of equipment	Max. Work piece size [mm]	materials	Note
Turning	Ø1200 × 8000	All metallic materials and plastics	Both CNC-controlled and manually operated
Milling	3200 × 2000 × 1200	All metallic materials and plastics	Both CNC-controlled and manually operated; max. Weight capacity on table: 11000 kg
Waterjet cutting	4200 × 2600 × 300	All water-resistant materials	Max. pressure: 6500 bar, capable to cut section thicknesses from foil and up to 300 mm
Bending	4000 (width)	All materials suitable for plastic deformation	Max. pressing force: 3200 kN
Line drilling	Ø41 – 1700	All metallic materials and plastics	Larger diameters can be drilled with special equipment



Production equipment – mobile and supporting equipment

Type of equipment	Max. Work piece size [mm]	Materials	Note
Hardening	970 × 290 × 290 (charging racks)	Materials suitable for heat treatment in normal atmosphere	Max. operation temperature: 1150 °C
Mobile machining	No size limits	All metallic materials and plastics	All equipment for mobile turning and milling is made by Maskinering AS

- In addition to the equipment named above, Maskinering AS has available welding machines for manual welding methods 111, 136/138 og 141, rollers, saws and a plasma cutting machine etc.
- For more information please have a look on the web site:
www.maskineringas.no/OurMachinepark

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Technical expert services in materials and welding

- Maskinering AS has its own welding coordinator IWE, «comprehensive level», certified according to EN ISO 14731.
- The welding coordinator has long term experience in materials engineering and welding co-ordination in offshore-related industries.
- Thus Maskinering AS has the possibility to take jobs that involve requirements of accordance with NORSOK-standards M-001, M-101, M-102, M-120, M-121, M-601, M-630, M-650, (M-501) or DNV-OS-C101 and DNV-OS-F101.
- Maskinering AS has as well the possibility to perform tasks where accordance with pressure equipment directive PED (2014/68/EU) or EN 1090 is required.
- We can offer you technical expert services in these fields as well.

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HARDOX® WEARPARTS Center

- In summer 2017 we were appointed HARDOX® partner
- For you, as our customer, this means that you get a partner who:
 - Is acknowledged supplier for SSAB's HARDOX® products
 - Has experience and competence with processing of HARDOX® products
 - Gets competence support from SSAB, if this is required
 - Has a certain assortment of HARDOX® products on store
 - Is preferred consumer for SSAB, that can supply you quickly with the products you need, in case we don't have them on store
- Please find an example on [page 16](#)





Examples from former projects - turning

- **Task:** turning of a crankshaft for roller mill
- **Dimension work piece:** \varnothing 580 mm \times 2300 mm
- **Weight finished wp.:** ca. 1700 kg
- **Material:** SS2541 (QT steel)

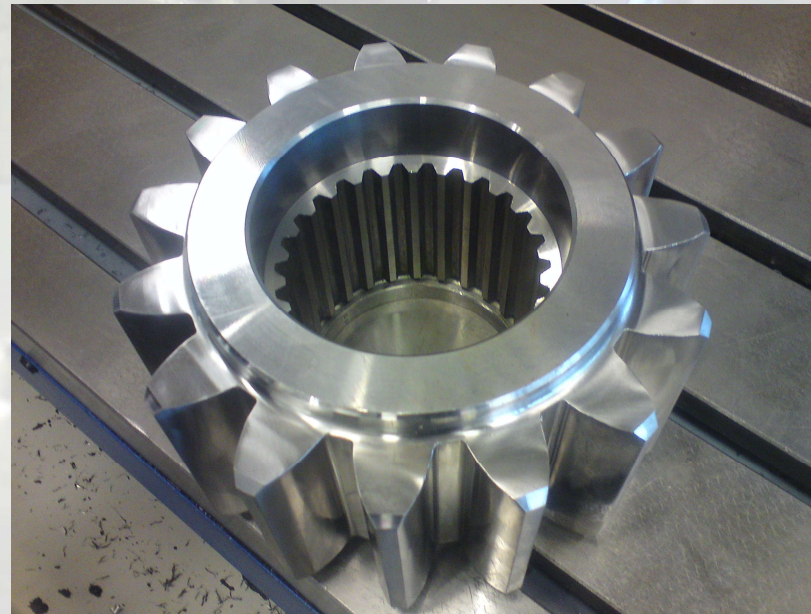


Finished crankshaft



Examples from former projects - milling

- **Task:** Milling of a gear wheel for ship loader
- **Dimension work piece:** module 16 (DIN 5480)
- **Material:** SS2541 (34CrNiMoS6 – QT steel)



Finished gear wheel



Examples from former projects – waterjet cutting

- Applying waterjet cutting it is only your phantasy that limits the possibilities, as can be seen in the picture below. This object was cut out on our waterjet cutting machine. With ongoing and upcoming projects we will get further references soon.



Demonstration of possibilities
when applying waterjet cutting



Examples from former projects – repairwelding

- **Task:** Weld and install wear plates on wheel loader bucket
- **Weld dimensions:** Weld length: >2.5 m; section thickness: 30 mm
- **Material:** Hardox® 450 (QT steel)

- [Go back to page 12?](#)



Finished bucket with welded wear plates



Examples from former projects – turning on-site

- **Task:** Turning of raceways and support rolls for cement furnaces
- **Dimension raceways:** \varnothing 6800 mm



One can see the raceways in the upper left corner and in the center of the picture.

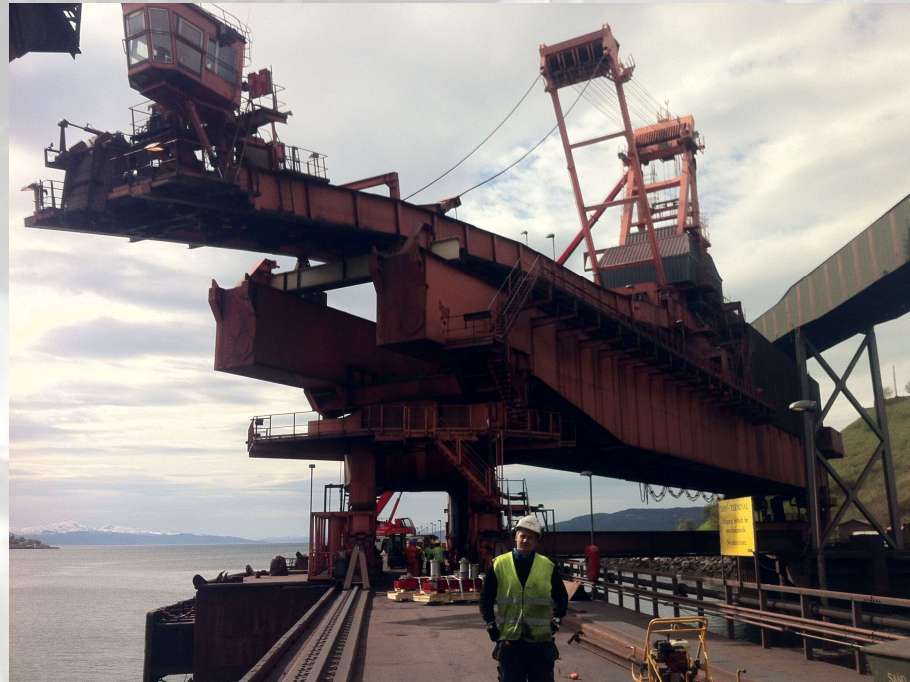


Examples from former projects – installation of new boogies

- **Task:** Disassembly, line drilling and assembly of new boogies for ship loader (for loading of ore)



Disassembly
of boogies



Ship loader in full size

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Examples from former projects – further projects

- For further examples from former projects you are welcome to have a look on our websites:
- **Machining:** www.maskineringas.no/machining
- **Mobile machining:** www.maskineringas.no/Onsitemachining
- **Welding:** www.maskineringas.no/Welding
- **Mechanical works:** www.maskineringas.no/Mechanical

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Ending

- If you have any project where we can contribute with our competence and our equipment, you are welcome to contact CEO Kjell-Ivar Ysland. Please find contact information on [page 3 \(click here for forwarding\)](#) of this presentation.
- Of course you are also welcome to visit us at our facilities for a guidance and a discussion. Please contact CEO Kjell-Ivar Ysland for this.
- We are looking forward to hear from you.