



**Nordic FSW Group**  
**07.03.2007**

**Presentation of**  
**Marine Aluminium AS**

By Leif M. Kaalaas

# Marine Aluminium



- ✓ 1. Adm. Office
- ✓ 2. Work shop 102x32/28 m
- ✓ 3. Store
- ✓ 4. Work shop 15x9 m
- ✓ 5. Test area telescopic bridges
- ✓ 6. Store office
- ✓ 7. Outdoor area
- ✓ 8. Deepwater quay 12 m depth

- ✓ 9. Work shop 15x15 m
- ✓ 10. Work shop 36x20 m
- ✓ 11. Work shop 35x25 m
- ✓ 12. Machine shop
- ✓ 13. Store
- ✓ 14. FSW Shop 56x30 m
- ✓ 15. Quay 5 m depth
- ✓ 16. Outdoor area
- ✓ 17. Work shop 33x14 m



# Organisation

Man.direct or  
Jan Jhannesen

QA/QC  
Jari J Inermo

Business Support  
Jan Jhannesen

Sales & Marketing  
Arild Frøkedal

Fabrication  
Reidar Tollefsen

Technical Services  
Jarle Solli



# Sales

Sales Manager  
Arild Frøkedal

Marine/ FSW  
Leif M. Kaalaas

Offshore  
Dag Engedal

Helideck  
Arild Frøkedal

Acc.ladders/  
WJC  
Tor Storesund

Offshore/  
Reefer Grating  
Torvald J Larsen

Railing system/  
Grating/materials  
Kjell S. Solheim

Spare parts  
Odd M. Tønnesen

Terje Apeland

Per Kjartan Huse





# Product range Al. Fabrication

## Offshore Helidecks M & T

Modules

Telescopic

Gangbridges Buildings

Railing Systems

Subsea Protection

Structures

LQ Components

Oil Platforms

Ships

Ship Modules

Acc. ladders

Shore Gangways Flexibarriers

Sea Marks

FSW panels

Reefer Grating



## Degrees of completion available:

- 1: Material sales only
- 2: Engineering only
- 3: Prefabricated panels/products (Container kits)
- 4: Complete structures (blocks/modules)
- 5: Structures including outfitting
- 6: Installed "Turn key" packages

According to customers requirements



# Capabilities

- **10 Skilled Engineers**
  - **Project Managers, Designers, etc**
- **50 Skilled Operators**
  - **Platefitters and Welders (Mig/Tig/FSW)**
  - **NDE**
- **Main Fabrication Shops**
  - **102 x 32/28 m**
  - **56 x 30 m**
- **Deepwater Quay 12m**
- **Mooring Facilities**
  - **Up to 3 Semi submersible Rigs**
- **Total area 100,000 m**



# Typical MA Products





- Offshore Modules





# Offshore Contolroom module:







# Telescopic Bridges

Totally 30 bridges  
delivered





# Flexibarrier:







# Railing Systems:







# Helidecks in fabrication





# “Oseberg Sør” Living Quarter







# Helicopterdeck “Normand Pioneer”



Foto:  
H. H. V. der haug





# Helideck projects



LKH WOLFSBERG/AUSTRIA

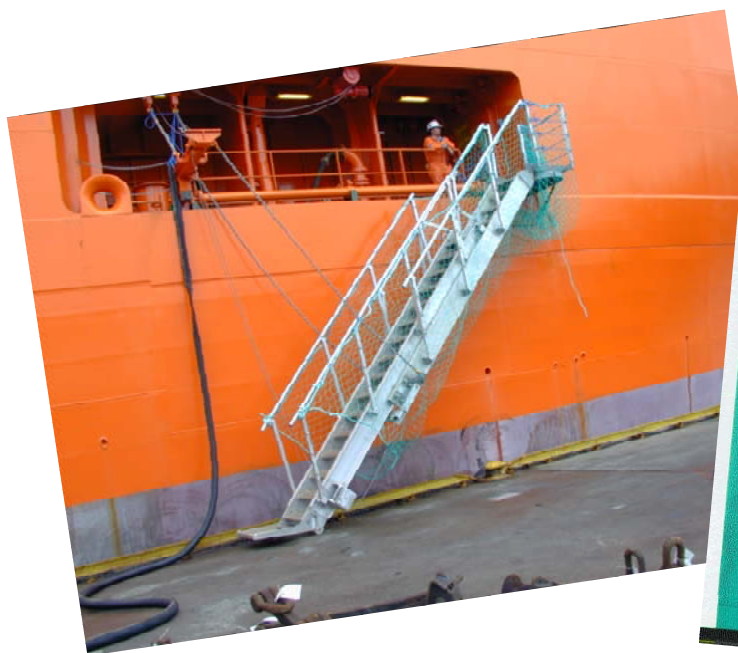


# Water Jet Cutting





# Accommodation ladders





# Friction Stir Welding

- First machine in commercial use.
- Max panel size : 16 x 26 meter







- Panels for Truck and Container transport







# Mega Panels





# Multi stiffened panels







# Superstructures made from FSW Panels







# Fjellstrand Ferry Cat



**180 tonnes of FSW panels**  
**Superstructure and hull sections**







# Nobel Piece Center in Oslo





# Peace Portal at night

