



“Kalmar forklifts are a nice piece of machinery, they just run and run.”

PER EINEMO, MAINTENANCE MANAGER  
ELKEM, BJØLVEFOSSEN

# Extreme Heat

Handling material with temperatures up to 2000° C requires specialized equipment and extreme precision.

**Name** Elkem  
**Location** Bjølvfossen, Norway  
**Employees** 155

**Kalmar fleet**  
1 x Kalmar DCG160-12  
2 x Kalmar 10 tons FLT  
4 x Kalmar 4 tons FLT



# Protected for liquid metal

Liquid metal is no match for Kalmar.

## The challenge

Elkem, Bjølvfossen is located right by the Hardanger fjord 110 kilometers from Bergen, Norway.

Elkem specialises in producing magnesium-ferrosilicon master alloys. Bjølvfossen is among the world's largest producers of magnesium-ferrosilicon. Magnesium-ferrosilicon is used in different steelmaking processes. The liquid metal is poured into a 3 m<sup>3</sup> large vat and then transported to different parts of the factory where the liquid metal is divided to smaller vats.

## The solution

Elkem operates a specially designed Kalmar DCG160-12 to transport the vat of liquid metal. The medium sized machine is equipped with heat protection kit in order to cope with the extreme heat generated from the vat. All hoses in the mast and carriage are heat protected and an extra windshield to protect the cabin from splashes from the vat. The metal mixture reaches a temperature of almost 2000° C.

## The results

Elkem's Per Einemo, Maintenance Manager has been working for Elkem over 40 years and has a long experience of Kalmar's Forklifts:

– "We bought the first Kalmar machines in the eighties and we have been very happy with the quality and support from Kalmar. We have one 10 ton machine which has been running more than 35.000 h. Kalmar forklifts are a nice piece of machinery, they just run and run. I expect the new DCG160-12 will last just as long," says Per.

## Contact

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Kalmar is the industry forerunner in terminal automation and in energy efficient container handling, with one in four container movements around the globe being handled by a Kalmar solution. Kalmar is part of Cargotec.

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