

# Case Study Boliden - Rönnskär

**KRAFT  
POWERCON**

**UMD secure operation of an 11kW lube oil pump during power outages and disruptions**

## Customer

Boliden's plant Rönnskär in Skelleftehamn is one of the world's most efficient copper smelters and is in addition Boliden's greatest production unit. The plant receives deliveries of copper and leads concentrates from both Boliden's own mines and from external suppliers. The smelter is a world leader in electronics recycling. Boliden extracts primarily copper, gold, and silver from these materials.



## Challenge

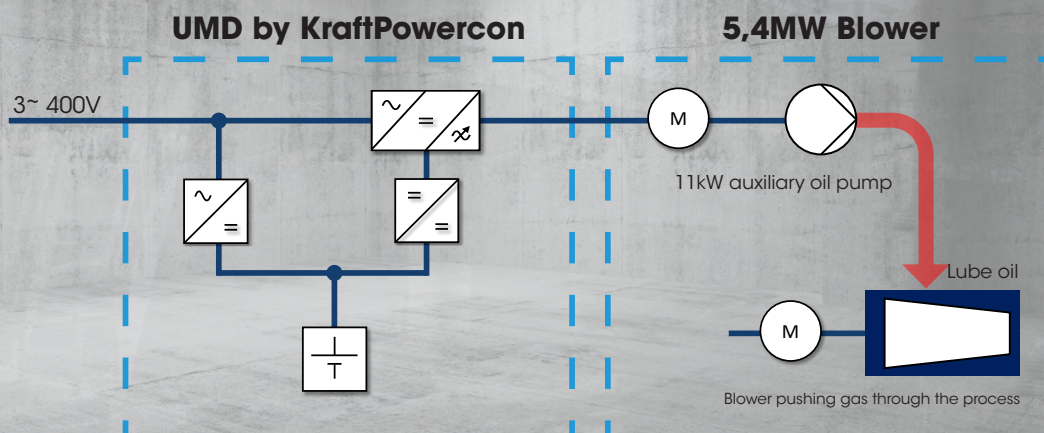
Boliden Rönnskär faces a major challenge to secure constant lubrication to the rotating machinery, in all situations. A 5,4 MW blower is pushing the hot gas through the process. While rotating, the axial blower requires constant lubrication to avoid damage.

During start, or stop the lubrication is secured by an auxiliary oil pump. At power outage or disruptions the blower and its auxiliary equipment will turn off and will not be able to start. This makes a risk of damage during rollout.

To avoid damage during power outages and disruptions, Boliden Rönnskär decided to invest in a solution to secure the operation of the auxiliary lube oil pump. This ensures that the 5,4 MW blower can safely start and stop.



## Uninterruptible Motor Drive



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## Solution

KraftPowercons solution is a complete system for Uninterruptible Motor Drives (UMD™).

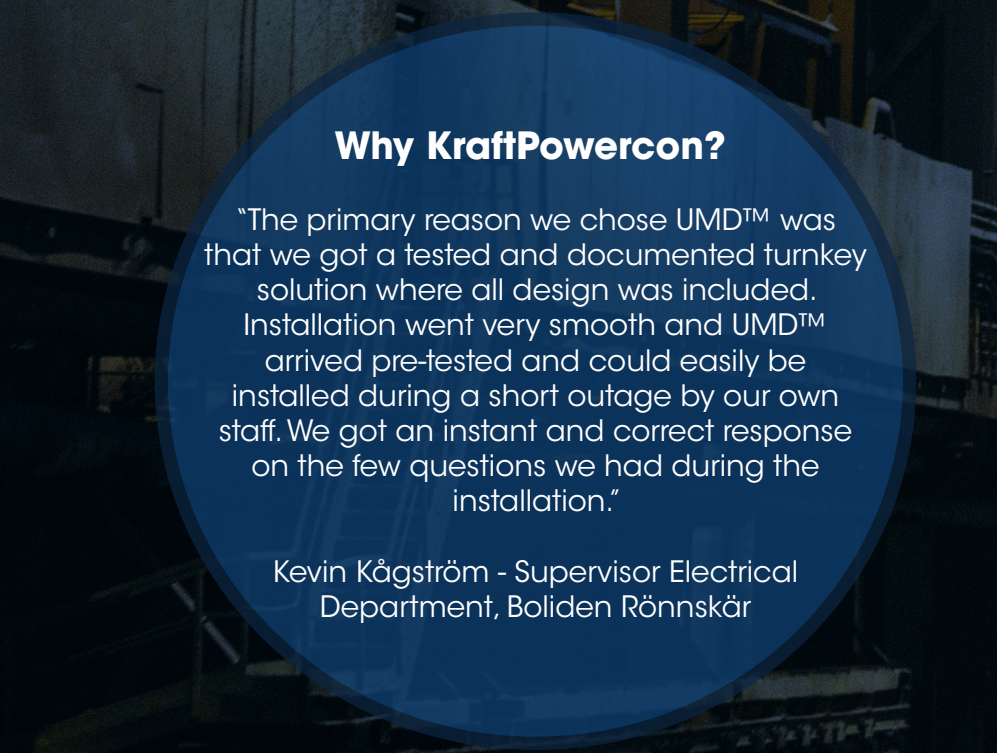
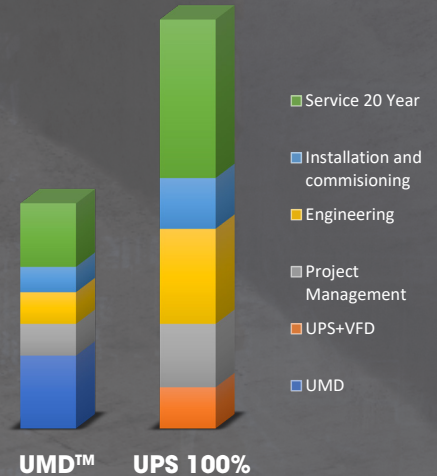
UMD™ for lubrication oil in rotating machinery has been delivered by KraftPowercon for 20+ years and is well field-proven.

UMD™ is delivered as a turn-key solution, pre-tested and set up for the application.



## Cost - UMD vs UPS

UMD™ as a turn key solution avoids additional cost in the project



## Why KraftPowercon?

"The primary reason we chose UMD™ was that we got a tested and documented turnkey solution where all design was included. Installation went very smooth and UMD™ arrived pre-tested and could easily be installed during a short outage by our own staff. We got an instant and correct response on the few questions we had during the installation."

Kevin Kågström - Supervisor Electrical Department, Boliden Rönnskär



The solution had to be installed and commissioned during a limited time of a service outage.

- Customer key requirements:
- Pre-tested and field-proven
  - Simple installation and commissioning