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KONECRANES®
Lifting Businesses™

Sandvik Steel AB, Steel Mill, Sweden

130 T/32 T LADLE CRANE

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Initial circumstances

The crane was delivered by Hvilans Mek in 1972. Kone modernized the crane in 1985. A complete new trolley was delivered and capacity was raised from 110 ton to 130 ton. In 2002 weldings between side plate and top plate under rail were starting to crack. Also electrical equipment was causing much downtime.

Scope

- New main girders, end carriages, and long travelling machinery
- New gearboxes for 130 t hoist and trolley
- New brakes for 130 t hoist and trolley
- Complete new electrical equipment in an air conditioned EE-house
- New cables to trolley and on main girders

Solution

Complete new crane steel structure was manufactured. Existing trolley was modified and erected on the new crane bridge as well as the existing crane cabin. New motor control equipment was placed in a new air-conditioned EE-house. Before bringing to site, the whole control house was ready tested and assembled.

Technical data

> Mainhoist	FEM 2m + molten metal 130 ton, 4,5 m/min + thyristor + plugging for emergency use
> Auxhoist	FEM 3m 32 ton, 14 m/min + thyristor + plugging for emergency use
> Traversing	FEM 3m 24 m/min + plugging
> Long traveling	FEM 3m 60 m/min + thyristor frerolling + plugging
> Main girders	IKH Loading group B4, Hoisting class H2

Summary

Project time was six months and we had several project meetings, design meetings, inspection of component manufacturing and main girders. Erection was well planned and was done during summer stop. Erection time was only three weeks, minimizing downtime.

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