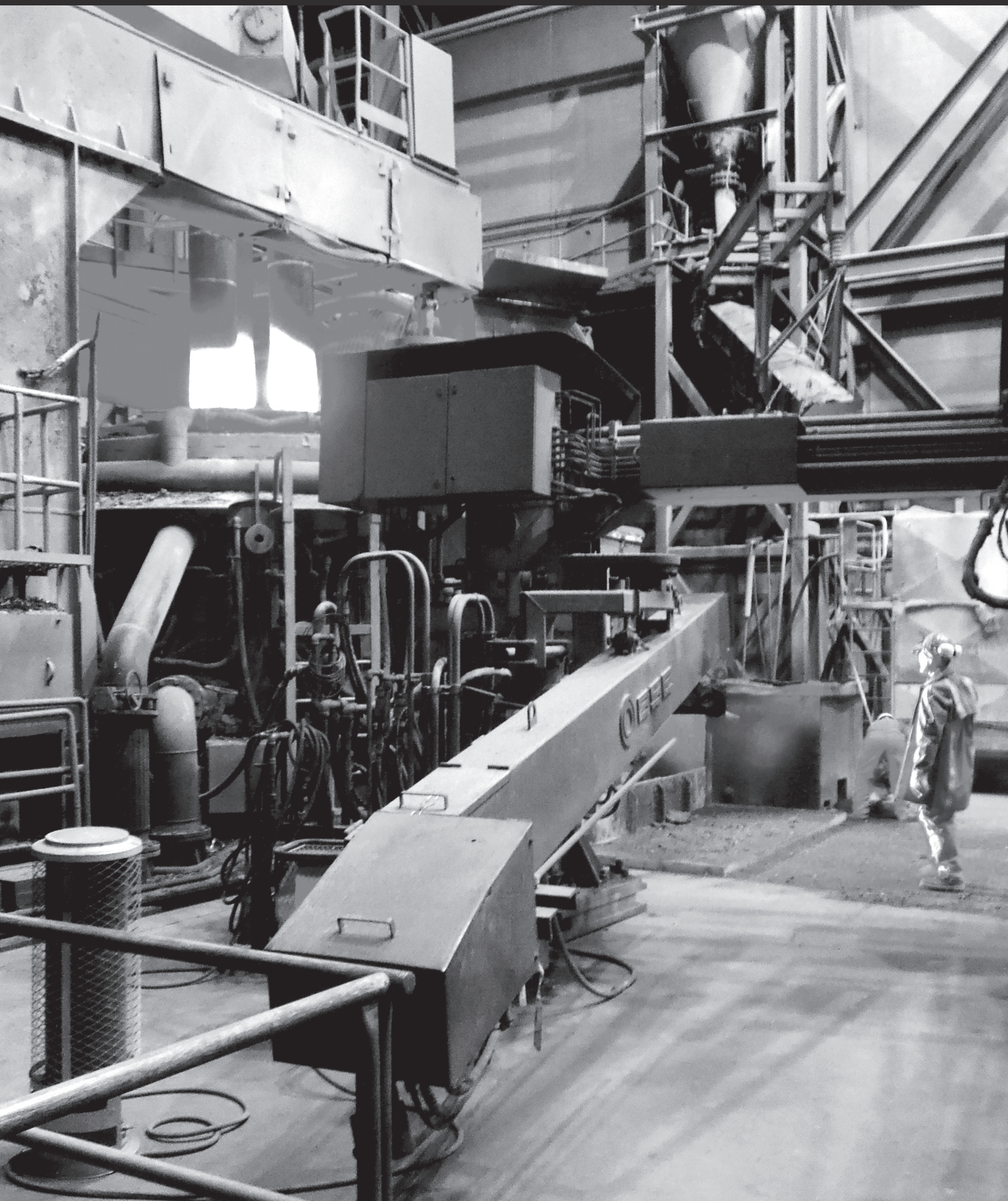


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# TECHNICAL SERVICES











**Giving an added value to customers is top priority for UKCG.**

**UKCG brings to our customers the expertise of a globally renowned regulation specialist and project engineer.**

## **TECHNICAL SERVICES**

### **1. Electrode I<sup>2</sup>t Optimisation**

I<sup>2</sup>T is an electrical measurement that gives an electrode consumption value during furnace operation.

- Evaluate with periodical I<sup>2</sup>T changes.
- Identify when electrode consumption has increased and find the reasons why.
- Lower I<sup>2</sup>T with efficiency without impacting PowerON times.

### **2. Preventing Electrode Breakage Analysis**

Optimise and fine tune regulator's electrode protection systems and / or develop logic to implement protection from:

- Scrap cave-ins (inverse over-current curve logic protection)
- None conductive charges (NCC logic)
- Loss of furnace reference (grounding checks)

### **3. Power Curve Analysis And Develop Power Profiles**

Obtaining real power curve data to determine actual furnace operation in order to develop and modify actual or new power profiles to achieve:

- Efficiency: Decrease Kwh/Ton, electrode consumption.
- Productivity: Decrease PowerON time.
- Avoid operational issues: Arcing with roof, refractory wear, scrap accumulation, flicker reduction, stability factor control, plus many more.

**"Finding the problem is just the first step, giving a solution and solving it is our commitment. This is what really makes the difference."**



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