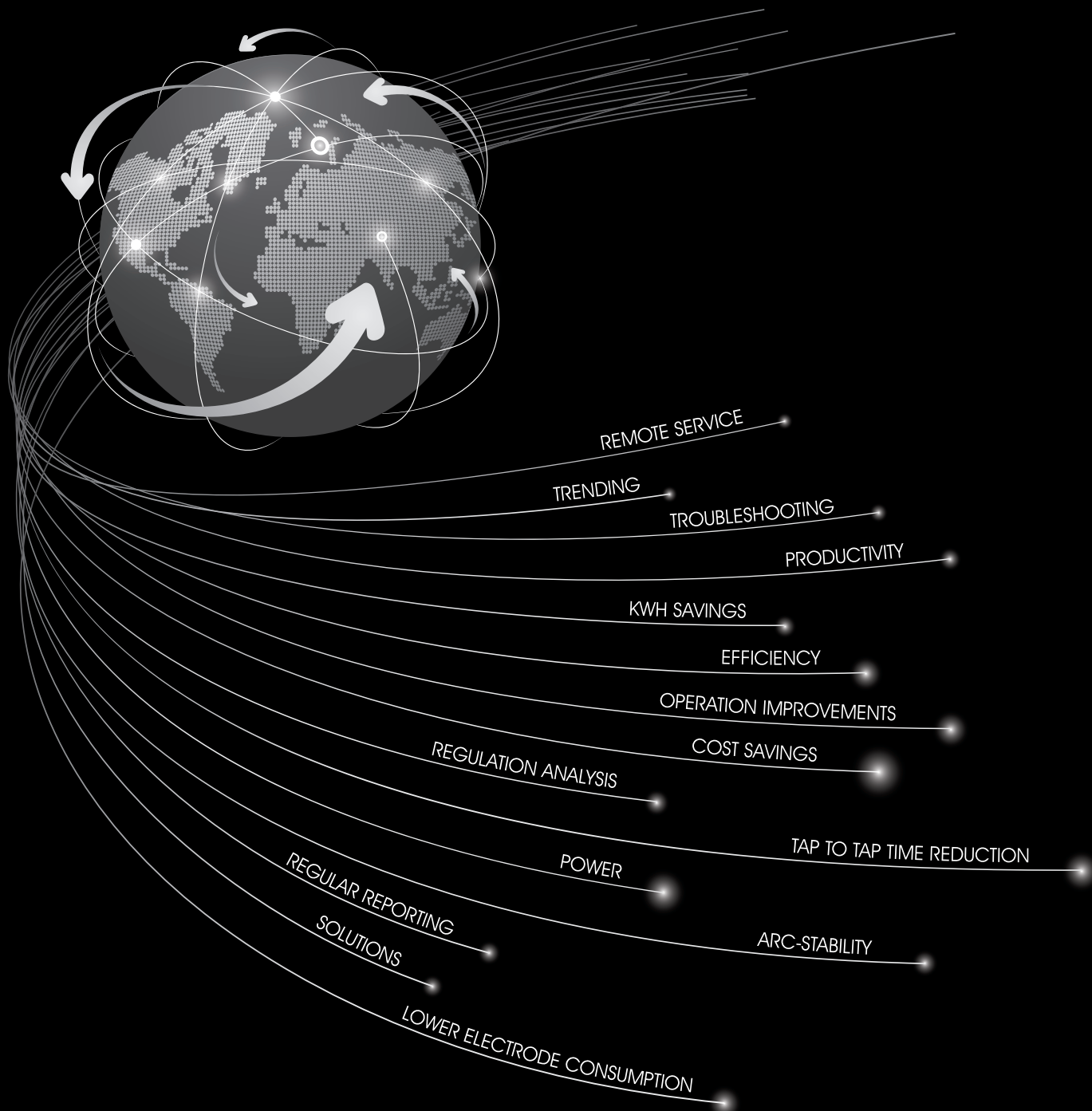

ArChecker



ArChecker

by UKCG



Monitoring The Present For An Efficient Future

ArChecker by UKCG allows customers to record furnace operation logs and make educated changes to their melting operations which bring long lasting benefits. Through advanced technology the ArChecker data logging system is able to bring to its customers information normally obtained by costly technical service visits, installations and reports.

ArChecker allows not only plant personnel but also UKCG's Technical Team to monitor your furnace from remote locations through a web based access. This does not replace UKCG's attentive customer site visits but it does provide monthly, even weekly reporting giving continuous improvement opportunities. Most importantly ArChecker enables rapid response support with UKCG's technical team only a call away to retrieve logs and remotely monitor heats, eliminating travel time and troubleshooting with on site personnel within hours rather than days.

ArChecker is installed at customer sites to compliment UKCG electrode supply and enable customers to reach optimum performance goals.

ArChecker is a state of the art metering system that can be connected to either the transformer's primary or secondary side along with the actual regulation system. It provides 5-times-per-second power flow measurements with each measurement coming with NIST-trace Accuracy Certificates.

ArChecker is capable of monitoring more than 100 key furnace variables such as:

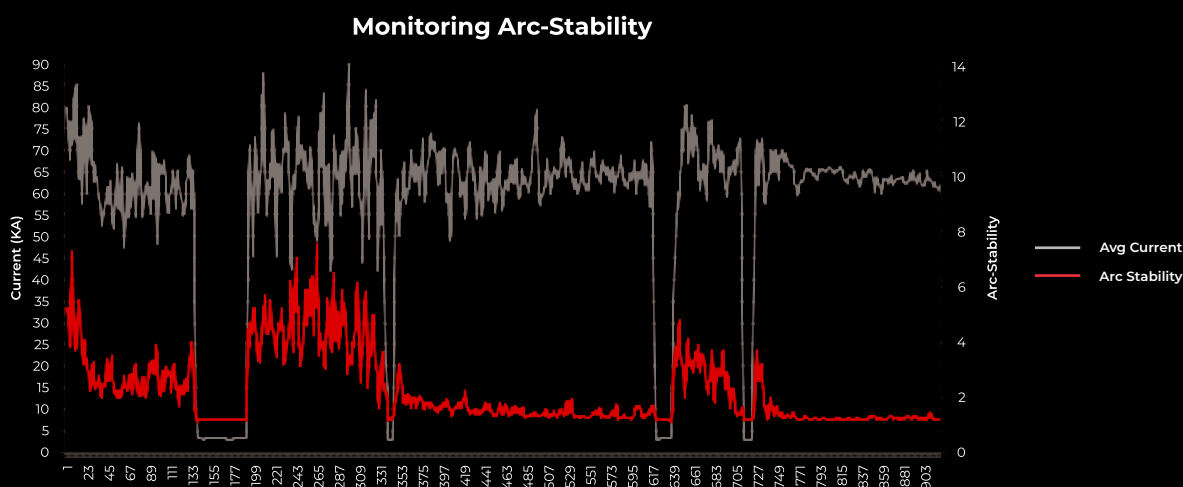
Arc-Length	Furnace TAP	Power
Arc-Stability	Harmonics TDD, THD, Flicker	Power Factor
Cave In	Heat Times	Reactance
Currents	Heat Events	Reactor TAP
Electrode Consumption (I2H)	Impedance	Resistance
Energy	Improve Power Profiles	Voltages
EOH Signal	Neutral Currents	Plus many more beneficial
Frequency	Phase Rotation	features....

Remote Technical Support 24/7

Receive technical support from our expert team assisting to:

- Avoid over-melting within individual charges
- Check real power curve efficiency
- Detect actual phase rotation
- Evaluate furnace balance
- Evaluate your regulation system
- Feedback with monthly written reports
- Improve production and reduce overall costs
- Interpret, analyse and troubleshoot data reports
- Reduce Power On Times
- Reduce electrode breakages and events
- Reduce electrode consumption
- Review arc-length
- Shorten Tap to Tap Times
- Use arc-stability to improve your melting process

Advanced Monitoring, Diagnostic And Performance Evaluation Tools

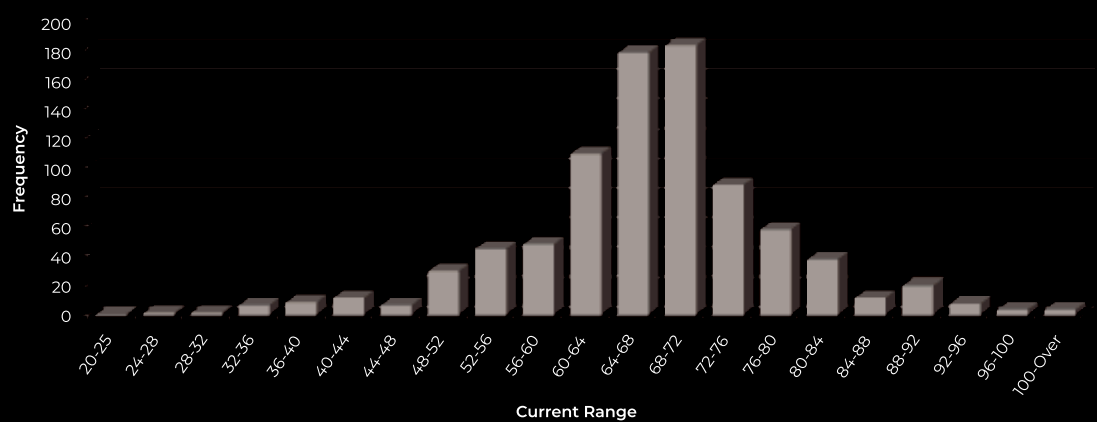


Monitoring Arc-Stability ensures that your goals to melt efficiently are being reached. Stability of the Arc demonstrates energy is being utilised to the best advantage and ArChecker provides accurate reading of these vital signifiers.

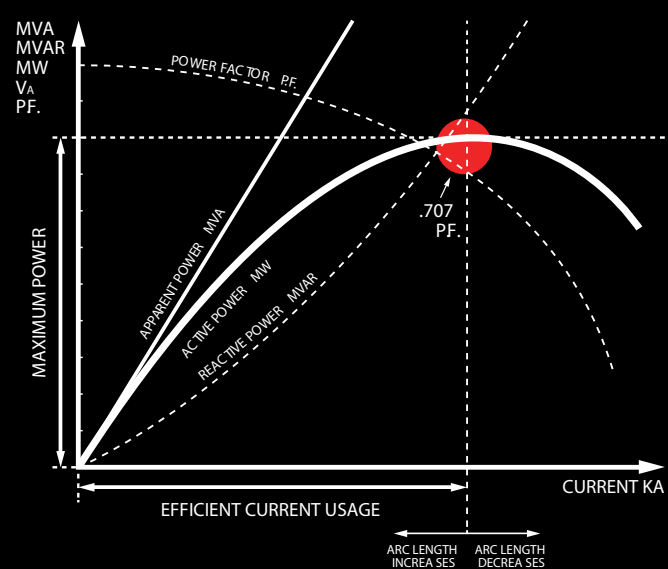
Regulation SP Controls

ArChecker can evaluate the regulation control by creating Histograms for each phase ensuring set points are being maintained.

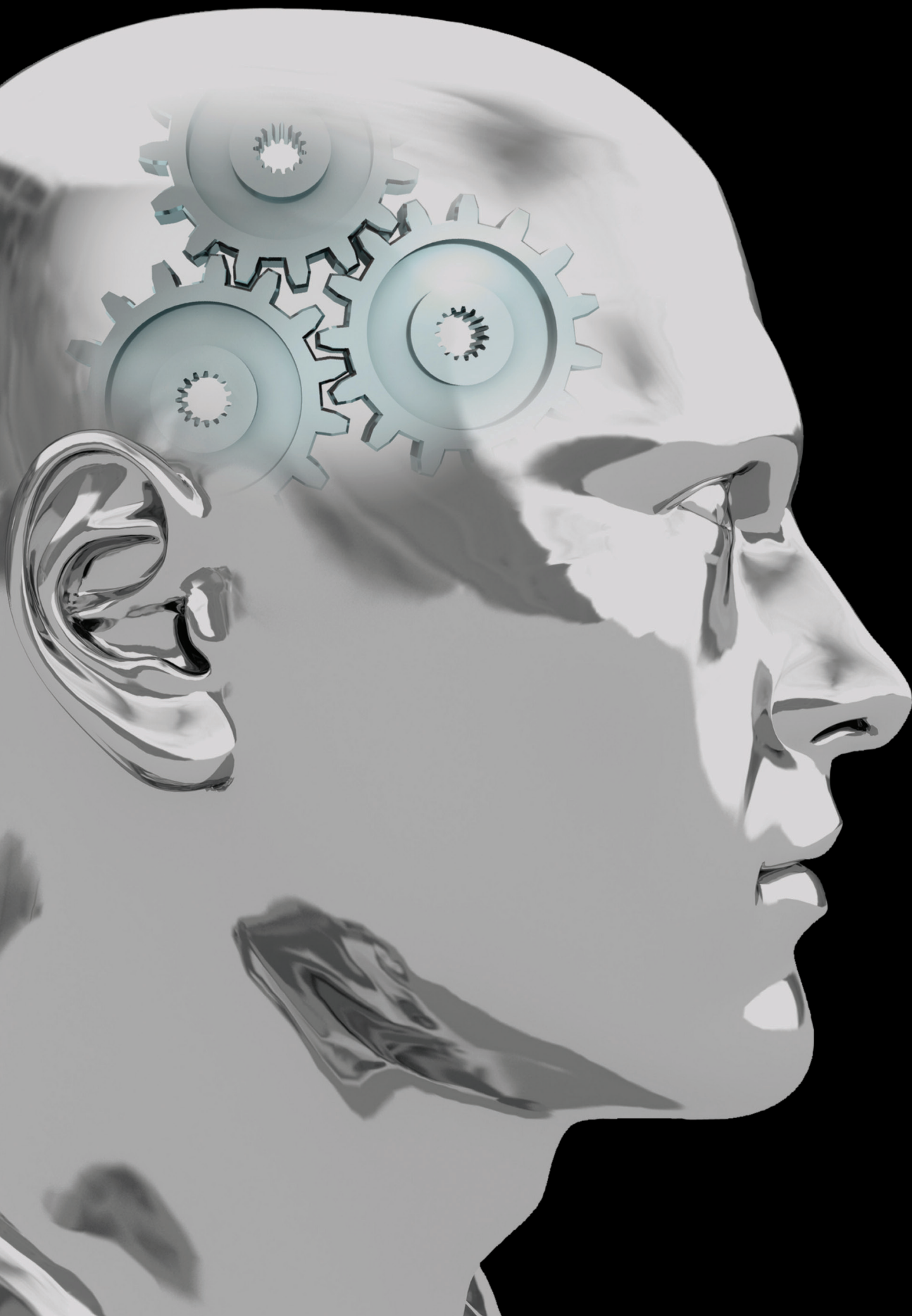
Current Histograms



Real Power Curve For Efficiency



The Power Curve shows the relationship between the average current and the average active power (MW) in the furnace. Only by means of this curve can we easily determine if the furnace operation is running efficiently.





ArChecker is proven to reduce costs in key areas with savings as high as 33% on electrode consumption being achieved whilst simultaneously increasing productivity.

UKCG's dedication to reduce our customer's costs motivated our Technical Team to create the ArChecker. In providing our customers this revolutionary system we can work together to not only capture vital information but to use it to good effect.

UKCG prides itself on positive customer relationships balanced between electrode supply and technical service. ArChecker coupled with UKCG's attentive technical service team ensures savings, stability and continued progress is obtained and sustained.

"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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