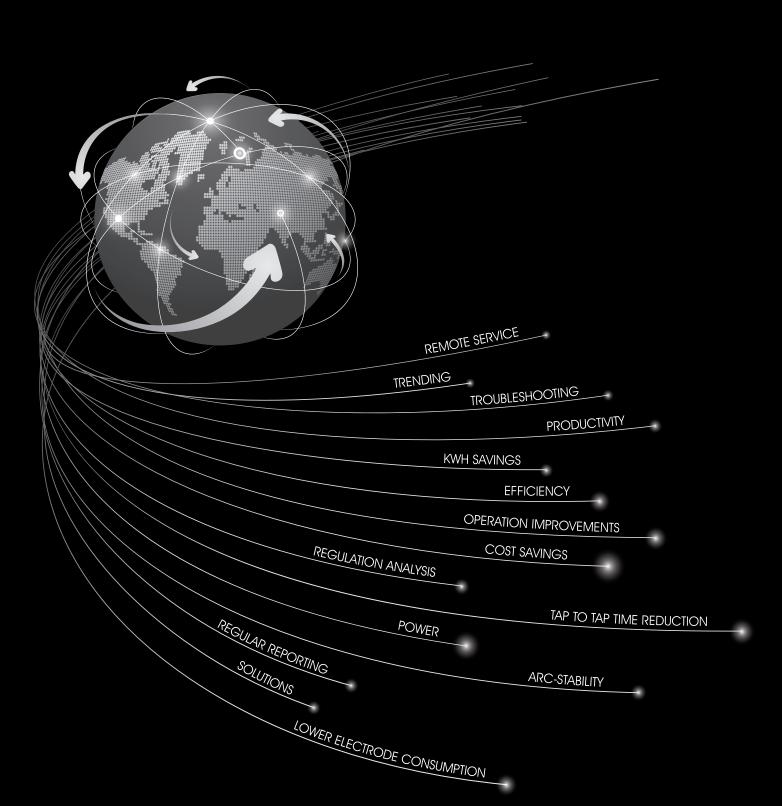
ArChecker







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. 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 enabling troubleshooting 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
Arc-Stability
Cave In
Currents
Electrode Consumption (I2H)
Energy
EOH Signal
Frequency

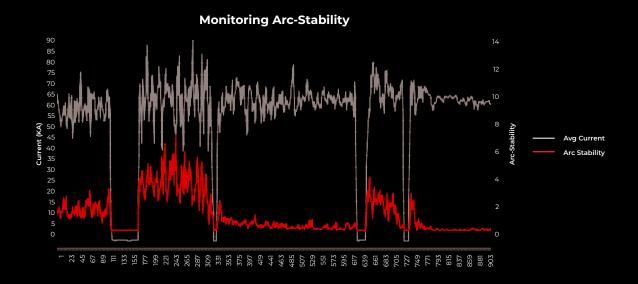
Furnace TAP
Harmonics TDD, THD, Flicker
Heat Times
Heat Events
Impedance
Improve Power Profiles
Neutral Currents
Phase Rotation

Power
Power Factor
Reactance
Reactor TAP
Resistance
Voltages
Plus many more beneficial
features....

Remote Technical Support 24/7

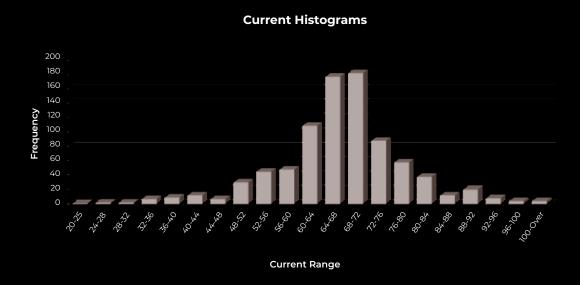
- · Avoid over-melting within individual charges
- · Check real power curve efficiency
- · Detect actual phase rotation
- · Evaluate furnace balance
- · Evaluate your regulation system
- · Feedback with monthly written reports
- · Improve production and reduce overall costs
- · Interpret, analyse and troubleshoot data reports
- · Reduce Power On Times
- · Reduce electrode breakages and events
- \cdot 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

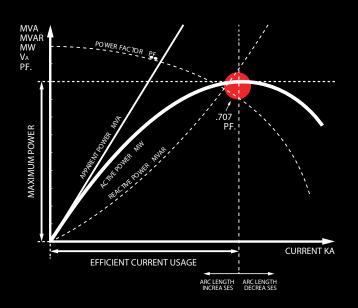


Monitoring Arc-Stability ensures that your goals to melt efficiently are being reached. Stability of the Arc demonstrates energy is being utilised to the best advantage and ArChecker provides accurate readings of these vital signifiers.

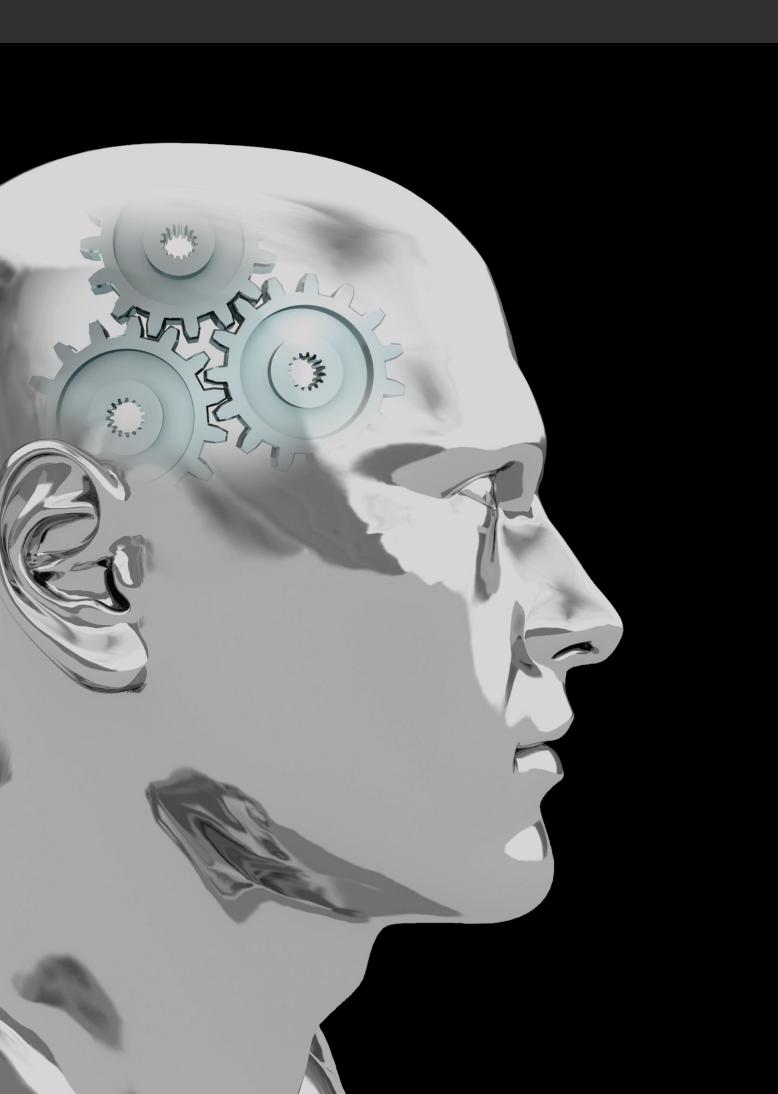
ArChecker can evaluate the regulation control by creating Histograms for each phase ensuring set points are being maintained.



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."





UKCG Head Office

UKCG House, 5 Strutt Street, Belper, Derbyshire, DE56 1UN, UK

Tel: +44 (0) 1773 881130 / **Fax:** +44 (0) 1773 881138

E-Mail: enquiries@uk-cg.com

UK Manufacturing

UK Carbon & Graphite Ltd, Sheffield, UK

E-Mail: production@uk-cg.com

USA Processing & Distribution

UKCG Technical Services LLC, Cleveland, Ohio, USA

E-Mail: ukcg.usa@uk-cg.com





FS 502322