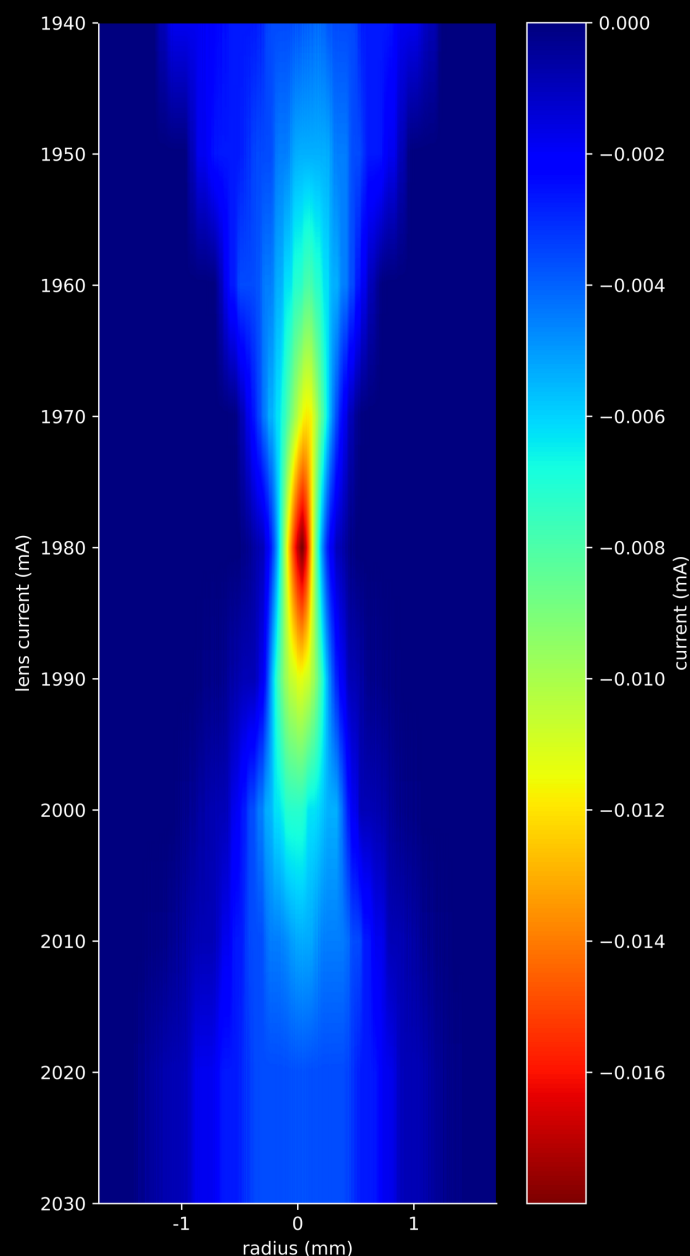


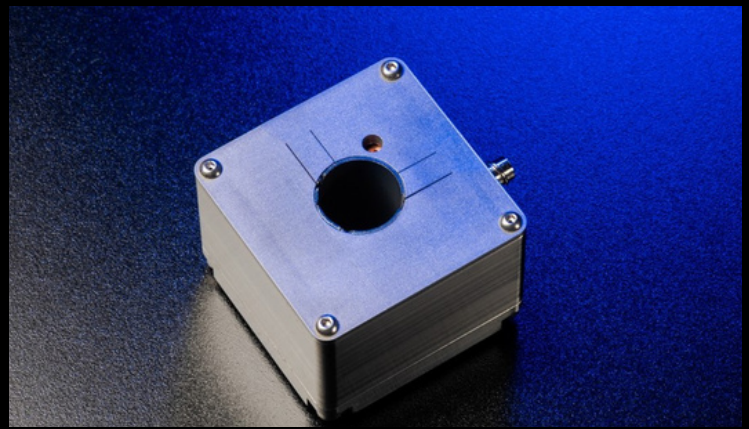
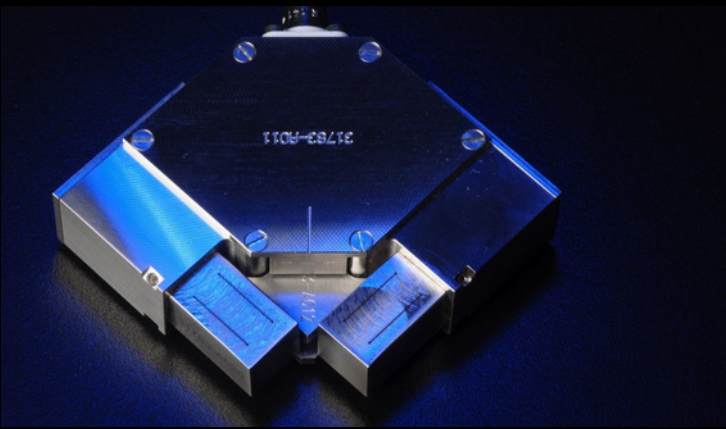
The Essential Tool for Electron Beam Welding and Processing

Electron beam welding is used across a wide range of industries, including for aerospace, automotive, defence, electronic, and many more.

But how can you be sure of the quality of the beam?

- Unqualified beams can lead to costly rework or even parts to be scrapped, while the requirements of ensuring the beam is working as expected can lead to downtimes in your production schedule.
- BeamAssure™ provides the answer to ensure quality assurance of your electron beam process, saving both time and money.
- Easy to use and install, the system can be retrofitted into your existing equipment, providing fast, automatic and accurate real time feedback without impacting your cycle time or productivity.





BeamAssure

SYSTEM SETUP
 Status: Waiting for CNC
 Operator: colin
 BK 4052
 PicoScope
 USB 6525

TEST DETAILS
 Part Number: 123
 Job: 0
 MachineID: K640
 DateCreated: 05/03/2018
 AcceleratingVoltage (kV): 150
 BeamCurrent (mA): 100
 WorkingD (mm): 210
 Threshold (%): 5
 FocusCurrentStart (mA): 1890
 FocusCurrentFinish (mA): 1910
 FocusCurrentSteps (mA):

TEST RESULTS
 Focus Current (mA): 1890
 Results File: BeamAssure - 2018_04_12 - 13_23_28 - 1890 mA

Waveform Graph
 Waveform Selector: Average
 Amplitude (V) vs Time (s)

Beam Width

Speed x (m/s)	FWHM x (mm)	1/e ² x (mm)	10/90 x (mm)	20/80 x (mm)	FWHP x (mm)	D86 x (mm)	D4Sigma x (mm)
427.7	1.428	1.953	1.270	0.880	0.716	1.419	1.774
Speed y (m/s)	FWHM y (mm)	1/e ² y (mm)	10/90 y (mm)	20/80 y (mm)	FWHP y (mm)	D86 y (mm)	D4Sigma y (mm)
427.7	1.423	1.969	1.271	0.881	0.717	1.420	1.777

Immediate indication of production readiness

Beam parameters recalled from job file

Beam characteristics recorded for analysis

BENEFITS

- Fast characterisation of electron beams up to 100kW in power
- Eliminates costly and time consuming welding conditions development
- Prevents costly rework and reduces the probability of defects
- Increased production efficiencies and facility utilisation
- Identification and tracking changes in electron beam gun performance

CONTACT

Don't leave your welding parameters to chance – contact us to find out how BeamAssure can improve your electron beam production processes today.

- Tel: +44 (0)1223 899 000
- Email: ContactUs@TWI.co.uk

