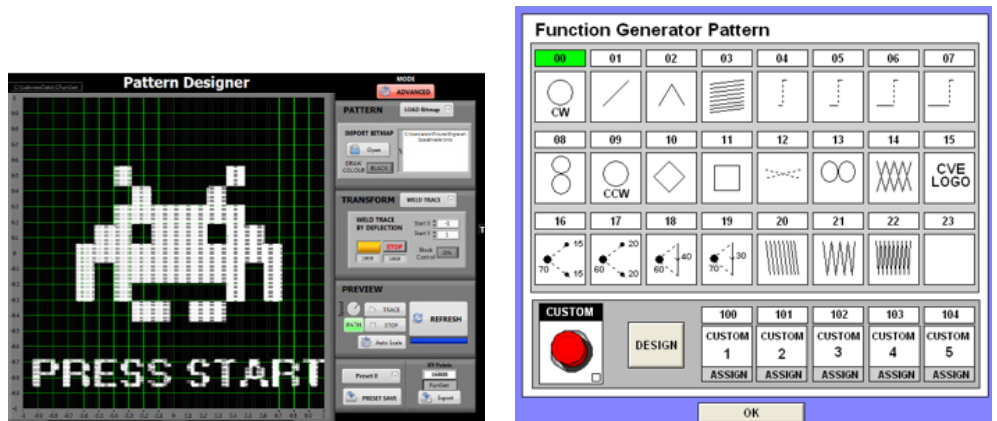


### Custom Function Generator

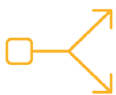


The custom function generator allows operators to create individual deflection patterns and store them for recall in a welding process in minutes. The system comes with a powerful interface that allows users to create any pattern easily and quickly, for example, a single pass 3-stage welding process - saving time and aiding the welding of difficult materials.

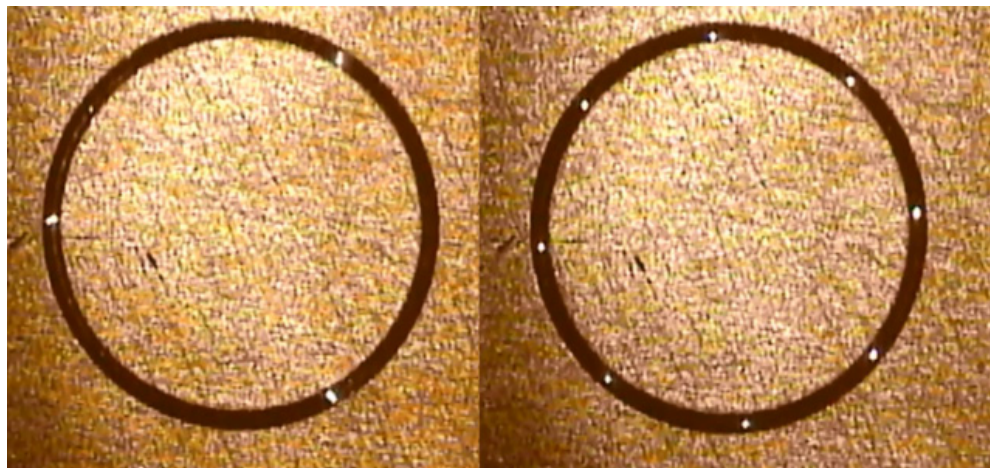


Custom function generator patterns

### Beam Splitter Function Generator



Beam splitting is one of the best advantages of the electron beam: due to its low mass, it can move with such high-speed that it can be split into multiple places at once – improving weld quality and reducing process time. The CVE beam splitter function generator provides a user-friendly interface that allows you to easily set-up the beam splitting function. High-speed deflection allows beams to be split and perform multiple welds simultaneously.



Beam splitting results

# Engraving



The digital controller for the imaging system allows for instant engraving of text, numbers, QR codes, IP logos, and images, on part surfaces, performed with the electron beam.

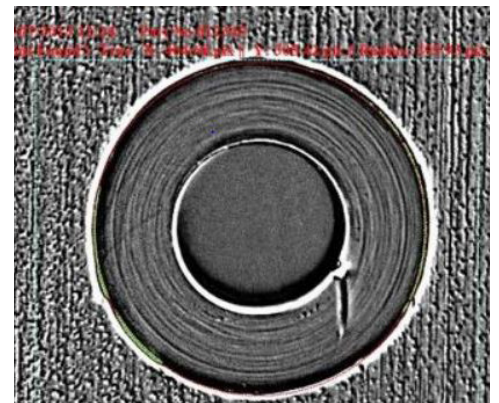


Example automotive components engraved with DMX codes

# Mapping



Backscattered electron imaging used with the joint finder and mapping function can perform planetary welds to weld small circular parts using beam deflection.



Engraving

Mapping

## USA

Cambridge Vacuum Engineering Inc.  
Unit 7 630, Silver Street  
Agawam  
Massachusetts  
01001-0867  
United States of America

+1 (413) 789 4600



## UK Headquarters

Cambridge Vacuum Engineering  
Pembroke Avenue  
Waterbeach  
Cambridge  
CB25 9QX  
United Kingdom

+44 (0) 1223 863481

E-mail: [sales@camvaceng.com](mailto:sales@camvaceng.com)  
Web: [www.camvaceng.com](http://www.camvaceng.com)

## China

Aquasium Technology (Beijing) Co. Ltd  
No.2-1008, 9/F, Building 8, Compound  
No.87, West Jiancaicheng Road,  
Changping District, Beijing  
100096  
People's Republic of China

© Aquasium Technology Limited trading  
as Cambridge Vacuum Engineering