

APPENDIX A – MANUFACTURING STANDARDS

A.1 Quality Management System

Cambridge Vacuum Engineering operates a Quality Management System which complies with the requirements of BS EN ISO 9001:2015

A.2 Manufacturing Standards

(for Vacuum Furnaces and Electron Beam Equipment as appropriate)

Item	BSI Number	Title
1	BS 7671:2008+A3:2015	IEE Wirings Regulations 17th edition
2	BS 8888:2013	Technical Product Documentation
3	BS EN 349:1993+A1:2008	Safety of machinery. Minimum gaps to avoid crushing of parts of the human body – 1993 + A1:2008 (incorporates AMD 18017)
4	BS EN 60204-1:2006+A1:2009	Safety of Machinery, electrical equipment of machines, general requirements.
5	BS EN 61000-6-2:2005	Generic Standards for immunity for industrial environments
6	BS EN 61000-6-4:2007 + A1:2011	Generic Standards for emission for industrial environments
7	BS EN 61508:2008 Parts 1-7	Functional Safety of Electrical / Electronics
8	BS EN 983:1996+A1:2008	Safety of machinery – Pneumatics.
9	BS EN ISO 12100:2010	Safety of Machinery Basic Terminology
10	BS EN ISO 12100:2010	Safety of Machinery Technical Principles
11	BS EN ISO 12100-1: 2003 + A1:2009 Inc.	Corrigendum 1
12	BS EN ISO 12100-2: 2003 + A1:2009 Inc.	Corrigendum 2
13	BS EN ISO 13849-1: 2015	Safety of machinery – Safety related parts of control systems.
14	BS EN ISO 13849-2: 2012	Safety of machinery – Safety related parts of control systems.
15	BS EN ISO 13850: 2008	Safety of machinery- Emergency Stop principles.
16	BS EN ISO 13853:2008	Safety of machinery (Safety distances to prevent danger zones being reached by the lower and upper limbs).
17	BS EN ISO 13857:2008	Safety of machinery – Safety distances to prevent hazard zones being reached by upper and lower limbs.
18	BS EN ISO 14744-1:2008	Acceptance Inspection of Electron Beam Welding Machines
19	BS EN ISO 1837:1999+A1:2009	Internal lighting of machine.
20	2014/30/EU	EMC Directive
21	2014/29/EU	Simple Pressure Vessel Directive
22	2006/42/EC	Machinery Directive
23	2006/95/EC	Low Voltage Directive
24	PD 5500	Pressure Vessel Standards
25	PR BS EN 953: (1993)	Safety of machinery – General requirements for the design and construction of guards (fixed and moveable)
26	The supply of Machinery (Safety) Regulations 2008	
27	All machines are supplied with CE certification	