

BS 8888:2020



BSI Standards Publication

Technical product documentation and specification

bsi.

...making excellence a habit.™

Publishing and copyright information

The BSI copyright notice displayed in this document indicates when the document was last issued.

© The British Standards Institution 2019

Published by BSI Standards Limited 2019

ISBN 978 0 539 02682 5

ICS 01.100.01, 01.110

The following BSI references relate to the work on this document:

Committee reference TPR/1/8

Draft for comment 19/30384745 DC

Publication history

First published as BS 308-1, BS 308-2 and BS 308-3, September 1927

Second editions, December 1943

Third editions, December 1953

Fourth editions, November 1964

Fifth editions, October 1972

Sixth editions, August 1984 (BS 308-1), October 1985 (BS 308-2) and August 1990 (BS 308-3)

Seventh edition of BS 308 1, December 1993

First published as BS 8888 August 2000

Second edition, October 2002

Third edition, October 2004

Fourth edition, October 2006

Fifth edition, October 2008

Sixth edition, December 2011

Seventh edition, December 2013

Eighth edition, January 2017

Ninth (present) edition, January 2020

Amendments issued since publication**Date****Text affected**

Contents

	Foreword	xii
Section 1	Scope	1
1.1	Scope	1
1.2	Normative references	1
1.3	Terms and definitions	2
1.3.1	date of issue	2
1.3.2	ISO GPS system	2
1.3.3	technical product documentation (TPD)	2
1.3.4	technical product specification (TPS)	2
Section 2	Standards underpinning BS 8888	3
2.1	General	3
Section 3	Technical product specification (TPS): Principles and concepts	4
3.1	Principles of specification	4
3.1.1	Types of technical product specification	4
	<i>Figure 1 – Hole and shaft sizes</i>	5
	<i>Table 1 – Mean and nominal values for 3D CAD model</i>	5
3.1.2	General principles of specification	6
	<i>Table 2 – Level of detail in a TPS</i>	6
3.1.3	Date of issue principle	6
3.1.4	Reference conditions	6
3.1.5	Interpretation	7
3.1.6	Decimal principle	7
3.1.7	Rigid workpiece principle	7
3.1.8	Nonrigid workpieces	7
3.2	Fundamental concepts	8
3.2.1	Properties	8
3.2.2	Feature principle	8
	<i>Figure 2 – Interrelationship of the geometrical feature definitions</i>	10
3.2.3	Interpretations of limits of size for a feature of size	10
	<i>Figure 3 – Possible interpretations of size limits where no form control is defined and the specification is incomplete</i>	11
	<i>Figure 4 – Two-line angular size: Second association with minimax criterion</i>	12
3.3	Geometrical product specification	13
3.3.1	Interpretation and invocation principle	13
3.3.2	Independency principle	14
Section 4	Technical product documentation (TPD)	15
	<i>Figure 5 – Example of assembly drawing</i>	15
	<i>Figure 6 – Example of part drawing</i>	16
	<i>Figure 7 – Example of fabrication drawing</i>	16
4.1	Graphical representation and annotation of 3D data (3D modelling output)	17
4.2	Drawing sheets	17
4.2.1	General	17
4.2.2	Sizes	17
	<i>Table 3 – Sizes of trimmed and untrimmed sheets and the drawing space</i>	17