

## Information about Standards

### List of Standards for Length Measuring Instruments

QA-E200007 Rev.5.0  
Drawn date: 2023-09-23

The following table lists various national standards and international standards on length measuring instruments including Japanese Industrial Standards (JIS), ISO International Standards, and other national standards. (The table below is investigated by Mitutoyo as of September, 2023)

Nomenclature*	Norm	Japan		International		Germany		U.K.		France		U.S.A.		Brazil		China		India								
		JIS*	JMAS**	ISO**	DIN**	VDI**	BS**	NF**	ANSI/ASME**	Federal**	ABNT/NBR**	GB/T, JB/T**	JG, JJF**	IS** # 1												
1 Metal rules	JIS B 7516	2005	-	-	-	-	-	-	-	-	ABNT NBR NM 279	2002	GB/T 9056	2004	JG 1	1999	-	-								
2 Steel tape measures	JIS B 7512	2018	-	-	-	-	-	-	-	-	ABNT NBR 10123	2012	-	-	JG 4	2015	-	-								
3 Textile tape measures	JIS B 7522	2016	-	-	-	-	-	-	-	-	ABNT NBR 10124	2014	-	-	JG 5	2001	-	-								
4 Geometrical product specifications—Dimensional measuring equipment—Vernier, dial and digital calipers (graduation: 0.1, 0.05 mm) (dial calipers) (digital caliper)	JIS B 7507	2022	-	-	ISO 13385-1	2019	DIN EN ISO 13385-1	2020	VDI/VDE/DGQ 2618-9.1	2006	BS EN ISO 13385-1	2019	NF EN ISO 13385-1	2019	ASME B89.1.14	2018	GGG-C-111C	1987	ABNT NBR NM 216	2000	GB/T 21389	2008	JJG 30	2012	IS 16491-1 2016	
5 Gear tooth vernier calipers	JIS B 7517	2018	-	-	ISO 13225	2012	DIN EN ISO 13225	2012	VDI/VDE/DGQ 2618-9.3	2006	BS EN ISO 13225	2012	NF EN ISO 13225	2012	-	-	-	-	ABNT NBR NM 260	2002	GB/T 21390	2008	JJG 31	2011	IS 2921 2016	
6 Vernier, dial and digital height gauges	JIS B 7518	2023	-	-	ISO 13385-2	2020	DIN EN ISO 13385-2	2020	VDI/VDE/DGQ 2618-9.2	2006	BS EN ISO 13385-2	2020	NF EN ISO 13385-2	2020	-	-	GGG-C-111C	1987	ABNT NBR NM 216	2000	-	-	JG 30	2012	-	
8 Micrometers	JIS B 7502	2016	ISO 3611	2023	DIN 863-1	2017	DIN 863-1 residual standard	2017	VDI/VDE/DGQ 2618-10.1	2001	BS EN ISO 3611	2023	NF E11-090	1993	ASME B89.1.13	2013	-	-	ABNT NBR NM-ISO 3611	1997	GB/T 1216	2018	JG 21	2008	IS 2967 1983	
(external)					DIN EN ISO 3611	2011	-	-	-	-	-	-	NF EN ISO 3611	2023	-	-	-	-	-	-	JF 1088	2015	-	-		
(internal)					DIN 863-2	1999	DIN 863-2 residual standard	1999	VDI/VDE/DGQ 2618-10.7	2010	BS 959	2008	NF E11-090	1993	ASME B89.1.13	2013	-	-	-	-	GB/T 8177	2004	JG 22	2014	IS 2966 1984	
(head)					DIN 863-3	1999	-	-	VDI/VDE/DGQ 2618-10.4	2008	BS 1734	1951	-	-	-	-	-	-	GB/T 22092	2018	-	-	IS 9483 1993			
9 Depth Micrometers	JIS B 7544	1994	-	-	-	-	DIN 863-2	1999	VDI/VDE/DGQ 2618-10.5	2010	BS 6468	2008	NF E11-097	1998	ASME B89.1.13	2013	-	-	-	-	GB/T 1218	2018	JG 24	2016	-	
10 Indicating Micrometers	JIS B 7520	1981	-	-	-	-	DIN 863-3	1999	VDI/VDE/DGQ 2618-10.3	2002	-	-	NF E11-090	1993	-	-	-	-	GB/T 8061	2022	JG 26	2011	-			
11 Micrometer for wall-thickness measurement #3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GB/T 6312	2022	JG 21	2008	-				
12 Internal micrometers with three-point-contact #3	-	-	-	-	-	-	DIN 863-4	1999	VDI/VDE/DGQ 2618-10.8	2002	-	-	-	-	-	-	GB/T 6314	2018	JF 1411	2013	IS 2966 1984					
13 Screw thread micrometers #3	-	-	-	-	-	-	DIN 863-3	1999	-	-	-	-	-	-	-	-	GB/T 10932	2004	JG 25	2004	-					
14 Stand for micrometers #4	-	-	JMAS 1001	1961	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
15 Mechanical dial gauges	JIS B 7503	2017	-	-	ISO 463	2006	DIN 878 residual standard	2018	VDI/VDE/DGQ/DKD 2618-11.1	2021	BS EN ISO 463	2006	NF EN ISO 463	2006	ASME/ANSI B89.1.10M	2001	-	-	ABNT NBR ISO 463	2013	GB/T 1219	2008	JJG 34	2022	IS 2092 1983	
16 Electronic digital-indicator gauge	JIS B 7563	2021	-	-	ISO 13102	2012	DIN EN ISO 13102	2012	VDI/VDE/DGQ/DKD 2618-11.4	2020	BS EN ISO 13102	2012	NF EN ISO 13102	2012	-	-	-	-	-	-	-	-	-	-		
17 Dial snap gauges #3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	JB 1253	2010	IS 14271 1995	-	-				
18 Dial test indicators (lever type)	JIS B 7533	2015	-	-	ISO 9493	2010	DIN EN ISO 9493	2011	VDI/VDE/DGQ 2618-11.3	2002	BS EN ISO 9493	2010	NF EN ISO 9493	2011	ASME/ANSI B89.1.10M	2001	-	-	-	-	GB/T 8123	2007	JG 35	2006	IS 11498 1985	
19 Cylinder Gauges	JIS B 7515	1982	JMAS 5009	1988	ISO 7663	1984	-	-	VDI/VDE/DGQ 2618-13.2	2005	-	-	-	-	-	-	-	GB/T 8122	2004	JF 1102	2003	-				
20 Microindicators #3	-	-	-	-	-	-	DIN 879-1	1999	DIN 879-3	1999	VDI/VDE/DGQ 2618-11.2	2002	-	-	-	-	-	-	GB/T 4755	2004	GB/T 6320	2008	JG 118	2010	-	
21 Gauge blocks	JIS B 7506	2004	JMAS 3002	1982	ISO 3650	1998	DIN EN ISO 3650	1999	VDI/VDE/DGQ 2618-3.1	2004	BS EN ISO 3650	1999	NF EN ISO 3650	1999	ASME B89.1.9	2002	-	-	ABNT NBR NM 215	2000	GB/T 6093	2001	JG 146	2011	IS 2984 2003	
22 Master plug gauges and master ring gauges #4	-	-	JMAS 4008	2016	ISO 1938-1	2015	DIN EN ISO 1938-1	2016	VDI/VDE/DGQ 2618-4.1	2006	BS EN ISO 1938-1	2015	NF EN ISO 1938-1	2015	(External) ASME B89.1.5	1998	ABNT NM 290	2004	-	-	JG 894	1995	IS 2251 1986	-	-	
23 Pin gauges #4	-	-	JMAS 4009	2013	-	-	DIN 2269	1998	VDI/VDE/DGQ 2618-4.2	2007	-	-	-	-	(Internal) ASME B89.1.6	2002	ABNT NM 284	2003	-	-	-	-	-	-	-	-
24 Height setting micrometers and riser blocks #4	-	-	JMAS 5015	1979	ISO 7663	1984	-	-	VDI/VDE/DGQ 2618-10.6	2010	-	-	-	-	-	-	GB/T 20427	2006	-	-	IS 13907 1994	-	-	-	-	
25 Standard scales	JIS B 7541	2001	-	-	-	-	DIN 866	2006	-	-	-	-	-	-	-	-	-	JG 73	2005	-	-	-	-	-	-	-
26 Digital Position Readout	JIS B 7450	1989	-	-	-	-	DIN 32676-1	1999	DIN 32676-1	1999	VDI/VDE/DGQ 2618-14.1	2010	-	-	-	-	-	-	GB/T 26094	2010	JF 1331	2011	-	-	-	-
27 Electrical Comparators	JIS B 7536	1982	-	-	-	-	Bebbet 1	1999	DIN 32676-2	1999	VDI/VDE/DGQ 2618-14.1	2010	-	-	-	-	-	-	GB/T 22095	2008	JJG 117	2013	IS 7327 2003	-	-	-
28 Flow Type Air Gauges	JIS B 7535	1982	-	-	-	-	DIN 2271	2016	-	-	-	-	-	-	-	-	-	ABNT NBR NM 104 (Cast iron)	1998	GB/T 20428	2006	-	-	-	-	-
29 Precision surface plates	JIS B 7513	1992	-	-	ISO 8512-1	1990	DIN 876-1	1984	VDI/VDE/DGQ 2618-6.2	2014	BS 817	2008	NF E11-101	1992	ASME B89.3.7	2013	-	-	ABNT NBR ISO 103 (Granite)	1998	GB/T 20428	2006	JJG 117	2013		

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		JIS**	JMAS**	ISO**	DIN**	VDI**	BS**	NF**	ANSI/ASME**	Federal**	ABNT/NBR**	GB/T, JB/T**	JG, JJF**	IS** + 1											
36 Geometrical product specifications (GPS) – Acceptance and reverification tests for coordinate measuring machines (CMM) – #3		-	-	-	-	-	-	-	ASME B89.4.10360.2	2008	-	-	-	-	-	-	-	-							
Geometrical product specifications (GPS) – Acceptance and reverification tests for coordinate measuring machines (CMM) – Part 1: Vocabulary	JIS B 7440-1	2003	-	-	ISO 10360-1	2000	DIN EN ISO 10360-1	2003	BS EN ISO 10360-1	2001	NF EN ISO 10360-1	2001	ASME B89.4.10360.2	2008	-	-	ABNT NBR ISO 10360-1	2010	-	-					
Geometrical product specifications (GPS) – Acceptance and reverification tests for coordinate measuring machines (CMM) – Part 2: CMMs used for measuring linear dimensions	JIS B 7440-2	2013	-	-	ISO 10360-2	2009	DIN EN ISO 10360-2	2010	-	-	BS EN ISO 10360-2	2009	NF EN ISO 10360-2	2010	ASME B89.4.10360.2	2008	-	-	ABNT NBR ISO 10360-2	2018	GB/T 16857.2	2017			
Geometrical product specifications (GPS) – Acceptance and reverification tests for coordinate measuring machines (CMM) – Part 3: CMMs with a rotary axis of the fourth axis	JIS B 7440-3	2003	-	-	ISO 10360-3	2000	DIN EN ISO 10360-3	2000	-	-	BS EN ISO 10360-3	2001	NF EN ISO 10360-3	2000	-	-	-	-	ABNT NBR ISO 10360-3	2010	GB/T 16857.3	2009			
Geometrical product specifications (GPS) – Acceptance and reverification tests for coordinate measuring systems (CMS) – Part 5: Coordinate measuring machines (CMMs) using single and multiple stylus contacting probing systems using discrete point and/or scanning measuring mode	JIS B 7440-5	2022	-	-	ISO 10360-5	2020	DIN EN ISO 10360-5	2020	-	-	BS EN ISO 10360-5	2020	NF EN ISO 10360-5	2020	-	-	-	-	GB/T 16857.5	2017	-	-			
Geometrical product specifications (GPS) – Acceptance and reverification tests for coordinate measuring systems (CMS) – Part 6: Estimation of errors in computing Gaussian associated features	JIS B 7440-6	2004	-	-	ISO 10360-6	2001	DIN EN ISO 10360-6	2009	-	-	BS EN ISO 10360-6	2001	NF EN ISO 10360-6	2002	ASME B89.4.10	2021	-	-	-	-	GB/T 16857.6	2006	-	-	
Geometrical product specifications (GPS) – Acceptance and reverification tests for coordinate measuring machines (CMM) – Part 7: CMMs equipped with imaging probing systems	JIS B 7440-7	2015	-	-	ISO 10360-7	2011	DIN EN ISO 10360-7	2011	-	-	BS EN ISO 10360-7	2011	NF EN ISO 10360-7	2011	-	-	-	-	GB/T 24762	2009	-	-			
Geometrical product specifications (GPS) – Acceptance and reverification tests for coordinate measuring systems (CMS) – Part 8: CMMs with optical distance sensors	JIS B 7440-8	2015	-	-	ISO 10360-8	2013	DIN EN ISO 10360-8	2014	VDI/VDE 2617-6.2	2021	BS EN ISO 10360-8	2013	NF EN ISO 10360-8	2014	-	-	-	-	-	-	-	IS 15635-8	2019		
Geometrical product specifications (GPS) – Acceptance and reverification tests for coordinate measuring systems (CMS) – Part 9: CMMs with multiple probing systems	JIS B 7440-9	2017	-	-	ISO 10360-9	2013	DIN EN ISO 10360-9	2014	-	-	BS EN ISO 10360-9	2013	NF EN ISO 10360-9	2014	-	-	-	-	-	-	-	IS 15635-9	2019		
Geometrical product specifications (GPS) – Acceptance and reverification tests for coordinate measuring systems (CMS) – Part 10: Laser trackers #2		-	-	-	ISO 10360-10	2021	DIN EN ISO 10360-10	2017	VDI/VDE 2617-10	2011	BS EN ISO 10360-10	2021	NF EN ISO 10360-10	2021	-	-	-	-	-	-	-	JJF 1242	2010		
Geometrical product specifications (GPS) – Acceptance and reverification tests for coordinate measuring systems (CMS) – Part 12: Articulated arm coordinate measuring machines (CMM)	JIS B 7440-12	2019	-	-	ISO 10360-12	2016	DIN EN ISO 10360-12	2018	VDI/VDE 2617-9	2009	BS EN ISO 10360-12	2016	NF EN ISO 10360-12	2016	-	-	-	-	-	-	-	JJF 1408	2013		
37 Geometrical product specifications (GPS) – Guidelines for the evaluation of coordinate measuring machine (CMM) test uncertainty #2		-	-	-	ISO/TS 23165	2006	DIN ISO/TS 23165	2008	-	-	DD ISO/TS 23165	2006	XP ISO/TS 23165	2006	ASME B89.4.10360.2	2008	-	-	-	-	GB/T 24635.3	2009	-	-	
38 Accuracy of coordinate Measuring Machine #3		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accuracy of coordinate measuring machines – Parameters and their reverification – Code of practice for the application of DIN EN ISO 10360-2 for length measurement #3		-	-	-	-	-	-	-	VDI/VDE 2617-2.1	2014	-	-	-	-	-	-	-	-	-	-	-	-	IS 15635-2	2014	
Characteristics and their testing – Form measurement with coordinate measuring machine #3		-	-	-	-	-	-	-	VDI/VDE 2617-2.2	2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Characteristics and checking of characteristics – Acceptance and reverification tests for coordinate measuring machines of large dimensions #3		-	-	-	-	-	-	-	VDI/VDE 2617-2.3	2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Characteristics and their checking – Manual for the use of DIN EN ISO 10360-3 for coordinate measuring machines with additional axes of rotation #3		-	-	-	-	-	-	-	VDI/VDE 2617-4	2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Parameters and their reverification – Interim check with artefacts #3		-	-	-	-	-	-	-	VDI/VDE 2617-5	2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Parameters and their reverification – Interim check with ball plates #3		-	-	-	-	-	-	-	VDI/VDE 2617-5.1	2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Characteristics and their testing – Coordinate measuring machines with optical probing – Code of practice for the application of DIN EN ISO 10360 to coordinate measuring machines with optical sensors for lateral structures #3		-	-	-	-	-	-	-	VDI/VDE 2617-6.1	2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Parameters and their checking – Estimation of measurement uncertainty of coordinate measuring machines by means of simulation #3		-	-	-	-	-	-	-	VDI/VDE 2617-7	2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Characteristics and their testing – Test process suitability of measurements with coordinate measuring machines #3		-	-	-	-	-	-	-	VDI/VDE 2617-8	2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Characteristics and their verification – Acceptance and confirmation testing of laser-trackers #3		-	-	-	-	-	-	-	VDI/VDE 2617-10.1	2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Characteristics and their checking – Determination of the uncertainty of measurement for coordinate measuring machines using uncertainty budgets #3		-	-	-	-	-	-	-	VDI/VDE 2617-11	2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Characteristics and their checking – Acceptance and reverification tests for tactile CMM measuring microgeometries #3		-	-	-	-	-	-	-	VDI/VDE 2617-12.1	2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Characteristics and their testing – Acceptance and reverification tests for optical CMM measuring microgeometries according to DIN EN ISO 10360-8 and VDI/VDE 2617-6.2 #3		-	-	-	-	-	-	-	VDI/VDE 2617-12.2	2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
39 Instruments for the assessment of departure from roundness – Measurement of variations in radius	JIS B 7451	1997	JMAs 5022	2013	ISO 4291	1985	DIN EN ISO 12181-1	2011	-	-	BS 6740	1987	NF EN ISO 12181-1	2011	ASME B89.3.1	1972	-	-	-	-	GB/T 7235	2004	-	-	
40 Form measurement #4		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Definitions and Designations of Geometrical Deviations	JIS B 0621	1984	-	-	ISO 1101	2017	DIN EN ISO 1101	2017	-	-	BS EN ISO 1101	2017	NF EN ISO 1101	2017	-	-	-	-	-	-	-	-	-	-	-
Geometrical product specifications (GPS) – Cylindricity – Part 1: Vocabulary and parameters of cylindrical form #2		-	-	-	ISO 12180-1	2011	DIN EN ISO 12180-1	2011	-	-	BS EN ISO 12180-1	2011	NF EN ISO 12180-1	2011	-	-	-	-	-	-	-	-	IS 16225-1	2014	
Geometrical product specifications (GPS) – Cylindricity – Part 2: Specification operators		-	-	-	ISO 12180-2	2011	DIN EN ISO 12180-2	2011	-	-	BS EN ISO 12180-2	2011	NF EN ISO 12180-2	2011	-	-	-	-	-	-	-	-	IS 16225-2	2014	
Geometrical product specifications (GPS) – Roundness – Part 1: Vocabulary and parameters of roundness	JIS B 0682-1	2017	-	-	ISO 12181-1	2011	DIN EN ISO 12181-1	2011	-	-	BS EN ISO 12181-1	2011	NF EN ISO 12181-1	2011	-	-	-	-	-	-	-	-	GB/T 24632.1	2009	
Geometrical product specifications (GPS) – Roundness – Part 2: Specification operators	JIS B 0682-2	2017	-	-	ISO 12181-2	2011	DIN EN ISO 12181-2	2011	-	-	BS EN ISO 12181-2	2011	NF EN ISO 12181-2	2011	-	-	-	-	-</td						