



Standard Tables of Body Measurements for Men Sizes Thirty-Four to Sixty (34 to 60) Regular¹

This standard is issued under the fixed designation D 6240; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 These standard tables cover the body measurements of men from size thirty-four to sixty. Although these are body measurements, they can be used in designing apparel for men in this size range when such factors as fabric type, ease of body movement, styling, and fit are taken into account.

1.2 The values stated in either acceptable metric units or in other units shall be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system must be used independently of the other, without combining values in any way.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

D 123 Terminology Relating to Textiles²

D 5219 Terminology Relating to Body Dimensions for Apparel Sizing³

2.2 ISO Standard:

ISO 3635 Size Designation of Clothes, Definitions, and Body Measurement Procedures Apparel Sizes⁴

3. Terminology

3.1 Definitions:

3.1.1 For definitions relating to body dimensions, refer to Terminology D 5219.

3.1.2 For definitions of other textile terms used in these tables, refer to Terminology D 123.

4. Significance and Use

4.1 The use of the body measurement information in Tables

1-4 will assist manufacturers in the development of patterns and garments that are consistent with the current anthropometric characteristics of the population of interest. These standard tables in turn should reduce or minimize consumer confusion and dissatisfaction related to apparel sizing. (Also refer to ISO 3635.)

5. Apparatus

5.1 *Tape Measure*, (dimensionally stable and approximately 1.5 cm (1/2 in.) wide and graduated accurately in cm (1/16 in.)).

5.2 *Plastic Goniometer*, to measure the radian (degree) of shoulder slope.

5.3 *Scale*, standard, calibrated, body weight type.

5.4 *Metal Ruler*.

6. Procedure

6.1 General Procedure:

6.1.1 For all vertical and most horizontal measurements, subject is to be standing erect without shoes and with feet approximately 15 cm (6 in.) apart.

6.1.2 Take measurements over basic undergarments normally worn.

6.1.3 Take all measurements except torso circumferences, height, and weight from the same side of the body for consistency.

6.2 Body Measurements:

6.2.1 *Body weight*—Weigh the subject.

6.2.2 *Chest*—Measure the circumference of the body parallel to the floor, under the arms, and over the fullest part of the chest.

6.2.3 *Waist*—Measure horizontally around the body at waist height.

6.2.4 *Seat (hip)*—Measure horizontally around the body at hip height.

6.2.5 *Head circumference*—Measure the circumference of the head above the ears.

6.2.6 *Neck base girth*—Measure the circumference at base of the neck.

6.2.7 *Shoulder circumference*—With the arms relaxed and down at the side, measure around the shoulders just above the biceps.

6.2.8 *Armscye circumference*—With the arm hanging down,

¹ These tables are under the jurisdiction of ASTM Committee D-13 on Textiles and is the direct responsibility of Subcommittee D13.55 on Body Measurement for Apparel Sizing.

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² *Annual Book of ASTM Standards*, Vol 07.01.

³ *Annual Book of ASTM Standards*, Vol 07.02.

⁴ Available from American National Standards Institute, 11 W. 42nd St., 13th Floor, New York, NY 10036.

TABLE 1 New ASTM Men's Measurement Table

	Small (34-37)					Medium (38-41)					Large (42-45)					X-Large (46-49)				
	34	35	36	37	38	38	39	40	41	42	42	43	44	45	46	46	47	48	49	
Weight (Approximate kilograms)	58.06	59.42	62.60	65.77	69.40	74.84	81.65	83.92	88.45	90.72	95.26	97.52	104.33	106.60	111.13					
Girth Measurements (cm)																				
Sizes	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48					
Chest	86.36	88.90	91.44	93.98	96.52	99.06	101.60	104.14	106.68	109.22	111.76	114.30	116.84	119.38	121.92					
Waist	71.12	73.66	76.20	78.74	81.28	83.82	86.36	88.90	91.44	93.98	96.52	99.06	101.60	104.14	106.68					
Seat (hip)	86.36	88.90	91.44	93.98	96.52	99.06	101.60	104.14	106.68	109.22	111.76	114.30	116.84	119.38	121.92					
Head circumference	54.93	55.40	55.88	56.36	56.83	57.31	57.79	58.26	58.74	59.21	59.69	60.17	60.64	61.12	61.60					
Neck base	35.56	36.20	36.83	37.47	38.10	38.74	39.37	40.01	40.64	41.28	41.91	42.55	43.18	43.82	44.45					
Shoulder circumference	101.60	104.14	106.68	109.22	111.76	114.30	116.84	119.38	121.92	124.46	127.00	129.54	132.08	134.62	137.16					
Armscye	41.59	42.55	43.18	44.13	45.09	46.04	46.99	47.94	48.90	49.85	50.80	51.75	52.71	53.66	54.61					
Upper arm	29.21	29.85	30.48	31.12	32.39	33.02	33.66	34.30	34.93	35.56	36.20	36.83	37.47	38.10	38.74					
Elbow	27.62	28.10	28.58	29.05	29.53	30.00	30.48	30.96	31.43	31.91	32.39	32.86	33.34	33.81	34.29					
Wrist	17.15	17.46	17.78	18.10	18.42	18.73	19.05	19.37	19.69	20.00	20.32	20.64	20.96	21.27	21.59					
Thigh	52.71	54.29	55.88	57.47	59.06	60.64	62.23	63.82	65.41	66.99	68.58	70.17	71.76	73.34	74.93					
Knee	36.83	37.47	38.10	38.74	39.37	40.01	40.64	41.28	41.91	42.55	43.18	43.82	44.45	45.09	45.72					
Calf	34.29	34.93	35.56	36.20	36.83	37.47	38.10	38.74	39.37	40.01	40.64	41.28	41.91	42.55	43.18					
Ankle	21.59	22.23	22.86	23.50	24.13	24.77	25.40	26.04	26.67	27.31	27.94	28.58	29.21	29.85	30.48					
Trunk (total trunk, torso)	150.50	153.35	156.21	159.06	161.92	164.77	167.62	170.48	173.33	176.19	179.04	181.89	184.74	187.59	190.44					
Total crotch	62.23	63.82	65.41	66.99	68.58	70.17	71.76	73.34	74.93	76.52	78.11	79.70	81.29	82.88	84.47					
Vertical Measurements (cm)																				
Sizes	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48					
Stature	172.09	173.04	173.99	175.42	176.21	177.32	178.44	179.55	180.66	181.77	182.88	183.99	185.10	186.21	187.32					
Cervicale height	148.27	149.07	149.86	151.13	151.77	152.72	153.67	154.15	154.62	155.10	155.58	156.06	156.54	157.02	157.50					
Head height, including neck	23.81	23.97	24.13	24.29	24.45	24.61	24.77	24.92	25.08	25.23	25.39	25.54	25.69	25.84	25.99					
Waist height	106.05	106.36	106.68	107.63	107.95	108.59	109.22	109.86	110.49	111.13	111.76	112.40	113.03	113.66	114.29					
Armscye depth	12.54	12.70	12.86	13.02	13.18	13.34	13.50	13.66	13.82	13.98	14.14	14.30	14.46	14.62	14.78					
Arm inseam	48.26	48.26	48.26	47.94	47.94	47.63	47.31	46.99	46.67	46.35	46.03	45.71	45.39	45.07	44.75					
Crotch height (inseam)	81.92	81.92	81.92	82.23	82.23	82.55	82.55	82.55	82.55	82.55	82.55	82.55	82.55	82.55	82.55					
Knee height	44.45	44.45	44.45	45.09	45.72	46.36	46.36	46.36	46.36	46.36	46.36	46.36	46.36	46.36	46.36					
Ankle height	5.40	5.40	5.40	5.72	6.03	6.35	6.67	6.99	7.31	7.63	7.95	8.27	8.59	8.91	9.23					
Waist length (cervicale to waist)	42.23	42.70	43.18	43.50	43.82	44.13	44.45	44.77	45.09	45.41	45.73	46.05	46.37	46.69	47.01					
True rise	24.13	24.45	24.77	25.40	25.72	26.35	26.67	26.99	27.31	27.63	27.95	28.27	28.59	28.91	29.23					
Width and Length (cm)																				
Sizes	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48					
Across shoulder (point to point)	41.91	42.23	42.55	42.86	43.18	43.82	44.45	45.09	45.72	46.36	46.99	47.63	48.26	48.90	49.53					
Across chest 4 in. down	38.10	38.74	39.37	40.01	40.64	41.28	41.91	42.55	43.18	43.82	44.45	45.09	45.72	46.36	46.99					
Across back 5 in. down	39.37	40.01	40.64	41.28	41.91	42.55	43.18	43.82	44.45	45.09	45.72	46.36	46.99	47.63	48.26					
Shoulder slope (degrees)	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25					
Cervicale to wrist	81.29	81.60	81.92	82.71	83.50	84.30	85.09	85.41	85.88	86.36	86.83	87.15	87.63	87.95	88.58					
Hand and foot width	8.26	8.57	8.89	9.21	9.53	9.84	10.16	10.48	10.80	11.12	11.44	11.76	12.08	12.40	12.72					
Hand length	18.10	18.10	18.42	18.42	18.42	18.42	18.42	19.05	19.05	19.05	19.69	19.69	19.69	19.69	20.32					
Foot length	21.59	22.86	22.86	24.13	25.40	25.40	26.67	26.67	28.67	28.67	27.94	27.94	27.94	27.94	29.21					

TABLE 2 New ASTM Men's Measurement Table

	XXL - 2XL (50-53)					XXXL - 3XL (54-57)					XXXXL - 4XL (58-60)				
	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Weight (Approximate kilograms)	113.40	117.94	122.47	127.01	136.08	142.88	145.15	149.69	156.49	158.76	163.30	167.83			
	Girth Measurements (cm)														
Sizes	49	50	51	52	53	54	55	56	57	58	59	60			
Chest	124.46	127.00	129.54	132.08	134.62	137.16	139.70	142.24	144.78	147.32	149.86	152.40			
Waist	112.40	115.57	118.75	121.92	125.73	129.54	133.35	137.16	142.24	147.32	152.40	157.48			
Seat (hip)	124.46	127.00	129.54	132.08	134.62	137.16	139.70	142.24	144.78	147.32	149.88	152.40			
Head circumference	62.07	62.55	63.02	63.50	63.98	64.45	64.93	65.41	65.88	66.36	66.83	67.31			
Neck base	45.09	45.72	46.36	46.99	47.63	48.26	48.90	49.53	50.17	50.80	51.44	52.07			
Shoulder circumference	139.70	142.24	144.78	147.32	149.86	152.40	154.94	157.48	160.02	162.56	165.10	167.64			
Armscye	52.86	53.66	54.45	55.25	56.04	56.83	57.47	58.42	59.21	60.01	60.80	61.60			
Upper arm	38.74	39.37	40.01	40.64	41.28	41.91	42.55	43.18	43.82	44.45	45.09	45.72			
Elbow	34.77	35.24	35.72	36.20	36.67	37.15	37.62	38.10	38.58	39.05	39.53	40.01			
Wrist	21.91	22.23	22.54	22.86	23.18	23.50	23.81	24.13	24.45	24.77	25.08	25.40			
Thigh	76.52	78.11	79.69	81.28	82.87	84.46	86.04	87.83	89.22	90.81	92.39	93.98			
Knee	46.36	46.99	47.63	48.26	48.90	49.53	50.17	50.80	51.44	52.07	52.71	53.34			
Calf	43.82	44.45	45.09	45.72	46.36	46.99	47.63	48.26	48.90	49.53	50.17	50.80			
Ankle	31.12	31.75	32.39	33.02	33.66	34.29	34.93	35.56	36.20	36.83	37.47	38.10			
Trunk (total trunk, torso)	181.45	182.09	185.26	186.69	188.75	190.82	192.88	194.95	197.01	199.07	201.14	203.20			
Total crotch	82.55	83.82	85.09	86.38	87.63	88.90	90.17	91.44	93.03	94.62	96.20	97.79			
	Vertical Measurements (cm)														
Sizes	49	50	51	52	53	54	55	56	57	58	59	60			
Stature	181.93	182.25	182.50	182.88	183.52	183.99	184.47	184.94	185.42	185.90	186.37	186.69			
Cervicale height	156.69	156.85	157.16	157.48	157.96	158.43	158.75	159.23	159.54	160.02	160.34	160.66			
Head height, including neck	25.24	25.40	25.40	25.40	25.56	25.56	25.72	25.72	25.88	25.88	26.04	26.04			
Waist height	111.13	111.28	111.44	111.76	112.08	112.40	112.71	113.03	113.35	113.67	113.98	114.14			
Armscye depth	16.03	16.35	16.51	16.83	17.15	17.30	17.62	17.78	18.10	18.42	18.57	18.73			
Arm inseam	46.04	46.04	46.04	46.04	45.72	45.72	45.40	45.40	45.40	45.40	45.09	45.09			
Crotch height (inseam)	80.96	80.80	80.65	80.65	80.65	80.33	80.33	80.01	79.69	79.69	79.38	79.06			
Knee height	47.63	47.63	47.63	47.63	48.26	48.26	48.26	48.26	48.90	48.90	48.90	48.90			
Ankle height	6.99	6.99	6.99	6.99	7.30	7.30	7.30	7.30	7.62	7.62	7.62	7.62			
Waist length (cervicale to waist)	45.58	45.58	45.72	45.72	45.88	46.04	46.04	46.20	46.20	46.36	46.36	46.51			
True rise	30.16	30.48	30.80	31.12	31.43	32.07	32.39	33.02	33.66	33.97	34.61	34.93			
	Width and Length (cm)														
Sizes	49	50	51	52	53	54	55	56	57	58	59	60			
Across shoulder (point to point)	50.17	50.80	51.44	52.07	52.55	53.02	53.50	53.98	54.45	54.93	55.40	55.88			
Across chest 4 in. down	47.83	48.26	48.90	49.53	50.17	50.80	51.44	52.07	52.71	53.34	53.98	54.61			
Across back 5 in. down	48.90	49.53	50.17	50.80	51.44	52.07	52.71	53.34	53.98	54.61	55.25	55.88			
Shoulder slope degrees	25	25	25	25	25	25	25	25	25	25	25	25			
Cervicale to wrist	89.22	89.54	90.01	90.49	90.96	91.44	91.92	92.39	92.87	93.35	93.82	94.30			
Hand and foot width	11.11	11.11	11.11	11.11	11.43	11.43	12.07	12.07	12.70	12.70	12.70	12.70			
Hand length	20.32	20.32	20.32	20.96	20.96	20.96	20.96	20.96	21.59	21.59	21.59	21.59			
Foot length	29.21	29.21	29.21	30.48	30.48	30.48	30.48	31.75	31.75	31.75	33.02	33.02			

TABLE 3 New ASTM Men's Measurement Table

Weight (Approximate pounds)	Medium (38-41)							Large (42-45)							X-Large (46-49)		
	128	131	138	145	153	165	180	185	195	200	210	215	230	235	245		
Sizes	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		
Chest	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		
Waist	28	29	30	31	32	33	34	35	36	37	38	39 1/4	40 1/2	41 3/4	43		
Seat (hip)	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		
Head circumference	21 5/8	21 13/16	22	22 3/16	22 3/8	22 9/16	22 3/4	22 15/16	23 1/8	23 5/16	23 1/2	23 11/16	23 7/8	24 1/16	24 1/4		
Neck base	14	14 1/4	14 1/2	14 3/4	15	15 1/4	15 1/2	15 3/4	16	16 1/4	16 1/2	16 3/4	17	17 1/4	17 1/2		
Shoulder circumference	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54		
Armscye	16 3/8	16 3/4	17	17 3/8	17 3/4	18 1/8	18 1/2	18 7/8	19 1/4	19 5/8	20	20 3/8	20 3/4	21 1/8	21 1/2		
Upper arm	11 1/2	11 3/4	12	12 1/4	12 3/4	13	13 1/4	13 3/4	13 1/2	13 3/4	14	14 1/4	14 1/2	14 3/4	15		
Elbow	10 7/8	11 1/16	11 1/4	11 7/16	11 5/8	11 13/16	12	12 3/16	12 3/8	12 9/16	12 3/4	12 15/16	13 1/8	13 1/4	13 1/2		
Wrist	6 3/4	6 7/8	7	7 1/8	7 1/4	7 3/8	7 1/2	7 5/8	7 3/4	7 7/8	8	8 1/8	8 1/4	8 3/8	8 1/2		
Thigh	20 3/4	21 3/8	22	22 5/8	23 1/4	23 7/8	24 1/2	25 1/8	25 3/4	26 3/8	27	27 5/8	28 1/4	28 7/8	29 1/2		
Knee	14 1/2	14 3/4	15	15 1/4	15 1/2	15 3/4	16	16 1/4	16 1/2	16 3/4	17	17 1/4	17 1/2	17 3/4	18		
Calf	13 1/2	13 3/4	14	14 1/4	14 1/2	14 3/4	15	15 1/4	15 1/2	15 3/4	16	16 1/4	16 1/2	16 3/4	17		
Ankle	8 1/2	8 3/4	9	9 1/4	9 1/2	9 3/4	10	10 1/4	10 1/2	10 3/4	11	11 1/4	11 1/2	11 3/4	12		
Trunk (total trunk, torso)	59 1/4	60 3/8	61 1/2	62 1/2	63 1/2	64 1/2	65 1/2	66 3/16	66 7/8	67 9/16	68 1/4	68 7/8	69 9/16	70 1/4	70 7/8		
Total crotch	24 1/2	25 1/8	25 3/4	26 3/8	27	27 1/2	28	28 1/2	29	29 1/2	30	30 1/2	31	31 1/2	32		
Sizes	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		
Stature	67 3/4	68 1/8	68 1/2	69 1/16	69 3/8	69 13/16	70 1/4	70 7/16	70 11/16	70 7/8	71 1/8	71 1/4	71 3/8	71 1/2	71 9/16		
Cervicale height	58 3/8	58 11/16	59	59 1/2	59 3/4	60 1/8	60 1/2	60 11/16	60 7/8	61 1/16	61 1/4	61 3/8	61 1/2	61 9/16	61 5/8		
Head height, including neck	9 3/8	9 7/16	9 1/2	9 9/16	9 5/8	9 11/16	9 3/4	9 3/4	9 13/16	9 13/16	9 7/8	9 7/8	9 7/8	9 15/16	9 15/16		
Waist height	41 3/4	41 7/8	42	42 3/8	42 1/2	42 3/4	43	43 1/8	43 1/4	43 3/8	43 1/2	43 5/8	43 11/16	43 1/16	43 3/4		
Armscye depth	4 15/16	5	5 1/16	5 1/8	5 1/4	5 7/16	5 1/2	5 5/8	5 11/16	5 13/16	5 7/8	5 7/8	5 7/8	6 1/16	6 1/4		
Arm inseam	19	19	19	18 7/8	18 7/8	18 3/4	18 3/4	18 5/8	18 5/8	18 1/2	18 1/2	18 3/8	18 3/8	18 1/4	18 1/4		
Crotch height (inseam)	32 1/4	32 1/4	32 1/4	32 3/8	32 3/8	32 3/8	32 1/2	32 1/2	32 1/2	32 1/2	32 1/2	32 1/2	32 7/16	32 3/16	32 1/8		
Knee height	17 1/2	17 1/2	17 3/4	17 3/4	18	18	18 1/4	18 1/4	18 1/4	18 1/4	18 3/8	18 3/8	18 1/2	18 1/2	18 1/2		
Ankle height	2 1/8	2 1/8	2 1/4	2 1/4	2 3/8	2 3/8	2 1/2	2 1/2	2 1/2	2 1/2	2 5/8	2 5/8	2 5/8	2 1/16	2 1/16		
Waist length (cervicale to waist)	16 5/8	16 13/16	17	17 1/8	17 1/4	17 3/8	17 1/2	17 9/16	17 5/8	17 11/16	17 3/4	17 3/4	17 13/16	17 7/8	17 7/8		
True rise	9 1/2	9 5/8	9 3/4	10	10 1/8	10 3/8	10 1/2	10 5/8	10 3/4	10 7/8	11	11 1/8	11 1/4	11 1/2	11 5/8		
Sizes	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		
Across shoulder (point to point)	16 1/2	16 5/8	16 3/4	16 7/8	17	17 1/4	17 1/2	17 3/4	18	18 1/4	18 1/2	18 3/4	19	19 1/4	19 1/2		
Across chest 4 in. down	15	15 1/4	15 1/2	15 3/4	16	16 1/4	16 1/2	16 3/4	17	17 1/4	17 1/2	17 3/4	18	18 1/4	18 1/2		
Across back 5 in. down	15 1/2	15 3/4	16	16 1/4	16 1/2	16 3/4	17	17 1/4	17 1/2	17 3/4	18	18 1/4	18 1/2	18 3/4	19		
Shoulder slope degrees	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25		
Cervicale to wrist	32	32 1/8	32 1/4	32 9/16	32 7/8	33 3/16	33 1/2	33 5/8	33 13/16	34	34 1/8	34 5/16	34 1/2	34 5/8	34 7/8		
Hand and foot width	3 1/4	3 3/8	3 1/2	3 5/8	3 3/4	3 7/8	4	4 1/8	4 1/4	4 1/8	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4		
Hand length	7 1/8	7 1/8	7 1/4	7 1/4	7 1/4	7 1/4	7 1/2	7 1/2	7 1/2	7 1/2	7 3/4	7 3/4	7 3/4	7 3/4	8		
Foot length	8 1/2	9	9	9 1/2	10	10	10 1/2	10 1/2	10 1/2	10 1/2	11	11	11	11	11 1/2		

TABLE 4 New ASTM Men's Measurement Table

Weight (Approximate pounds)	XXXL - 3XL (54-57)										XXXXL - 4XL (58-60)				
	250	260	270	280	300	315	320	330	345	350	360	370			
Sizes	49	50	51	52	53	54	55	56	57	58	59	60			
Chest	49	50	51	52	53	54	55	56	57	58	59	60			
Waist	44 1/4	45 1/2	46 3/4	48	49 1/2	51	52 1/2	54	56	58	60	62			
Seat (hip)	49	50	51	52	53	54	55	56	57	58	59	60			
Head circumference	24 7/16	24 9/16	24 13/16	25	25 3/16	25 3/8	25 9/16	25 3/4	25 15/16	26 1/8	26 3/16	26 1/2			
Neck base	17 3/4	18	18 1/4	18 1/2	18 3/4	19	19 1/4	19 1/2	19 3/4	20	20 1/4	20 1/2			
Shoulder circumference	55	56	57	58	58 1/2	59	60	61	62	63	64	65			
Armscye	20 13/16	21 1/8	21 7/16	21 3/4	22 1/16	22 3/8	22 5/8	23	23 5/16	23 5/8	23 15/16	24 1/4			
Upper arm	15 1/4	15 1/2	15 3/4	16	16 1/4	16 1/2	16 3/4	17	17 1/4	17 1/2	17 3/4	18			
Elbow	13 11/16	13 7/8	14 1/16	14 1/4	14 1/2	14 5/8	14 3/4	15	15 1/8	15 1/4	15 3/8	15 3/4			
Wrist	8 5/8	8 3/4	8 7/8	9	9 1/8	9 1/4	9 3/8	9 1/2	9 5/8	9 3/4	9 7/8	10			
Thigh	30 1/8	30 3/4	31 3/8	32	32 5/8	33 1/4	33 7/8	34 1/2	35 1/8	35 3/4	36 3/8	37			
Knee	18 1/4	18 1/2	18 3/4	19	19 1/4	19 1/2	19 3/4	20	20 1/4	20 1/2	20 3/4	21			
Calf	17 1/4	17 1/2	17 3/4	18	18 1/4	18 1/2	18 3/4	19	19 1/4	19 1/2	19 3/4	20			
Ankle	12 1/4	12 1/2	12 3/4	13	13 1/4	13 1/2	13 3/4	14	14 1/4	14 1/2	14 3/4	15			
Trunk (total trunk, torso)	71 7/16	71 11/16	72 19/16	73 1/2	74 5/16	75 1/8	75 15/16	76 3/4	77 1/16	78 5/8	79 9/16	80 1/2			
Total crotch	32 1/2	33	33 1/2	34	34 1/2	35	35 1/2	36	36 5/8	37 1/4	37 7/8	38 1/2			
Sizes	49	50	51	52	53	54	55	56	57	58	59	60			
Stature	71 5/8	71 3/4	71 7/8	72	72 1/4	72 7/16	72 5/8	72 13/16	73	73 3/16	73 3/8	73 1/2			
Cervicale height	61 11/16	61 3/4	61 7/8	62	62 3/16	62 3/8	62 1/2	62 11/16	62 13/16	63	63 1/8	63 1/4			
Head height including neck	9 15/16	10	10 1/16	10 1/8	10 1/4	10 1/2	10 5/8	10 3/4	10 7/8	10 3/4	10 1/4	10 1/4			
Waist height	43 3/4	43 13/16	43 7/8	44	44 1/8	44 1/4	44 3/8	44 1/2	44 5/8	44 3/4	44 7/8	44 15/16			
Armscye depth	6 5/16	6 7/16	6 1/2	6 5/8	6 3/4	6 13/16	6 15/16	7	7 1/8	7 1/4	7 5/16	7 3/8			
Arm inseam	18 1/8	18 1/2	18 5/8	18 7/8	19	19 1/8	19 1/4	19 1/2	19 3/8	19 1/2	19 3/4	19 7/8			
Crotch height (inseam)	31 7/8	31 13/16	31 3/4	31 3/4	31 3/4	31 5/8	31 5/8	31 1/2	31 3/8	31 3/8	31 1/4	31 1/8			
Knee height	18 3/4	18 3/4	18 3/4	18 3/4	19	19	19	19	19 1/4	19 1/4	19 1/4	19 1/4			
Ankle height	2 3/4	2 3/4	2 3/4	2 3/4	2 7/8	2 7/8	2 7/8	2 7/8	2 7/8	3	3	3			
Waist length (cervicale to waist)	17 15/16	17 5/16	18	18	18 1/16	18 1/8	18 1/8	18 3/16	18 3/16	18 1/4	18 1/4	18 5/16			
True rise	11 7/8	12	12 1/8	12 1/4	12 3/8	12 3/8	12 3/4	13	13 1/4	13 3/8	13 3/8	13 3/4			
Sizes	49	50	51	52	53	54	55	56	57	58	59	60			
Across shoulder (point to point)	19 3/4	20	20 1/4	20 1/2	20 11/16	20 7/8	21 1/16	21 1/4	21 7/16	21 5/8	21 13/16	22			
Across chest 4 in. down	18 3/4	19	19 1/4	19 1/2	19 3/4	20	20 1/4	20 1/2	20 3/4	21	21 1/4	21 1/2			
Across back 5 in. down	19 1/4	19 1/2	19 3/4	20	20 1/4	20 1/2	20 3/4	21	21 1/4	22	22 3/4	23 1/2			
Shoulder slope degrees	25	25	25	25	25	25	25	25	25	25	25	25			
Cervicale to wrist	35 1/8	35 1/4	35 7/16	35 5/8	35 13/16	36	36 3/16	36 3/8	36 9/16	36 3/4	36 15/16	37 1/8			
Hand and foot width	4 3/8	4 3/8	4 3/8	4 3/8	4 1/2	4 1/2	4 3/4	4 3/4	4 3/4	5	5	5			
Hand length	8	8	8	8 1/4	8 1/4	8 1/4	8 1/4	8 1/4	8 1/2	8 1/2	8 1/2	8 1/2			
Foot length	11 1/2	11 1/2	11 1/2	12	12	12	12 1/2	12 1/2	12 1/2	12 1/2	13	13			

measure the distance from the shoulder joint through the front break point, the armpit, the back break point, and to the starting point.

6.2.9 *Upper arm*—Measure the circumference of the arm midway between the outer edge of the shoulder and the elbow.

6.2.10 *Elbow*—Measure the circumference of the elbow while the arm is bent (1.57 rad or 90 degrees).

6.2.11 *Wrist*—Measure the circumference of the wrist over the inner and outer bony prominence at the lower end of the forearm.

6.2.12 *Thigh girth*—Measure the maximum circumference of the upper part of the leg close to or near the crotch.

6.2.13 *Knee girth*—Measure with the leg straight, the circumference of the knee, over the kneecap and parallel to the floor.

6.2.14 *Calf girth*—Measure the maximum circumference around the leg between the knee and ankle, parallel to the floor.

6.2.15 *Ankle girth*—Measure the circumference of the leg over the ankle over the greatest prominence of the ankle.

6.2.16 *Total vertical trunk length*—Measure the distance from the right shoulder line midway between the neck base and the shoulder joint, down the back through the crotch and over the right chest to the starting point, taking care to avoid constriction at the crotch.

6.2.17 *Total crotch*—Measure the distance from waist level at the center front through the crotch and to the waist level at the center back.

6.2.18 *Height*—Measure from the top of the head to the soles of the feet.

6.2.19 *Cervicale height*—Measure the plumb line distance from the cervicale to the soles of the feet.

6.2.20 *Head height including neck*—With the head and the neck erect, measure the plumb line distance from the crown to the cervicale.

6.2.21 *Waist length (cervicale to backwaist)*—At center-back, measure along the spine from the cervicale to waist.

6.2.22 *Armscye depth*—Measure along the spine from the cervicale to a point level to an imaginary horizontal line connecting the mid-underarm points.

6.2.23 *Underarm length*—With the arm down, measure the distance from the armpit to the midpoint on the inside of the wrist in line with the greatest prominence.

6.2.24 *Crotch height*—Measure the plumb line distance from the crotch to the soles of the feet.

6.2.25 *Knee height*—Measure the plumb line distance from

the midpoint of the knee to the soles of the foot.

6.2.26 *Ankle height*—With the subject standing barefoot, measure the distance from the center of the prominent ankle bone to the floor.

6.2.27 *Waist height*—Measure the plumb line distance from the waist to the soles of the feet.

6.2.28 *True rise*—With the subject sitting on a hard, flat surface, measure straight down from the waist level at the side of the body to the flat surface.

6.2.29 *Across shoulder*—Measure across the back from one shoulder joint to the other shoulder joint as defined in Terminology D 5219.

6.2.30 *Cross chest width (10.16 cm, 4 in. down)*—Measure across the chest from armscye to armscye at the front break point level.

6.2.31 *Back width*—Measure the distance across the back from back-break point to back-break point.

6.2.32 *Shoulder slope*—Using a goniometer, position the measuring device on the shoulder and move the baseline until it is parallel to the floor; identify on the dial the degrees of difference between the slope of the shoulder and the established horizontal measure of the goniometer.

6.2.33 *Cervicale to wrist (sleeve length from centerback)*—With the arm bent 1.57 rad or 90 degrees at the elbow, and raised to chest height, measure the distance from the cervicale to the shoulder joint, along the outside surface of the arm, over the elbow to the greater prominence on the outside of the wrist.

6.2.34 *Hand width*—Using a stable, flat ruler, palms up, measure palm flat, at the widest point, excluding the thumb, with fingers together.

6.2.35 *Foot width*—With the subject standing barefoot, measure the bottom distance from one side of the foot to the other at the widest part of the foot.

6.2.36 *Hand length*—Using a stable, flat ruler, palm up and flat, with fingers together, measure from the center of the wrist to the tip of the middle finger.

6.2.37 *Foot length*—With the subject standing barefoot, measure the bottom distance from one end of the foot to the other at the end of the longest toe, making certain the distance is straight, not at an angle.

7. Keywords

7.1 body measurements; garment sizes; men's; men's apparel; tables

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