



Standard Tables of Body Measurements for Mature Men, ages 35 and older, Sizes Thirty-Four to Fifty-Two (34 to 52) Short, Regular, and Tall¹

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INTRODUCTION

These body measurement tables were developed from evaluation of data currently used in the apparel industry. These tables were developed from data published by the U.S. Department of Commerce,² Caesar Study,³ Size USA Study,⁴ Current USA industry and Studies, Scans and documentation from Alvanon Inc.⁵ This standard takes into consideration Mature Men at a standard height of Short 5 ft 7 in., Regular 5 ft 10 in., and Tall 6 ft 2 in. (65 % of average USA population) taking into account the decrease and increase in body weight that shift a person from one size to another, while this person does not gain in height. Major review and evaluation was done. The incremental growth at different key body points has been addressed and defined, which resulted in identifying increases and decreases at different rates in specific areas; chest, waist, high hip and hip/seat. Additionally to better serve the industry, incremental movement between sizes was reviewed ensuring smooth transition between sizes. To verify the proposed body measurements, a three-dimensional Avatar was created in the Men's Short, Regular and Tall size range 34 through 52 by Alvanon Inc. for a visual reference and is also attached in the documentation.

1. Scope

1.1 These tables list body measurements of mature male figure type, age 35 and older, sizes 34 through 52 in Short, Regular, and Tall. Although these are body measurements, they can be used as a baseline in designing apparel for Mature Men in this size range when considering such factors as fabric type, ease for body movement, styling, and fit.

1.2 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

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

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² U.S. Department of Commerce, *Voluntary Product Standard: Body Measurements for the Sizing of Children's Apparel*, NIST Publication No. PS 54-172, Washington, DC.

³ Caesar: Summary Statistics for the Adult population (Ages 18-65) of the United States of America, June 2002.

⁴ Available from: <http://www.tc2.com/sizeusa.html>

⁵ Alvanon, Inc., 145 W. 30th Street, Suite 1000, New York, NY 10001.

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:*⁶

D123 Terminology Relating to Textiles

D5219 Terminology Relating to Body Dimensions for Apparel Sizing

2.2 *ISO Standard:*⁷

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

3. Terminology

3.1 *Definitions:*

3.1.1 For definitions relating to body dimensions, refer to Terminology D5219.

⁶ For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

⁷ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.



3.1.2 For definitions of other textile terms used in these tables, refer to Terminology **D123**.

4. Significance and Use

4.1 The use of the body measurement information in **Tables 1 and 2** will assist manufacturers in developing patterns and garments that are consistent with the current anthropometric characteristics of the population of interest. This practice should in turn reduce or minimize consumer confusion and dissatisfaction related to apparel sizing. (Also refer to **ISO 3635** Size Designation Procedures.)

4.2 Three-dimensional avatars depicting each of the mature mens sizes in short, regular and tall, were created by Alvanon, Inc. and included in this standard to assist manufacturers in visualizing the posture, shape, and proportions generated by the measurements charts in the accompanying Tables. (Avatar 1-6) See **Figs. 1-3**.

5. Apparatus

5.1 *Tape Measure*, (dimensionally stable and approximately 1.5 cm [$\frac{1}{2}$ in.] wide and graduated accurately in cm [$\frac{1}{16}$ 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:

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. (For Infant special cases) For all vertical and most horizontal measurements, subject is to be lying down flat with legs extended and foot positioned at 1.57 rad (90°) to the leg.

6.1.2 Take measurements over undergarments normally worn.

6.1.3 Take all measurements from the same side of the body for consistency.

6.1.4 Refer to Terminology **D5219** for the location of all points to be measured.

6.2 Body Measurements:

6.2.1 *Body Weight*—Weight as measured on a calibrated scale taken with the subject in undergarments.

6.2.2 *Head Girth*—Measure the maximum horizontal circumference of the head above the ears.

6.2.3 *Neck Base Girth*—Measure the circumference of the neck, taken over the cervicale at the back and the top of the collarbone at the front.

6.2.4 *Mid Neck Girth*—Measure the horizontal circumference of the neck, taken approximately 25 mm [1 in.] above the neck base level.

6.2.5 *Shoulder Girth*—Measure the horizontal circumference around the shoulders, taken at the front break-point level with the arms down.

6.2.6 *Chest/Bust Girth*—Measure the horizontal circumference around the body, taken under the arms and across the fullest part of the chest/bust apex including the lower portion of the shoulder blades.

6.2.7 *Under-Bust Girth*—Measure the horizontal circumference around the body under the arms and bust.

6.2.8 *Upper-Chest Girth*—Measure the horizontal circumference around the body, taken under the arms and above the fullest part of the chest/bust including the lower portion of the shoulder blades.

6.2.9 *Waist Girth*—Measure the minimum horizontal circumference around the body at waist height.

6.2.10 *High-Hip Girth*—Measure the maximum horizontal circumference around the body, taken at high hip level approximately 7.5 cm [3 in.] below the waist level including the abdominal extension.

6.2.11 *Hip/Seat Girth*—Measure the maximum horizontal circumference around the body at hip height.

6.2.12 *Thigh Girth*—Measure the maximum horizontal circumference of the upper leg, taken close to the crotch.

6.2.13 *Mid-Thigh Girth*—the maximum horizontal circumference of the upper leg, taken midway between the hip girth level and the midpoint (or crease) of the knee.

6.2.14 *Knee Girth*—Measure the maximum horizontal circumference of the knee, taken over the kneecap with the leg straight.

6.2.15 *Calf Girth*—Measure the maximum horizontal circumference of the lower leg, taken between the knee and the ankle.

6.2.16 *Ankle Girth*—Measure the maximum horizontal circumference of the ankle, taken over the greatest prominence of the anklebones.

6.2.17 *Armseye Girth*—Measure the circumference from the shoulder joint through the front break-point, the armpit, the back break-point and to the starting point, taken with the arms down.

6.2.18 *Upper-Arm Girth*—Measure the maximum circumference of the arm, taken midway between the elbow and the shoulder joints with the arm bent 1.57 rad (90°).

6.2.19 *Elbow Girth*—Measure the maximum circumference of the elbow, taken over the outer prominence of the elbow bone with the arm bent 1.57 rad (90°).

6.2.20 *Wrist Girth*—Measure the maximum circumference of the wrist, taken over the inner and outer prominence of the wrist bones.

6.2.21 *Hand Girth*—Measure the maximum circumference of the hand around the knuckles excluding the thumb, taken with the fingers together.

6.2.22 *Trunk Length (total vertical)*—Measure the circumference taken from a point on the right shoulder midway between the neck base and the shoulder joint, down the back through the crotch and up over the prominence of the right chest/bust apex to the starting point, avoiding constriction at the crotch.

6.2.23 *Height*—Measure the vertical distance from the crown of the head to the floor, taken with subject standing and without shoes.

6.2.24 *Head and Neck Length*—Measure the distance from the crown of the head to the cervicale (contour), taken with the head erect and the neck unbent.



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TABLE 1 Body Measurements, Inch-Pound Units

Sizes:	34	35	36	37	38	39	40	41	42	43	44	45	46	48	50	52
Body Weight (Mean), lb	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Body Weight (Range), lb	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Girth Measurements, inches	34	35	36	37	38	39	40	41	42	43	44	45	46	48	50	52
Head Girth	21 ⁵ / ₈	21 ⁷ / ₈	22	22 ¹ / ₄	22 ³ / ₈	22 ⁵ / ₈	22 ³ / ₄	23	23 ¹ / ₈	23 ³ / ₈	23 ¹ / ₂	23 ³ / ₄	23 ⁵ / ₈	24 ¹ / ₄	24 ³ / ₈	25
Neck Base Girth	15 ¹ / ₈	15 ³ / ₈	15 ⁵ / ₈	15 ⁷ / ₈	16 ¹ / ₈	16 ³ / ₈	16 ⁵ / ₈	16 ⁷ / ₈	17 ¹ / ₈	17 ³ / ₈	17 ⁵ / ₈	17 ⁷ / ₈	18 ¹ / ₈	18 ³ / ₈	19 ¹ / ₈	19 ⁵ / ₈
Mid-Neck Girth	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 ³ / ₄	18 ¹ / ₄	18 ³ / ₄
Shoulder Girth	42 ³ / ₈	43	43 ⁵ / ₈	44 ¹ / ₄	44 ³ / ₈	45 ¹ / ₂	46 ¹ / ₈	47	47 ³ / ₈	48 ³ / ₈	49 ⁵ / ₈	50 ¹ / ₂	51 ³ / ₈	53 ¹ / ₈	54 ⁷ / ₈	56 ⁵ / ₈
Chest/Bust Girth	34	35	36	37	38	39	40	41	42	43	44	45	46	48	50	52
Under-Bust Girth	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Upper-Chest Girth	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Waist Girth	28 ¹ / ₂	29 ¹ / ₂	30 ¹ / ₂	31 ¹ / ₂	32 ¹ / ₂	33 ¹ / ₂	34 ¹ / ₂	35 ¹ / ₂	36 ¹ / ₂	37 ¹ / ₂	38 ¹ / ₂	39 ¹ / ₄	41	43 ¹ / ₂	46	48 ¹ / ₂
High-Hip Girth	30 ³ / ₄	31 ³ / ₄	32 ³ / ₄	33 ³ / ₄	34 ³ / ₄	35 ³ / ₄	36 ³ / ₄	37 ³ / ₄	38 ³ / ₄	39 ⁵ / ₈	40 ¹ / ₂	41 ¹ / ₂	42 ¹ / ₂	44 ¹ / ₂	46 ¹ / ₂	48 ¹ / ₂
Hip/Seat Girth	33 ¹ / ₂	34 ¹ / ₂	35 ¹ / ₂	36 ¹ / ₂	37 ¹ / ₂	38 ¹ / ₂	39 ¹ / ₂	40 ¹ / ₂	41 ¹ / ₂	42 ¹ / ₄	43	43 ³ / ₄	44 ¹ / ₂	46	47 ¹ / ₂	49
Thigh Girth	20	20 ¹ / ₂	21	21 ¹ / ₂	22	22 ¹ / ₂	23	23 ¹ / ₂	24	24 ³ / ₈	24 ³ / ₄	25 ¹ / ₈	25 ¹ / ₂	26 ¹ / ₄	27	27 ³ / ₄
Mid-Thigh Girth	18 ⁵ / ₈	19 ¹ / ₈	19 ⁵ / ₈	20	20 ³ / ₈	20 ³ / ₄	21 ¹ / ₈	21 ¹ / ₂	21 ⁷ / ₈	22 ¹ / ₄	22 ⁵ / ₈	23	23 ³ / ₈	24 ¹ / ₈	24 ⁷ / ₈	25 ³ / ₄
Knee Girth	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 / ₂	18	18 ¹ / ₂
Calf Girth	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	17	17 ¹ / ₂	18
Ankle Girth	9 ³ / ₄	9 ⁷ / ₈	10	10 ¹ / ₈	10 ¹ / ₄	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 ³ / ₄	12
Armscye Girth - Short	15 ¹ / ₄	15 ¹ / ₂	15 ³ / ₄	16 ¹ / ₈	16 ¹ / ₂	16 ³ / ₈	17 ¹ / ₄	17 ¹ / ₂	17 ³ / ₄	18	18 ³ / ₈	18 ⁵ / ₈	18 ⁵ / ₄	19 ³ / ₈	20	20 ⁵ / ₈
Armscye Girth - Regular	15 ⁵ / ₈	15 ⁷ / ₈	16 ¹ / ₈	16 ¹ / ₂	16 ³ / ₈	17 ¹ / ₄	17 ³ / ₈	17 ⁵ / ₈	18 ¹ / ₈	18 ³ / ₈	18 ⁵ / ₈	19	19 ¹ / ₄	19 ³ / ₄	20 ³ / ₈	21
Armscye Girth - Tall	16	16 ¹ / ₄	16 ¹ / ₂	16 ³ / ₄	17 ¹ / ₄	17 ⁵ / ₈	18	18 ¹ / ₄	18 ¹ / ₂	18 ³ / ₄	19 ¹ / ₈	19 ³ / ₈	19 ⁵ / ₈	20 ¹ / ₈	20 ³ / ₄	21 ³ / ₈
Upper-Arm Girth	11 ³ / ₄	12	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 ¹ / ₄	15 ³ / ₄	16 ¹ / ₄
Elbow Girth	10 ⁷ / ₈	11 ¹ / ₈	11 ¹ / ₄	11 ¹ / ₂	11 ⁵ / ₈	11 ⁷ / ₈	12	12 ¹ / ₄	12 ³ / ₈	12 ⁵ / ₈	12 ³ / ₄	13	13 ¹ / ₈	13 ¹ / ₂	13 ³ / ₈	14 ¹ / ₄
Wrist Girth	7 ¹ / ₈	7 ¹ / ₄	7 ¹ / ₂	7 ³ / ₄	7 ⁵ / ₈	7 ⁷ / ₈	7 ¹ / ₂	7 ¹ / ₂	7 ⁵ / ₈	7 ⁵ / ₄	7 ⁷ / ₈	8	8 ¹ / ₈	8 ¹ / ₄	8 ³ / ₄	8 ⁵ / ₈
Hand Girth	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trunk Length (total vertical girth) - Short	61 ¹ / ₂	61 ³ / ₄	62 ¹ / ₈	62 ¹ / ₂	62 ³ / ₈	63 ¹ / ₈	63 ¹ / ₂	64 ¹ / ₈	64 ³ / ₈	65 ³ / ₈	65 ⁵ / ₈	66 ¹ / ₂	67	68 ¹ / ₈	69 ¹ / ₄	70 ¹ / ₂
Trunk Length (total vertical girth) - Regular	63 ¹ / ₂	63 ³ / ₄	64 ¹ / ₈	64 ¹ / ₂	64 ³ / ₈	65 ¹ / ₈	65 ¹ / ₂	66 ¹ / ₈	66 ³ / ₈	67 ³ / ₈	67 ⁵ / ₈	68 ¹ / ₂	69	70 ¹ / ₈	71 ¹ / ₄	72 ¹ / ₂
Trunk Length (total vertical girth) - Tall	67 ¹ / ₈	67 ³ / ₈	67 ³ / ₄	68 ¹ / ₈	68 ¹ / ₂	68 ³ / ₄	69 ¹ / ₈	69 ³ / ₄	70 ³ / ₈	71	71 ¹ / ₂	72 ¹ / ₈	72 ⁵ / ₈	73 ³ / ₄	74 ⁷ / ₈	76 ¹ / ₈
Vertical Measurements, inches	34	35	36	37	38	39	40	41	42	43	44	45	46	48	50	52
Height - Short	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
Height - Regular	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Height - Tall	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74
Head and Neck Length - Short	9 ⁷ / ₈	9 ⁷ / ₈	9 ⁷ / ₈	9 ⁷ / ₈	9 ⁷ / ₈	9 ⁷ / ₈	9 ⁷ / ₈	9 ⁷ / ₈	9 ⁷ / ₈	9 ⁷ / ₈	9 ⁷ / ₈	9 ⁷ / ₈	9 ⁷ / ₈	9 ⁷ / ₈	9 ⁷ / ₈	9 ⁷ / ₈
Head and Neck Length - Regular	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Head and Neck Length - Tall	10 ¹ / ₈	10 ¹ / ₈	10 ¹ / ₈	10 ¹ / ₈	10 ¹ / ₈	10 ¹ / ₈	10 ¹ / ₈	10 ¹ / ₈	10 ¹ / ₈	10 ¹ / ₈	10 ¹ / ₈	10 ¹ / ₈	10 ¹ / ₈	10 ¹ / ₈	10 ¹ / ₈	10 ¹ / ₈
Cervical Height - Short	57 ¹ / ₈	57 ¹ / ₈	57 ¹ / ₈	57 ¹ / ₈	57 ¹ / ₈	57 ¹ / ₈	57 ¹ / ₈	57 ¹ / ₈	57 ¹ / ₈	57 ¹ / ₈	57 ¹ / ₈	57 ¹ / ₈	57 ¹ / ₈	57 ¹ / ₈	57 ¹ / ₈	57 ¹ / ₈
Cervical Height - Regular	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Cervical Height - Tall	63 ⁷ / ₈	63 ⁷ / ₈	63 ⁷ / ₈	63 ⁷ / ₈	63 ⁷ / ₈	63 ⁷ / ₈	63 ⁷ / ₈	63 ⁷ / ₈	63 ⁷ / ₈	63 ⁷ / ₈	63 ⁷ / ₈	63 ⁷ / ₈	63 ⁷ / ₈	63 ⁷ / ₈	63 ⁷ / ₈	63 ⁷ / ₈
Cervicale to Crotch - Short	26 ⁷ / ₈	26 ⁷ / ₈	26 ⁷ / ₈	26 ⁷ / ₈	26 ⁷ / ₈	26 ⁷ / ₈	26 ⁷ / ₈	26 ⁷ / ₈	27	27	27 ¹ / ₈	27 ¹ / ₈	27 ¹ / ₄	27 ³ / ₈	27 ¹ / ₂	27 ⁵ / ₈
Cervicale to Crotch - Regular	28	28	28	28	28	28	28	28	28 ¹ / ₈	28 ¹ / ₈	28 ¹ / ₄	28 ¹ / ₄	28 ³ / ₈	28 ¹ / ₂	28 ⁵ / ₈	28 ³ / ₄
Cervicale to Crotch - Tall	29 ⁷ / ₈	29 ⁷ / ₈	29 ⁷ / ₈	29 ⁷ / ₈	29 ⁷ / ₈	29 ⁷ / ₈	29 ⁷ / ₈	29 ⁷ / ₈	30	30	30 ¹ / ₈	30 ¹ / ₈	30 ¹ / ₄	30 ³ / ₈	30 ¹ / ₂	30 ⁵ / ₈
Cervicale to Knee - Short	39 ³ / ₈	39 ³ / ₈	39 ³ / ₈	39 ³ / ₈	39 ³ / ₈	39 ³ / ₈	39 ³ / ₈	39 ³ / ₈	39 ³ / ₈	39 ³ / ₈	39 ³ / ₈	39 ³ / ₈	39 ³ / ₈	39 ³ / ₈	39 ³ / ₈	39 ³ / ₈
Cervicale to Knee - Regular	41 ³ / ₈	41 ³ / ₈	41 ³ / ₈	41 ³ / ₈	41 ³ / ₈	41 ³ / ₈	41 ³ / ₈	41 ³ / ₈	41 ³ / ₈	41 ³ / ₈	41 ³ / ₈	41 ³ / ₈	41 ³ / ₈	41 ³ / ₈	41 ³ / ₈	41 ³ / ₈
Cervicale to Knee - Tall	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
Center Back Waist Length - Short	17 ³ / ₈	17 ³ / ₈	17 ³ / ₈	17 ³ / ₈	17 ³ / ₈	17 ³ / ₈	17 ¹ / ₂	17 ¹ / ₂	17 ¹ / ₂	17 ³ / ₈	17 ³ / ₈	17 ³ / ₈	17 ³ / ₈	17 ³ / ₄	17 ³ / ₄	18
Center Back Waist Length - Regular	17 ⁷ / ₈	17 ⁷ / ₈	17 ⁷ / ₈	17 ⁷ / ₈	17 ⁷ / ₈	18	18	18	18	18 ¹ / ₈	18 ¹ / ₈	18 ¹ / ₈	18 ¹ / ₄	18 ¹ / ₄	18 ³ / ₈	18 ¹ / ₂
Center Back Waist Length - Tall	19 ¹ / ₈	19 ¹ / ₈	19 ¹ / ₈	19 ¹ / ₈	19 ¹ / ₈	19 ¹ / ₄	19 ¹ / ₄	19 ¹ / ₄	19 ¹ / ₄	19 ¹ / ₈	19 ¹ / ₈	19 ¹ / ₈	19 ¹ / ₂	19 ¹ / ₂	19 ⁵ / ₈	19 ³ / ₄
Center Front Waist Length - Short	15	15	15	15	15	15	15	15	15 ¹ / ₈	15 ¹ / ₈	15 ¹ / ₄	15 ¹ / ₄	15 ¹ / ₄	15 ¹ / ₄	15 ³ / ₈	15 ⁵ / ₈
Center Front Waist Length - Regular	15 ¹ / ₂	15 ¹ / ₂	15 ¹ / ₂	15 ¹ / ₂	15 ¹ / ₂	15 ¹ / ₂	15 ⁵ / ₈	15 ⁵ / ₈	15 ⁵ / ₈	15 ⁵ / ₈	15 ³ / ₄	15 ³ / ₄	15 ³ / ₄	15 ⁵ / ₈	16	16 ¹ / ₈
Center Front Waist Length - Tall	16 ³ / ₄	16 ³ / ₄	16 ³ / ₄	16 ³ / ₄	16											

TABLE 1 *Continued*

Sizes:	34	35	36	37	38	39	40	41	42	43	44	45	46	48	50	52
Crotch Height - Regular	32	32	32	32	32	32	32	32	31 $\frac{7}{8}$	31 $\frac{7}{8}$	31 $\frac{3}{4}$	31 $\frac{5}{8}$	31 $\frac{5}{8}$	31 $\frac{1}{2}$	31 $\frac{3}{8}$	31 $\frac{1}{4}$
Crotch Height - Tall	34	34	34	34	34	34	34	34	33 $\frac{7}{8}$	33 $\frac{7}{8}$	33 $\frac{3}{4}$	33 $\frac{5}{8}$	33 $\frac{5}{8}$	33 $\frac{1}{2}$	33 $\frac{3}{8}$	33 $\frac{1}{4}$
Rise Height - Short	10	10	10	10	10	10	10	10	10 $\frac{1}{8}$	10 $\frac{1}{8}$	10 $\frac{1}{4}$	10 $\frac{3}{8}$	10 $\frac{3}{8}$	10 $\frac{1}{2}$	10 $\frac{5}{8}$	10 $\frac{3}{4}$
Rise Height - Regular	10 $\frac{5}{8}$	10 $\frac{5}{8}$	10 $\frac{5}{8}$	10 $\frac{5}{8}$	10 $\frac{5}{8}$	10 $\frac{5}{8}$	10 $\frac{5}{8}$	10 $\frac{5}{8}$	10 $\frac{5}{8}$	10 $\frac{3}{4}$	10 $\frac{3}{4}$	11	11	11 $\frac{1}{8}$	11 $\frac{1}{4}$	11 $\frac{1}{8}$
Rise Height - Tall	11 $\frac{1}{8}$	11 $\frac{1}{8}$	11 $\frac{1}{8}$	11 $\frac{1}{8}$	11 $\frac{1}{8}$	11 $\frac{1}{8}$	11 $\frac{1}{8}$	11 $\frac{1}{8}$	11 $\frac{1}{4}$	11 $\frac{1}{4}$	11 $\frac{3}{8}$	11 $\frac{1}{2}$	11 $\frac{1}{2}$	11 $\frac{5}{8}$	11 $\frac{3}{4}$	11 $\frac{7}{8}$
Knee Height - Short	17 $\frac{3}{4}$	17 $\frac{3}{4}$	17 $\frac{3}{4}$	17 $\frac{3}{4}$	17 $\frac{3}{4}$	17 $\frac{3}{4}$	17 $\frac{3}{4}$	17 $\frac{3}{4}$	17 $\frac{3}{4}$	17 $\frac{3}{4}$	17 $\frac{3}{4}$	17 $\frac{3}{4}$	17 $\frac{3}{4}$	17 $\frac{3}{4}$	17 $\frac{3}{4}$	17 $\frac{3}{4}$
Knee Height - Regular	18 $\frac{5}{8}$	18 $\frac{5}{8}$	18 $\frac{5}{8}$	18 $\frac{5}{8}$	18 $\frac{5}{8}$	18 $\frac{5}{8}$	18 $\frac{5}{8}$	18 $\frac{5}{8}$	18 $\frac{5}{8}$	18 $\frac{5}{8}$	18 $\frac{5}{8}$	18 $\frac{5}{8}$	18 $\frac{5}{8}$	18 $\frac{5}{8}$	18 $\frac{5}{8}$	18 $\frac{5}{8}$
Knee Height - Tall	19 $\frac{7}{8}$	19 $\frac{7}{8}$	19 $\frac{7}{8}$	19 $\frac{7}{8}$	19 $\frac{7}{8}$	19 $\frac{7}{8}$	19 $\frac{7}{8}$	19 $\frac{7}{8}$	19 $\frac{7}{8}$	19 $\frac{7}{8}$	19 $\frac{7}{8}$	19 $\frac{7}{8}$	19 $\frac{7}{8}$	19 $\frac{7}{8}$	19 $\frac{7}{8}$	19 $\frac{7}{8}$
Ankle Height - Short	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Ankle Height - Regular	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Ankle Height - Tall	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Width and Length Measurements, inches	34	35	36	37	38	39	40	41	42	43	44	45	46	48	50	52
Crotch Length (total) - Short	26 $\frac{3}{8}$	26 $\frac{5}{8}$	26 $\frac{3}{4}$	27	27 $\frac{1}{4}$	27 $\frac{3}{8}$	27 $\frac{5}{8}$	28	28 $\frac{3}{8}$	28 $\frac{5}{8}$	29	29 $\frac{1}{4}$	29 $\frac{5}{8}$	30 $\frac{1}{4}$	30 $\frac{3}{8}$	31 $\frac{1}{2}$
Crotch Length (total) - Regular	27 $\frac{3}{8}$	27 $\frac{5}{8}$	27 $\frac{3}{4}$	28	28 $\frac{1}{4}$	28 $\frac{3}{8}$	28 $\frac{5}{8}$	29	29 $\frac{3}{8}$	29 $\frac{5}{8}$	30	30 $\frac{1}{4}$	30 $\frac{5}{8}$	31 $\frac{1}{4}$	31 $\frac{3}{8}$	32 $\frac{1}{2}$
Crotch Length (total) - Tall	28 $\frac{1}{2}$	28 $\frac{3}{4}$	28 $\frac{7}{8}$	29 $\frac{1}{8}$	29 $\frac{3}{8}$	29 $\frac{1}{2}$	29 $\frac{3}{4}$	30 $\frac{1}{8}$	30 $\frac{1}{2}$	30 $\frac{3}{4}$	31 $\frac{1}{8}$	31 $\frac{3}{8}$	31 $\frac{3}{4}$	32 $\frac{3}{8}$	33	33 $\frac{5}{8}$
Shoulder Length	5 $\frac{3}{4}$	5 $\frac{3}{4}$	5 $\frac{3}{4}$	5 $\frac{3}{4}$	5 $\frac{3}{4}$	5 $\frac{3}{4}$	5 $\frac{3}{4}$	5 $\frac{3}{4}$	6	6	6 $\frac{1}{8}$	6 $\frac{1}{8}$	6 $\frac{1}{4}$	6 $\frac{3}{8}$	6 $\frac{1}{2}$	6 $\frac{5}{8}$
Shoulder Slope	23 $\frac{1}{8}$ "	23 $\frac{1}{8}$ "	23"	22 $\frac{7}{8}$ "	22 $\frac{3}{4}$ "	22 $\frac{5}{8}$ "	22 $\frac{1}{2}$ "	22 $\frac{1}{4}$ "	22"	21 $\frac{3}{4}$ "	21 $\frac{1}{2}$ "	21 $\frac{1}{4}$ "	21"	20 $\frac{1}{2}$ "	20"	19 $\frac{1}{2}$ "
Shoulder Drop	2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{1}{4}$
Across Back Shoulder Width	16 $\frac{3}{4}$	17	17 $\frac{1}{8}$	17 $\frac{1}{4}$	17 $\frac{3}{8}$	17 $\frac{5}{8}$	17 $\frac{3}{4}$	18	18 $\frac{1}{4}$	18 $\frac{1}{2}$	18 $\frac{3}{4}$	19	19 $\frac{1}{4}$	19 $\frac{3}{4}$	20 $\frac{1}{4}$	20 $\frac{3}{4}$
Across Front Shoulder Width	13 $\frac{1}{2}$	13 $\frac{3}{4}$	14	14 $\frac{1}{4}$	14 $\frac{1}{2}$	14 $\frac{3}{4}$	15	15 $\frac{3}{8}$	15 $\frac{1}{4}$	16 $\frac{1}{8}$	16 $\frac{1}{2}$	16 $\frac{3}{8}$	17 $\frac{1}{4}$	18	18 $\frac{3}{4}$	19 $\frac{5}{8}$
Upper Back Width	15 $\frac{1}{4}$	15 $\frac{1}{2}$	15 $\frac{3}{4}$	16	16 $\frac{1}{8}$	16 $\frac{3}{8}$	16 $\frac{5}{8}$	16 $\frac{7}{8}$	17 $\frac{1}{8}$	17 $\frac{3}{8}$	17 $\frac{5}{8}$	17 $\frac{7}{8}$	18 $\frac{1}{8}$	18 $\frac{3}{8}$	19 $\frac{1}{8}$	19 $\frac{5}{8}$
Upper Front Chest Width	13 $\frac{5}{8}$	13 $\frac{3}{8}$	14	14 $\frac{1}{4}$	14 $\frac{3}{8}$	14 $\frac{5}{8}$	14 $\frac{3}{4}$	15	15 $\frac{1}{4}$	15 $\frac{1}{2}$	15 $\frac{3}{4}$	16	16 $\frac{3}{8}$	16 $\frac{7}{8}$	17 $\frac{3}{8}$	17 $\frac{7}{8}$
Back Width	15 $\frac{1}{8}$	15 $\frac{3}{8}$	15 $\frac{5}{8}$	15 $\frac{7}{8}$	16 $\frac{1}{8}$	16 $\frac{3}{8}$	16 $\frac{5}{8}$	16 $\frac{7}{8}$	17 $\frac{1}{8}$	17 $\frac{3}{8}$	17 $\frac{5}{8}$	18	18 $\frac{3}{8}$	19	19 $\frac{5}{8}$	20 $\frac{1}{4}$
Front Chest Width	16 $\frac{3}{8}$	16 $\frac{1}{2}$	16 $\frac{5}{8}$	16 $\frac{3}{4}$	16 $\frac{7}{8}$	17	17 $\frac{1}{8}$	17 $\frac{3}{8}$	17 $\frac{5}{8}$	17 $\frac{7}{8}$	18 $\frac{1}{8}$	18 $\frac{3}{8}$	18 $\frac{5}{8}$	19 $\frac{1}{8}$	19 $\frac{3}{8}$	20 $\frac{1}{4}$
Bust Point to Bust Point	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Neck to Bust Point	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bust Point to Bust Point (Halter)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cervicale to Wrist Length - Short	31 $\frac{5}{8}$	31 $\frac{7}{8}$	31 $\frac{7}{8}$	32 $\frac{1}{4}$	32 $\frac{1}{4}$	32 $\frac{1}{2}$	32 $\frac{1}{2}$	32 $\frac{3}{4}$	32 $\frac{7}{8}$	33 $\frac{1}{8}$	33 $\frac{1}{4}$	33 $\frac{1}{2}$	33 $\frac{3}{8}$	34	34 $\frac{3}{8}$	34 $\frac{3}{4}$
Cervicale to Wrist Length - Regular	32 $\frac{1}{8}$	32 $\frac{3}{8}$	32 $\frac{3}{8}$	32 $\frac{3}{4}$	32 $\frac{3}{4}$	33	33	33 $\frac{1}{4}$	33 $\frac{3}{8}$	33 $\frac{3}{8}$	33 $\frac{3}{4}$	34	34 $\frac{1}{8}$	34 $\frac{1}{2}$	34 $\frac{3}{4}$	35 $\frac{1}{4}$
Cervicale to Wrist Length - Tall	33 $\frac{3}{4}$	34	34	34 $\frac{3}{8}$	34 $\frac{3}{8}$	34 $\frac{5}{8}$	34 $\frac{5}{8}$	34 $\frac{7}{8}$	35	35 $\frac{1}{4}$	35 $\frac{3}{8}$	35 $\frac{5}{8}$	35 $\frac{3}{4}$	36 $\frac{1}{8}$	36 $\frac{1}{2}$	36 $\frac{3}{8}$
Shoulder and Arm Length - Short	29 $\frac{1}{8}$	29 $\frac{1}{4}$	29 $\frac{1}{4}$	29 $\frac{3}{8}$	29 $\frac{3}{8}$	29 $\frac{1}{2}$	29 $\frac{5}{8}$	29 $\frac{3}{4}$	29 $\frac{7}{8}$	30	30 $\frac{1}{8}$	30 $\frac{1}{4}$	30 $\frac{1}{2}$	30 $\frac{3}{4}$	31	31 $\frac{1}{4}$
Shoulder and Arm Length - Regular	29 $\frac{5}{8}$	29 $\frac{3}{4}$	29 $\frac{3}{4}$	29 $\frac{7}{8}$	29 $\frac{7}{8}$	30	30 $\frac{1}{8}$	30 $\frac{1}{4}$	30 $\frac{3}{8}$	30 $\frac{1}{2}$	30 $\frac{5}{8}$	30 $\frac{3}{4}$	31	31 $\frac{1}{4}$	31 $\frac{1}{2}$	31 $\frac{3}{4}$
Shoulder and Arm Length - Tall	31 $\frac{1}{4}$	31 $\frac{3}{8}$	31 $\frac{3}{8}$	31 $\frac{1}{2}$	31 $\frac{1}{2}$	31 $\frac{5}{8}$	31 $\frac{3}{4}$	31 $\frac{7}{8}$	32	32 $\frac{1}{8}$	32 $\frac{1}{4}$	32 $\frac{3}{8}$	32 $\frac{5}{8}$	32 $\frac{7}{8}$	33 $\frac{1}{8}$	33 $\frac{3}{8}$
Arm Length - Short	23 $\frac{3}{8}$	23 $\frac{1}{2}$	23 $\frac{1}{2}$	23 $\frac{5}{8}$	23 $\frac{5}{8}$	23 $\frac{3}{4}$	23 $\frac{3}{4}$	23 $\frac{7}{8}$	23 $\frac{7}{8}$	24	24	24 $\frac{1}{8}$	24 $\frac{1}{4}$	24 $\frac{3}{8}$	24 $\frac{1}{2}$	24 $\frac{5}{8}$
Arm Length - Regular	23 $\frac{3}{8}$	24	24	24 $\frac{1}{8}$	24 $\frac{1}{8}$	24 $\frac{1}{4}$	24 $\frac{1}{4}$	24 $\frac{3}{8}$	24 $\frac{3}{8}$	24 $\frac{1}{2}$	24 $\frac{1}{2}$	24 $\frac{5}{8}$	24 $\frac{3}{4}$	24 $\frac{7}{8}$	25	25 $\frac{1}{8}$
Arm Length - Tall	25 $\frac{1}{2}$	25 $\frac{5}{8}$	25 $\frac{5}{8}$	25 $\frac{3}{4}$	25 $\frac{3}{4}$	25 $\frac{7}{8}$	25 $\frac{7}{8}$	26	26	26 $\frac{1}{8}$	26 $\frac{1}{8}$	26 $\frac{1}{4}$	26 $\frac{3}{8}$	26 $\frac{1}{2}$	26 $\frac{3}{4}$	26 $\frac{3}{4}$
Hand Length	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hand Width	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Foot Length	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Foot Width	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

6.2.25 *Cervicale Height*—Measure the vertical distance from the cervicale to the floor, taken with subject standing and without shoes.

6.2.26 *Cervicale to Knee*—Measure the vertical distance from the cervicale to a point level with the mid-point of the back of the knee (or crease).

6.2.27 *Center Back Waist Length*—Measure from the cervicale to the center back waist level, taken along the spine (contour).

6.2.28 *Center Front Waist Length*—Measure from the center front neck base line to the center front waist level (contour).

6.2.29 *Scye Depth*—Measure the vertical distance from the cervicale to the back break-point level, taken with the arms down.

6.2.30 *Side Waist Length*—Measure the distance from the mid-underarm point of the armscye to the waist level, taken along the side of the body (contour).

6.2.31 *Waist to Hip/Seat Height*—Measure the distance from the waist level to the hip girth level, taken along the side of the body (contour).

6.2.32 *Waist to Knee Height*—Measure the vertical distance from the waist level to a point level with the midpoint of the back of the knee (or crease), taken along the side of the body.

6.2.33 *Waist Height*—Measure the distance from the waist level to the hip girth level along the side of the body (contour) then vertically to the floor, taken with subject standing and without shoes.

6.2.34 *High-Hip Height*—Measure the distance from the high-hip girth level to the hip girth level along the side of the body (contour) then vertically to the floor, taken with the subject standing and without shoes.

6.2.35 *Hip/Seat Height*—Measure the vertical distance from the hip girth level to the floor along the side of the body, taken with subject standing and without shoes.

6.2.36 *Crotch Height*—Measure the vertical distance from the midpoint of the crotch to the floor, taken with the subject standing and without shoes.

6.2.37 *Rise Height*—Measure the vertical distance from the waist level at the side of the torso to the flat surface, taken with subject sitting on hard, flat surface.

6.2.38 *Knee Height*—Measure the vertical distance from the midpoint of the back of the knee (or crease) to the floor, taken with subject standing and without shoes.

6.2.39 *Ankle Height*—Measure the vertical distance from the prominence of the outer ankle bone to the floor, taken with subject standing and without shoes.



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TABLE 2 Body Measurements, SI Units

Sizes:	34	35	36	37	38	39	40	41	42	43	44	45	46	48	50	52
Body Weight (Mean), lb	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Body Weight (Range), lb	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Girth Measurements, cm	34	35	36	37	38	39	40	41	42	43	44	45	46	48	50	52
Head Girth	54.93	55.56	55.88	56.52	56.83	57.47	57.79	58.42	58.74	59.37	59.69	60.33	60.64	61.60	62.55	63.50
Neck Base Girth	38.42	39.05	39.69	40.32	40.96	41.59	42.23	42.86	43.50	44.13	44.77	45.40	46.04	47.31	48.58	49.85
Mid-Neck Girth	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	45.09	46.36	47.63
Shoulder Girth	107.63	109.22	110.81	112.40	113.98	115.57	117.16	119.38	121.60	123.83	126.05	128.27	130.49	134.94	139.38	143.83
Chest/Bust Girth	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	121.92	127.00	132.08
Under-Bust Girth	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Upper-Chest Girth	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Waist Girth	72.39	74.93	77.47	80.01	82.55	85.09	87.63	90.17	92.71	95.25	97.79	100.97	104.14	110.49	116.84	123.19
High-Hip Girth	78.11	80.65	83.19	85.73	88.27	90.81	93.35	95.89	98.43	100.65	102.87	105.41	107.95	113.03	118.11	123.19
Hip/Seat Girth	85.09	87.63	90.17	92.71	95.25	97.79	100.33	102.87	105.41	107.32	109.22	111.13	113.03	116.84	120.65	124.46
Thigh Girth	50.80	52.07	53.34	54.61	55.88	57.15	58.42	59.69	60.96	61.91	62.87	63.82	64.77	66.68	68.58	70.49
Mid-Thigh Girth	47.31	48.58	49.85	50.80	51.75	52.71	53.66	54.61	55.56	56.52	57.47	58.42	59.37	61.28	63.18	65.41
Knee Girth	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	44.45	45.72	46.99
Calf Girth	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	43.18	44.45	45.72
Ankle Girth	24.77	25.08	25.40	25.72	26.04	26.35	26.67	26.99	27.31	27.62	27.94	28.26	28.58	29.21	29.85	30.48
Armscope Girth - Short	38.74	39.37	40.01	40.96	41.91	42.86	43.82	44.45	45.09	45.72	46.67	47.31	47.94	49.21	50.80	52.39
Armscope Girth - Regular	39.69	40.32	40.96	41.91	42.86	43.82	44.77	45.40	46.04	46.67	47.63	48.26	48.90	50.17	51.75	53.34
Armscope Girth - Tall	40.64	41.28	41.91	42.86	43.82	44.77	45.72	46.36	46.99	47.63	48.58	49.21	49.85	51.12	52.71	54.29
Upper-Arm Girth	29.85	30.48	31.12	31.75	32.39	33.02	33.66	34.29	34.93	35.56	36.20	36.83	37.47	38.74	40.01	41.28
Elbow Girth	27.62	28.26	28.58	29.21	29.53	30.16	30.48	31.12	31.43	32.07	32.39	33.02	33.34	34.29	35.24	36.20
Wrist Girth	18.10	18.10	18.42	18.42	18.73	18.73	19.05	19.05	19.37	19.37	19.69	20.00	20.32	20.64	20.96	21.27
Hand Girth	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trunk Length (total vertical girth) - Short	156.21	156.85	157.80	158.75	159.70	160.34	161.29	162.88	164.47	166.05	167.32	168.91	170.18	173.04	175.90	179.07
Trunk Length (total vertical girth) - Regular	161.29	161.93	162.88	163.83	164.78	165.42	166.37	167.96	169.55	171.13	172.40	173.99	175.26	178.12	180.98	184.15
Trunk Length (total vertical girth) - Tall	170.50	171.13	172.09	173.04	173.99	174.63	175.58	177.17	178.75	180.34	181.61	183.20	184.47	187.33	190.18	193.36
Vertical Measurements, cm	34	35	36	37	38	39	40	41	42	43	44	45	46	48	50	52
Height - Short	170.18	170.18	170.18	170.18	170.18	170.18	170.18	170.18	170.18	170.18	170.18	170.18	170.18	170.18	170.18	170.18
Height - Regular	177.80	177.80	177.80	177.80	177.80	177.80	177.80	177.80	177.80	177.80	177.80	177.80	177.80	177.80	177.80	177.80
Height - Tall	187.96	187.96	187.96	187.96	187.96	187.96	187.96	187.96	187.96	187.96	187.96	187.96	187.96	187.96	187.96	187.96
Head and Neck Length - Short	25.08	25.08	25.08	25.08	25.08	25.08	25.08	25.08	25.08	25.08	25.08	25.08	25.08	25.08	25.08	25.08
Head and Neck Length - Regular	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40
Head and Neck Length - Tall	25.72	25.72	25.72	25.72	25.72	25.72	25.72	25.72	25.72	25.72	25.72	25.72	25.72	25.72	25.72	25.72
Cervical Height - Short	145.10	145.10	145.10	145.10	145.10	145.10	145.10	145.10	145.10	145.10	145.10	145.10	145.10	145.10	145.10	145.10
Cervical Height - Regular	152.40	152.40	152.40	152.40	152.40	152.40	152.40	152.40	152.40	152.40	152.40	152.40	152.40	152.40	152.40	152.40
Cervical Height - Tall	162.24	162.24	162.24	162.24	162.24	162.24	162.24	162.24	162.24	162.24	162.24	162.24	162.24	162.24	162.24	162.24
Cervicale to Crotch - Short	68.26	68.26	68.26	68.26	68.26	68.26	68.26	68.26	68.26	68.58	68.58	68.90	68.90	69.22	69.53	70.17
Cervicale to Crotch - Regular	71.12	71.12	71.12	71.12	71.12	71.12	71.12	71.12	71.12	71.44	71.44	71.76	71.76	72.07	72.39	73.03
Cervicale to Crotch - Tall	75.88	75.88	75.88	75.88	75.88	75.88	75.88	75.88	75.88	76.20	76.20	76.52	76.52	76.84	77.15	77.79
Cervicale to Knee - Short	100.01	100.01	100.01	100.01	100.01	100.01	100.01	100.01	100.01	100.01	100.01	100.01	100.01	100.01	100.01	100.01
Cervicale to Knee - Regular	105.09	105.09	105.09	105.09	105.09	105.09	105.09	105.09	105.09	105.09	105.09	105.09	105.09	105.09	105.09	105.09
Cervicale to Knee - Tall	111.76	111.76	111.76	111.76	111.76	111.76	111.76	111.76	111.76	111.76	111.76	111.76	111.76	111.76	111.76	111.76
Center Back Waist Length - Short	44.13	44.13	44.13	44.13	44.13	44.45	44.45	44.45	44.45	44.77	44.77	44.77	45.09	45.09	45.40	45.72
Center Back Waist Length - Regular	45.40	45.40	45.40	45.40	45.40	45.72	45.72	45.72	45.72	46.04	46.04	46.04	46.36	46.36	46.67	46.99
Center Back Waist Length - Tall	48.58	48.58	48.58	48.58	48.58	48.90	48.90	48.90	48.90	49.21	49.21	49.21	49.53	49.53	49.85	50.17
Center Front Waist Length - Short	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.42	38.42	38.42	38.42	38.74	38.74	39.05	39.37	39.69
Center Front Waist Length - Regular	39.37	39.37	39.37	39.37	39.37	39.37	39.69	39.69	39.69	39.69	40.01	40.01	40.01	40.32	40.64	40.96
Center Front Waist Length - Tall	42.55	42.55	42.55	42.55	42.55	42.55	42.86	42.86	42.86	42.86	43.18	43.18	43.18	43.50	43.82	44.13
Scye Depth - Short	15.56	15.56	15.88	15.88	16.19	16.19	16.51	16.83	17.15	17.46	17.46	17.78	18.10	18.42	19.05	19.69
Scye Depth - Regular	16.19	16.19	16.51	16.51	16.83	16.83	17.15	17.46	17.78	18.10	18.10	18.42	18.73	19.05	19.69	20.32
Scye Depth - Tall	16.51	16.51	16.83	16.83	17.15	17.15	17.46	17.78	18.10	18.42	18.42	18.73	19.05	19.37	20.00	20.64
Side Waist Length - Short	24.13	23.81	23.50	23.18	22.86	22.54	22.23	21.91	21.91	21.59	21.59	21.27	21.27	20.96	20.32	20.00
Side Waist Length - Regular	24.45	24.13	23.81	23.50	23.18	22.86	22.54	22.23	21.91	21.91	21.59	21.59	21.27	20.96	20.32	20.00
Side Waist Length - Tall	27.31	26.99	26.67	26.35	26.04	25.72	25.40	25.08	25.08	24.77	24.77	24.45	24.45	24.13	23.50	23.18
Waist to Hip/Seat Height - Short	17.15	17.15	17.15	17.15	17.15	17.15	17.15	17.15	17.15	17.15	17.15	17.15	17.15	17.15	17.15	17.15
Waist to Hip/Seat Height - Regular	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46
Waist to Hip/Seat Height - Tall	18.42	18.42	18.42	18.42	18.42	18.42	18.42	18.42	18.42	18.42	18.42	18.42	18.42	18.42	18.42	18.42
Waist to Knee Height - Short	57.47	57.47	57.47	57.47	57.47	57.47	57.47	57.47	57.47	57.47	57.47	57.47	57.47	57.47	57.47	57.47
Waist to Knee Height - Regular	60.96	60.96	60.96	60.96	60.96	60.96	60.96	60.96	60.96	60.96	60.96	60.96	60.96	60.96	60.96	60.96
Waist to Knee Height - Tall	64.45	64.45	64.45	64.45	64.45	64.45	64.45	64.45	64.45	64.45	64.45	64.45	64.45	64.45	64.45	64.45
Waist Height - Short	102.24	102.24	102.24	102.24	102.24	102.24	102.24	102.24	102.24	102.24	102.24	102.24	102.24	102.24	102.24	102.24
Waist Height - Regular	108.27	108.27	108.27	108.27	108.27	108.27	108.27	108.27	108.27	108.27	108.27	108.27	108.27	108.27	108.27	108.27
Waist Height - Tall	114.94	114.94	114.94	114.94	114.94	114.94	114.94	114.94	114.94	114.94	114.94	114.94	114.94	114.94	114.94	114.94
High-Hip Height - Short	93.66	93.66	93.66	93.66	93.66	93.66	93.66	93.66	93.66	93.66	93.66	93.66	93.66	93.66	93.66	93.66
High-Hip Height - Regular	99.38	99.38	99.38	99.38	99.38	99.38	99.38	99.38	99.38	99.38	99.38	99.38	99.38	99.38	99.38	99.38
High-Hip Height - Tall	105.41	105.41	105.41	105.41	105.41	105.41	105.41	105.41	105.41	105.41	105.41	105.41	105.41	105.41	105.41	105.41
Hip/Seat Height - Short	85.09	85.09	85.09	85.09	85.09	85.09	85.09	85.09	85.09	85.09	85.09	85.09	85.09	85.09	85.09	85.09
Hip/Seat Height - Regular	90.81	90.														



TABLE 2 Continued

Sizes:	34	35	36	37	38	39	40	41	42	43	44	45	46	48	50	52
Crotch Height - Regular	81.28	81.28	81.28	81.28	81.28	81.28	81.28	81.28	80.96	80.96	80.65	80.33	80.33	80.01	79.69	79.38
Crotch Height - Tall	86.36	86.36	86.36	86.36	86.36	86.36	86.36	86.36	86.04	86.04	85.73	85.41	85.41	85.09	84.77	84.46
Rise Height - Short	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.40	25.72	25.72	26.04	26.35	26.35	26.67	26.99	27.31
Rise Height - Regular	26.99	26.99	26.99	26.99	26.99	26.99	26.99	26.99	27.31	27.31	27.62	27.94	27.94	28.26	28.58	28.89
Rise Height - Tall	28.26	28.26	28.26	28.26	28.26	28.26	28.26	28.26	28.58	28.58	28.89	29.21	29.21	29.53	29.85	30.16
Knee Height - Short	45.09	45.09	45.09	45.09	45.09	45.09	45.09	45.09	45.09	45.09	45.09	45.09	45.09	45.09	45.09	45.09
Knee Height - Regular	47.31	47.31	47.31	47.31	47.31	47.31	47.31	47.31	47.31	47.31	47.31	47.31	47.31	47.31	47.31	47.31
Knee Height - Tall	50.48	50.48	50.48	50.48	50.48	50.48	50.48	50.48	50.48	50.48	50.48	50.48	50.48	50.48	50.48	50.48
Ankle Height - Short	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62
Ankle Height - Regular	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62
Ankle Height - Tall	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62
Width and Length Measurements, cm	34	35	36	37	38	39	40	41	42	43	44	45	46	48	50	52
Crotch Length (total) - Short	66.99	67.63	67.95	68.58	69.22	69.53	70.17	71.12	72.07	72.71	73.66	74.30	75.25	76.84	78.42	80.01
Crotch Length (total) - Regular	69.53	70.17	70.49	71.12	71.76	72.07	72.71	73.66	74.61	75.25	76.20	76.84	77.79	79.38	80.96	82.55
Crotch Length (total) - Tall	72.39	73.03	73.34	73.98	74.61	74.93	75.57	76.52	77.47	78.11	79.06	79.69	80.65	82.23	83.82	85.41
Shoulder Length	14.61	14.61	14.61	14.61	14.61	14.61	14.92	14.92	15.24	15.24	15.56	15.56	15.88	16.19	16.51	16.83
Shoulder Slope	58.74°	58.74°	58.42°	58.10°	57.79°	57.47°	57.15°	56.52°	55.88°	55.25°	54.61°	53.98°	53.34°	52.07°	50.80°	49.53°
Shoulder Drop	5.72	5.72	5.72	5.72	5.72	5.72	5.72	5.72	5.72	5.72	5.72	5.72	5.72	5.72	5.72	5.72
Across Back Shoulder Width	42.55	43.18	43.50	43.82	44.13	44.77	45.09	45.72	46.36	46.99	47.63	48.26	48.90	50.17	51.44	52.71
Across Front Shoulder Width	34.29	34.93	35.56	36.20	36.83	37.47	38.10	39.05	40.01	40.96	41.91	42.86	43.82	45.72	47.63	49.85
Upper Back Width	38.74	39.37	40.01	40.64	40.96	41.59	42.23	42.86	43.50	44.13	44.77	45.40	46.04	47.31	48.58	49.85
Upper Front Chest Width	34.61	35.24	35.56	36.20	36.51	37.15	37.47	38.10	38.74	39.37	40.01	40.64	41.59	42.86	44.13	45.40
Back Width	38.42	39.05	39.69	40.32	40.96	41.59	42.23	42.86	43.50	44.13	44.77	45.72	46.67	48.26	49.85	51.44
Front Chest Width	41.59	41.91	42.23	42.55	42.86	43.18	43.50	44.13	44.77	45.40	46.04	46.67	47.31	48.58	49.85	51.44
Bust Point to Bust Point	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Neck to Bust Point	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bust Point to Bust Point (Halter)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cervicale to Wrist Length - Short	80.33	80.96	80.96	81.92	81.92	82.55	82.55	83.19	83.50	84.14	84.46	85.09	85.41	86.36	87.31	88.27
Cervicale to Wrist Length - Regular	81.60	82.23	82.23	83.19	83.19	83.82	83.82	84.46	84.77	85.41	85.73	86.36	86.68	87.63	88.58	89.54
Cervicale to Wrist Length - Tall	85.73	86.36	86.36	87.31	87.31	87.95	87.95	88.58	88.90	89.54	89.85	90.49	90.81	91.76	92.71	93.66
Shoulder and Arm Length - Short	73.98	74.30	74.30	74.61	74.61	74.93	75.25	75.57	75.88	76.20	76.52	76.84	77.47	78.11	78.74	79.38
Shoulder and Arm Length - Regular	75.25	75.57	75.57	75.88	75.88	76.20	76.52	76.84	77.15	77.47	77.79	78.11	78.74	79.38	80.01	80.65
Shoulder and Arm Length - Tall	79.38	79.69	79.69	80.01	80.01	80.33	80.65	80.96	81.28	81.60	81.92	82.23	82.87	83.50	84.14	84.77
Arm Length - Short	59.37	59.69	59.69	60.01	60.01	60.33	60.33	60.64	60.64	60.96	60.96	61.28	61.60	61.91	62.23	62.55
Arm Length - Regular	60.64	60.96	60.96	61.28	61.28	61.60	61.60	61.91	61.91	62.23	62.23	62.55	62.87	63.18	63.50	63.82
Arm Length - Tall	64.77	65.09	65.09	65.41	65.41	65.72	65.72	66.04	66.04	66.36	66.36	66.68	66.99	67.31	67.63	67.95
Hand Length	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hand Width	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Foot Length	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Foot Width	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

6.2.40 *Crotch Length (total)*—Measure the distance from waist level at the center front, through the crotch and to the waist level at the center back, avoiding constriction at the crotch.

6.2.41 *Shoulder Length*—Measure the distance from the side of the neck base to the top of the shoulder joint, taken with the arm down.

6.2.42 *Shoulder Slope*—Measure the degree of difference between the shoulder slant and the horizontal line that originates at the side neck base, taken with a goniometer positioned on the shoulder and moved until the baseline is parallel to the floor.

6.2.43 *Shoulder Drop*—Measure the vertical distance from the side of the neck base to the top of the shoulder joint, taken with the arm down.

6.2.44 *Across Back Shoulder Width*—Measure the horizontal distance across the back from the top of one shoulder joint to the top of the other shoulder joint, taken with the arms down.

6.2.45 *Upper Back Width*—Measure the horizontal distance across the back from back break-point to back break-point over the shoulder blades, taken with the arms down.

6.2.46 *Upper Front Chest Width*—Measure the horizontal distance across the chest from the front break-point, taken with the arms down.

6.2.47 *Back Width*—Measure the horizontal distance across the back from back break-point to back break-point over the shoulder blades, taken with the arms down.

6.2.48 *Front Chest Width*—Measure the horizontal distance across the chest from the front break-point, taken with the arms down.

6.2.49 *Bust Point to Bust Point*—Measure the horizontal distance from bust apex to bust apex, taken with the arms down.

6.2.50 *Neck to Bust Point*—Measure the distance from the side of the neck base to the bust apex (contour), taken with the arms down.

6.2.51 *Bust Point to Bust Point (Halter)*—Measure the distance from the bust apex around the neck base to the bust apex (contour), taken with the arms down.

6.2.52 *Cervicale to Wrist*—Measure the distance from the cervicale over the top of the shoulder joint, along the outside of the arm, over the elbow to the prominent wrist bone, taken with the arm bent 1.57 rad (90°) and the hand placed on the hip.

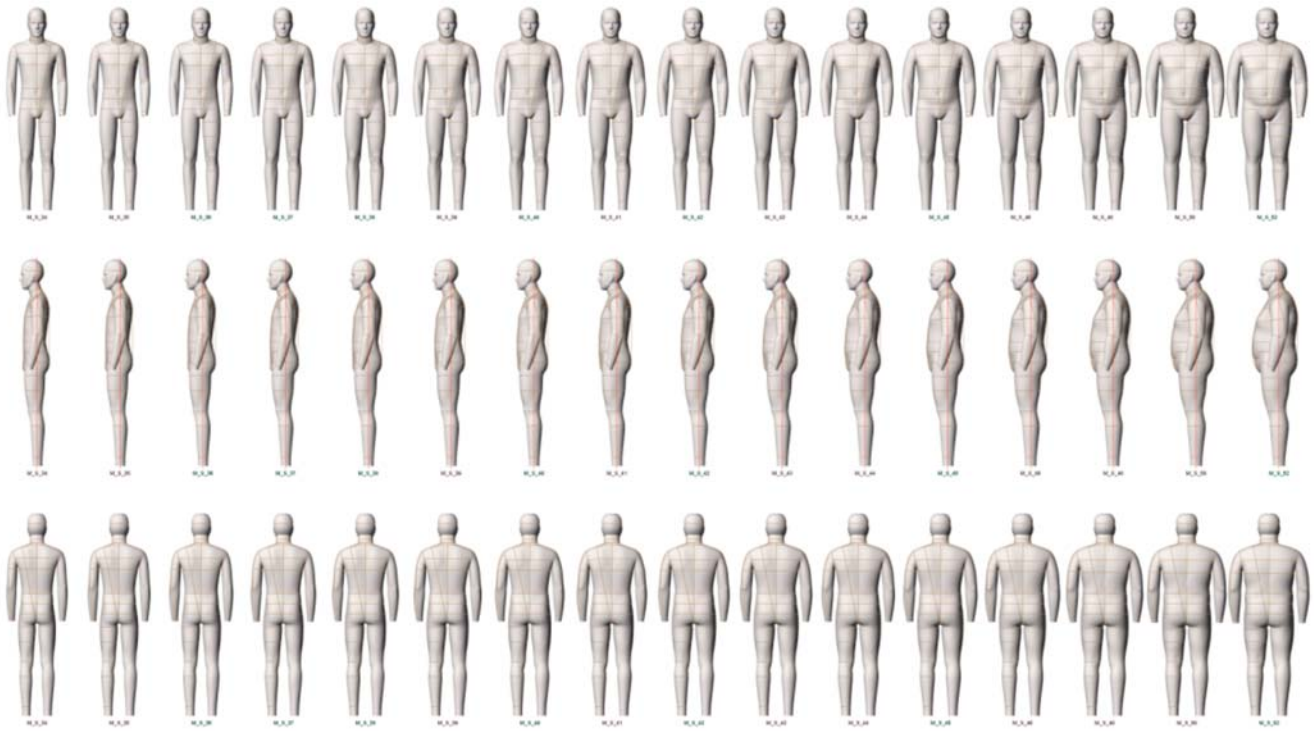


FIG. 1 Mature Men - Short

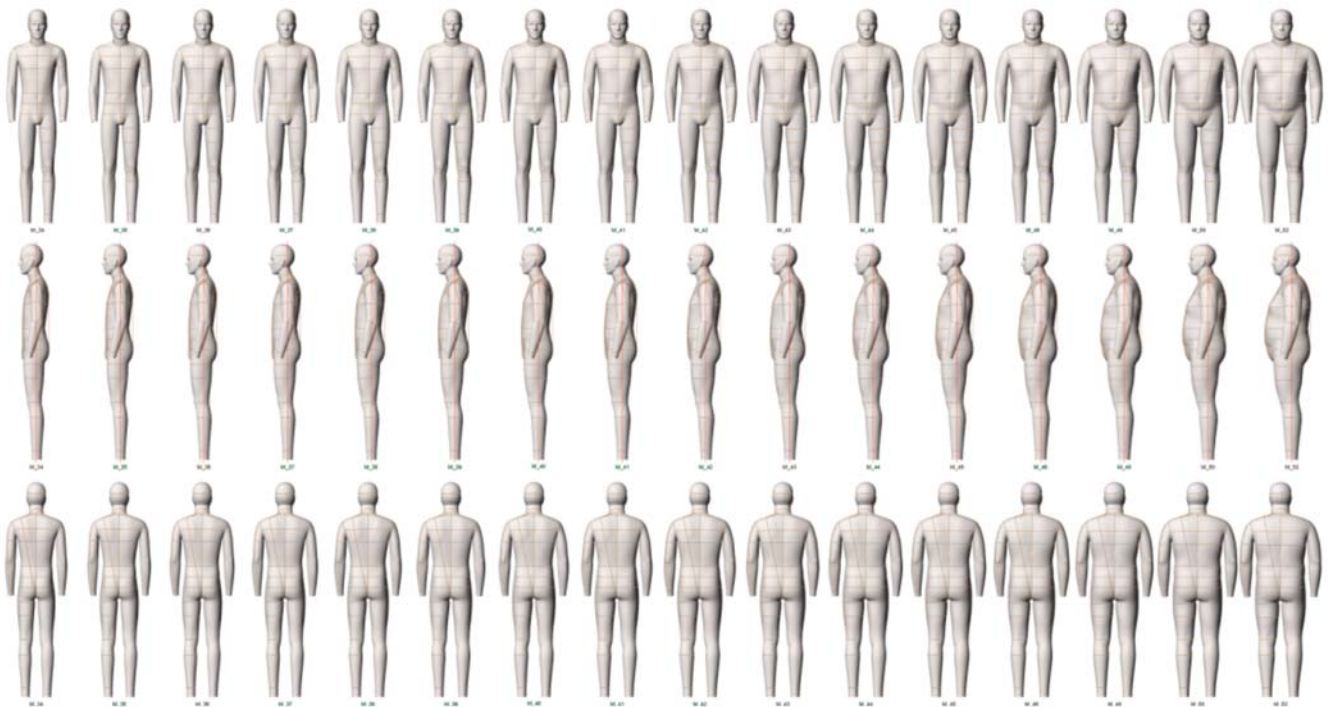


FIG. 2 Mature Men - Regular

6.2.53 *Shoulder and Arm Length*—Measure the distance from the side of the neck base across the shoulder joint and

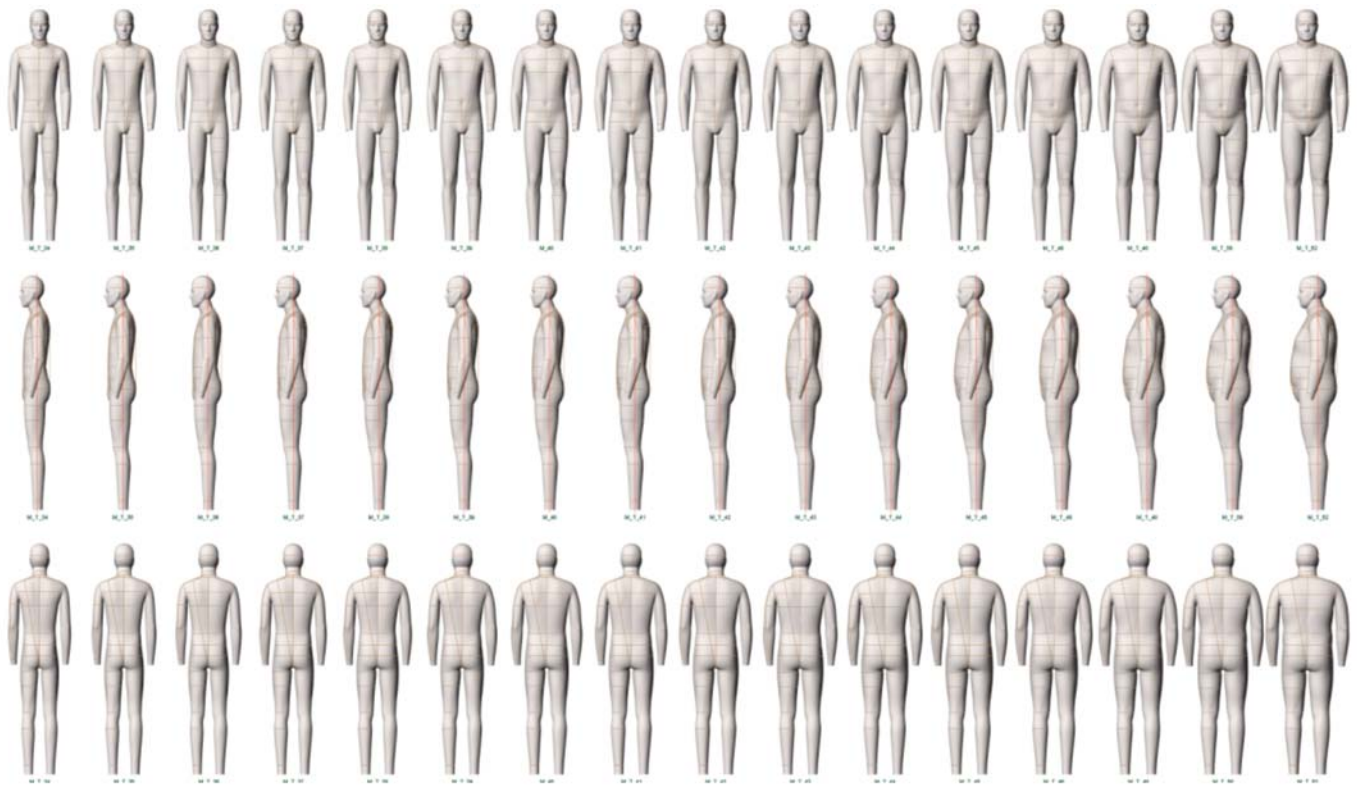


FIG. 3 Mature Men - Tall

along the outside of the arm over the elbow to the prominent wrist bone, taken with the arm bent 1.57 rad (90°) and the hand placed on the hip.

6.2.54 Arm Length—Measure the distance from the top of the shoulder joint along the outside of the arm over the elbow to the prominent wrist bone, taken with the arm bent (1.57 rad or 90°) and the hand placed on the hip.

6.2.55 Hand Length—Measure the straight distance from the prominence of the longest finger to the inner wrist bone, taken across the palm of the hand with fingers together and palm flat (use a stable, flat ruler).

6.2.56 Hand Width—Measure the maximum width across the palm of the hand excluding the thumb, taken with fingers together and palm flat (use a stable, flat ruler).

6.2.57 Foot Length—Measure the straight distance from the prominence of the back of the heel to the prominence of the longest toe, taken with the foot on a flat surface without shoes (use stable, flat ruler).

6.2.58 Foot Width—Measure the straight distance from one side of the foot to the other side at the widest part, taken with the subject standing and without shoes (use stable, flat ruler).

7. Keywords

7.1 apparel; body measurements; garment sizes; size range; tables

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