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Standard Tables of Body Measurements for Men Sizes Thirty-Four to Sixty (34 to 60) Regular Body Measurements for Mature Men, ages 35 and older, Sizes Thirty-Four to Fifty-Two (34 to 52) Short, Regular, and Tall¹

This standard is issued under the fixed designation D6240; 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.

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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 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.

1.1 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

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 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.

³ 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.

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

⁵ Caesar: Summary Statistics for the Adult population (Ages 18-65) of the United States of America, June 2002.

⁶ Available from: <http://www.tc2.com/sizeusa.html>

⁷ Alvanon, Inc., 145 W. 30th Street, Suite 1000, New York, NY 10001.

two systems may result in non-conformance with the standard.

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 [Apparel Sizes](#)

3. Terminology

3.1 Definitions:

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

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 1-4 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.) 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 (1/2 in.)) [1/2 in.] wide and graduated accurately in cm (1/16 in.)) [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~~ 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.

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.

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

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

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



D6240/D6240M - 12

TABLE 1 New-ASTM Body M Men's Measurement Tables, Inch-Pound Units

Sizes:	<u>34</u>	<u>35</u>	<u>36</u>	<u>37</u>	<u>38</u>	<u>39</u>	<u>40</u>	<u>41</u>	<u>42</u>	<u>43</u>	<u>44</u>	<u>45</u>	<u>46</u>	<u>48</u>	<u>50</u>	<u>52</u>
Small (34-37), lb	Medium (38-41)		N/A			Large (42-45)		N/A			X-Large (46-49)	N/A	N/A	N/A	N/A	N/A
Body Weight (Mean), lb	Medium (38-41)		N/A			Large (42-45)		N/A			N/A	N/A	N/A	N/A	N/A	N/A
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	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	Girth Measurements (cm)	<u>35</u>	<u>36</u>	<u>37</u>	<u>38</u>	<u>39</u>	<u>40</u>	<u>41</u>	<u>42</u>	<u>43</u>	<u>44</u>	<u>45</u>	<u>46</u>	<u>48</u>	<u>50</u>	<u>52</u>
Girth Measurements, inches	<u>34</u>	<u>35</u>	<u>36</u>	<u>37</u>	<u>38</u>	<u>39</u>	<u>40</u>	<u>41</u>	<u>42</u>	<u>43</u>	<u>44</u>	<u>45</u>	<u>46</u>	<u>48</u>	<u>50</u>	<u>52</u>
Sizes	<u>21½</u>	<u>21¾</u>	<u>22</u>	<u>22¼</u>	<u>22½</u>	<u>22¾</u>	<u>23</u>	<u>23¼</u>	<u>23½</u>	<u>23¾</u>	<u>24</u>	<u>23¾</u>	<u>23¾</u>	<u>24¼</u>	<u>24½</u>	<u>25</u>
Head	<u>21½</u>	<u>21¾</u>	<u>22</u>	<u>22¼</u>	<u>22½</u>	<u>22¾</u>	<u>23</u>	<u>23¼</u>	<u>23½</u>	<u>23¾</u>	<u>24</u>	<u>23¾</u>	<u>23¾</u>	<u>24¼</u>	<u>24½</u>	<u>25</u>
Girth																
Neck Base	<u>15½</u>	<u>15¾</u>	<u>15¾</u>	<u>15¾</u>	<u>16½</u>	<u>16¾</u>	<u>16¾</u>	<u>16¾</u>	<u>17½</u>	<u>17¾</u>	<u>17¾</u>	<u>17¾</u>	<u>18½</u>	<u>18¾</u>	<u>19½</u>	<u>19¾</u>
Girth																
Mid-Neck	<u>14¼</u>	<u>14½</u>	<u>14¾</u>	<u>15</u>	<u>15¼</u>	<u>15½</u>	<u>15¾</u>	<u>16</u>	<u>16¼</u>	<u>16½</u>	<u>16¾</u>	<u>17</u>	<u>17¼</u>	<u>17¾</u>	<u>18¼</u>	<u>18¾</u>
Girth																
Shoulder	<u>42¾</u>	<u>43</u>	<u>43¾</u>	<u>44¼</u>	<u>44¾</u>	<u>45½</u>	<u>46½</u>	<u>47</u>	<u>47¾</u>	<u>48¾</u>	<u>49¾</u>	<u>50½</u>	<u>51¾</u>	<u>53½</u>	<u>54¾</u>	<u>56¾</u>
Girth																
Chest/Bust	<u>34</u>	<u>35</u>	<u>36</u>	<u>37</u>	<u>38</u>	<u>39</u>	<u>40</u>	<u>41</u>	<u>42</u>	<u>43</u>	<u>44</u>	<u>45</u>	<u>46</u>	<u>47</u>	<u>50</u>	<u>52</u>
Girth																
Chest/Bust	<u>34</u>	<u>35</u>	<u>36</u>	<u>37</u>	<u>38</u>	<u>39</u>	<u>40</u>	<u>41</u>	<u>42</u>	<u>43</u>	<u>44</u>	<u>45</u>	<u>46</u>	<u>48</u>	<u>50</u>	<u>52</u>
Girth																
Under-Bust	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																
Upper-Chest	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																
Waist	<u>28½</u>	<u>29½</u>	<u>30½</u>	<u>31½</u>	<u>32½</u>	<u>33½</u>	<u>34½</u>	<u>35½</u>	<u>36½</u>	<u>37½</u>	<u>38½</u>	<u>39¾</u>	<u>41</u>	<u>43½</u>	<u>46</u>	<u>48½</u>
Girth																
Chest	<u>86.36</u>	<u>88.90</u>	<u>91.44</u>	<u>93.98</u>	<u>96.52</u>	<u>99.06</u>	<u>101.60¾</u>	<u>104.14</u>	<u>106.68¾</u>	<u>109.22¾</u>	<u>111.76</u>	<u>114.30</u>	<u>116.84</u>	<u>119.38</u>	<u>121.92</u>	<u>124.46½</u>
High-Hip	<u>30¾</u>	<u>31¾</u>	<u>32¾</u>	<u>33¾</u>	<u>34¾</u>	<u>35¾</u>	<u>36¾</u>	<u>37¾</u>	<u>38¾</u>	<u>39¾</u>	<u>40½</u>	<u>41½</u>	<u>42½</u>	<u>44½</u>	<u>46½</u>	<u>48½</u>
Girth																
Waist	<u>71.12</u>	<u>73.66</u>	<u>76.20</u>	<u>78.74</u>	<u>81.28</u>	<u>83.82½</u>	<u>86.36</u>	<u>88.90½</u>	<u>91.44</u>	<u>93.98</u>	<u>96.52</u>	<u>99.70</u>	<u>102.87</u>	<u>106.05</u>	<u>107½</u>	<u>109.22</u>
Hip/Seat	<u>33½</u>	<u>34½</u>	<u>35½</u>	<u>36½</u>	<u>37½</u>	<u>38½</u>	<u>39½</u>	<u>40½</u>	<u>41½</u>	<u>42¼</u>	<u>43</u>	<u>43¾</u>	<u>44½</u>	<u>46</u>	<u>47½</u>	<u>49</u>
Girth																
Seat (hip)	<u>86.36</u>	<u>88.90½</u>	<u>91.44</u>	<u>93.98</u>	<u>96.52</u>	<u>99.06</u>	<u>101.60</u>	<u>104.14</u>	<u>106.68</u>	<u>109.22</u>	<u>111.76</u>	<u>114.30</u>	<u>116.84</u>	<u>119.38</u>	<u>121.97</u>	<u>2</u>
Girth																
Thigh	<u>20</u>	<u>20½</u>	<u>21</u>	<u>21½</u>	<u>22</u>	<u>22½</u>	<u>23</u>	<u>23½</u>	<u>24</u>	<u>24¾</u>	<u>24¾</u>	<u>25½</u>	<u>25½</u>	<u>26¼</u>	<u>27</u>	<u>27¾</u>
Girth																
Head circumference	<u>54.93</u>	<u>55.40</u>	<u>55.88</u>	<u>56.36</u>	<u>56.83</u>	<u>57.31</u>	<u>57.79</u>	<u>58.26</u>	<u>58.74</u>	<u>59.21</u>	<u>59.69</u>	<u>60.17</u>	<u>60.64</u>	<u>61.12</u>	<u>61.60</u>	<u>24¾</u>
Mid-Thigh	<u>18¾</u>	<u>19½</u>	<u>19¾</u>	<u>20</u>	<u>20¾</u>	<u>20¾</u>	<u>21½</u>	<u>21½</u>	<u>21¾</u>	<u>22¼</u>	<u>22½</u>	<u>23</u>	<u>23¾</u>	<u>24½</u>	<u>24¾</u>	<u>25¾</u>
Girth																
Neck base	<u>35.56</u>	<u>36.20</u>	<u>36.83</u>	<u>37.47¾</u>	<u>38.10</u>	<u>38.74</u>	<u>39.37</u>	<u>40.01</u>	<u>40.64</u>	<u>41.28</u>	<u>41.91</u>	<u>42.55</u>	<u>43.18</u>	<u>43.82</u>	<u>44.45</u>	<u>18½</u>
Girth																
Knee	<u>14</u>	<u>14¼</u>	<u>14½</u>	<u>14¾</u>	<u>15</u>	<u>15¼</u>	<u>15½</u>	<u>15¾</u>	<u>16</u>	<u>16¼</u>	<u>16½</u>	<u>16¾</u>	<u>17</u>	<u>17½</u>	<u>18</u>	<u>18½</u>
Girth																
Shoulder circumference	<u>101.60</u>	<u>104.14</u>	<u>106.68</u>	<u>109.22</u>	<u>111.76</u>	<u>114.30¾</u>	<u>116.84</u>	<u>119.38</u>	<u>121.92</u>	<u>124.46</u>	<u>127.00</u>	<u>129.54</u>	<u>132.08</u>	<u>134.62</u>	<u>137.½</u>	<u>16</u>
Girth																
Calf Girth	<u>13½</u>	<u>13¾</u>	<u>14</u>	<u>14¼</u>	<u>14½</u>	<u>14¾</u>	<u>15</u>	<u>15¼</u>	<u>15½</u>	<u>15¾</u>	<u>16</u>	<u>16¼</u>	<u>16½</u>	<u>17</u>	<u>17½</u>	<u>18</u>
Armseye	<u>41.59¾</u>	<u>42.55</u>	<u>43.18</u>	<u>44.13</u>	<u>45.09¼</u>	<u>46.04¾</u>	<u>46.99</u>	<u>47.94</u>	<u>48.90¾</u>	<u>49.85</u>	<u>50.80</u>	<u>51.75</u>	<u>52.71</u>	<u>53.66</u>	<u>54.61¾</u>	<u>12</u>
Ankle	<u>9¾</u>	<u>9¾</u>	<u>10</u>	<u>10½</u>	<u>10¼</u>	<u>10¾</u>	<u>10½</u>	<u>10¾</u>	<u>10¾</u>	<u>10¾</u>	<u>11</u>	<u>11½</u>	<u>11¼</u>	<u>11½</u>	<u>11¾</u>	<u>12</u>
Girth																
Upper arm	<u>29.21</u>	<u>29.85½</u>	<u>30.48</u>	<u>31.12</u>	<u>32.39</u>	<u>33.02</u>	<u>33.66</u>	<u>34.93</u>	<u>34.29</u>	<u>34.93</u>	<u>35.56</u>	<u>36.20</u>	<u>36.83¾</u>	<u>37.47</u>	<u>38.10</u>	



D6240/D6240M – 12

TABLE 1 Continued

Sizes:	34	35	36	37	38	39	40	41	42	43	44	45	46	48	50	52
Armscye Girth - Short	15¼	15½	15¾	16⅛	16½	16¾	17¼	17½	17¾	18	18¾	18¾	18¾	19¾	20	20¾
Elbow Armscye Girth - Regular	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	34-290¾	21
Wrist Armscye Girth - Tall	17-15	17-46¼	17-78	18-10	18-42	18-73½	19-05	19-37	19-69	20-00	20-32	20-64	20-96¾	21-27	20¾	21-59¾
Upper-Arm Girth	11¾	12	12¼	12½	12¾	13	13¼	13½	13¾	14	14¼	14½	14¾	15¼	15¾	16¼
Knee Elbow Girth	36-83	37-47	38-10	38-74	39-37	40-01	40-64	41-28¼	41-91	42-55¾	43-18	43-82	44-45	45-09	13¾	145-72¼
Calf Wrist Girth	34-29	34-93	35-56	36-20	36-83	37-47¾	38-10	38-74½	39-37½	40-01	40-64	41-28	41-91	42-55	43-18¼	
Ankle Hand Girth	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	N/A
Trunk (total trunk, torso)	150-50½	153-35¾	156-21½	158-75	161-29¾	163-83½	166-37½	168-12	169-86	171-61	173-36	174-94	176-69	178-44¾	186-9¼	70-02½
Trunk Length (total vertical girth) - Short	61½	61¾	62⅛	62½	62¾	63⅛	63½	64⅛	64¾	65⅛	65¾	66½	67	68⅛	69¼	70½
Total Trunk Length (total vertical girth) - Regular	62-23½	63-82¾	65-41½	66-99	68-58	69-85¾	71-12	72-39	73-66¾	74-93¾	76-20	77-47	78-74	80-01½	81-¼	28½
Trunk Length (total vertical girth) - Regular	63½	63¾	64⅛	64½	64¾	65⅛	65½	66⅛	66¾	67⅛	67¾	68½	69	70⅛	71¼	72½
Trunk Length Measurements (total vertical girth) - Tall	67⅛	67¾	67¾	68⅛	68½	68¾	69⅛	69¾	70⅛	71	71½	72⅛	72¾	73¾	74¾	76⅛
Sizes	34	35	36	37	38	39	40	41	42	43	44	45	46	47	4850	52
Vertical Measurements, inches	34	35	36	37	38	39	40	41	42	43	44	45	46	48	50	52
Stature Height - Short	172-09	173-04	173-99	175-42	176-21	177-32	178-44	178-91	179-55	180-02	180-66	180-98	181-29	181-61	181-7	7
Cervicate height	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
Height - Regular	148-27	149-07	149-86	151-13	151-77	152-72	153-67	154-15	154-62	155-10	155-58	155-89	158-21	156-37	156-53	70
Head height, including neck	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Height - Tall	23-81	23-97	24-13	24-29	24-45	24-61	24-77	24-77	24-92	24-92	25-08	25-08	25-08	25-24	25-274	74
Waist height	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74
	106-05	106-36	106-68	107-63	107-95¾	108-59¾	109-22¾	109-54¾	109-86¾	110-17	110-49¾	110-81	110-97¾	110-97¾	111-139¾	9¾

6.2.4 *Seat (hip)*—Measure horizontally around the body at hip height. *Mid Neck Girth*—Measure the horizontal circumference

TABLE 1 *Continued*

Sizes:	34	35	36	37	38	39	40	41	42	43	44	45	46	48	50	52
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
Armseyedept	11.54	12.70	12.86	13.02	13.49	13.81	13.97	14.29	14.45	14.76	14.92	40.64	15.40	15.56	15.880	16
Head and Neck Length - Regular	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Arm inseam	48.26	48.26	48.26	47.94	47.94	47.63	47.63	47.31	47.31	46.99	46.99	46.67	46.67	46.36	48.3610 ¹ / ₈	49 ¹ / ₈
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
Crotch height (inseam)	81.92	81.92	81.92	82.23	82.23	82.23	82.55	82.55	82.55	82.55	82.55	82.55	82.39	81.76 ¹ / ₈	81.6057 ¹ / ₈	57 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
Knee height	44.45	44.45	45.09	45.09	45.72	45.72	46.36	46.36	46.36	46.36	46.67	46.67	46.99	46.99	46.990	60
Cervical Height - Regular	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Ankle height	5.40	5.40	5.72	5.72	6.03 ⁷ / ₈	6.03 ⁷ / ₈	6.35 ⁷ / ₈	6.35 ⁷ / ₈	6.35 ⁷ / ₈	6.35 ⁷ / ₈	6.67	6.67	6.67	6.83 ⁷ / ₈	6.83 ⁷ / ₈	6.83 ⁷ / ₈
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
Waist length (cervicale to waist)	42.23	42.70	43.18	43.50	43.82	44.13	44.45	44.61 ⁷ / ₈	44.77	44.93	45.09	45.09	45.24	45.40	45.4027 ¹ / ₂	27 ¹ / 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 ³ / ₈
Waistrise	24.13	24.45	24.77	25.40	25.72	26.35	26.87	26.99	27.31	27.62	27.94	28.26 ¹ / ₄	28.58 ³ / ₈	29.21	29.538 ⁵ / ₈	28 ³ / ₄
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 ¹ / ₂	17 ¹ / ₂	17 ¹ / ₂	17 ¹ / ₂	17 ¹ / ₂	17 ⁵ / ₈	17 ⁵ / ₈	17 ⁵ / ₈	17 ³ / ₄	17 ³ / ₄	17 ⁷ / ₈
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 / ₄	19 ³ / ₈	19 ³ / ₈	19 ³ / ₈	19 ¹ / ₂	19 ¹ / ₂	19 ⁵ / ₈
Center Front Waist Length - Short	15	15	15	15	15	15	15 ¹ / ₈	15 ¹ / ₈	15 ¹ / ₈	15 ¹ / ₈	15 ¹ / ₄	15 ¹ / ₄	15 ¹ / ₄	15 ³ / ₈	15 ¹ / ₂	15 ⁵ / ₈



TABLE 1 Continued

Sizes:	34	35	36	37	38	39	40	41	42	43	44	45	46	48	50	52
Center Front Waist Length - Regular	15½	15½	15½	15½	15½	15½	15⅝	15⅝	15⅝	15⅝	15¾	15¾	15¾	15⅞	16	16⅞
Center Front Waist Length - Tall	16¾	16¾	16¾	16¾	16¾	16¾	16⅞	16⅞	16⅞	16⅞	17	17	17	17⅞	17¼	17⅞
Scye Depth - Short	6⅞	6⅞	6¼	6¼	6⅝	6⅝	6½	6⅝	6¾	6⅞	6⅞	7	7⅞	7¼	7½	7¾
Scye Depth - Regular	6⅝	6⅝	6½	6½	6⅝	6⅝	6¾	6⅞	7	7⅞	7⅞	7¼	7⅝	7½	7¾	8
Scye Depth - Tall	6½	6½	6⅝	6⅝	6¾	6¾	6⅞	7	7⅞	7¼	7¼	7⅝	7½	7⅝	7⅞	8⅞
Side Waist Length - Short	9½	9⅝	9¼	9⅞	9	8⅞	8¾	8⅝	8⅝	8½	8½	8⅝	8⅝	8¼	8	7⅞
Side Waist Length - Regular	9⅝	9½	9⅝	9¼	9⅞	9	8⅞	8¾	8¾	8⅝	8⅝	8½	8½	8⅝	8⅞	8
Side Waist Length - Tall	10¾	10⅝	10½	10⅝	10¼	10⅞	10	9⅞	9⅞	9¾	9¾	9⅝	9⅝	9½	9¼	9⅞
Waist to Hip/Seat Height - Short	6¾	6¾	6¾	6¾	6¾	6¾	6¾	6¾	6¾	6¾	6¾	6¾	6¾	6¾	6¾	6¾
Waist to Hip/Seat Height - Regular	7¼	7¼	7¼	7¼	7¼	7¼	7¼	7¼	7¼	7¼	7¼	7¼	7¼	7¼	7¼	7¼
Waist to Hip/Seat Height - Tall	22⅝	22⅝	22⅝	22⅝	22⅝	22⅝	22⅝	22⅝	22⅝	22⅝	22⅝	22⅝	22⅝	22⅝	22⅝	22⅝
Waist to Knee Height - Short	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Waist to Knee Height - Regular	25⅝	25⅝	25⅝	25⅝	25⅝	25⅝	25⅝	25⅝	25⅝	25⅝	25⅝	25⅝	25⅝	25⅝	25⅝	25⅝
Waist to Knee Height - Tall	40¼	40¼	40¼	40¼	40¼	40¼	40¼	40¼	40¼	40¼	40¼	40¼	40¼	40¼	40¼	40¼
Waist to High-Hip Height - Short	42⅝	42⅝	42⅝	42⅝	42⅝	42⅝	42⅝	42⅝	42⅝	42⅝	42⅝	42⅝	42⅝	42⅝	42⅝	42⅝
Waist to High-Hip Height - Regular	45¼	45¼	45¼	45¼	45¼	45¼	45¼	45¼	45¼	45¼	45¼	45¼	45¼	45¼	45¼	45¼
Waist to High-Hip Height - Tall	36⅞	36⅞	36⅞	36⅞	36⅞	36⅞	36⅞	36⅞	36⅞	36⅞	36⅞	36⅞	36⅞	36⅞	36⅞	36⅞
Waist to High-Hip Height - Regular	39⅞	39⅞	39⅞	39⅞	39⅞	39⅞	39⅞	39⅞	39⅞	39⅞	39⅞	39⅞	39⅞	39⅞	39⅞	39⅞
Waist to High-Hip Height - Tall	41½	41½	41½	41½	41½	41½	41½	41½	41½	41½	41½	41½	41½	41½	41½	41½

TABLE 1 *Continued*

Sizes:	<u>34</u>	<u>35</u>	<u>36</u>	<u>37</u>	<u>38</u>	<u>39</u>	<u>40</u>	<u>41</u>	<u>42</u>	<u>43</u>	<u>44</u>	<u>45</u>	<u>46</u>	<u>48</u>	<u>50</u>	<u>52</u>
Hip/Seat Height - Short	33½	33½	33½	33½	33½	33½	33½	33½	33½	33½	33½	33½	33½	33½	33½	33½
Hip/Seat Height - Regular	35¾	35¾	35¾	35¾	35¾	35¾	35¾	35¾	35¾	35¾	35¾	35¾	35¾	35¾	35¾	35¾
Hip/Seat Height - Tall	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
Crotch Height - Short	30¼	30¼	30¼	30¼	30¼	30¼	30¼	30¼	30⅞	30⅞	30	29⅞	29⅞	29¾	29⅝	29½
Crotch Height - Regular	32	32	32	32	32	32	32	32	31⅞	31⅞	31¼	31⅝	31⅝	31½	31⅝	31¼
Crotch Height - Tall	34	34	34	34	34	34	34	34	33⅞	33⅞	33¾	33⅝	33⅝	33½	33⅝	33¼
Rise Height - Short	10	10	10	10	10	10	10	10	10⅞	10⅞	10¼	10⅝	10⅝	10½	10⅝	10¾
Rise Height - Regular	10⅝	10⅝	10⅝	10⅝	10⅝	10⅝	10⅝	10⅝	10¾	10¾	10⅞	11	11	11⅞	11¼	11⅞
Rise Height - Tall	11⅞	11⅞	11⅞	11⅞	11⅞	11⅞	11⅞	11⅞	11¼	11¼	11⅞	11½	11½	11⅝	11¾	11⅞
Knee Height - Short	17¾	17¾	17¾	17¾	17¾	17¾	17¾	17¾	17¾	17¾	17¾	17¾	17¾	17¾	17¾	17¾
Knee Height - Regular	18⅝	18⅝	18⅝	18⅝	18⅝	18⅝	18⅝	18⅝	18⅝	18⅝	18⅝	18⅝	18⅝	18⅝	18⅝	18⅝
Knee Height - Tall	19⅞	19⅞	19⅞	19⅞	19⅞	19⅞	19⅞	19⅞	19⅞	19⅞	19⅞	19⅞	19⅞	19⅞	19⅞	19⅞
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	Width and Length (cm)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
Sizes	34	35	36	37	38	39	40	41	42	43	44	45	46	47	4850	52
Width and Length Measurements, inches	34	35	36	37	38	39	40	41	42	43	44	45	46	48	50	52
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	48.90¼	49.530⅞	31½
Crotch Length (total) - Short	26⅝	26⅝	26¾	27	27¼	27⅞	27⅞	28	28⅝	28⅝	29	29¼	29⅝	30¼	30⅞	31½
Across 4 in. down	38.10	38.74⅝	39.37¾	40.01	40.64	41.28⅝	41.91	42.55	43.18	43.82	44.45	45.09¼	45.72	46.36	46.9931⅞	32½
Crotch Length (total) - Regular	27⅝	27⅝	27¾	28	28¼	28⅞	28⅞	29	29⅞	29⅞	30	30¼	30⅝	31¼	31⅞	32½
Across back-5 in. down	39.37	40.01	40.64	41.28	41.91⅝	42.55	43.18	43.82	44.45	45.09¾	45.72	46.36	46.99	47.63	48.2633	33⅝



D6240/D6240M – 12

TABLE 1 Continued

Sizes:	34	35	36	37	38	39	40	41	42	43	44	45	46	48	50	52
Crotch Length (total) - Tall	28½	28¾	28⅞	29⅞	29⅞	29½	29¾	30⅞	30½	30¾	31⅞	31⅞	31¾	32⅞	33	33⅞
Shoulder slope (degrees)	25¾	25¾	25¾	25¾	25¾	25¾	5⅞	5⅞	6	6	6⅞	6⅞	6¼	6⅞	6½	6⅞
Shoulder Length	5¼	5¼	5¼	5¼	5¼	5¼	5⅞	5⅞	6	6	6⅞	6⅞	6¼	6⅞	6½	6⅞
Shoulder Slope	23⅞°	23⅞°	23°	22⅞°	22¾°	22⅞°	22½°	22¼°	22°	21¾°	21½°	21¼°	21°	20½°	20°	19½°
Shoulder Drop	2¼	2¼	2¼	2¼	2¼	2¼	2¼	2¼	2¼	2¼	2¼	2¼	2¼	2¼	2¼	2¼
Across Back	16¾	17	17⅞	17¼	17⅞	17⅞	17¾	18	18¼	18½	18¾	19	19¼	19¾	20¼	20¾
Shoulder Width																
Across Front	13½	13¾	14	14¼	14½	14¾	15	15⅞	15¾	16⅞	16½	16⅞	17¼	18	18¾	19⅞
Shoulder Width																
Upper Back	15¼	15½	15¾	16	16⅞	16⅞	16⅞	16⅞	17⅞	17⅞	17⅞	17⅞	18⅞	18⅞	19⅞	19⅞
Width																
Upper Front	13⅞	13⅞	14	14¼	14⅞	14⅞	14¾	15	15¼	15½	15¾	16	16⅞	16⅞	17⅞	17⅞
Chest Width																
Back Width	15⅞	15⅞	15⅞	15⅞	16⅞	16⅞	16⅞	16⅞	17⅞	17⅞	17⅞	18	18⅞	19	19⅞	20¼
Front Chest	16⅞	16½	16⅞	16¾	16⅞	17	17⅞	17⅞	17⅞	17⅞	18⅞	18⅞	18⅞	19⅞	19⅞	20¼
Width																
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	31⅞	31⅞	31⅞	32¼	32¼	32½	32½	32¾	32⅞	33⅞	33¼	33½	33⅞	34	34⅞	34¾
Cervicale to Wrist Length - Regular	32⅞	32⅞	32⅞	32¾	32¾	33	33	33¼	33⅞	33⅞	33¾	34	34⅞	34½	34⅞	35¼
Cervicale to Wrist Length - Tall	33¾	34	34	34⅞	34⅞	34⅞	34⅞	34⅞	35	35¼	35⅞	35⅞	35¾	36⅞	36½	36⅞
Shoulder and Arm Length - Short	29⅞	29¼	29¼	29⅞	29⅞	29½	29⅞	29¾	29⅞	30	30⅞	30¼	30½	30¾	31	31¼
Shoulder and Arm Length - Regular	29⅞	29¾	29¾	29⅞	29⅞	30	30⅞	30¼	30⅞	30½	30⅞	30¾	31	31¼	31½	31¾
Shoulder and Arm Length - Tall	31¼	31⅞	31⅞	31½	31½	31⅞	31¾	31⅞	32	32⅞	32¼	32⅞	32⅞	32⅞	33⅞	33⅞
Arm Length - Short	23⅞	23½	23½	23⅞	23⅞	23¾	23¾	23⅞	23⅞	24	24	24⅞	24¼	24⅞	24½	24⅞
Arm Length - Regular	23⅞	24	24	24⅞	24⅞	24¼	24¼	24⅞	24⅞	24½	24½	24⅞	24¾	24⅞	25	25⅞

TABLE 1 *Continued*

Sizes:	34	35	36	37	38	39	40	41	42	43	44	45	46	48	50	52
Arm Length -	25½	25¾	25¾	25¾	25¾	25¾	25¾	26	26	26⅛	26⅛	26¼	26¾	26½	26¾	26¾
Tall																
Cervicaleto wrist	81.29	81.60	81.92	82.71	83.50	84.30	85.09	85.41	85.88	86.36	86.68	87.15	87.63	87.95	88.58	N/A
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 and foot width	8.26	8.57	8.89	9.21	9.53	9.84	10.16	10.48	10.48	10.48	10.48	10.80	10.80	10.80	10.80	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
Hand length	18.10	18.10	18.42	18.42	18.42	18.42	19.05	19.05	19.05	19.05	19.69	19.69	19.69	19.69	20.32	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 length	21.59	22.86	22.86	24.13	25.40	25.40	26.67	26.67	28.67	26.67	27.94	27.94	27.94	27.94	29.21	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

of the neck, taken approximately 25 mm [1 in.] above the neck base level.

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

6.2.6 *Neck base girth*—Measure the circumference at base of the neck. *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 *Shoulder circumference*—With the arms relaxed and down at the side, measure around the shoulders just above the biceps. *Under-Bust Girth*—Measure the horizontal circumference around the body under the arms and bust.

6.2.8 *Armscye circumference*—With the arm hanging down, measure the distance from the shoulder joint through the front break point, the armpit, the back break point, and to the starting point. *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 *Upper arm*—Measure the circumference of the arm midway between the outer edge of the shoulder and the elbow. *Waist Girth*—Measure the minimum horizontal circumference around the body at waist height.

6.2.10 *Elbow*—Measure the circumference of the elbow while the arm is bent (1.57 rad or 90 degrees). *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 *Wrist*—Measure the circumference of the wrist over the inner and outer bony prominence at the lower end of the forearm. *Hip/Seat Girth*—Measure the maximum horizontal circumference around the body at hip height.

6.2.12 *Thigh girth*—Measure the maximum circumference of the upper part of the leg close to or near the crotch. *Thigh Girth*—Measure the maximum horizontal circumference of the upper leg, taken close to 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. *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 *Calf girth*—Measure the maximum circumference around the leg between the knee and ankle, parallel to the floor. *Knee Girth*—Measure the maximum horizontal circumference of the knee, taken over the kneecap with the leg straight.

6.2.15 *Ankle girth*—Measure the circumference of the leg over the ankle over the greatest prominence of the ankle. *Calf Girth*—Measure the maximum horizontal circumference of the lower leg, taken between the knee and 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. *Ankle Girth*—Measure the maximum horizontal circumference of the ankle, taken over the greatest prominence of the anklebones.

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. *Armscye 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 *Height*—Measure from the top of the head to the soles of the feet. *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 *Cervicale height*—Measure the plumb line distance from the cervicale to the soles of the feet. *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°).



D6240/D6240M - 12

TABLE 2 New-ASTBody M-Men's Measurement Tables, SI Units

Sizes:	<u>34</u>	<u>35</u>	<u>36</u>	<u>37</u>	<u>38</u>	<u>39</u>	<u>40</u>	<u>41</u>	<u>42</u>	<u>43</u>	<u>44</u>	<u>45</u>	<u>46</u>	<u>48</u>	<u>50</u>	<u>52</u>
Body Weight (Mean), lb	XXXL-2XL (50-53)		N/A			XXXL-3XL (54-57)		N/A		XXXXL-4XL (58-60)						
N/A	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			
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	N/A
Body 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
Weight Measurements (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
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
Sizes	<u>49</u>	<u>50</u>	<u>51</u>	<u>52</u>	<u>53</u>	<u>54</u>	<u>55</u>	<u>56</u>	<u>57</u>	<u>58</u>	<u>59</u>	<u>45</u>	<u>46</u>	<u>48</u>	<u>50</u>	
Girth Measurements, cm	<u>34</u>	<u>35</u>	<u>36</u>	<u>37</u>	<u>38</u>	<u>39</u>	<u>40</u>	<u>41</u>	<u>42</u>	<u>43</u>	<u>44</u>	<u>45</u>	<u>46</u>	<u>48</u>	<u>50</u>	<u>52</u>
Chest	<u>54.93</u>	<u>55.56</u>	<u>55.88</u>	<u>56.52</u>	<u>56.83</u>	<u>57.47</u>	<u>57.79</u>	<u>58.42</u>	<u>124.46</u>	<u>127.00</u>	<u>129.54</u>	<u>132.08</u>	<u>134.62</u>	<u>137.16</u>	<u>139.70</u>	<u>142.2450</u>
Head	<u>54.93</u>	<u>55.56</u>	<u>55.88</u>	<u>56.52</u>	<u>56.83</u>	<u>57.47</u>	<u>57.79</u>	<u>58.42</u>	<u>58.74</u>	<u>59.37</u>	<u>59.69</u>	<u>60.33</u>	<u>60.64</u>	<u>61.60</u>	<u>62.55</u>	<u>63.50</u>
Girth																
Neck	<u>144.78</u>	<u>147.32</u>	<u>149.86</u>	<u>40.32</u>	<u>40.96</u>	<u>41.59</u>	<u>42.23</u>	<u>42.86</u>	<u>43.50</u>	<u>44.13</u>	<u>44.77</u>	<u>45.40</u>	<u>46.04</u>	<u>47.31</u>	<u>48.58</u>	<u>49.85</u>
Base Girth																
Neck	<u>38.42</u>	<u>39.05</u>	<u>39.69</u>	<u>40.32</u>	<u>40.96</u>	<u>41.59</u>	<u>42.23</u>	<u>42.86</u>	<u>43.50</u>	<u>44.13</u>	<u>44.77</u>	<u>45.40</u>	<u>46.04</u>	<u>47.31</u>	<u>48.58</u>	<u>49.85</u>
Base Girth																
Waist	<u>36.20</u>	<u>36.83</u>	<u>37.47</u>	<u>38.10</u>	<u>38.74</u>	<u>39.37</u>	<u>40.01</u>	<u>40.64</u>	<u>41.28</u>	<u>41.91</u>	<u>42.55</u>	<u>43.18</u>	<u>43.82</u>	<u>45.09</u>	<u>46.36</u>	<u>47.63</u>
Mid-Neck	<u>36.20</u>	<u>36.83</u>	<u>37.47</u>	<u>38.10</u>	<u>38.74</u>	<u>39.37</u>	<u>40.01</u>	<u>40.64</u>	<u>41.28</u>	<u>41.91</u>	<u>42.55</u>	<u>43.18</u>	<u>43.82</u>	<u>45.09</u>	<u>46.36</u>	<u>47.63</u>
Girth																
Shoulder	<u>107.63</u>	<u>109.22</u>	<u>110.81</u>	<u>112.40</u>	<u>113.98</u>	<u>115.57</u>	<u>117.16</u>	<u>118.75</u>	<u>121.92</u>	<u>125.73</u>	<u>129.54</u>	<u>133.35</u>	<u>137.16</u>	<u>142.24</u>	<u>147.32</u>	<u>152.40</u>
Girth																
Shoulder	<u>107.63</u>	<u>109.22</u>	<u>110.81</u>	<u>112.40</u>	<u>113.98</u>	<u>115.57</u>	<u>117.16</u>	<u>119.38</u>	<u>121.60</u>	<u>123.83</u>	<u>126.05</u>	<u>128.27</u>	<u>130.49</u>	<u>134.94</u>	<u>139.38</u>	<u>143.83</u>
Girth																
Seat (hip)	<u>124.46</u>	<u>127.00</u>	<u>129.54</u>	<u>93.98</u>	<u>96.52</u>	<u>99.06</u>	<u>101.60</u>	<u>104.14</u>	<u>106.68</u>	<u>109.22</u>	<u>111.76</u>	<u>114.30</u>	<u>116.84</u>	<u>12.92</u>	<u>127.00</u>	<u>132.08</u>
Chest/ Bust	<u>86.36</u>	<u>88.90</u>	<u>91.44</u>	<u>93.98</u>	<u>96.52</u>	<u>99.06</u>	<u>101.60</u>	<u>104.14</u>	<u>106.68</u>	<u>109.22</u>	<u>111.76</u>	<u>114.30</u>	<u>116.84</u>	<u>121.92</u>	<u>127.00</u>	<u>132.08</u>
Girth																
Under-Bust	<u>134.62</u>	<u>137.16</u>	<u>139.70</u>	<u>142.24</u>	<u>144.78</u>	<u>147.32</u>	<u>149.88</u>	<u>152.40</u>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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
Head circumference	<u>62.07</u>	<u>62.55</u>	<u>63.02</u>	<u>63.50</u>	<u>63.98</u>	<u>64.45</u>	<u>64.93</u>	<u>65.41</u>	<u>65.88</u>	<u>66.36</u>	<u>66.83</u>	<u>67.31</u>	N/A	N/A	N/A	N/A
Upper-Chest	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
Chest Girth																
Neck base	<u>45.09</u>	<u>45.72</u>	<u>46.36</u>	<u>46.99</u>	<u>47.63</u>	<u>48.26</u>	<u>48.90</u>	<u>49.53</u>	<u>50.17</u>	<u>50.80</u>	<u>51.44</u>	<u>52.07</u>	<u>104.14</u>	<u>110.49</u>	<u>116.84</u>	<u>123.19</u>
Waist	<u>72.39</u>	<u>74.93</u>	<u>77.47</u>	<u>80.01</u>	<u>82.55</u>	<u>85.09</u>	<u>87.63</u>	<u>90.17</u>	<u>92.71</u>	<u>95.25</u>	<u>97.79</u>	<u>100.97</u>	<u>104.14</u>	<u>110.49</u>	<u>116.84</u>	<u>123.19</u>
Girth																
Shoulder circumference	<u>139.70</u>	<u>142.24</u>	<u>144.78</u>	<u>147.32</u>	<u>148.59</u>	<u>149.86</u>	<u>152.40</u>	<u>154.94</u>	<u>157.48</u>	<u>160.02</u>	<u>162.56</u>	<u>165.1</u>	<u>07.95</u>	<u>113.03</u>	<u>118.11</u>	<u>123.19</u>
High-Hip	<u>78.11</u>	<u>80.65</u>	<u>83.19</u>	<u>85.73</u>	<u>88.27</u>	<u>90.81</u>	<u>93.35</u>	<u>95.89</u>	<u>98.43</u>	<u>100.65</u>	<u>102.87</u>	<u>105.41</u>	<u>107.95</u>	<u>113.03</u>	<u>118.11</u>	<u>123.19</u>
Girth																
Armseye	<u>52.86</u>	<u>53.66</u>	<u>54.45</u>	<u>55.25</u>	<u>56.04</u>	<u>56.83</u>	<u>100.33</u>	<u>102.87</u>	<u>105.41</u>	<u>107.32</u>	<u>109.22</u>	<u>111.13</u>	<u>113.03</u>	<u>116.84</u>	<u>120.65</u>	<u>124.46</u>
Hip/Seat	<u>85.09</u>	<u>87.63</u>	<u>90.17</u>	<u>92.71</u>	<u>95.25</u>	<u>97.79</u>	<u>100.33</u>	<u>102.87</u>	<u>105.41</u>	<u>107.32</u>	<u>109.22</u>	<u>111.13</u>	<u>113.03</u>	<u>116.84</u>	<u>120.65</u>	<u>124.46</u>
Girth																
Thigh	<u>50.80</u>	<u>52.07</u>	<u>53.34</u>	<u>54.61</u>	<u>55.88</u>	<u>57.15</u>	<u>58.42</u>	<u>59.69</u>	<u>60.96</u>	<u>61.91</u>	<u>62.87</u>	<u>63.82</u>	<u>64.77</u>	<u>66.68</u>	<u>68.58</u>	<u>70.49</u>
Girth																
Mid-Thigh	<u>47.31</u>	<u>48.58</u>	<u>49.85</u>	<u>50.80</u>	<u>51.75</u>	<u>52.71</u>	<u>53.66</u>	<u>54.61</u>	<u>55.56</u>	<u>56.52</u>	<u>57.47</u>	<u>58.42</u>	<u>59.21</u>	<u>60.01</u>	<u>60.80</u>	<u>61.60</u>
Girth																
Mid-Thigh	<u>47.31</u>	<u>48.58</u>	<u>49.85</u>	<u>50.80</u>	<u>51.75</u>	<u>52.71</u>	<u>53.66</u>	<u>54.61</u>	<u>55.56</u>	<u>56.52</u>	<u>57.47</u>	<u>58.42</u>	<u>59.37</u>	<u>61.28</u>	<u>63.18</u>	<u>65.41</u>
Girth																
Upper arm	<u>35.56</u>	<u>36.20</u>	<u>36.83</u>	<u>37.47</u>	<u>38.10</u>	<u>38.74</u>	<u>39.37</u>	<u>40.01</u>	<u>40.64</u>	<u>41.28</u>	<u>41.91</u>	<u>42.55</u>	<u>43.18</u>	<u>43.82</u>	<u>44.45</u>	<u>45.09</u>
Girth																