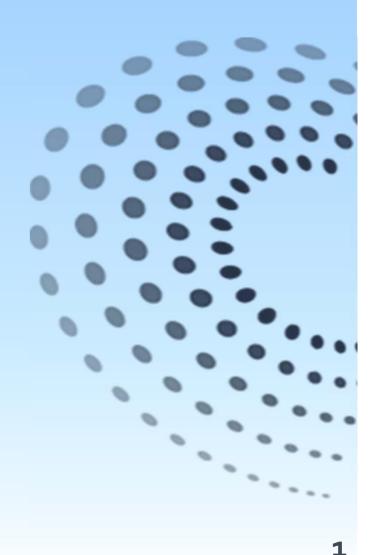


Capabilities Statement

Automated Measuring Technologies



ACCURACY. VISIBILITY. ACCOUNTABILITY.

ABOUT ADVANTECH, INC.

- AdvanTech, Inc. (ATI) was founded in 1996 with the mission to provide "advanced technology for competitive performance."
- Since then, we have successfully improved the operations and bottom line



of our Clients by providing total solutions that substantially improve:

- ✓ the Accuracy of the data collected;
- ✓ the Visibility of all their assets; and, ♪
- ✓ the Accountability of specific functional areas to track and report their individual performance against their targeted goals.
- With it's headquarters in Annapolis MD, we have a presence in 18 states across the US. ATI services a wide variety of commercial industryleading firms and Government agencies across the United States.

ACCURACY. VISIBILITY. ACCOUNTABILITY.

MISSION STATEMENT

At ATI, our entire team is committed to something greater than ourselves. We listen to clients' needs, clearly articulate their challenges and work with them to achieve their desired outcomes.

We hold ourselves to the following standards:

- **Accuracy**: Everything we do as an organization must be measured as objectively and accurately as possible and tracked over time to document our performance.
- <u>Visibility</u>: Everything we do is totally transparent to our team members and our clients.
- <u>Accountability</u>: Each team member is held accountable for their actions, decisions and communicating to every one who is or may be effected by those decisions.



Improvements in Accuracy, Visibility and Accountability translate to actual dollars to the bottom line.

ACCURACY. VISIBILITY. ACCOUNTABILITY.

Automated Data Capture Technologies



ACCURACY. VISIBILITY. ACCOUNTABILITY.

Automated Data Capture Technologies



www.advantech-inc.com

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High Definition – Laser Quality

Detailed 3D View

Up to 150 Measurements with 1mm variance

Weasure Inspector File Edit Options		_			×
Wizard Wizard Configuration Feature Points					
Name	Id	Value	State	ОК	^
Body height	0010	67.17 in	С		
Head height	0020	8.76 in	С		
Neck height	0030	58.42 in	С		i su
Distance neck to buttock	0040	23.54 in	С		
Distance neck-knee	0050	39.83 in	С		i III
Distance waist-knee	0060	24.01 in	С		
Distance waistband-knee	0065	22.58 in	С		
Waistband height	0070	40.48 in	С		
Waist height	0080	42.60 in	С		i I
High waist height	0085	43.43 in	С		i I
Buttock height	0090	34.87 in	С		
Hip height	0095	32.71 in	С		
Crotch height	0100	30.85 in	C		1
Knee height	0110	18.59 in	С		
Ankle height	0120	2.96 in	c		
Belly circumference height	0150	40.77 in	C		
Maximum belly circumference height	0155	40.38 in	c		
Height of shoulder blades	0160	51.80 in	C		
scapula height 2	0165	51.44 in	c		
Breast height	0170	49.10 in	c		
Neck height front	0180	54.79 in	c		
Distance 7CV - vertical	0510	11.43 in	c		
Distance neck front to vertical	0515	14.96 in	c		
Distance scapula to vertical	0520	8.19 in	c		
Distance waist back to vertical	0530	9.61 in	c		
Distance buttock to vertical	0540	7.94 in	c		
Distance abdomen to vertical	0550	17.91 in	c		
Distance breast to vertical	0600	17.56 in	c		
Distance back in breast height to vertical	0610	8.41 in	c		
Distance bely to vertical	0620	18.20 in	c		
Distance back in belly height to vertical	0630	9.45 in	c		
waistband front to vertical	0640	17.99 in	c		
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Body height

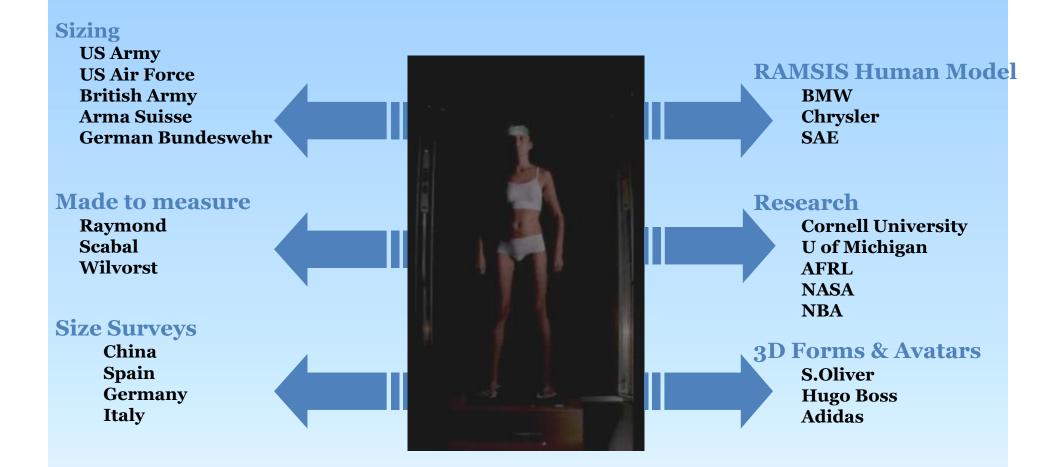
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ACCURACY. VISIBILITY. ACCOUNTABILITY.

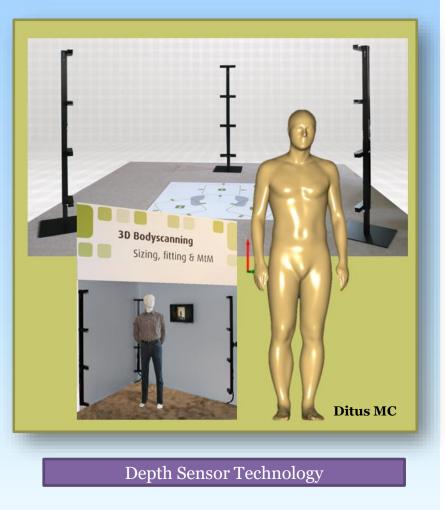
www.advantech-inc.com

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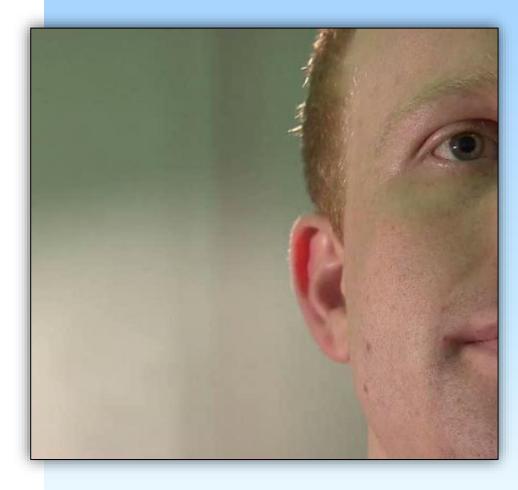




ACCURACY. VISIBILITY. ACCOUNTABILITY.

		DITUS MC	VITUS bodyscan
S	SizeSurveys	no	yes
Applications	Made-to-Measure	yes	yes
lica	Corporate Fashion	yes	yes
App	Virtual Mirror	yes	yes
	Individual facial features	no	yes
ons	Mobility	high	acceptable
cati	Accuracy	+/- 6mm	< 1mm
cifi	Measurement range	2.1m x 0.9m x 0.9m	2.1m x 1m x 1.2m
/Spe	Dimensions	2.4m x 2.4m (triangle) x 1.85m	2.2m x 2.2m x 2.95m
lres	Area	5 m² (triangle)	4.84 m²
Features/Specifications	Total weight	50 kg	200 kg

ACCURACY. VISIBILITY. ACCOUNTABILITY.



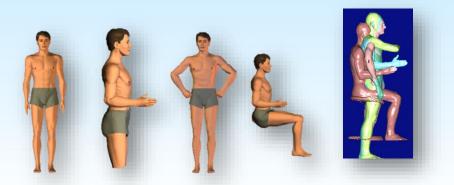
•Scanning process is fast (6-10 seconds per posture)

•Analysis of body dimensions without the need having the subject present

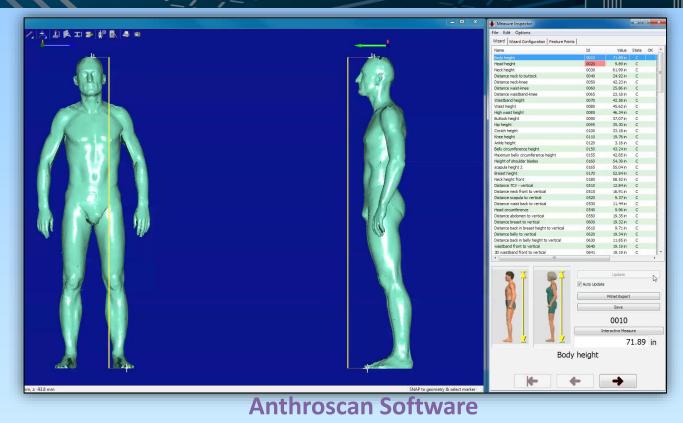
•Scans are stored forever – later implementation of new measurements possible

•Storage of results in database for easy access and analysis

•Scan export in standard 3D formats (OBJ, ASCII, STL)

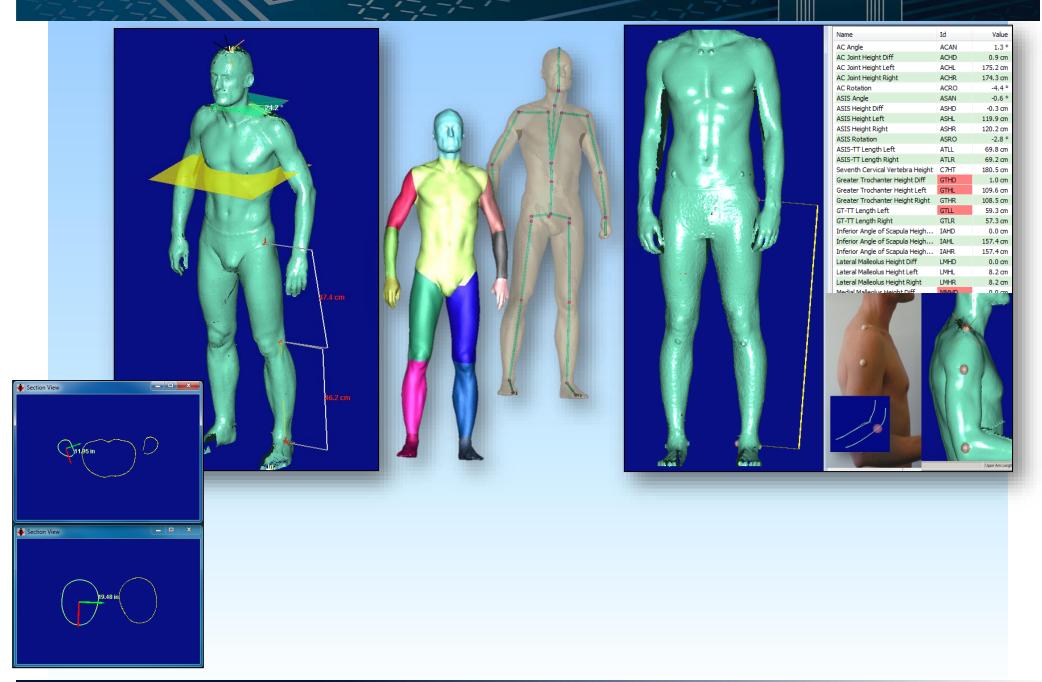


ACCURACY. VISIBILITY. ACCOUNTABILITY.



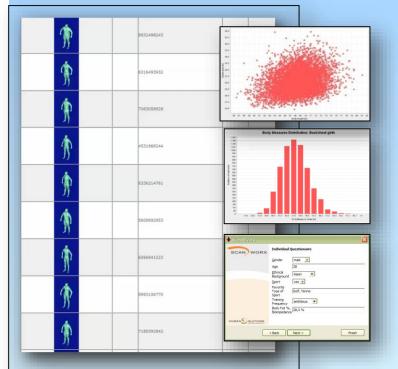
- Automated determination of body landmarks and acquisition of up to 150 body dimensions
- Landmarks and measurements can be reviewed and revised
- Creation of measurement protocols
- Batch mode for multiple scan processing

ACCURACY. VISIBILITY. ACCOUNTABILITY.



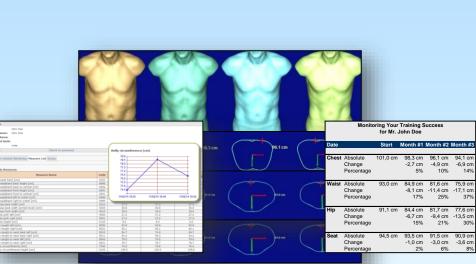
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Anthroscan Scan Database



For statistical analysis of a group of scans





For evaluation and tracking of an individual

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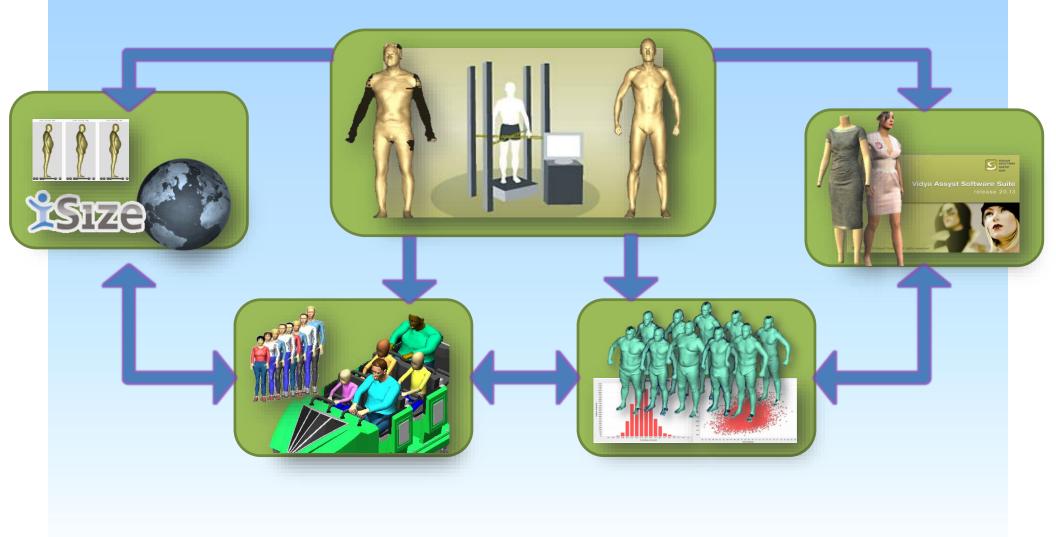
Success Stories in Medicine Sanomed Orthopaedic Engineering



Source: <u>www.sanomed.de</u> Information for Patients – Procedural method scoliosis brace 01/24/2013

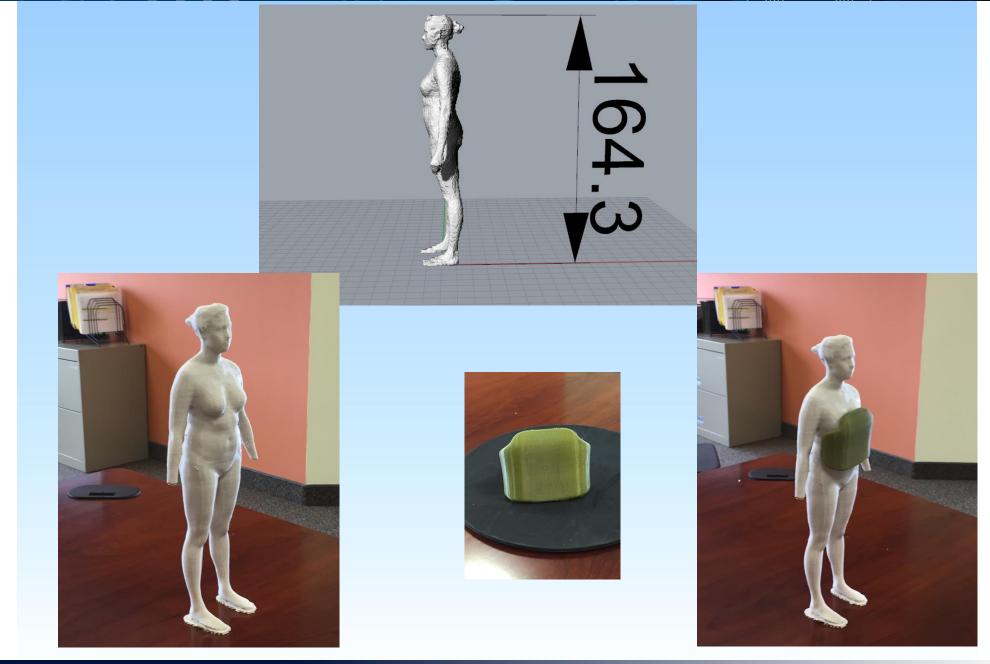
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Seamless Integration of Size, Design and Fit Technologies



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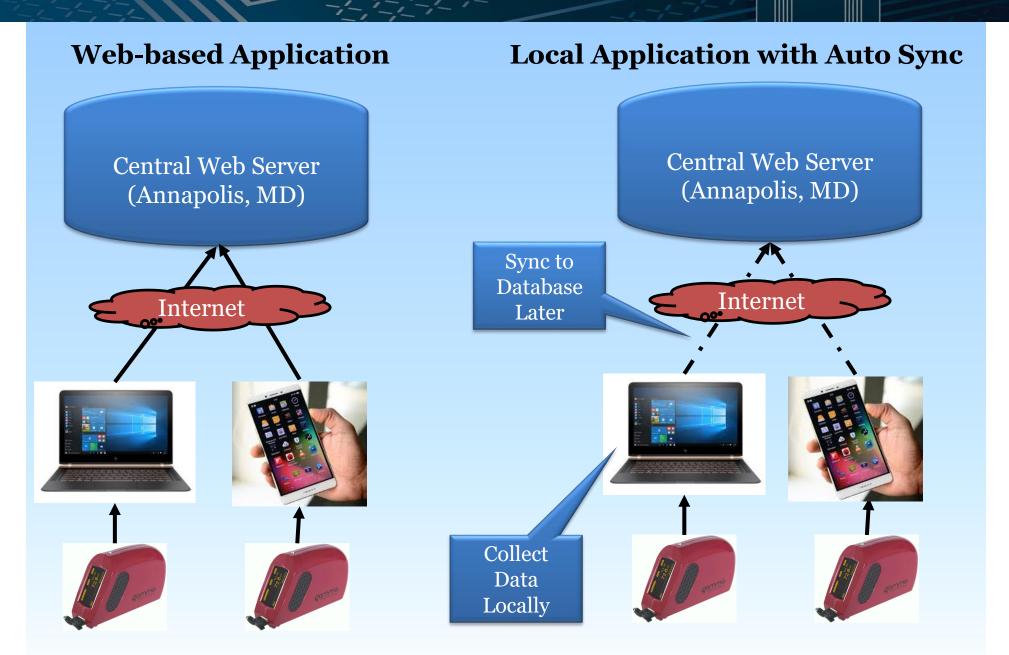
3D Technology for Prototype Development



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Multiple Uses

Menu		
NSN	Reference	Order Number
suit		
Enter Comments:		
Made to Measure Suit Made to Measure Suit		
Measurement		Value
Neck Circumference		
Shoulder Width		
Chest Circumference		
Arm Length Right		
Arm Length Left		
Waist Girth		
Inseam		
Outseam		
Clear All		Submit

ACCURACY. VISIBILITY. ACCOUNTABILITY.

Multiple Uses

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Arm Le	Measurement	Base	Minus Tolerance	Plus Tolerance	Value	Variance To Base
Arm Le	(A) Bottom of wrist to top of middle finger	8.8750	0.0000	0.0625		
Waist G	(B) Lowest point of crotch to top of first finger	3.0000	0.0000	0.0625		
Inseam	(C) Crotch to top of second finger	3.3750	0.0000	0.0625		
Outsear	(D) Crotch to top of third finger (E) Crotch to top of fourth finger	3.0000 2.2500	0.0000	0.0625		
Clear A	(F) Crotch between thumb and first to top of thumb	2.6250	0.0000	0.0625		
	(G) folded edge just above thumb crotch	4.0000	0.0000	0.0625		
	Clear All					Submit ^ ≝ ♥ @ 09:23 08:15/2017 ♥

ACCURACY. VISIBILITY. ACCOUNTABILITY.

Multiple Uses

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Naist G	(B) Lowest point o	Measurement	Base	Minus	Plus	Value	Variance	
	finger			Tolerance	Tolerance		To Base	
nseam	(C) Crotch to top c	Half Chest	20.2500	-0.7500	0.7500			
	(D) Crotch to top c	Peak Leweth	28.0000	-0.7500	0.7500			
Outsea	(E) Crotch to top c	Back Length	20.0000	-0.7500	0.7500			
		Sleeve Length - Right	23.2500	-0.7500	0.7500			
Clear A	(F) Crotch betwee of thumb	Sleeve Length - Left	23.2500	-0.7500	0.7500			
			0.0750	0.4050	0.4050			
	(G) folded edge ju	Collar Width	2.3750	-0.1250	0.1250			
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ACCURACY. VISIBILITY. ACCOUNTABILITY.

Multiple Uses

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Inseam	(C) Crotch to top c	Half Chest	ARMY Unisex OCP - Trousers MEDIUM-XSH	ORT				
0	(D) Crotch to top c	Back Length	Management	Dava		Disc	Malaa	Manianaa
Outsear	(E) Crotch to top c		Measurement	Base	Minus Tolerance	Plus Tolerance	Value	Variance To Base
Clear A	(F) Crotch betwee	Sleeve Length - R						TO Dase
	of thumb	Sleeve Length - L	1/2 Waist Relaxed	18.0000	-0.5000	0.5000		
		Collar Width	Inseam Left	29.0000	-0.7500	0.7500		
	(G) folded edge ju		Inseam Right	29.0000	-0.7500	0.7500		
	Clear All	Clear All	Outseam Left	39.5000	-0.7500	0.7500]
	\bullet o		Outseam Right	39.5000	-0.7500	0.7500		
			1/2 Leg Opening Left	9.0000	-0.5000	0.5000		
		■ ← 0	1/2 Leg Opening Right	9.0000	-0.5000	0.5000		
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Customizable Reports

			USMC	MARPAT		isers, V				
End Item:	USMC MA	ARPAT Trous	sers, Wood	lland - Un	isex					
Contract:	124012									
Spec. No./Da	ite:			C	Dispos	sition:	Accep	ted	Rejected	
Lot #: 2	Lot S	Size:	Sample	e Size: 4	1		Accep	ted	Rejected	
QC Auditor:						Date	:	3/2/2	2017 4:49:0	9 PM
Size	Tolerance	1/2 Waist Relaxed +1/2,-1/4	1/2 Waist Stretched NA		Ins Rig ±3/		Outseam Left ±3/4	Outseam Right ±3/4	1/2 Leg Opening Left ±1/2	1/2 Leg Opening Right ±1/2
S-L (10004)	Spec.	14	16	34.7	75	34.75	45.75	45.75	17	17
	Actual	15.16	16.1	33.4	13	31.46	44.21	49.33	14.69	16.61
	Variation	1.125	0.125	-1.37	75	-3.250	-1.500	3.625	-2.250	-0.375
XS-XS (rfid)	Spec.	12	14	28.7	75	28.75	37.75	37.75	17	17
	Actual	12.95	14.45	23.8	32	27.32	22.44	30.55	16.89	16.81
	Variation	1.000	0.500	-4.87	75	-1.375	-15.250	-7.250	-0.125	-0.250

Final Increation Depart

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Thank you for your Time



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