



Faculty of Engineering

Department of Textile Engineering

**Comparative Study on Measurements found in
Sample and Final Inspection**

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A thesis submitted in partial fulfillment of the requirements for the degree of
Bachelor of Science in Textile Engineering

Advance in Apparel Manufacturing Technology

November 14, 2021

Comparative Study on Measurements found in Sample and Final Inspection

LETTER OF APPROVAL

14 November, 2021

To

The Head

Department of Textile Engineering

Daffodil International University

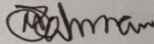
Daffodil Smart city, Ashulia, Dhaka, Bangladesh, Dhaka 1207

Subject: Approval of Project Report of B.Sc. in TE Program

Dear Sir,

I am just writing to let you know that this project report titled as "**Comparative Study on Measurements found in Sample and Final Inspection**" has been prepared by the student bearing ID' 173-23-5207 are completed for final evaluation. The whole report is prepared based on the proper investigation and interruption through critical analysis of empirical data with required belongings. The student were directly involved in their project activities and the report become vital to spark of many valuable information for the readers. Therefore, it will highly be appreciated if you kindly accept this project report and consider it for final evaluation.

Yours Sincerely



Engr. Md. Mominur Rahman

Assistant Professor

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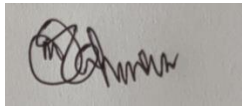
Comparative Study on Measurements found in Sample and Final Inspection

DECLARATION

I hereby declare that the work which is being presented in this thesis entitled, “**Comparative Study on Measurements found in Sample and Final Inspection**” is original work of my own, has not been presented for a degree of any other university and all the resource of materials uses for this thesis have been duly acknowledged.

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This is to certify that the above declaration made by the candidate is correct to the best of my knowledge.



Supervisor:
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I express my sincere gratitude to my father, mother, brother, sister and friends for their continued support, ideas and love during my studies.

Comparative Study on Measurements found in Sample and Final Inspection

ABSTRACT

This report presents the **Comparative Study on Measurements found in Sample and Final Inspection**. Has worked on this topic because through measurement can prepare comfortable and fit garments. It has been observed that it plays a major role in the Sample of Final Inspection section ,as well as the Cutting section and Sewing Section. Measurement of each point of Garments in these sections is seriously observed. And the garments are prepared according to that measurement. It has been done after each of these steps are ready is complete garments.

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Chapter 1
INTRODUCTION

Comparative Study on Measurements found in Sample and Final Inspection

1.1 Background of the Study

Measurements of a garments is one of the most important criteria for the right fitting of the apparel. The person who takes necessary measurements has to take extra precautions and also know some key parameters of garments measurement. The thesis paper is known as a research paper which provides sufficient information on a particular subject. My thesis paper contains **Comparative Study on Measurements found in Sample and Final Inspection**. Measurements found in Sample and Final Inspection is one of the most important factors in Textile sector. That's it, It is important to maintain quality in the textile sector as well as in garment production. So, I have selected this topic. I have worked on the point of measurement of different style garments. And with every point of measurement we have produced the right garments. As if it can be exported.

1.2 Objective Of the Study

- I. To know the Comparison of measurement in Sample and Final Inspection.
- II. To know the Average measurements found in Sample, For different size and maintains tolerance.
- III. To know the Average measurements found in Final Inspection, For different size, and maintains tolerance.

1.3 Importance of the Study

The importance of Measurement is immense for Finnish Garments. Among the reasons we can take the standard size of garments. Through proper measurement we can prepare fittings and comfortable garments. As if it is suitable for use. Measurement of the right size is a very important issue for the common man. Because you can make yourself smart by wearing the right size clothes. So proper measurement of suitable cloth is on the list of choice of common people. The most important aspect of garment experts is to determine the correct measurement of garments. And to determine the correct measurement, he follows different style of garment measurement and prepares it. You know, wearing it makes ordinary people feel comfortable and fit. It is important to accurately measure every industry or business to increase sales. Students need to learn to measure correctly. Because with this the garments are prepared. Students must learn to prepare garments with accurate measurement. So it is important to determine the measurement of finished garments.

1.4 Limitations Of the Study

1. If the measurement is not correct then it has to be changed again to make it accurate.
2. Measurement has to be done as per the instructions of the buyer otherwise it has to be taken back.

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3. There is some information that is limited to garments only. We do not get that information and there is a problem in writing the report.
4. There are many employees of Garments who do not understand our engineering and as a result there are many problems.
5. Cannot collect enough data due to lack of time.

Chapter 2
LITERATURE REVIEW

Comparative Study on Measurements found in Sample and Final Inspection

2.1 Measurement of Garments

Garment measurement techniques have been designed to show how and where to measure a wide variety of different measurement points on finished garments across all product areas. Garment measurement guidelines should be used when reviewing size specifications, measuring garments and also creating sample product. Measurements of garments can also contribute to minimize production time and reduce production cost. Every reputed garment manufacturing industry has a garment measurement department. They use some essential key points of measurement to get a perfect pattern and get a perfect sample. Methodically we use the same system of garments measurement to evaluate garment and that we use the same terminology to complete these measurements process. Traditionally tailors have accurately measured the human body size for garment making with measuring tape based on their experience. They recognized similarities between the garments they made for individuals and began to think in terms of proportionally scaled patterns for people of different sizes, known as “graded” sets of clothing sizes. As a result ready-to-wear is now the principle source of clothing production available to the global mass market. Efficient mass production of clothing requires a method of producing accurate size of garment which will fit properly. The traditional methods of body size measurement are time consuming, chances of human error, inaccuracies of measurement and most important is that one has to touch the body physically during body size measurement.

2.2 Preparation for Measuring Garments

1. Smooth and flat surface table must be used.
2. Garment must be buttoned and zipped unless otherwise specified
3. Garment with non-closure must be overlapped as specified
4. Carefully remove all folds, wrinkles or creases on garment without any distort.

2.3 How to Take Garment Measurement

Certain rules or guidelines should be followed in making measurements of garments so that all concerned use the same measurement methods or technique. A company should have the guidelines in writing and as a part of quality policy. Correctly measuring garments is essential to achieve the high quality garment.

2.4 Measuring Process

POM	Description	How to Measure
A	Half Waist	Measure flat across the back waistband from one side to the other with the natural dip. Double the number to get actual waist size.
B	Waist Band (WB) Height	Width of waist band at any point
C	Front Rise	Measure from the crotch seam to the top of the front waistband.

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D	Back Rise	Similar to the front rise, measure from the crotch seam to the top of the back waistband
E	Seat @25 cm from WB	Measure across the hip 25 cm below WB
F	Half Thigh	Width of leg at crotch point
G	Half Knee	Middle point from Half thigh to leg opening
H	Leg opening	Measure across the leg opening from side to side then double the number.
I	Out Seam with WB	Measure from the bottom of the leg to the upper edge of the waistband.
J	Inseam	Measure from the crotch seam to the bottom of the leg on the inside seam.
K	Front Pocket Opening	Curvy measurement of the opening area of front pocket
L	Coin Pocket Length	Length of the pocket which stays at the face of the back pocket
M	Coin Pocket Width	Width of the coin pocket
N	J-Stitch Length	Straight length of J- stitch
O	Zipper Length	Starting point of zipper to end point of zipper
P	Zipper Fly Width	Width of zipper fly
Q	Back Pocket Length	Length of back pocket
R	Back Pocket Width	Width of back width
S	Back Yoke Length	Longest distance of yoke
T	Back Yoke Width	Width of yoke
U	Loop Length	Length of loop
V	Loop Width	Width of loop
W	Pocket Bag Width	Width of pocket bag
X	Pocket Bag Length	Length of pocket bag

2.5 Measurements Inspection Procedure

- I. Specify the name of the QC inspector, date of the inspection and supplier name.
- II. Specify the order number, color, quantity and delivery date.
- III. Specify the sizes that need to be measured, the code (symbol) for every measuring position and measurement in cm (inch).
- IV. Specify the tolerance limit for every measurement.

2.6 Measurement Tolerance Limit of Garments

There is a certain tolerance limit for Garments measurement fixed by the buyer. Tolerance limit has lower and upper limits, allowed measured value limit between maximum and minimum of fixed requirement.

CHAPTER 3
EXPERIMENTAL DETAILS

Comparative Study on Measurements found in Sample and Final Inspection

3.1 Measurement Analysis of style TX 23292


3.1.1 Order Details

Table 3.1 Order Details

ORDER NR.	TX 23292	STYLE	STRETCH DENIM
ART. NR.	-	DATE	22 JUNE 2021
DESCRIPTI ON	BOYSDENIM PANTSREV 23-8		

1. ART.NR.		2. STYLE	
-------------------	--	-----------------	--

3. FULL DESCRIPTION
<p>KIDSBOYS JOGG DENIM PANTS</p> <p>PLEASE FOLLOW SHIPMENT SAMPLE TX 22013, SHIPMENT SAMPLE TX 23016 IN DARK BLUE COLOUR, COLLECTION SAMPLE TOKIO 33 AND ARTWORKS</p>

4. ACCESSORIES	
A. BUTTON	NO
B. HOOK & EYE	NO
C. JEANS BUTTON	NO
D. RIVET	<p>2 PCS 'PNCH' EMBOSSED METAL RIVETS (9 MM) AT FRONT POCKETS.</p> <p>- MID TOWEL: OLD SILVER COLOUR</p> <p>- TIE BLUE: ANTIQUE BRASS COLOUR</p> 
E. EYELETS	NO
F. ZIPPER	NO
G. STITCHING	<p>HEAVY YARN (20/4) ALLOVER STITCHING IN:</p> <p>- MID TOWEL: COATS COLOUR C7933</p> <p>- TIE BLUE: COATS COLOURS OH113 AND C2336.</p> <p><u>PLS USE FEED OF THE ARM STITCHES AND FOLLOW 7 SPI ALL OVER.</u></p>
H. BARTACKS	<p>ALL OVER BARTACKS IN:</p> <p>- MID TOWEL: COATS COLOUR C7933 AND SAFETY</p>

Comparative Study on Measurements found in Sample and Final Inspection

	<p>YELLOW 13-0630 TN</p> <ul style="list-style-type: none"> - TIE BLUE: COATS COLOUR C2336 AND SHOCKING ORANGE 15-1360 TN ZIGZAG STITCH IN COLOURS: -MID TOWEL: SAFETY YELLOW 13-0630 TN - TIE BLUE: SHOCKING ORANGE 15-1360 TN <p>EMBROIDERED HOLES FOR DRAWSTRING IN COATS COLOURS:</p> <ul style="list-style-type: none"> - MID TOWEL: COATS COLOUR C7933 - TIE BLUE: COATS COLOUR C7939
I. HANGERLOOPS	NO
J. ELASTIC	1 PC GOOD QUALITY ELASTIC AT INSIDE WAISTBAND.
K. DRAWSTRING	<p>1 PC GOOD QUALITY SHOE LACE DRAWSTRING WITH PLASTIC AGLET ENDINGS. DRAWSTRING MUST BE FIXED AT C/B. VISIBLE TAPE LENGTH AT FRONT W/B MUST BE FOR SURE NOT LONGER THAN 17 CM. QUALITY AND OUTLOOK SHOULD BE EXACT THE SAME AS SHIPMENT SAMPLE TX 22013. FOR COLOURS PLEASE FOLLOW:</p> <ul style="list-style-type: none"> - MID TOWEL: SAFETY YELLOW 13-0630 TN AND BLACK - TIE BLUE: SHOCKING ORANGE 15-1360 TN AND BLACK

5. LABELLING	
A. FANCY LABEL	<p>'PNCH-20' WOVEN LOOP LABEL UNDERNEATH FRONT POCKET AT LEFT SIDE SEAM (WHEN WORN). SEE ARTWORKS FOR PLACEMENT. COLOURS:</p> <ul style="list-style-type: none"> - MID TOWEL: SAFETY YELLOW 13-0630 TN - TIE BLUE: SHOCKING ORANGE 15-1360 TN
B. BRAND LABEL	WOVEN LABEL 'PNCH-07' MUST BE FIXED INSIDE C/B W/B.
C. SIZE LABEL	WOVEN SIZE LABEL 'PNCH-06' . PLEASE PLACE LEFT FROM BRAND LABEL (WHEN WORN).
D. S/Q LABEL	'CARE LABEL' INSIDE LEFT SIDE SEAM WHEN WORN, 10 CM UNDER TOP W/B. PLS USE SATIN POLYESTER QUALITY. COLOUR SHOULD BE WHITE WITH BLACK PRINT.
E. HANGTAG	<ul style="list-style-type: none"> - MAIN HANGTAG 'PNCH-02' GUNTAGGED AT LEFT SIDE SEAM WHEN WORN JUST UNDER THE W/B. - JOGG DENIM HANGTAG 'PNCH-19' - CAUTION HANGTAG 'PNCH-01' FOR MID TOWEL COLOUR

Comparative Study on Measurements found in Sample and Final Inspection

	<u>ONLY!</u> <u>HANGTAG PLACEMENT FROM TOP TO BOTTOM: PRICE TICKET, JOGG DENIM PNCH-19, CAUTION PNCH-01 AND MAIN HANGTAG PNCH-02</u>
F. FIT TAG	PULL ON SLIM FIT TAG 'PNCH-26' ATTACHED AT LEFTFRONT W/B WHEN WORN. EVERY SIZE DOES HAVE A DIFFERENT FIT TAG.
G. W/B LABEL	NO
H. HANGER	NO
I. PRICE TICKET	PRICETICKET GUNTAGGED AT LEFT SIDESEAM WHEN WORN JUST UNDER THE W/B. PRICE TICKET SHOULD ALWAYS BE ON TOP OF ALL HANGTAGS. BARCODE MUST ALWAYS BE VISIBLE AND READABLE. PLS DEVELOP BY YOURSELF.
J. WOVEN LABEL	NO
K. SIZE STICKER	NO
L. PRINT	NO

6. MEASUREMENT FOR SAMPLING

WILL BE SEND OUT SEPERATELY

7. FABRIC / COLOUR REFERENCE / SWATCHES

72% COTTON, 26% POLYESTER, 2% ELASTHAN TTC 512 AMBER DENIM #DOB50359SF 9.25 OZ

POCKETING: 65% POLYESTER, 35% COTTON

8. WASHING

- MID TOWEL: TOWEL WASH WITH CHEMICAL, WRINKLING AT HIPS AND DESTROY (NO HOLES) AS COLLECTION SAMPLE TOKIO 33
 - TIE BLUE: SLIGHTLY BLEACH WASH WITH CHEMICAL, MOUSTACHE, TIE EFFECT AND WRINKLING AT HIPS SAME AS SHIPMENT SAMPLE TX 23016 IN DARK BLUE COLOUR.

9. PACKING INSTRUCTION

Comparative Study on Measurements found in Sample and Final Inspection

DELIVERED WITH LEFT LEG TWO TIMES ROLLED UP.

EACH PANT NICELY FOLDED. PANT SHOULD BE ROLLED UP **BUT WITHOUT A WHITE COTTON CORD!** EACH UNIT =12 PCS. ASSORTED SIZE, ASSORTED COLOUR PACKED INTO A RE-USABLE POLYBAG WITH 3 IMPRINTED LOGO'S. THEN PUT AS MANY UNITS AS YOU CAN FIT INTO A 7-PLY EXPORT CARTON WITHIN BELOW GIVEN MEASUREMENT REQUIREMENTS. PLS PLACE CARTON LABEL ON SHORT SIDE OF THE BOX (SEE IMAGE ON PAGE 5), TAKE CARE ALL IS PERFECTLY READABLE! SHIPPING UNASSORTED CARTONS IS NOT ALLOWED. DO NOT SHIP ANY AIR.

- FIXED CARTON MEASUREMENTS: 58 X 38 CM HEIGHT S/B BETWEEN 20 AND 40 CM
- MAX CARTON WEIGHT 16 KG
- NO STRAPS ALLOWED

Describe the order details :

This is kids boys jogg denim pants. Accessories has been used rivet, stitching, barracks, elastic, drawstring, As rivet(9 mm) is used metal two different colors old silver color, and antique brass color, Heavy yarn (20/4) allover stitching ,coats color c7933,coats colors oh113 and c2336. Here, to use 1 pc good quality elastic inside waistband on the pants. To use 1 pc good quality shoe lace drawstring with plastic aglet endings. Drawstring must be fixed at c/b. visible tape length at front w/b must be for sure not longer than 17 cm. There are seven types of leveling in these pant. Example: fancy label, brand label, size label, care label, hang tag, fit tag price ticket. This panty has been used as a fancy level design 'pnch-20'. And used as a brand label woven label 'pnch-07' must be fixed inside c/b w/b. Used to size label must be woven size label design 'pnch-06.place left from brand label.Care label' use to inside left side seam when worn, 10 cm under top w/b. Use satin polyester quality. Colour should be white with black print. Use - MAIN HANGTAG design 'PNCH-02.JOGG DENIM HANGTAG design 'PNCH-19'.- CAUTION HANGTAG design 'PNCH-01.Top Hangout Location: Price Ticket, Jug Denim PNCH-19, Warning PNCH-01 and Main Hangtag PNCH-02.Price tickets should always be on top of all hangouts. Barcodes must always be visible and readable. Fabric must be 72% cotton, 26% polyester, 2% Easthan ttc 512 amber denim. Of course before packaging, delivered with left leg two times rolled up .each pant nicely folded. pant should be rolled up but without a white cotton cord! each unit =12 pcs.

3.1.2 Artwork

Comparative Study on Measurements found in Sample and Final Inspection

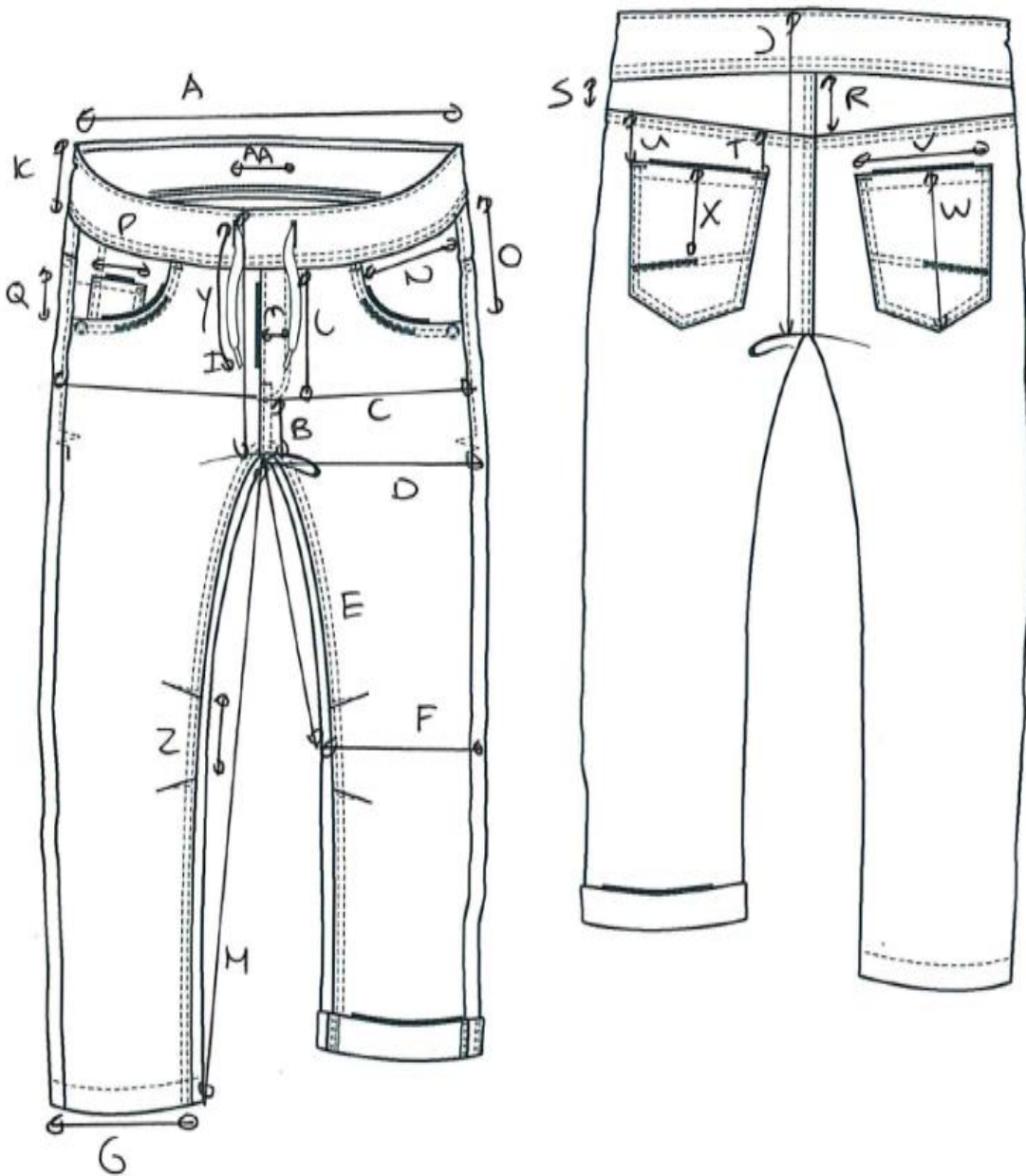


Figure 3.1 Artwork style TX 23292

Table 3.2..Artwork Specification (style TX 23292)

A. ½ WAIST RELAXED	J. BACKRISE INCLW/B	S.BACKYOKE HEIGHT AT SIDE
B .HIP MEASURED FROM CROTCH	K. WAISTBAND HEIGHT	T.BACK YOKE TO BACK POCKET AT CENTRE
C. ½ HIP	L. FLY LENGTH <u>EXCL</u> W/B	U.BACKYOKE TO BACKPOCKET AT SIDE

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D. ½ THIGH AT CROTCH	M. FLY WIDTH (incl 2 needle)	V. BACKPOCKET WIDTH, changed into same as FAS.
E. CROTCH TO 1/2 KNEE	N. FRONT POCKET WIDTH	W. BACKPOCKET HEIGHT AT LONGEST PART
F. ½ KNEE	O. FRONT POCKET HEIGHT	X. TOP BACK POCKET UNTIL STITCHING measured in the centre
G.½ LEGOPENING	P.COIN POCKET WIDTH, changed into same as FAS.	Y. TAPES AT W/B LENGTH
H. INSEAM	Q. COIN POCKET HEIGHT	Z.HEIGHT BETWEEN KNEE DARTS AT INSEAM, changed into same as FAS.
I. FRONTRISE INCL W/B	R. BACK YOKE HEIGHT AT C/B	AA.DISTANCE BETWEEN THE HOLES AT WAISTBAND

Table 3.2.... Above, I see 27 types of measurements in the artwork table.

3.1.3 Measurement Sheet

Table 3.3 Measurement Sheet (Style TX 23292)

STYLESTRETCH DENIM	92/98	104	110	116	122	128	TOLERANCE
A. ½ WAIST RELAXED	26,5	27	27,5	28	28,5	29	+/- 0,3 CM
B. HIP MEASURED FROM CROTCH	5,55	5,7	5,85	6	6,15	6,3	FIX
C. ½ HIP	30,5	31,5	32,5	33,5	34,5	35,5	+/- 0,5 CM
D. ½ THIGH AT CROTCH	18	18,5	19	19,5	20	20,5	+/- 0,3 CM
E. CROTCH TO 1/2 KNEE	15,5	17	18,5	20	21,5	22	FIX
F. ½ KNEE	12	12,5	13	13,5	14	14,5	+/- 0,3 CM
G. ½ LEGOPENING	11	11,5	12	12,5	13	13,5	+/- 0,3 CM
H. INSEAM	39,5	43	46,5	50	53,5	57	+/- 1 CM
I. FRONTRISE INCL W/B	16,8	17,4	18	18,6	19,2	19,8	+/- 0,3 CM
J. BACKRISE INCLW/B	24,3	25	25,7	26,4	27,1	27,8	+/- 0,3 CM
K. WAISTBAND HEIGHT	3,5	3,5	3,5	3,5	3,5	3,5	+/- 0,2 CM

STYLE DETAILS	92/98	104	110	116	122	128	TOLERANCE
L. FLY LENGTHEXCL W/B	8	8,5	8,5	9	9	9,5	+/- 0,2 Cm
M.FLY WIDTH (incl 2 needle)	3,2	3,2	3,2	3,2	3,2	3,2	+/- 0,2 Cm

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N. FRONT POCKET WIDTH	7	7,5	7,5	8	8	8	+/- 0,2 Cm
O. FRONT POCKET HEIGHT	5,5	6	6	6,5	6,5	6,5	+/- 0,2 Cm
P. COIN POCKET WIDTH, changed into same as FAS.	4	4,5	4,5	5	5	5	+/- 0,2 Cm
Q. COIN POCKET HEIGHT	Should run at same height as back yoke height at side						Fix
R. BACK YOKE HEIGHT AT C/B	3,2	3,5	3,5	3,8	3,8	4	+/- 0,2 Cm
S. BACKYOKE HEIGHT AT SIDE	2,2	2,5	2,5	2,8	2,8	3	+/- 0,2 Cm
T. BACK YOKE TO BACK POCKET AT CENTRE	3	3	3	3	3	3	+/- 0,2 Cm
U. BACKYOKE TO BACKPOCKET AT SIDE	3,5	3,5	3,5	3,5	3,5	3,5	+/- 0,2 Cm
V. BACKPOCKET WIDTH, changed into same as FAS.	10,5	11	11	11,5	11,5	12	+/- 0,2 Cm
W. BACKPOCKET HEIGHT AT LONGEST PART	12	12,5	12,5	13	13	13,5	+/- 0,2 Cm
X. TOP BACK POCKET UNTIL STITCHING measured in the centre	7	7,5	7,5	8	8	8,5	+/- 0,2 Cm
Y. TAPES AT W/B LENGTH	17	17	17	17	17	17	Fix but for sure not longer than 17 cm!
Z. HEIGHT BETWEEN KNEE DARTS AT INSEAM, changed into same as FAS.	5,5	6	6,5	7	7,5	8	+/- 0,2 Cm
AA. DISTANCE BETWEEN THE HOLES AT WAISTBAND	5,5	5,5	5,5	5,5	5,5	5,5	+/- 0,2 Cm

Table 3.3 shows measurements sheet of this style... TX 23292.....

It has been observed this table different six size label pant. And each 6 size pants ,there are also different number, points of measurement (POM.). Example,92/98 size ,104 size, 110 size, 116 size, 122 size, 128 size,Respectively, ½ WAIST RELAXED 26.5cm, 27 cm, 27.5 cm, 28 cm, 28.5 cm, 29 cm. HIP MEASURED FROM CROTCH respectively 5.55 cm, 5.75 cm, 5.85 cm, 6 cm 6.15 cm, 6.3 cm. And respectively ½ HIP 30.5 cm ,31.5 cm ,31.5 cm, 33.5 cm, 34.5 cm 35.5 cm Etc.

Tolerance again respectively : +/- 0.3 cm, +/- 0.5 cm. +/- 1 cm. +/- 0.2 cm. In which case the tolerance will be fixed.

Comparative Study on Measurements found in Sample and Final Inspection

3.1.4 Measurement Checking in Sample

TEXSPORT B.V.

A/WASIT
SIZE SET (D)
D - BLUE
7-9-21

FAST SIZE 6 SET
B/Y W/W/W/W
C - BLUE
06.09.2021

ORDER NR.	TX 23292	STYLE	STRETCH DENIM										
ART. NR.		DATE	22 JUNE 2021										
DESCRIPTION	BOYS DENIM PANTS	X 6	REV 23-8										
STYLE STRETCH DENIM	92/9	104	110	116	122	128						Tolerance	
A. 1/2 WAIST RELAXED	26,5	27	27,5	28	28,5	29	+6					+/- 0,3 cm	
B. HIP MEASURED FROM CROTCH	5,55	5,7	5,85	6	6,15	6,3						Fix	
C. 1/2 HIP	30,5	31,5	32,5	33,5	34,5	35,5	+2					+/- 0,5 cm	
D. 1/2 THIGH AT CROTCH	18	18,5	19	19,5	20	20,5	+1,5					+/- 0,3 cm	
E. CROTCH TO 1/2 KNEE	15,5	17	18,5	20	21,5	22						Fix	
F. 1/2 KNEE	12	12,5	13	13,5	14	14,5	+1					+/- 0,3 cm	
G. 1/2 LEGOPENING	11	11,5	12	12,5	13	13,5	+1					+/- 0,3 cm	
H. INSEAM	39,5	43	46,5	50	53,5	57	+4					+/- 1 cm	
I. FRONTRISE INCL W/B	16,8	17,4	18	18,6	19,2	19,8	+1,5					+/- 0,3 cm	
J. BACKRISE INCL W/B	24,3	25	25,7	26,4	27,1	27,8	+1,5					+/- 0,3 cm	
WAISTBAND HEIGHT	3,5	3,5	3,5	3,5	3,5	3,5						+/- 0,2 cm	

STYLE DETAILS	92/9	104	110	116	122	128						Tolerance
L. FLY LENGTH EXCL W/B	8	8,5	8,5	9	9	9,5	+1					+/- 0,2 cm
M. FLY WIDTH (incl 2 needle)	3,2	3,2	3,2	3,2	3,2	3,2	+1					+/- 0,2 cm
N. FRONT POCKET WIDTH	7	7,5	7,5	8	8	8	+2					+/- 0,2 cm
O. FRONT POCKET HEIGHT	5,5	6	6	6,5	6,5	6,5	+1					+/- 0,2 cm
P. COIN POCKET WIDTH, changed into same as FAS.	4	4,5	4,5	5	5	5	+1					+/- 0,2 cm
Q. COIN POCKET HEIGHT		Should run at same height as back yoke height at side										Fix
R. BACK YOKE HEIGHT AT C/B	3,2	3,5	3,5	3,8	3,8	4	+1					+/- 0,2 cm
S. BACK YOKE HEIGHT AT SIDE	2,2	2,5	2,5	2,8	2,8	3	+1					+/- 0,2 cm
T. BACK YOKE TO BACK POCKET AT CENTRE	3	3	3	3	3	3	+1					+/- 0,2 cm
U. BACK YOKE TO BACKPOCKET AT SIDE	3,5	3,5	3,5	3,5	3,5	3,5	+1					+/- 0,2 cm
V. BACK POCKET WIDTH, changed into same as FAS.	10,5	11	11	11,5	11,5	12	+1					+/- 0,2 cm
W. BACK POCKET HEIGHT AT LONGEST PART	12	12,5	12,5	13	13	13,5	+1					+/- 0,2 cm
X. TOP BACK POCKET UNTIL STITCHING measured in the centre	7	7,5	7,5	8	8	8,5	+1					+/- 0,2 cm
Y. TAPES AT W/B LENGTH	17	17	17	17	17	17						Fix but for same not longer than 17 cm!
Z. HEIGHT BETWEEN KNEE DARTS AT INSEAM, changed into same as FAS.	5,5	6	6,5	7	7,5	8	+1,5					+/- 0,2 cm
AA. DISTANCE BETWEEN THE HOLES AT WAISTBAND	5,5	5,5	5,5	5,5	5,5	5,5						+/- 0,2 cm

* WAIST - 1 cm
 * HIP - 1 cm ALL
 * THIGH - 1,5 cm ALL
 * KNEE - 1,5 cm ALL
 * BACKRISE - 1 cm ALL

150 Pes cutting ok
 07-09-21
 7/10/21

Figure 3.1: Scan copy of measurement checking of sample

Describe the measurement checking of sample

It has been observed this Figure 3.1. In the above picture three different sized samples have been taken and measured.

1st size set sample number 104 .

Given, 1/2 HIP 31.5 cm. . But tolerance increases by +1.5cm . So 1/2 hip increases 33cm. ..[If tolerance is given here +/- 1 , +/- .3, +/- .5cm. But the buyer is asking for a +/- 2 , +/- 1, +/- 1.5, +/- .5centimeter increase in all of them here. And if we do not talk about increasing tolerance, then it must be maintained]. And 1/2 thigh at crotch 18.5cm. But +.5cm tolerance increases by 1/2 thigh at crotch 19cm.. 1/2 Knee 12.5cm. But 1.5 tolerance decreases by 1/2 Knee 14 cm. So, Here the value of the tolerance of the sample has increased which needs to be fixed again. Where the value of tolerance will be +/- 0.3cm. There was inseam 43cm. But +.1 tolerance increases by inseam 43.1cm. Back rise incl w/b 24.5cm. But +1cm tolerance increases by back rise incl w/b

Comparative Study on Measurements found in Sample and Final Inspection

25.5cm.

And all other measurements are OK.

[The highest tolerance has increased here in the Inseam. Inseam 43cm +1cm tolerance =44cm. The lowest tolerance has decreased here in the ½ Thigh at crotch . ½ Thigh at crotch 18.5cm+.5cm tolerance =19cm.]

2nd size set sample number 116

Given. ½ hip 33.5cm But tolerance increase by+1cm. So The increases of ½ hip 34.5cm. The same way, Tolerance +.5cm, As a result ½ Thigh crotch increase by20 cm. . ½ Knee 13.5 cm. But+.8 tolerance increases by½ Knee14.3 cm. So, Here the value of the tolerance of the sample has increased which needs to be fixed again. Where the value of tolerance will be +/-0.3cm. Given. ½ leg opening12.5 cm. But tolerance increases by+.5cm. . As a result ½ leg opening13 cm..Same case, Back rise inclw/b 26.4 cm, But +.5cm tolerance increases by back rise inclw/b 26.9 cm . There was front pocket width at 8 cm. -1 tolerance decreases by front pocket width 7cm.Back pocket height at longest part 13cm. , tolerance increases by+.5cm .So, Here the value of the tolerance of the sample has increased which needs to be fixed again. Where the value of tolerance will be +/-0.2cm.

And all other measurements are OK.

[The highest tolerance has increased here in the Inseam. Inseam 50cm +1cm tolerance =51cm. The lowest tolerance has decreased here in the Front pocket width 8cm-1cm tolerance =7cm.]

3rd size set sample number 128

Give., ½ hip 35.5cm But tolerance increases by+1cm. So, The increases ½ hip 36.5cm. The same way, Tolerance increases by +.5cm, As a result½ thigh at crotch increase 20.5 cm. .. ½ Knee+.1cm tolerance increases.. So The increases½ knee ½14.6cm. There was inseam 57cm. +1 tolerance increases inseam 58cm. Given. front rise inclw/b 19.8 cm. But tolerance increases by+.5cm. . As a result 20.3cm front rise inclw/b. ..[If tolerance is given here +/-1 ,+/- .3, +/- .5cm. But the buyer is asking for a +/-2 ,+/-1, +/-1.5,+/- .5centimeter increase in all of them here. And if we do not talk about increasing tolerance, then it must be maintained].Back rice incl w/b +1cm tolerance increase by Back rice 27.9 cm.In this same process fly length excl w/b +1cm tolerance increase by fly length excl w/b 10 cm.Fly width (incl 2 needle) +.3cm tolerance increase by fly width 3.5 cm.Front pocket width 8 cm, but +.2cm tolerance increase by front pocket width 8.2cm.front pocket height 6.5 cm, but , but +.1cm tolerance increase by front pocket 6.6 cm.**Coin pocket width, changed into same as FAS 5 cm, but** +.4cm tolerance increase by 5.4 cm. . But the value of tolerance must be +/-2 cm . So, Here the value of the tolerance maintain againBack yoke height at c/b 3.8 cm, but, +.1cm tolerance increase by back yoke height at C/B 3.9 cm.Back yoke height at side 3cm but, +.1cm tolerance increase by back yoke height at side 3.1 cm.Back pocket height at longest part 13.5 cm. ,But +.1cm tolerance increase by Back pocket height at longest part 13.6 cm . Height between knee darts at inseam, changed into same as fas 8 cm. But +1.5cm tolerance increase by 9.5cm ..

Comparative Study on Measurements found in Sample and Final Inspection

And all other measurements are OK.

[The highest tolerance has increased here in the Inseam. Inseam 57cm +1cm tolerance =58cm. The lowest tolerance has decreased here in the Fly width 3.2cm+.3cm tolerance =3.5cm.]

3.1.5 Measurement Checking in Final Inspection

*A/WASH
2nd SIZE set D. BLUE
09-09-21*

SIZE SET (2)
B/WASH
08.09.2021

TEXSPORT B.V.

ORDER NR.	TX 23292	STYLE	STRETCH DENIM	
ART. NR.		DATE	22 JUNE 2021	
DESCRIPTION	BOYS DENIM PANTS			
		REV 23-8		

STYLE STRETCH DENIM	92/9	104	110	116	122	128	Tolerance
A. 1/2 WAIST RELAXED	26,5	27	27,5	28	28,5	29	+/- 0,3 cm
B. HIP MEASURED FROM CROTCH	5,55	5,7	5,85	6	6,15	6,3	Fix
C. 1/2 HIP	30,5	31,5	32,5	33,5	34,5	35,5	+/- 0,5 cm
D. 1/2 THIGH AT CROTCH	18	18,5	19	19,5	20	20,5	+/- 0,3 cm
E. CROTCH TO 1/2 KNEE	15,5	17	18,5	20	21,5	22	+/- 0,3 cm
F. 1/2 KNEE	12	12,5	13	13,5	14	14,5	+/- 0,3 cm
G. 1/2 LEG OPENING	11	11,5	12	12,5	13	13,5	+/- 1 cm
H. INSEAM	39,5	43	46,5	50	53,5	57	+/- 0,3 cm
I. FRONT RISE INCL W/B	16,8	17,4	18	18,6	19,2	19,8	+/- 0,3 cm
J. BACK RISE INCL W/B	24,3	25	25,7	26,4	27,1	27,8	+/- 0,3 cm
K. WAISTBAND HEIGHT	3,5	3,5	3,5	3,5	3,5	3,5	+/- 0,2 cm

STYLE DETAILS	92/9	104	110	116	122	128	Tolerance
L. FLY LENGTH EXCL W/B	8	8,5	8,5	9	9,5	9,5	+/- 0,2 cm
M. FLY WIDTH (incl 2 needle)	3,2	3,2	3,2	3,2	3,2	3,2	+/- 0,2 cm
N. FRONT POCKET WIDTH	7	7,5	7,5	8	8	8	+/- 0,2 cm
O. FRONT POCKET HEIGHT	5,5	6	6	6,5	6,5	6,5	+/- 0,2 cm
P. COIN POCKET WIDTH, changed into same as F.A.S.	4	4,5	4,5	5	5	5	Fix
Q. COIN POCKET HEIGHT			Should run at same height as back yoke height at side				Fix
R. BACK YOKE HEIGHT AT C/B	3,2	3,5	3,5	3,8	3,8	4	+/- 0,2 cm
S. BACK YOKE HEIGHT AT SIDE	2,2	2,5	2,5	2,8	2,8	3	+/- 0,2 cm
T. BACK YOKE TO BACK POCKET AT CENTRE	3	3	3	3	3	3	+/- 0,2 cm
U. BACK YOKE TO BACK POCKET AT SIDE	3,5	3,5	3,5	3,5	3,5	3,5	+/- 0,2 cm
V. BACK POCKET WIDTH, changed into same as F.A.S.	10,5	11	11	11,5	11,5	12	+/- 0,2 cm
W. BACK POCKET HEIGHT AT LONGEST PART	12	12,5	12,5	13	13	13,5	+/- 0,2 cm
X. TOP BACK POCKET UNTIL STITCHING measured in the centre	7	7,5	7,5	8	8	8,5	+/- 0,2 cm
Y. TAPES AT W/B LENGTH	17	17	17	17	17	17	Fix but for same not longer than 17 cm!
Z. HEIGHT BETWEEN KNEE DARTS AT INSEAM, changed into same as F.A.S.	5,5	6	6,5	7	7,5	8	+/- 0,2 cm
AA. DISTANCE BETWEEN THE HOLES AT WAISTBAND	5,5	5,5	5,5	5,5	5,5	5,5	+/- 0,2 cm

*14-20cm
full cutting
ok. (Dobby)
09/09-21*

*4 HIP + .5 cm SIZE (116 - 128) 09/21/21
1116H + .5 cm " (116 - 128)*

*C/R OK
09-09-21*

Figure 3.1: Scan copy of measurement checking of Final Inspection

Describe the measurement checking of Final Inspection

It has been observed this Figure 3.1 . In the above picture three different sized have Final Inspection been taken and measured.

Comparative Study on Measurements found in Sample and Final Inspection

Pant size number 104

There was measurement $\frac{1}{2}$ waist relaxed 27cm. But $-.5$ tolerance decreases by $\frac{1}{2}$ waist relaxed 26.5cm. In exactly the same way, There was $\frac{1}{2}$ hip 31.5 cm. . But $+.5$ cm tolerance increases by $\frac{1}{2}$ hip 32cm. There was inseam 43cm. But $+.5$ tolerance increases by inseam 43.5cm. And $-.4$ cm tolerance decreases by front rise incl w/b 17cm.

And all other measurements are OK.

[The highest tolerance has increased here in the Inseam. Inseam 43.5cm $+.5$ cm tolerance =44cm.The lowest tolerance has decreased here in the front rise incl w/b 17.4cm $-.4$ cm tolerance =17cm.]

Pant size number 116

There was measurement $\frac{1}{2}$ waist relaxed 28cm. But $-.5$ tolerance decreases by $\frac{1}{2}$ waist relaxed 27.5cm. In exactly the same way, There was $\frac{1}{2}$ hip 33.5 cm. . But $-.5$ cm tolerance decreases by $\frac{1}{2}$ hip 33cm. There was $\frac{1}{2}$ leg opening 12.5cm. But $-.5$ cm tolerance decreases by $\frac{1}{2}$ leg opening 12cm. Front rise incl w/b 18.6cm, $+.4$ cm tolerance increases by front rise incl w/b 19cm. Back rise inclw/b 26,4cm But , $+.4$ cm tolerance increases 26.8cm.

And all other measurements are OK.

[The highest tolerance has increased here in the Back rise inclw/b 26,4cm $+.4$ cm tolerance =27cm.The lowest tolerance has decreased here in the $\frac{1}{2}$ leg opening 12.5cm $-.5$ cm tolerance =112cm.]

Pant size number 128

Given ,there was measurement $\frac{1}{2}$ waist relaxed 29cm. But $-.1$ tolerance decreases by $\frac{1}{2}$ waist relaxed 28.9cm. In exactly the same way, There was $\frac{1}{2}$ hip 35.5 cm. . But $-.5$ cm tolerance decreases by $\frac{1}{2}$ hip 35cm. $\frac{1}{2}$ Thigh at crotch 20.5 cm. But $-.5$ cm tolerance decreases by $\frac{1}{2}$ thigh at crotch 20cm. There was $\frac{1}{2}$ leg opening 13.5cm. But $-.5$ cm tolerance decreases 13cm. Inseam 57cm. But $-.5$ tolerance increases by inseam 57.5cm Front rise incl w/b 19.8cm, $-.3$ cm tolerance decreases by front rise incl w/b 19.5cm. Back rise inclw/b 27.8cm.But , $+.3$ cm tolerance increases 28.1cm.And all other measurements are OK

[The highest tolerance has increased here in the Inseam. Inseam 57cm $+.5$ cm tolerance =58cm.The lowest tolerance has decreased here in the front rise incl w/b 19.8cm $-.3$ cm tolerance =19.5cm.]

3.2 Measurement Analysis of style TX 23320

3.2.1 Order details

Table 3.2Order Details (TX 23320)



ORDER NR.		STYLE	TX 23320
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Comparative Study on Measurements found in Sample and Final Inspection

ART. NR.	048 4501535682	335624/	DATE	11 JUNE 2021
DESCRIPTION	BABY BOYS DENIM PANTS			

1. ART.NR.	048 4501535682	335624/	2. STYLE	TX 23320
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3. FULL DESCRIPTION
BABY BOYS DENIM PANTS
TWINSTYLE WITH TX 23320, PLS SEND FAS TOGETHER.

4. ACCESSORIES	
L. BUTTON	NO
M. PRESS BUTTON	NO
N. JEANS BUTTON	NO
O. RIVET	2PCS OLD SILVER COLOUR 'PNCH-78' RIVETS (6MM) AT FRONTPOCKETS 
P. EYELETS	2 PCS OLD SILVER COLOUR 'PNCH' EYELETS (15MM) AT FRONT WAISTBAND 
Q. ZIPPER	NO
R. STITCHING	BLEACH TOWEL: HEAVY YARN (20/4) ALLOVER STITCHING IN COATS COLOUR C7939 (AS HONGKONG 6B). GREY: HEAVY YARN (20/4) ALLOVER STITCHING IN COATS COLOUR GA301 (AS LIMA 12). - <u>PLS FOLLOW 7 SPI ALL OVER AND USE FEED OF THE ARM STITCHES.</u>

Comparative Study on Measurements found in Sample and Final Inspection

S. BARTACKS	BLEACH TOWEL: ALL OVER BARTACKS IN COATS COLOUR C7939 (AS HONGKONG 6B). GREY: ALL OVER BARTACKS IN COATS COLOUR GA301 (AS LIMA 12).
T. HANGERLOOPS	NO
U. ELASTIC	- 1 PC FULL ELASTIC IN MATCHING CLR AT INSIDE W/B. - 2 PCS ELASTIC FOR INSIDE CUFF AT LEG OPENINGS
V. DRAWSTRINGS	1 PC GOOD QUALITY SHOE LACE TAPE IN CLR BLACK AND SAFETY YELLOW 13-0630 TN WITH PLASTIC TAPE ENDINGS. FOLLOW ARTWORKS, FOR STYLE FOLLOW TX 22582. TAPE MUST BE FIXED AT C/B. VISIBLE TAPE LENGTH AT FRONT W/B MUST BE FOR SURE NOT LONGER THAN 14 CM.

5. LABELLING	
M. FANCY LABEL	'PNCH-20' WOVEN FOLDED LABEL IN CLR BLACK AND SAFETY YELLOW 13-0630 TN COLOUR AT RIGHT BACK POCKET (WHEN WORN). SEE ARTWORKS FOR PLACEMENT.
N. BRAND LABEL	WOVEN LABEL 'BABY BOY BLUE' MUST BE FIXED INSIDE C/B W/B WHEN WORN.
O. SIZE LABEL	SIZE LABEL 'BABY BOY BLUE 1' MUST BE PLACED IN THE CENTRE UNDERNEATH WAISTBAND.
P. S/Q LABEL	'CARE LABEL' INSIDE LEFT SIDE SEAM WHEN WORN, 10 CM UNDER TOP WAISTBAND. PLS USE SATIN POLYESTER QUALITY. COLOUR SHOULD BE WHITE WITH BLACK PRINT.
Q. HANGTAG	- MAIN HANGTAG 'PNCH-02' GUNTAGGED AT LEFT SIDE SEAM WHEN WORN JUST UNDER THE W/B. - STRETCH HANGTAG 'PNCH-16' - CAUTION HANGTAG 'PNCH-01' ONLY FOR THE BLEACH TOWEL WASH COMBO! <u>HANGTAG PLACEMENT FROM TOP TO BOTTOM: PRICE TICKET, STRETCH HANGTAG PNCH-16, CAUTION HANGTAG PNCH-01 AND MAIN HANGTAG PNCH-02</u>
R. FIT HANGTAG	SLIM FIT HANGTAG 'PNCH-14A' ATTACHED AT LEFT FRONT W/B WHEN WORN. EVERY SIZE DOES HAVE A DIFFERENT FIT HANGTAG.
S. W/B LABEL	NO

Comparative Study on Measurements found in Sample and Final Inspection

T. HANGER	NO
U. PRICE TICKET	PRICE TICKET GUNTAGGED AT LEFT SIDESEAM WHEN WORN JUST UNDER THE W/B. PRICE TICKET SHOULD ALWAYS BE ON TOP OF ALL HANGTAGS. BARCODE MUST ALWAYS BE VISIBLE AND READABLE. PRICETICKET HAVE TO BE DEVELOPED BY YOURSELF.
V. WOVEN LABEL	NO
W. SIZE STICKER	NO
X. PRINT	NO

6. MEASUREMENT FOR SAMPLING

WILL SEND A.S.A.P.

7. FABRIC / COLOUR REFERENCE / SWATCHES

BLEACH TOWEL: 75% COTTON, 24% POLYESTER, 1% ELASTHAN TTC 486SISTER DENIM, #SIS14-POS364DF, COTTON POLY STRETCH, 8,85 OZ.

GREY:71,5% COTTON, 26,75% POLYESTER, 1.75% ELASTHANTTC 754SISTER DENIM, #SIS55-POS727 DF, COTTON POLY STRETCH, 9,5 OZ.

POCKETING: 65% POLYESTER, 35% COTTON

8. WASHING

BLEACH TOWEL:BLEACH TOWEL WASH WITH CHEMICAL WASH SAME AS HONGKONG 6B, NO TAGGING! GROUND COLOUR SAME AS HONGKONG 6B.

GREY:MEDIUM BLEACH WASH WITH CHEMICAL WASH SAME AS LIMA 12. GROUND COLOUR GREY SAME AS LIMA 12.

9. PACKING INSTRUCTION

EACH PANT NICELY FOLDED. PANT SHOULD BE ROLLED UP BUT WITHOUT A WHITE COTTON CORD! EACH UNIT =12 PCS. ASSORTED SIZE, ASSORTED COLOUR PACKED INTO A RE-USABLE POLYBAG WITH 3 IMPRINTED LOGO'S. THEN PUT AS MANY UNITS AS YOU CAN FIT INTO A 7-PLY EXPORT CARTON WITHIN BELOW GIVEN MEASUREMENT REQUIREMENTS. PLS PLACE CARTON LABEL ON SHORT SIDE OF THE BOX (SEE IMAGE ON PAGE 5), TAKE CARE ALL IS PERFECTLY READABLE! SHIPPING UNASSORTED CARTONS IS NOT ALLOWED. DO NOT SHIP ANY AIR.

Comparative Study on Measurements found in Sample and Final Inspection

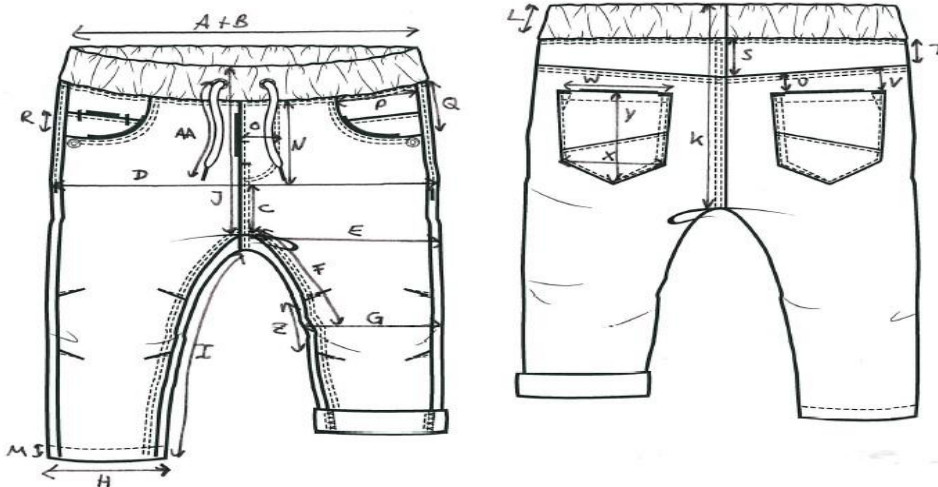
- FIXED CARTON MEASUREMENTS: 58 X 38 CM HEIGHT S/B BETWEEN 20 AND 40 CM
- MAX CARTON WEIGHT 16 KG
- NO STRAPS ALLOWED

Describe the order details :

This is baby boys denim pants. Accessories has been used rivet, eyelets, stitching, barracks, elastic, drawstrings, .As rivets (6mm) old silver colour, design 'Pnch-78' . Some special eyelets use to old silver colour 'Pnch' design eyelets (15mm). Heavy yarn used to (20/4) allover stitching in bleach towel, coats color c7939 (as Hong Kong 6b). Heavy yarn (20/4) allover stitching in grey. coats color ga301 (as lima 12).All over barracks in bleach towel .color used c7939 (as Hong Kong 6b).All over barracks in grey, coats color used to ga301 (as lima 12).Elastic usd to 1 pc full elastic in matching clr at inside w/b.and2 pcs elastic for inside cuff at leg openings.Drawstrings used as good quality shoe lace tape in clr black and safety yellow.

There are used to seven types of leveling in these pant. Example: fancy label, brand label, size label, care label, hang tag, fit tag price ticket. This panty has been used as a fancy level design 'pnch-20'. And used as a brand label woven label 'baby boy blue'must be fixed inside c/b w/b. Used to size label must be 'baby boy blue 1'..Use to - main hangtag design 'pnch-02.' stretch hangtag design 'pnch-16'caution hangtag design 'pnch-01' Eachpant packing nicely folded. pant should be rolled up but without a white cotton cord! each unit =12 pcs

3.2.2 Artwork



Comparative Study on Measurements found in Sample and Final Inspection

Figure 3.2 Artwork style TX 23320

Table 3.2 Artwork Specification (Style TX 23320)

A. ½WAIST RELAXED	J. FRONTRISE INCL W/B	S. V-YOKE HEIGHT AT CENTRE
B. ½WAIST STRETCHED	K. BACKRISE INCL W/B	T. V-YOKE HEIGHT AT SIDE
C. HIP MEASURED FROM CROTCH	L. WAISTBAND HEIGHT	U. DISTANCE V-YOKE TO BACKPOCKET AT CROTCH
D. ½ HIP	M. HEM HEIGHT	V. DISTANCE V-YOKE TO BACKPOCKET AT SIDE
E. ½ THIGH AT CROTCH	N. FAKE FLY LENGTH EXCL W/B	W. BACKPOCKET WIDTH AT TOP
F. CROTCH TO ½ KNEE	O. FAKE FLY WIDTH	X. BACKPOCKET WIDTH AT BOTTOM
G. ½ KNEE	P. FRONT POCKET WIDTH	Y. BACKPOCKET HEIGHT
H. ½ LEGOPENING	Q. FRONT POCKET HEIGHT	Z. DISTANCE BETWEEN KNEE DARTS AT INSEAM
I. INSEAM	R. COINPOCKET VISIBLE HEIGHT	AA. CORD LENGTH AT FRONT

Table 3.2.... Above, I see 27 types of measurements in the artwork table.

3.2.3 Measurement Sheet

Table 3.3 Measurement Sheet style TX 23320

STYLE	68	74	80	86	TOL
A. ½ WAIST RELAXED	20, 5	21	21, 5	22	+/-0.5CM
B. ½ WAIST STRETCHED	24, 5	25	25, 5	26	+/-0.5CM
C. HIP MEASURED FROM CROTCH	4,8	4,9 5	5,1	5,2 5	Fix
D. ½ HIP	24	24,	25	25,	+/-0.5CM

Comparative Study on Measurements found in Sample and Final Inspection

		5		5	
E. ½ THIGH AT CROTCH	14	14.5	15	15.5	+/-0.5CM
F. CROTCH TO ½ KNEE	10	11	12	13	Fix
G. ½ KNEE	9	9.5	10	10.5	+/-0.3CM
H. ½ LEGOPENING	8.5	9	9.5	10	+/-0.3CM
I. INSEAM	19	23	27	31	+/-1CM
J. FRONTRISE INCL W/B	15	15.25	15.5	15.75	+/-0.5CM
K. BACKRISE INCL W/B	22	22.25	22.5	22.75	+/-0.5CM
L. WAISTBAND HEIGHT	3	3	3	3	+/-0.2CM
M. HEM HEIGHT	1.3	1.3	1.3	1.3	+/-0.2CM

STYLE	68	74	80	86	TOL
N. FAKE FLY LENGTH EXCL W/B	7	7	8	8	Fix
O. FAKE FLY WIDTH	3	3	3	3	Fix
P. FRONT POCKET WIDTH	5	5	5.5	5.5	+/-0.2CM
Q. FRONT POCKET HEIGHT	6	6	6.5	6.5	+/-0.2CM
R. COINPOCKET VISIBLE HEIGHT	2.5	2.5	2.5	2.5	+/-0.2CM
S. V-YOKE HEIGHT AT CENTRE	3,5	3,5	3,8	3,8	+/-0.2CM
T. V-YOKE HEIGHT AT SIDE	2,2	2,2	2,5	2,5	+/-0.2CM
U. DISTANCE V-YOKE TO BACKPOCKET AT CROTCH	2,5	2,5	2,5	2,5	+/-0.2CM
V. DISTANCE V-YOKE TO BACKPOCKET AT SIDE	3	3	3	3	+/-0.2CM
W. BACKPOCKET WIDTH AT TOP	8.5	8.5	9	9	+/-0.2CM
X. BACKPOCKET WIDTH AT BOTTOM	7.5	7.5	8	8	+/-0.2CM
Y. BACKPOCKET HEIGHT	10.5	10.5	11	11	+/-0.2CM
Z. DISTANCE BETWEEN KNEE DARTS AT INSEAM	6	6,5	6,5	7	+/-0.2CM
AA. CORD LENGTH AT FRONT	12-13	12-13	12-13	12-13	FIX, but for sure not longer than 14 cm!

Comparative Study on Measurements found in Sample and Final Inspection

Table 3.3 shows measurements sheet of this style **TX 23320**. It has been observed this table different six size label pant. And each 4 size pants, there are also different number, points of measurement (POM.). Example, 68 size, 74 size, 80 size, 86 size, Respectively, 1/2 WAIST RELAXED 20,5cm, 21cm, 21,5cm, 22 cm., 1/2 Waist stretched 24,5 cm, 25 cm, 25,5 cm, 26 cm. And respectively, Hip measured from crotch respectively 4.8 cm, 4.95cm, 5.1 cm, 5.25 cm. 1/2 Thigh at crotch 14cm, cm, 14.5cm, 15 cm, 15.5 cm Etc. Tolerance again respectively: +/- 0.3 cm, +/- 0.5 cm. +/- 1 cm. +/- 0.2 cm. In which case the tolerance will be fixed.

3.2.4 Measurement Checking in Sample

B/A WAIST
SIZE SET - (7)
Colour - Blue
FAST SIZE 25.8.21
A/F W 15.4 28.8.21

TEXSPORT B.V.:									
ORDER NR.	TX 23320	STYLE							
ART. NR.	-	DATE	11 JUNE 2021						
DESCRIPTION	BABY BOYS DENIM PANTS								
YLE	68		74		80		86		TOL
1/2 WAIST RELAXED	20.5	+1.5	21	+1.5	21.5	+1.5	22	+2	+/-0.5CM
1/2 WAIST STRETCHED	24.5	+3	25	+3	25.5	+3	26	+3	+/-0.5CM
HIP MEASURED FROM CROTCH	4.8		4.95		5.1		5.25		Fix
1/2 HIP	24	+2.5	24.5	+3	25	+3	25.5	+4.5	+/-0.5CM
1/2 THIGH AT CROTCH	14	+1	14.5	+1	15	+1.5	15.5	+1.5	+/-0.5CM
CROTCH TO 1/2 KNEE	10		11		12		13		Fix
1/2 KNEE	9	+2	9.5	+3	10	+3	10.5	+3	+/-0.3CM
1/2 LEG OPENING	8.5	+1.5	9	+1	9.5	+1	10	+1	+/-0.3CM
INSEAM	19	+1	23	+5	27	+1	31		+/-1CM
FRONTRISE INCL W/B	15	+1.5	15.25	+1.7	15.5	+1.5	15.75	+1.5	+/-0.5CM
BACKRISE INCL W/B	22	+1	22.25	+1.7	22.5	+1	22.75	+1.5	+/-0.5CM
WAISTBAND HEIGHT	3		3		3		3		+/-0.2CM
HEM HEIGHT	1.3		1.3		1.3		1.3		+/-0.2CM

STYLE	68	74	80	86	TOL
N. FAKE FLY LENGTH EXCL W/B	7	+1.5	7	8	8-1
O. FAKE FLY WIDTH	3	+1.5	3	3	3+1.5
P. FRONT POCKET WIDTH	5	+1	5	5.5	5.5+1
Q. FRONT POCKET HEIGHT	6	+1.5	6	6.5	6.5+1.5
R. COINPOCKET VISIBLE HEIGHT	2.5	+1.5	2.5	2.5	2.5+1.5
S. V-YOKE HEIGHT AT CENTRE	3.5	+1.5	3.5	3.8	3.8+1.5
T. V-YOKE HEIGHT AT SIDE	2.2	+1.5	2.2	2.5	2.5+1.5
U. DISTANCE V-YOKE TO BACKPOCKET AT CROTCH	2.5	+1.5	2.5	2.5	2.5+1.5
V. DISTANCE V-YOKE TO BACKPOCKET AT SIDE	3	+1.5	3	3	3+1.5
W. BACKPOCKET WIDTH AT TOP	8.5	+1.5	8.5	9	9+1.5
X. BACKPOCKET WIDTH AT BOTTOM	7.5	+1.5	7.5	8	8+1.5
Y. BACKPOCKET HEIGHT	10.5	+1.5	10.5	11	11+1.5
Z. DISTANCE BETWEEN KNEE DARTS AT INSEAM	6	+1.5	6.5	6.5	7+1.5
AA. CORD LENGTH AT FRONT	12	+1.5	12	12	12
	13		13	13	13

400Pes cutting
OK (Mokh)
26.08.21

** HIP +1.5 e.m (SIZE 68) 9.0.15.16*
** THIGH +1 e.m ALL*
** KNEE +1 e.m ALL*
** HEM +1 e.m ALL*
** INSEAM +.5 e.m ALL*
** BK RISE +.5 e.m ALL*

24/8/21

Comparative Study on Measurements found in Sample and Final Inspection

Figure 3.2: Scan copy of measurement checking of sample

Describe the Measurement Checking in Sample

It has been observed this Figure 3.2. In the above figure 4 different size samples pant have been taken and measured. Example

1st size set sample number 68

Given. measurement $\frac{1}{2}$ hip 24cm But tolerance decreases by -2cm. So, $\frac{1}{2}$ Hip. measurement 22cm. There was measurement $\frac{1}{2}$ thigh at crotch 14cm. But -1.5 tolerance decreases by $\frac{1}{2}$ thigh at crotch 12.5 cm. $\frac{1}{2}$ KNEE 9 cm. But tolerance decreases by -.5cm. So, $\frac{1}{2}$ knee 9.5cm. Tolerance decreases by -.5cm, As a result $\frac{1}{2}$ leg opening 8 cm. Inseam 19 cm. But -5 tolerance decreases by inseam 18.5 cm. Back rise incl w/b 22 cm. -.5 tolerance decreases by back rise incl w/b 21.5 cm. Fake fly length excl w/b 7cm. but +1 tolerance increases by fake fly length excl w/b 8 cm. Front pocket height 6 cm. But -.5 tolerance decreases by front pocket height 5.5 cm. Back pocket width at top 8.5 cm. -.5 tolerance decreases by back pocket width at top 8 cm. And all other measurements are OK

..[If tolerance is given here +/-5 , +/- 3cm. But the buyer is asking for a +/-1.5 , +/-1, +/- 2centimeter increase in all of them here. And if we do not talk about increasing tolerance, then it must be maintained]

[The highest tolerance has increased here in the $\frac{1}{2}$ Hip 24cm-2cm tolerance =22cm. The lowest tolerance has decreased here in the Front pocket height 6 cm -.5cm tolerance =5.5cm.]

2nd size set sample number 74

$\frac{1}{2}$ Waist relaxed 21cm. But -.5 cm tolerance decreases by $\frac{1}{2}$ waist relaxed 21.5cm.

Given. measurement $\frac{1}{2}$ hip 24.5cm. But tolerance decreases by $\frac{1}{2}$ hip -2cm. So, $\frac{1}{2}$ hip 22.5cm. ..[If tolerance is given here +/-5 , +/- 3cm. But the buyer is asking for a +/-1.5 , +/-1, +/- 2centimeter increase in all of them here. And if we do not talk about increasing tolerance, then it must be maintained] There was measurement $\frac{1}{2}$ thigh at crotch 14.5cm. But -1 cm tolerance decreases by $\frac{1}{2}$ thigh at crotch 13.5cm. $\frac{1}{2}$ Knee 9.5 cm. But tolerance decreases by -.5cm. So, $\frac{1}{2}$ knee 9cm. Tolerance decreases by -1cm, As a result $\frac{1}{2}$ leg opening increase 8 cm. Inseam 23 cm. But -.5 tolerance decreases by inseam 26.5cm. Front rise incl w/b 15.25cm. But -.8 cm tolerance decreases by inseam 26.5cm. Back rise incl w/b 22.25 cm. But -.3 cm tolerance decreases by back rise incl w/b 21.95 cm. And all other measurements are OK

[The highest tolerance has increased here in the $\frac{1}{2}$ Hip 24.5cm-2cm tolerance =22.5cm. The lowest tolerance has decreased here in the $\frac{1}{2}$ Knee 6 cm -1cm tolerance =5cm.]

3rd size set sample number 80

Given. measurement $\frac{1}{2}$ Hip 25cm. But tolerance decreases by -1cm. So, $\frac{1}{2}$ hip 24cm.

..[If tolerance is given here +/-5 , +/- 3cm. But the buyer is asking for a +/-1.5 , +/-1, +/- 2centimeter increase in all of them here. And if we do not talk about increasing tolerance, then it must be maintained] There was measurement $\frac{1}{2}$ thigh at crotch 15cm. But -1.5 tolerance decreases by $\frac{1}{2}$ thigh at crotch 13.5cm. $\frac{1}{2}$ KNEE 10 cm. But tolerance decreases by -.5cm. So, $\frac{1}{2}$ knee 9.5cm. Tolerance decreases by -.5cm, As a result $\frac{1}{2}$ leg opening increase 9 cm.

Comparative Study on Measurements found in Sample and Final Inspection

Inseam 27 cm . But -.5 cm tolerance decreases by inseam 26.5cm.

And all other measurements are OK[The highest tolerance has increased here in the ½ thigh at crotch 15cm +1.5=16.5cm.The lowest tolerance has decreased here in the ½ Leg opening 9.5 cm -.5cm tolerance =9cm.]

4th size set sample number 86

Given. measurement ½ hip 25.5cm But tolerance decreases by-.5cm. So, ½ hip 25cm. There was measurement ½ thigh at crotch 15.5cm . But -1.5 cm tolerance decreases by ½ thigh at crotch 15cm. ½ KNEE 10.5 cm. But tolerance decreases by-.5cm. So, As result ½ knee 10cm. Tolerance decreases by -.5cm, As a result ½ leg opening increase 9.5 cm..Inseam 31 cm . But -1 tolerance decreases by inseam 30 cm. Front rise incl w/b 15.75cm. but +.1 cm tolerance increases by front rise incl w/b 15.76 cm Back rise incl w/b 22.75 cm . -1cm tolerance decreases by back rise incl w/b 22.74 cm. Fake fly length excl w/b 8cm . but -1 cm tolerance decreases by fake fly length excl w/b 7 cm. Fake fly width 3 cm . but +.3 cm tolerance increases by fake fly 3.3 cm. Front pocket width 5.5 cm. But +.5 cm tolerance increases by front pocket width 5 cm. Front pocket height 6.5 cm .But -1 cm tolerance decreases by front pocket height 7.5 cm

And all other measurements are OK.

[The highest tolerance has increased here in the ½ thigh at crotch 15.5cm +1.5=17cm.The lowest tolerance has decreased here in the ½ Leg opening 10 cm -.5cm tolerance =9cm.

Comparative Study on Measurements found in Sample and Final Inspection

3.2.5 Measurement Checking in Final Inspection

O-BLUE
09-09-21

TEXSPORT B.V.:

ORDER NR.	TX 23320	STYLE	
ART. NR.	-	DATE	11 JUNE 2021
DESCRIPTION	BABY BOYS DENIM PANTS		

STYLE	68	74	80	86	TOL
1/2 WAIST RELAXED	20.5	21	21.5	22	+/-0.5CM
1/2 WAIST STRETCHED	24.5	25	25.5	26	+/-0.5CM
HIP MEASURED FROM CROTCH	4.8	4.95	5.1	5.25	Fix
1/4 HIP	24	24.5	25	25.5	+/-0.5CM
1/2 THIGH AT CROTCH	14	14.5	15	15.5	Fix
CROTCH TO 1/2 KNEE	10	11	12	13	+/-0.3CM
1/2 KNEE	9	9.5	10	10.5	+/-0.3CM
1/2 LEGOPENING	8.5	9	9.5	10	+/-1CM
INSEAM	19	23	27	31	+/-0.5CM
FRONTRISE INCL W/B	15	15.25	15.5	15.75	+/-0.5CM
BACKRISE INCL W/B	22	22.25	22.5	22.75	+/-0.5CM
WAISTBAND HEIGHT	3	3	3	3	+/-0.2CM
HEM HEIGHT	1.3	1.3	1.3	1.3	+/-0.2CM

STYLE	68	74	80	86	TOL
N. FAKE FLY LENGTH EXCL W/B	7	7	8	8	Fix
O. FAKE FLY WIDTH	3	3	3	3	Fix
P. FRONT POCKET WIDTH	5	5	5.5	5.5	+/-0.2CM
Q. FRONT POCKET HEIGHT	6	6	6.5	6.5	+/-0.2CM
R. COINPOCKET VISIBLE HEIGHT	2.5	2.5	2.5	2.5	+/-0.2CM
S. V-YOKE HEIGHT AT CENTRE	3.5	3.5	3.8	3.8	+/-0.2CM
T. V-YOKE HEIGHT AT SIDE	2.2	2.2	2.5	2.5	+/-0.2CM
U. DISTANCE V-YOKE TO BACKPOCKET AT CROTCH	2.5	2.5	2.5	2.5	+/-0.2CM
V. DISTANCE V-YOKE TO BACKPOCKET AT SIDE	3	3	3	3	+/-0.2CM
W. BACKPOCKET WIDTH AT TOP	8.5	8.5	9	9	+/-0.2CM
X. BACKPOCKET WIDTH AT BOTTOM	7.5	7.5	8	8	+/-0.2CM
Y. BACKPOCKET HEIGHT	10.5	10.5	11	11	+/-0.2CM
Z. DISTANCE BETWEEN KNEE DARTS AT INSEAM	6	6.5	6.5	7	+/-0.2CM
AA. CORD LENGTH AT FRONT	12	12	12	12	Fix, but for size not longer than 14 cm!
	13	13	13	13	

Mick
09-09-21

Figure 3.2: Scan copy of measurement checking in Final Inspection

Describe the Measurement Checking in Final Inspection

Figure 3.2: shows measurements sheet of this style TX 23320. Where it has been found it has been observed this Figure 3.2. In the above figure 4 different size Pant have been taken measurement checking in Final Inspection.

Comparative Study on Measurements found in Sample and Final Inspection

1st measurement checking in Final Inspection. Pant size number 68.

Given. measurement $\frac{1}{2}$ waist stretched 20 cm .But tolerance decreases by+.5cm. So, Then the amount of $\frac{1}{2}$ waist stretched 20.5 cm. Crotch to $\frac{1}{2}$ Knee 10cm. But -5 tolerance decreases by $\frac{1}{2}$ knee 9.5cm. Inseam 19 cm. But +1 tolerance decreases by Inseam 20cm ..Front rise incl w/b 15 cm . -.5 tolerance decreases by back rise incl w/b 14.5cm.-.5 tolerance decreases by back rise incl w/b 21.5 cm.And all other measurements are OK

[The highest tolerance has increased here in the Inseam 19 cm +1=20cm.The lowest tolerance has decreased here in the Crotch $\frac{1}{2}$ Knee 10 cm -.5cm tolerance =9.5cm.]

2nd measurement checking in Final Inspection. Pant size number 74.

Given. measurement $\frac{1}{2}$ hip 24.5cm. But +.5 cm tolerance increases by $\frac{1}{2}$ hip 25cm. Exactly same way-.5 cm tolerance decreases by back rise incl w/b 21.75 cm

And all other measurements are OK[The highest tolerance has increased here in the $\frac{1}{2}$ Hip 24.5cm +.5=25cm.The lowest tolerance has decreased here in the Back rise incl w/b 22.25 cm -.5cm tolerance =21.75cm.]

3rd size set number 80 measurement checking in Final Inspection.

. Given. measurement of $\frac{1}{2}$ waist measurement 21.5 cm. But+.5 cm tolerance decreases by $\frac{1}{2}$ waist measurement 22cm.Measurement f $\frac{1}{2}$ hip 25.cm But tolerance increases by+1cm. So, $\frac{1}{2}$ hip 24cm. But the value of tolerance must be +/-5 cm .So, Here the value of the tolerance maintain again. $\frac{1}{2}$ KNEE 10 cm. But tolerance decreases by-..5cm. So, $\frac{1}{2}$ knee 9.5cm. Tolerance decreases by +1cm, As a result $\frac{1}{2}$ leg opening increase 10.5cm. But the value of tolerance must be +/-3cm .So, Here the value of the tolerance maintain again. Inseam 22.5 cm . But +.5 cm tolerance increases by inseam 23cm. Back Rice incl w/b 22.5 cm. But -.5 cm tolerance decreases by back rice incl w/b 22cm

.And all other measurements are OK

[The highest tolerance has increased here in the $\frac{1}{2}$ Hip 25cm +1=26cm.The lowest tolerance has decreased here in the $\frac{1}{2}$ Leg opening 9.5cm +1cm tolerance =10.5cm.]

4th size set number 86 measurement checking in Final Inspection

Inseam 31 cm . But -.5 cm tolerance increases by Inseam 30.5cmBack Rice incl w/b 22.75 cm. But -.5 cm tolerance decreases by Back rice incl w/b 22.25cm.

And all other measurements are OK

[The highest tolerance has increased here in the Inseam 31cm -.5= 30.5cm.The lowest tolerance has decreased here in the Back Rice incl w/b 22.75 cm -.5cm tolerance =22.25cm.]

Comparative Study on Measurements found in Sample and Final Inspection

3.3 Measurement Analysis of Style TX 23289



3.3.10 Order Details

Table 3.3 Order Details

ORDER NR.	TX 23289	STYLE	SLIM DENIM
ART. NR.	-	DATE	18-6-2021
DESCRIPTI ON	BOYSDENIM PANTSREV 14-7		

1. ART.NR.		2. STYLE	TX 23289
------------	--	----------	----------

3. FULL DESCRIPTION
TEENBOYS JOGG DENIM PANTS REPAT AS 22011

4. ACCESSORIES	
A. BUTTON	2 PCS TRANSPARANT 2-HOLES PLASTIC BUTTONS (15MM) AT BUTTONHOLE ELASTIC.
B. HOOK & EYE	NO
C. JEANS BUTTON	1PCOLD SILVER 'PNCH' EMBOSSED JEANS BUTTON (17MM) AT FRONTCLOSURE.(WITH HOLE IN THE MIDDLE) 
D. RIVET	2PCSOLD SILVER 'PNCH' EMBOSSED METAL RIVETS (9 MM) AT FRONT POCKETS. 
E. EYELETS	NO
F. ZIPPER	1 PC OLD SILVER 4YG AUTOMATIC STOP ZIPPERWITH MATCHING COLOR ZIPPETAPE AT FRONTCLOSURE.
G. STITCHING	- HEAVY YARN (20/4) ALLOVER STITCHING IN COLOURSCOATS C8624AND C8250 AS SHIPMENT TX 22011. <u>PLS USE FEED OF THE ARM STITCHES AND FOLLOW 7 SPI</u>

Comparative Study on Measurements found in Sample and Final Inspection

	<u>ALL OVER.</u> - TO FIX TRANSPARENT BUTTONS INSIDE W/B PLEASE USE STITCHING COLOUR MATCHING TO BUTTONHOLE ELASTIC.
H. BARTACKS	-ALL OVER BARTACKS IN COATS COLOUR C8250 AS SHIPMENT TX 22011. - BUTTONHOLE STITCH IN COATS COLOUR C8624 AS SHIPMENT TX 22011. - CHAINSTITCH INSIDE W/B IN IN COATS COLOUR C8624 AS SHIPMENT TX 22011.
I. HANGERL OOPS	NO
J. ELASTIC	1PC GOOD QUALITY BUTTONHOLE ELASTIC AT INSIDE W/B IN MATCHING CLR.
K. TAPE	NO

5. LABELLING	
Y. FANCY LABEL	'PNCH-20' WOVEN LOOP LABEL FOR RIGHT FRONT BELTLOOP(WHEN WORN). SEE ARTWORKS FOR PLACEMENT.
Z. BRAND LABEL	WOVEN LABEL 'PNCH-07' MUST BE FIXED INSIDE C/B W/B.
AA. SIZE LABEL	WOVEN SIZE LABEL 'PNCH-06'. PLEASE PLACE LEFT FROM BRAND LABEL (WHEN WORN).
BB. S/Q LABEL	'CARE LABEL' INSIDE LEFT SIDE SEAM WHEN WORN, 10 CM UNDER TOP W/B. PLS USE SATIN POLYESTER QUALITY. COLOUR SHOULD BE WHITE WITH BLACK PRINT.
CC. HANGTAG	- MAIN HANGTAG 'PNCH-02' GUNTAGGED AT LEFT SIDE SEAM WHEN WORN JUST UNDER THE W/B. - JOGG DENIM HANGTAG 'PNCH-19' <u>HANGTAG PLACEMENT FROM TOP TO BOTTOM: PRICE TICKET, JOGG DENIM PNCH-19, AND MAIN HANGTAG PNCH-02</u>
DD. FIT HANGTAG	SLIM FIT HANGTAG 'PNCH-14A' ATTACHED AT LEFT FRONT W/B WHEN WORN. EVERY SIZE DOES HAVE A DIFFERENT FIT HANGTAG.
EE. W/B LABEL	NO
FF. HANGER	NO
GG. PRICE TICKET	PRICETICKET GUNTAGGED AT LEFT SIDE SEAM WHEN WORN JUST UNDER THE W/B. PRICE TICKET SHOULD ALWAYS BE

Comparative Study on Measurements found in Sample and Final Inspection

	ON TOP OF ALL HANGTAGS. BARCODE MUST ALWAYS BE VISIBLE AND READABLE. PLS DEVELOP BY YOURSELF.
HH. WOVEN LABEL	NO
II. PRINT	- PRINT PNCH-22 AT RIGHT BACK POCKET (WHEN WORN)

6. MEASUREMENT FOR SAMPLING

WILL SEND A.S.A.P.

7. FABRIC / COLOUR REFERENCE / SWATCHES

72% COTTON, 26% POLYESTER, 2% ELASTHAN TTC 512 AMBER DENIM #DOB50359SF 9.25 OZ

POCKETING: 65% POLYESTER, 35% COTTON

8. WASHING

MID BLEACH WASH WITH CHEMICAL, MOUSTACHE AND TIE EFFECT SAME AS SHIPMENT SAMPLE TX 22011.

9. PACKING INSTRUCTION

DELIVERED WITH LEFT LEG TWO TIMES ROLLED UP.
EACH PANT NICELY FOLDED. PANT SHOULD BE ROLLED UP BUT WITHOUT A WHITE COTTON CORD! EACH UNIT = 6 PCS. ASSORTED SIZE, ASSORTED COLOUR PACKED INTO A RE-USABLE POLYBAG WITH 3 IMPRINTED LOGO'S. THEN PUT AS MANY UNITS AS YOU CAN FIT INTO A 7-PLY EXPORT CARTON WITHIN BELOW GIVEN MEASUREMENT REQUIREMENTS. PLS PLACE CARTON LABEL ON SHORT SIDE OF THE BOX (SEE IMAGE ON PAGE 5), TAKE CARE ALL IS PERFECTLY READABLE! SHIPPING UNASSORTED CARTONS IS NOT ALLOWED. DO NOT SHIP ANY AIR.

- FIXED CARTON MEASUREMENTS: 58 X 38 CM HEIGHT S/B BETWEEN 20 AND 40 CM
- MAX CARTON WEIGHT 16 KG
- NO STRAPS ALLOWED

Comparative Study on Measurements found in Sample and Final Inspection

Describe the order details :

This is teen boys jogg denim pants Accessories has been used BUTTON JEANS BUTTON rivet, ZIPPER , stitching, barracks, elastic. Some special old silver 'design pnch' embossed jeans button (17mm)..As rivets(9 MM) at front pockets. Old silver 'pnch' . Some special Zipper use to old silver 4yg automatic stop zipper.Heavy yarn (20/4) allover stitching in colors coats c8624and c8250 . Andall over barracks in coats colour c8250 as shipment tx 22011. buttonhole stitch in coats colour c8624 as shipment tx 22011.Elastic used to good quality buttonhole elastic at inside w/b in matching colors.There are used to eight types of leveling in these pant. Example: fancy label, brand label, size label, care label, hang tag, fit tag price ticket ,print .This fancy level used as a design 'PNCH-20'. And used as a brand label woven label ' Woven label'pnch-07'.Use to – main hangtag design 'pnch-02.' jogg denim hangtag 'pnch-19' .. Print pnch-22 at right back pocket . Fabric used to 72% COTTON, 26% POLYESTER, 2% ELASTHAN TTC 512 AMBER DENIM. Packaging must be each pant nicely folded. pant should be rolled up but without a white cotton cord! each unit =6 pcs

3.3.2 Artwork

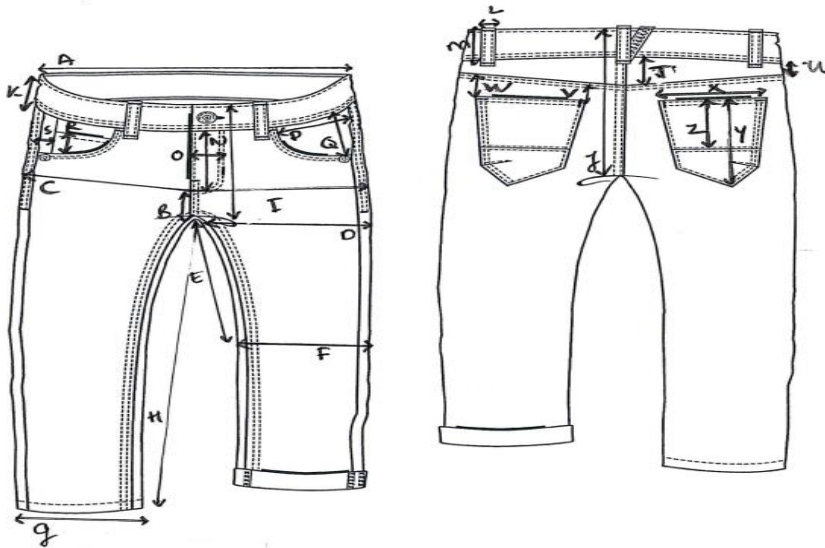


Figure 3.3 Artwork Style TX 23289

Table 3.2 Artwork Specification (Style TX 23289)

A. ½ WAIST RELAXED	J. BACKRISE INCLW/B	S. WIDTH BETWEEN OUTSEAM AND COIN POCKET
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Comparative Study on Measurements found in Sample and Final Inspection

B. HIP MEASURED FROM CROTCH	K. WAISTBAND HEIGHT	T. BACK YOKE HEIGHT AT C/B
C. ½ HIP	L. BELTLOOP WIDTH	U. BACKYOKE HEIGHT AT SIDE
D. ½ THIGH AT CROTCH	M. BELTLOOP HEIGHT	V. BACKYOKE TO BACKPOCKET AT CENTRE
E. CROTCH TO 1/2 KNEE	N. FLY LENGTH <u>EXCL W/B</u>	W. BACKYOKE TO BACKPOCKET AT SIDE
F. ½ KNEE	O. FLY WIDTH (incl 2 needle)	X. BACKPOCKET WIDTH
G. ½ LEGOPENING	P. FRONT POCKET WIDTH	Y. BACKPOCKET HEIGHT
H. INSEAM	Q. FRONT POCKET HEIGHT	Z. TOP BACK POCKET UNTIL CUT & SEWN
I. FRONTRISE INCL W/B	R. COINPOCKET HEIGHT	

Table 3.2.... Above, I see 26 types of measurements in the artwork table.

3.3.3 Measurement Sheet

Table 3.3 Measurement Sheet (Style TX 23289)

STYLE SLIM	128	134	140	146	152	TOLERANCE
A. ½ WAIST RELAXED	29,5	30,5	31,5	32,5	33,5	+/- 0,3 Cm
B. HIP MEASURED FROM CROTCH	6,3	6,5	6,8	7	7,2	Fix
C. ½ HIP	33	34,5	36	37,5	39	+/- 0,5 Cm
D. ½ THIGH AT CROTCH	19,5	20,5	21,5	22,5	23,5	+/- 0,3 Cm
E. CROTCH TO 1/2 KNEE	23	24,5	26	27,5	29	Fix
F. ½ KNEE	13,5	14	14,5	15	15,5	+/- 0,3 Cm
G. ½ LEGOPENING	11,5	12	12,5	13	13,5	+/- 0,3 Cm

Comparative Study on Measurements found in Sample and Final Inspection

H. INSEAM	57	60,5	64	67,5	71	+/- 1 Cm
I. FRONTRISE INCL W/B	19,8	20,5	21,2	21,9	22,6	+/- 0,3 Cm
J. BACKRISE INCL W/B	27,8	28,8	29,8	30,8	31,8	+/- 0,3 Cm
K. WAISTBAND HEIGHT	4	4	4	4	4	+/- 0,2 Cm

STYLE DETAILS	128	134	140	146	152	TOLERANCE
L. BELTLOOP WIDTH	1,2	1,2	1,2	1,2	1,2	Fix
M. BELTLOOP HEIGHT	5,5	5,5	5,5	5,5	5,5	Fix
N. FLY LENGTH <u>EXCL W/B</u>	10	10	10,5	10,5	11	+/- 0,2 Cm
O. FLY WIDTH (incl 2 needle)	3,2	3,2	3,2	3,2	3,2	+/- 0,2 Cm
P. FRONT POCKET WIDTH	8	8	8,5	8,5	9	+/- 0,2 Cm
Q. FRONT POCKET HEIGHT	6,5	6,5	7	7	7,5	+/- 0,2 Cm
R. COINPOCKET HEIGHT	Should run at same height as backyoke at side					+/- 0,2 Cm
S. WIDTH BETWEEN OUTSEAM AND COIN POCKET	1,5	1,5	1,5	1,5	1,5	+/- 0,2 Cm
T. BACK YOKE HEIGHT AT C/B	4	4	4,2	4,2	4,5	+/- 0,2 Cm
U. BACKYOKE HEIGHT AT SIDE	3	3	3,2	3,2	3,5	+/- 0,2 Cm
V. BACKYOKE TO BACKPOCKET AT CENTRE	3,5	3,5	3,5	3,5	3,5	+/- 0,2 Cm
W. BACKYOKE TO BACKPOCKET AT SIDE	4	4	4	4	4	+/- 0,2 Cm
X. BACKPOCKET WIDTH	12,5	12,5	13	13	13,5	+/- 0,2 Cm
Y. BACKPOCKET HEIGHT	14	14	14,5	14,5	15	+/- 0,2 Cm
Z. TOP BACK POCKET UNTIL CUT & SEWN	8	8	8,5	8,5	9	+/- 0,2 Cm

Table 3.3 shows measurements sheet of this style **TX 23289**

It has been observed this table different five size label pant. And each 5size pants ,there are also different number, and Points of measurement (POM.). Example, 128 size , 134 size, 140 size,

Comparative Study on Measurements found in Sample and Final Inspection

146 size, 152 size Respectively, ½ WAIST RELAXED 29,5 cm, 30,5 cm, 31,5 cm, 32,5 cm., 33,5 cm.. And respectively, Hip measured from crotch respectively 6,3 cm, 6,5 cm, 6,8 cm, 7 ,cm 7,2 cm.½ Hip 33 cm , 34,5 cm , 36 cm, 37,5 cm, 39 cm Etc.Tolerance again respectively : +/- 0.3 cm, +/- 0.5 cm. +/- 1 cm. +/- 0.2 cm. In which case the tolerance will be fixed.

3.3.4 Measurement Checking in Sample

TEXSPORT B.V.

ORDER NR. TX 23289 STYLE SLIM DENIM DATE 18-6-2021

ART. NR. - DESCRIPTION BOYS DENIM PANTS REV 14-7

AFTER WASH
SIZE EXPD BLUE BIWASH
09-09-21 7-10-21

STYLE SLIM	128	134	140	146	152	Tolerance
A. ½ WAIST RELAXED	29.5	30.5	31.5	32.5	33.5	+/- 0.3 cm
B. HIP MEASURED FROM CROTCH	6.3	6.5	6.8	7	7.2	Fix
C. ½ HIP	33	34.5	36	37.5	39	+/- 0.5 cm
D. ½ THIGH AT CROTCH	19.5	20.5	21.5	22.5	23.5	+/- 0.3 cm
E. CROTCH TO 1/2 KNEE	23	24.5	26	27.5	29	Fix
F. ½ KNEE	13.5	14	14.5	15	15.5	+/- 0.3 cm
G. ½ LEGOPENING	11.5	12	12.5	13	13.5	+/- 0.3 cm
H. INSEAM	57	60.5	64	67.5	71	+/- 1 cm
I. FRONTRISE INCL W/B	19.8	20.5	21.2	21.9	22.6	+/- 0.3 cm
J. BACKRISE INCL W/B	27.8	28.8	29.8	30.8	31.8	+/- 0.3 cm
K. WAISTBAND HEIGHT	4	4	4	4	4	+/- 0.2 cm

STYLE DETAILS	128	134	140	146	152	Tolerance
L. BELTLOOP WIDTH	1.2	1.2	1.2	1.2	1.2	Fix
M. BELTLOOP HEIGHT	5.5	5.5	5.5	5.5	5.5	Fix
N. FLY LENGTH EXCL W/B	10	10	10.5	10.5	11	+/- 0.2 cm
O. FLY WIDTH (incl 2 needle)	3.2	3.2	3.2	3.2	3.2	+/- 0.2 cm
P. FRONT POCKET WIDTH	8	8	8.5	8.5	9	+/- 0.2 cm
Q. FRONT POCKET HEIGHT	6.5	6.5	7	7	7.5	+/- 0.2 cm
R. COINPOCKET HEIGHT						+/- 0.2 cm
S. WIDTH BETWEEN OUTSEAM AND COIN POCKET	1.5	1.5	1.5	1.5	1.5	+/- 0.2 cm
T. BACK YOKE HEIGHT AT C/B	4	4	4.2	4.2	4.5	+/- 0.2 cm
U. BACKYOKE HEIGHT AT SIDE	3	3	3.2	3.2	3.5	+/- 0.2 cm
V. BACK YOKE TO BACK POCKET AT CENTRE	3.5	3.5	3.5	3.5	3.5	+/- 0.2 cm
W. BACK YOKE TO BACK POCKET AT SIDE	4	4	4	4	4	+/- 0.2 cm
X. BACK POCKET WIDTH	12.5	12.5	13	13	13.5	+/- 0.2 cm
Y. BACK POCKET HEIGHT	14	14	14.5	14.5	15	+/- 0.2 cm
Z. TOP BACK POCKET UNTIL CUT & SEWN	8	8	8.5	8.5	9	+/- 0.2 cm

Should run at same height as backyoke at side

9/9/21
 WAIST + 1.50 m ALL
 BK RISE + .50 m ALL

Figure 3.3: Scan copy of measurement checking of sample

Describe the Measurement Checking in Sample

Figure 3.3: shows measurements sheet of this style 23289. Where it has been found Figure 3.3 .

In the above figure 3 different size part have been taken measurement checking of sample

1st size set sample number 128

Given, ½ Waist relaxed 29.5 cm . But -1 cm tolerance decreases by ½ Waist relaxed 28.5 cm . ..[

Comparative Study on Measurements found in Sample and Final Inspection

If tolerance is given here +/-1 , +/- .3, +/--.5cm. But the buyer is asking for a +/-2 , +/-1, +/-1.5, +/- .5centimeter increase in all of them here. And if we do not talk about increasing tolerance, then it must be maintained] Exactly, in this same way , -.5 cm tolerance decreases by ½ thigh at crotch 19 cm. ½ Knee 13.5 cm. But -.5 cm tolerance decreases by ½ Knee 13 cm. Front rise incl w/b 19.8 cm . But +.2 cm tolerance increases by 20 cm. Back rise incl w/b27.8 .But +.2 cm tolerance increases by. Back rise incl w/b 28 cm. Front pocket width at 8 cm . -1 cm tolerance decreases by front pocket width at 8 cm. Front pocket height 6.5 cm. But -1.5 cm tolerance increases by. front pocket height 5 cm. Back yoke height at side 3 cm . But -.5 cm tolerance decreases by back yoke height at side 2.5 cm. Back pocket width 12.5 cm. But -.5 cm tolerance decreases by back pocket width12 cm .And all other measurements are OK

[The highest tolerance has increased here in the 1/2Waist relaxed 29.5 cm -1 cm tolerance = 28.5cm.The lowest tolerance has decreased here in th Front pocket height 6.5 cm -1.5 cm tolerance =5cm.]

2nd size set sample number 140

Given, ½ Waist relaxed 31.5 cm . But -1.5 cm tolerance decreases by ½ Waist relaxed 30.5 cm. ..[If tolerance is given here +/-1 , +/- .3, +/--.5cm. But the buyer is asking for a +/-2 , +/-1, +/- 1.5, +/--.5centimeter increase in all of them here. And if we do not talk about increasing tolerance, then it must be maintained] Exactly, in this same way. ½ Knee 14.5 cm. But -.5 cm tolerance decreases by ½ Knee 14 cm. Again, -.5 cm tolerance decreases by ½ Leg opening 12 cm. Inseam 64cm But +.5. tolerance increases by Inseam 64.5 cm.Front rise incl w/b 21.2 cm . But +.3 cm tolerance increases by 21.5 cm.. Back rise incl w/b 29.8 cm. but, -.5 cm tolerance decreases by back rise incl 29.3 cm

And all other measurements are OK

[The highest tolerance has increased here in the. Inseam 64cm +.5. tolerance=64.5cm.The lowest tolerance has decreased here in the½ Leg opening 12.5-.5 tolerance =12cm.]

3rd size set sample number 152

Given, ½ Waist relaxed 33.5 cm . But -2 cm tolerance decreases by ½ Waist relaxed 31.5 cm. ½ Hip 39 cm. But -.5 cm tolerance decreases by ½ Hip 38.5cm.

Exactly, in this same way , -.5 cm tolerance decreases by ½ thigh at crotch 23 cm.

½ Knee 15.5 cm. But -.5 cm tolerance decreases by ½ Knee 15 cm. Again, -.5 cm tolerance decreases by ½ Leg opening 13 cm.Front rise incl w/b 22.6 cm . But +1 cm tolerance increases by front rise incl 23.6 cm. Back rise incl w/b 31.8cm .But -.5 cm tolerance increases by Back rise incl w/b 31.2 cm. Back pocket width 13.5 cm . But -1 cm tolerance decreases by back pocket width 12.5 cm.Back pocket height 15 cm . But +.5 cm tolerance increases by 15.5 cm.

And all other measurements are OK

[The highest tolerance has increased here in the 1/2Waist relaxed 33.5 cm -2 tolerance = 31.5cm.The lowest tolerance has decreased here in the½ Leg opening 13.5-.5 tolerance =12.5cm..]

Comparative Study on Measurements found in Sample and Final Inspection

3.3.5 Measurement Checking in Final Inspection.

ORDER NR.	TX 23289	STYLE	SLIM DENIM	
ART. NR.	-	DATE	18-6-2021	
DESCRIPTION	BOYSDENIM PANTS REV 14-7			
STYLE SLIM	128	140	152	TOLERANCE
A. ½ WAIST RELAXED	29,5 ✓	31,5 -1	33,5 -1,5	+/- 0,3 cm
B. HIP MEASURED FROM CROTCH	6,3	6,8	7,2	Fix
C. ½ HIP	33 +.5	36 ✓	39 ✓	+/- 0,5 cm
D. ½ THIGH AT CROTCH	19,5 ✓	21,5 ✓	23,5 ✓	+/- 0,3 cm
E. CROTCH TO 1/2 KNEE	23 ✓	26 ✓	29 ✓	Fix
F. ½ KNEE	13,5 +.3	14,5 ✓	15,5 -0,3	+/- 0,3 cm
G. ½ LEGOPENING	11,5 ✓	12,5 ✓	13,5 ✓	+/- 0,3 cm
H. INSEAM	57 ✓	64 +.1	71 ✓	+/- 1 cm
I. FRONTRISE INCL W/B	19,8 ✓	21,2 -0,3	22,6 ✓	+/- 0,3 cm
J. BACKRISE INCL W/B	27,8 ✓	29,8 ✓	31,8 ✓	+/- 0,3 cm
K. WAISTBAND HEIGHT	4	4	4	+/- 0,2 cm
STYLE DETAILS	128	140	152	TOLERANCE
L. BELTLOOP WIDTH	1,2	1,2	1,2	Fix
M. BELTLOOP HEIGHT	5,5	5,5	5,5	Fix
N. FLY LENGTH EXCL W/B	10	10,5	11	+/- 0,2 cm
O. FLY WIDTH (incl 2 needle)	3,2	3,2	3,2	+/- 0,2 cm
P. FRONT POCKET WIDTH	8	8,5	9	+/- 0,2 cm
Q. FRONT POCKET HEIGHT	6,5	7	7,5	+/- 0,2 cm
R. COINPOCKET HEIGHT	Should run at same height as backyoke at side			+/- 0,2 cm
S. WIDTH BETWEEN OUTSEAM AND COIN POCKET	1,5	1,5	1,5	+/- 0,2 cm
T. BACK YOKE HEIGHT AT C/B	4	4,2	4,5	+/- 0,2 cm
U. BACKYOKE HEIGHT AT SIDE	3	3,2	3,5	+/- 0,2 cm
V. BACKYOKE TO BACKPOCKET AT CENTRE	3,5	3,5	3,5	+/- 0,2 cm
W. BACKYOKE TO BACKPOCKET AT SIDE	4	4	4	+/- 0,2 cm
X. BACKPOCKET WIDTH	12,5	13	13,5	+/- 0,2 cm

Figure 3.3: Scan copy of measurement checking of Final Inspection.

Describe the Measurement Checking in Final Inspection

Figure 3.3: shows measurements sheet of this style 23289. Where it has been found Figure 3.3 . In the above figure 3 different size Pant have been taken measurement checking of Final Inspection

1st size set number 128

Given, ½ Hip 33 cm . But, +.5 tolerance increasing by ½ Hip=33.5cm. ½ Knee 13.5 cm . +.3 tolerance increasing by ½ Knee 13.8 cm.

[The highest tolerance has increased here in the ½ Hip 33 cm+.5 = 33.5cm. The lowest tolerance has decreased here in the ½ Knee 13.5 cm+.03 tolerance =13.8cm.]

Comparative Study on Measurements found in Sample and Final Inspection

2nd size set number :140

Given, ½ Waist relaxed 31.5cm. But -1 cm tolerance decreases by ½ Waist relaxed 30.5cm.. [If tolerance is given here +/-1 , +/- .3, +/--.5cm. But the buyer is asking for a +/-2 , +/-1, +/-1.5, +/- .5centimeter increase in all of them here. And if we do not talk about increasing tolerance, then it must be maintained]

Inseam 64 cm. But +1 cm tolerance increases by inseam 65cm.and -.3 cm tolerance decreases by Front rice incl w/b =20.9 cm

[The highest tolerance has increased here in the Inseam 64 cm +1 cm tolerance = 65cm.The lowest tolerance has decreased here in the Front rice incl w/b 21.2-.3cm tolerance =20.9cm.]

3rd size set number

½ Waist relaxed 33.5 cm . But -1.5 cm tolerance decreases by ½ Waist relaxed 32cm. .. [If tolerance is given here +/-1 , +/- .3, +/--.5cm. But the buyer is asking for a +/-2 , +/-1, +/-1.5, +/- .5centimeter increase in all of them here. And if we do not talk about increasing tolerance, then it must be maintained] Exactly, in this same way , -.3 cm tolerance decreases by ½ Knee 15.2 cm.

[The highest tolerance has increased here in the 1/2Waist relaxed 33.5 cm -1 .5cm tolerance = 32cm.The lowest tolerance has decreased here in the ½ Knee 15.5-.3tolerance =15.2cm.]

3.4 Measurement Analysis of Style TX 23291

3.4.1 Order Details

Table 3.4 Order Details (Style TX 23291)


ORDER NR.	TX 23291	STYLE	STRETCH DENIM
ART. NR.	-	DATE	22 JUNE 2021
DESCRIPTI ON	BOYSDENIM PANTSREV 23-8		

1. ART.NR.		2. STYLE	TX 23291
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3. FULL DESCRIPTION
KIDSBOYS JOGG DENIM PANTS
PLEASE FOLLOW SHIPMENT SAMPLE TX 22013, COLLECTION SAMPLE PANAMA 30 AND ARTWORKS

4. ACCESSORIES

Comparative Study on Measurements found in Sample and Final Inspection

A. BUTTON	NO
B. HOOK & EYE	NO
C. JEANS BUTTON	NO
D. RIVET	<p>2 PCS 'PNCH' EMBOSSED METAL RIVETS (9 MM) AT FRONT POCKETS.</p> <ul style="list-style-type: none"> - INDIGO DARK: OLD SILVER COLOUR - GREY: DULL BLACK COLOUR 
E. EYELETS	NO
F. ZIPPER	NO
G. STITCHING	<p>HEAVY YARN (20/4) ALLOVER STITCHING IN:</p> <ul style="list-style-type: none"> - INDIGO DARK: COATS COLOUR C7933 - GREY: COLOUR BLACK. <p><u>PLS USE FEED OF THE ARM STITCHES AND FOLLOW 7 SPI ALL OVER.</u></p>
H. BARTACKS	<p>ALL OVER BARTACKS IN:</p> <ul style="list-style-type: none"> - INDIGO DARK: COATS COLOUR C7933 AND SAFETY YELLOW 13-0630 TN - GREY: COLOUR BLACK AND SHOCKING ORANGE 15-1360 TN <p>ZIGZAG STITCH IN COLOURS:</p> <ul style="list-style-type: none"> -INDIGO DARK: SAFETY YELLOW 13-0630 TN - GREY: SHOCKING ORANGE 15-1360 TN <p>EMBROIDERED HOLES FOR DRAWSTRING IN COATS COLOURS:</p> <ul style="list-style-type: none"> - INDIGO DARK: COATS COLOUR C7933 - GREY: COLOUR BLACK
I. HANGERL OOPS	NO
J. ELASTIC	1 PC GOOD QUALITY ELASTIC AT INSIDE WAISTBAND.
K. DRAWSTRING	<p>1 PC GOOD QUALITY SHOE LACE DRAWSTRING WITH PLASTIC AGLET ENDINGS. DRAWSTRING MUST BE FIXED AT C/B. VISIBLE TAPE LENGTH AT FRONT W/B MUST BE FOR SURE NOT LONGER THAN 17 CM. QUALITY AND OUTLOOK SHOULD BE EXACT THE SAME AS SHIPMENT SAMPLE TX 22013. FOR COLOURS PLEASE FOLLOW:</p> <ul style="list-style-type: none"> - INDIGO DARK: SAFETY YELLOW 13-0630 TN AND BLACK

Comparative Study on Measurements found in Sample and Final Inspection

	- GREY: SHOCKING ORANGE 15-1360 TN AND BLACK
--	--

5. LABELLING	
L. FANCY LABEL	<p>‘PNCH-20’ WOVEN LOOP LABEL UNDERNEATH FRONT POCKET AT LEFT SIDE SEAM (WHEN WORN). SEE ARTWORKS FOR PLACEMENT. COLOURS:</p> <ul style="list-style-type: none"> - INDIGO DARK: SAFETY YELLOW 13-0630 TN - GREY: SHOCKING ORANGE 15-1360 TN
M. BRAND LABEL	WOVEN LABEL ‘PNCH-07’ MUST BE FIXED INSIDE C/B W/B.
N. SIZE LABEL	WOVEN SIZE LABEL ‘PNCH-06’. PLEASE PLACE LEFT FROM BRAND LABEL (WHEN WORN).
O. S/Q LABEL	‘CARE LABEL’ INSIDE LEFT SIDE SEAM WHEN WORN, 10 CM UNDER TOP W/B. PLS USE SATIN POLYESTER QUALITY. COLOUR SHOULD BE WHITE WITH BLACK PRINT.
P. HANGTAG	<ul style="list-style-type: none"> - MAIN HANGTAG ‘PNCH-02’ GUNTAGGED AT LEFT SIDE SEAM WHEN WORN JUST UNDER THE W/B. - JOGG DENIM HANGTAG ‘PNCH-19’ - CAUTION HANGTAG ‘PNCH-01’ <u>FOR INDIGO DARK COLOUR ONLY!</u> <p style="text-align: center;"><u>HANGTAG PLACEMENT FROM TOP TO BOTTOM: PRICE TICKET, JOGG DENIM PNCH-19, CAUTION PNCH-01 AND MAIN HANGTAG PNCH-02</u></p>
Q. FIT TAG	PULL ON SLIM FIT TAG ‘PNCH-26’ ATTACHED AT LEFT FRONT W/B WHEN WORN. EVERY SIZE DOES HAVE A DIFFERENT FIT TAG.
R. W/B LABEL	NO
S. HANGER	NO
T. PRICE TICKET	PRICE TICKET GUNTAGGED AT LEFT SIDE SEAM WHEN WORN JUST UNDER THE W/B. PRICE TICKET SHOULD ALWAYS BE ON TOP OF ALL HANGTAGS. BARCODE MUST ALWAYS BE VISIBLE AND READABLE. PLS DEVELOP BY YOURSELF.
U. WOVEN LABEL	NO
V. SIZE STICKER	NO
W. PRINT	NO

Comparative Study on Measurements found in Sample and Final Inspection

6. MEASUREMENT FOR SAMPLING

WILL BE SEND OUT SEPERATELY

7. FABRIC / COLOUR REFERENCE / SWATCHES

INDIGO DARK: 72% COTTON, 26% POLYESTER, 2% ELASTHAN TTC 512 AMBER DENIM #DOB50359SF 9.25 OZ

GREY: 68,5% COTTON, 30,5% POLYESTER, 1% ELASTHAN TTC715 AARON DENIM #6599BT8,75 OZ

POCKETING: 65% POLYESTER, 35% COTTON

8. WASHING

- INDIGO DARK: TOWEL WASH WITH CHEMICAL, MOUSTACHE AND WRINKLING AT HIPS AS SHIPMENT SAMPLE TX 22013

- GREY: MEDIUM BLEACH WASH WITH CHEMICAL, MOUSTACHE AND WRINKLING AT HIPS AS COLLECTION SAMPLE PANAMA 30

9. PACKING INSTRUCTION

PIECES PER UNIT:

LOT A: 12

LOT B: 6

LOT A + B:

DELIVERED WITH LEFT LEG TWO TIMES ROLLED UP.

EACH PANT NICELY FOLDED. PANTS SHOULD BE ROLLED UP AND TIED WITH A WHITE COLOUR COTTON STRING. EACH UNIT = ... PCS. ASSORTED SIZE, ASSORTED COLOUR PACKED INTO A RE-USABLE POLYBAG WITH 3 IMPRINTED LOGO'S. THEN PUT AS MANY UNITS AS YOU CAN FIT INTO A 7-PLY EXPORT CARTON WITHIN BELOW GIVEN MEASUREMENT REQUIREMENTS. PLS PLACE CARTON LABEL ON SHORT SIDE OF THE BOX (SEE IMAGE ON PAGE 5), TAKE CARE ALL IS PERFECTLY READABLE! SHIPPING UNASSORTED CARTONS IS NOT ALLOWED. DO NOT SHIP ANY AIR.

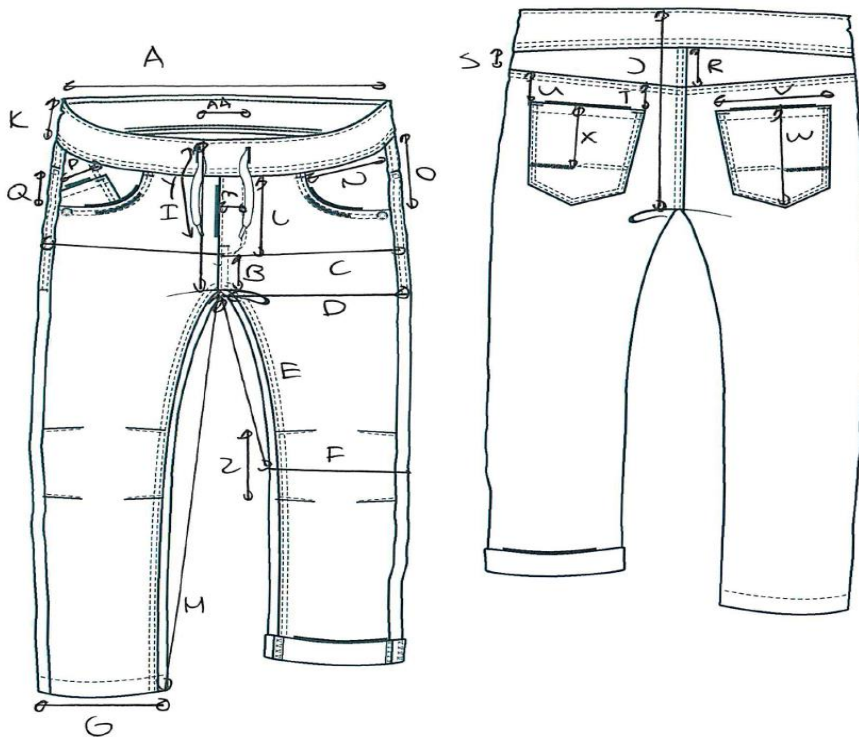
- FIXED CARTON MEASUREMENTS: 58 X 38 CM HEIGHT S/B BETWEEN 20 AND 40 CM
- MAX CARTON WEIGHT 16 KG
- NO STRAPS ALLOWED

Comparative Study on Measurements found in Sample and Final Inspection

Describe the order details :

This is teen boys jogg denim pants. Accessories has been used rivet, , stitching, barracks, elastic ,drawstring. Some special,As rivets(9 MM) at front pockets design PNCH' ,embossed metal old silver colour use as indigo dark. Dull black colour use as grey.. Some special heavy yarn (20/4) allover stitching in:- indigo dark: coats color c7933- grey: color black. and all over barracks in:- indigo dark: coats colour c7933 and safety yellow 13-0630 tn grey: colour black and shocking orange 15-1360 tn. Use as Good quality shoe lace use as drawstring. There are used to eight types of leveling in this pant. Example: fancy label, brand label, size label, care label, hang tag, fit tag price ticket ,print .This fancy level used as a design 'PNCH-20'. And used as a brand label woven label ' Woven label' PNCH -07'.Use to – main hangtag design 'PNCH -02.' jogg denim hangtag design 'pnch-19' caution hangtag 'PNCH-01. . fabric / colour reference / swatches used to indigo dark: 72% cotton, 26% polyester, 2% elasthan ttc 512 amber denim #dob50359sf 9.25 oz.s

3.4.2 Artwork



Comparative Study on Measurements found in Sample and Final Inspection

Figure 3.4 Artwork Style TX 23291

Table 3.2 Artwork Specification Style TX 23291

A. ½ WAIST RELAXED	A. BACKRISE INCL W/B	S. BACKYOKE HEIGHT AT SIDE
B. HIP MEASURED FROM CROTCH	B. WAISTBAND HEIGHT	T. BACK YOKE TO BACK POCKET AT CENTRE
C. ½ HIP	C. L.FLY LENGTH EXCL W/B	U. BACKYOKE TO BACKPOCKET AT SIDE
D. ½ THIGH AT CROTCH	D. FLY WIDTH (incl 2 needle)	V. BACKPOCKET WIDTH, changed into same as FAS
E. CROTCH TO 1/2 KNEE	E. FRONT POCKET WIDTH	W. BACKPOCKET HEIGHT AT LONGEST PART
F. ½ KNEE	F. FRONT POCKET HEIGHT	X. TOP BACK POCKET UNTIL STITCHING
G. ½ LEG OPENING	G. COIN POCKET WIDTH, changed into same as FAS.	Y. TAPES AT W/B LENGTH
H. INSEAM	H. COIN POCKET HEIGHT	Z. HEIGHT BETWEEN KNEE DARTS AT INSEAM
I. FRONTRISE INCL W/B	I. BACK YOKE HEIGHT AT C/B	AA. DISTANCE BETWEEN THE HOLES AT WAISTBAND

Table 3.2.... Above, I see 27 types of measurements in the artwork table.

3.4.3 Measurement Sheet

Table 3.3 Measurement Sheet Style TX 23291

STYLESTRETCH DENIM	92/98	104	110	116	122	128	Tolerance
A. ½ WAIST RELAXED	26,5	27	27,5	28	28,5	29	+/- 0,3 cm

Comparative Study on Measurements found in Sample and Final Inspection

B. HIP MEASURED FROM CROTCH	5,55	5,7	5,85	6	6,15	6,3	Fix
C. ½ HIP	30.5	31.5	32.5	33.5	34.5	35,5	+/- 0,5 cm
D. ½ THIGH AT CROTCH	18	18,5	19	19,5	20	20,5	+/- 0,3 cm
E. CROTCH TO 1/2 KNEE	15.5	17	18.5	20	21.5	22	FIX
F. ½ KNEE	12	12,5	13	13,5	14	14,5	+/- 0,3 CM
G. ½ LEGOPENING	11	11,5	12	12,5	13	13,5	+/- 0,3 CM
H. INSEAM	39,5	43	46,5	50	53,5	57	+/- 1 CM
I. FRONTRISE INCL W/B	16,8	17,4	18	18,6	19,2	19,8	+/- 0,3 CM
J. BACKRISE INCL W/B	24,3	25	25,7	26,4	27,1	27,8	+/- 0,3 CM
K. WAISTBAND HEIGHT	3,5	3,5	3,5	3,5	3,5	3,5	+/- 0,2 CM

STYLE DETAILS	92/9 8	104	110	116	122	128	TOLERANCE
L. L.FLY LENGTH EXCL W/B	8	8,5	8,5	9	9	9,5	+/- 0,2 CM
M. FLY WIDTH (incl 2 needle)	3,2	3,2	3,2	3,2	3,2	3,2	+/- 0,2 CM
N. FRONT POCKET WIDTH	7	7,5	7,5	8	8	8	+/- 0,2 CM
O. FRONT POCKET HEIGHT	5,5	6	6	6,5	6,5	6,5	+/- 0,2 CM
P. COIN POCKET WIDTH, changed into same as FAS.	4	4,5	4,5	5	5	5	+/- 0,2 CM
Q. COIN POCKET HEIGHT	Highest point - left top (when worn) - should be at same height as backyoke height at side						FIX
R. BACK YOKE HEIGHT AT C/B	3,2	3,5	3,5	3,8	3,8	4	+/- 0,2 CM
S. BACKYOKE HEIGHT AT SIDE	2,2	2,5	2,5	2,8	2,8	3	+/- 0,2 CM
T. BACK YOKE TO BACK POCKET AT CENTRE	3	3	3	3	3	3	+/- 0,2 CM
U. BACKYOKE TO BACKPOCKET AT SIDE	3,5	3,5	3,5	3,5	3,5	3,5	+/- 0,2 CM
V. BACKPOCKET WIDTH, changed into same as FAS	10,5	11	11	11,5	11,5	12	+/- 0,2 CM
W. BACKPOCKET HEIGHT AT LONGEST PART	12	12,5	12,5	13	13	13,5	+/- 0,2 CM
X. TOP BACK POCKET UNTIL STITCHING	7	7,5	7,5	8	8	8,5	+/- 0,2 CM
Y. TAPES AT W/B LENGTH	17	17	17	17	17	17	FIX BUT FOR SURE NOT

Comparative Study on Measurements found in Sample and Final Inspection

								LONGER THAN 17 CM!
Z. HEIGHT BETWEEN KNEE DARTS AT INSEAM	10	10,5	11	11,5	12	12,5		+/- 0,2 CM
AA. DISTANCE BETWEEN THE HOLES AT WAISTBAND	5,5	5,5	5,5	5,5	5,5	5,5		+/- 0,2 CM

Table 3.4 shows measurements sheet of this style 23291

It has been observed this table different Six size label pant. And each 6size pants ,there are also different number, and Points of measurement (POM.). Example, 92/98size , 104 size, 110 size, 116 size, 122 size and 128size .Respectively, ½ WAIST RELAXED.. 26,5cm, 27 cm, 27,5 cm, 28 cm, 28,5 cm, 29 cm. And respectively, Hip measured from crotch respectively,. 5,55cm , 5,7 cm , 5,85 cm , 6 cm , 6,15 cm , 6,3 cm .½ Hip 30.5 cm, 31.5 cm, 32.5 cm , 33.5 cm , 34.5 cm , 35,5 cm . Etc.Tolerance again respectively : +/- 0.3 cm, +/- 0.5 cm. +/- 1 cm. +/- 0.2 cm. In which case the tolerance will be fixed.

3.4.4 Measurement Checking in Sample

Comparative Study on Measurements found in Sample and Final Inspection

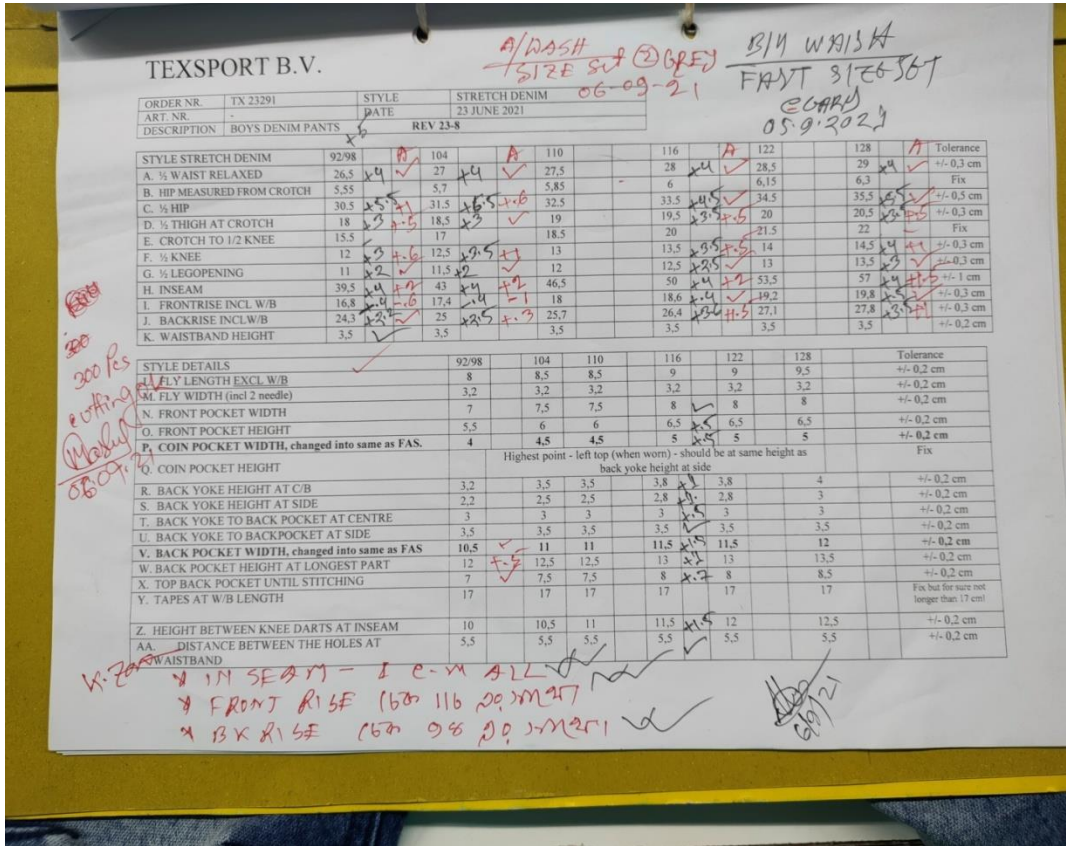


Figure 3.4: Scan copy of measurement checking of sample

Describe the measurement checking in sample

Figure 4.1 shows measurements sheet of this style 23291. Where it has been found figure 4.1 In the above figure 4 different size Pant have been taken measurement checking of sample.

1st size set sample number 92/98

Given, measurement of 1/2 hip 30.5cm But tolerance increases by + 1cm. So, 1/2 hip 31.5cm There was measurement 1/2 thigh at crotch 18cm . But +.5 cm tolerance increases by 1/2 thigh at crotch 18.5cm. 1/2 KNEE 12 cm. But tolerance decreases by -.6cm. So, As result 1/2 knee 12.6cm. Inseam 39.5 cm . But +2 tolerance increases by inseam 41.5 cm. Front rise incl w/b 16.8cm. but - .6 cm tolerance decreases by front rise incl w/b 16.2cm. Back pocket height at longest part 12cm. But +.5 cm tolerance increases by back pocket height at longest part 12.5 cm.

And all other measurements are OK... [If tolerance is given here +/- 1 , +/- 3, +/- .5cm. But the buyer is asking for a +/- 2 , +/- 1, +/- centimeter increase in all of them here. And if we do not talk about increasing tolerance, then it must be maintained] [The highest tolerance has increased here in the Inseam 39.5cm +2 tolerance = 41.5cm. The lowest tolerance has decreased here in the Front Rise incl w/b 16.8 cm -.6cm tolerance = 16.2cm.]

2nd size set sample number 104

Given, measurement of 1/2 Hip 31.5cm But tolerance increases by + .6cm. So, 1/2 Hip 32.1cm.

Comparative Study on Measurements found in Sample and Final Inspection

. ½ Knee 12.5 cm. But tolerance increases by +.1cm. So, As result ½ Knee 13.5cm.

Inseam 43cm . But +2 tolerance increases by inseam 45 cm.. [If tolerance is given here +/-1 , +/-3, +/- .5cm. But the buyer is asking for a +/-2 , +/-1, +/-centimeter increase in all of them here. And if we do not talk about increasing tolerance, then it must be maintained]

. Front rise incl w/b 17.4cm. but -.1 cm tolerance decreases by front rise incl w/b 16.4cm. Back rise incl w/b 25cm. But +.3 cm tolerance increases by 25.3 cm. And all other measurements are OK [The highest tolerance has increased here in the Inseam 43cm +2 tolerance = 45cm. The lowest tolerance has decreased here in the Front Rise incl w/b 17.4 cm -1cm tolerance =16.4cm.

3rd size set sample number 116

Given, measurement of ½ thigh at crotch 19.5cm . But +.5 cm tolerance increases by ½ thigh at crotch 20cm. ½ Knee 13.5 cm. But tolerance increases by +.5cm. So, As result ½ knee 14cm.

Inseam 50 cm . But +2 tolerance increases by inseam 52 cm. Back rise incl w/b 26.4cm. but +1.5 cm tolerance increases by back rise incl w/b 27.9cm.

And all other measurements are OK [The highest tolerance has increased here in the Inseam 52cm +2 tolerance = 54cm. The lowest tolerance has decreased here in the ½ Knee 13.5 cm +.5cm tolerance =14cm.]

4th size set sample number 128

Given, measurement of ½ thigh at crotch 20.5cm . But +.5 cm tolerance increases by ½ thigh at crotch 21cm. ½ Knee 14.5 cm. But tolerance increases by +1cm. So, As result ½ knee 15.5cm.

Inseam 57 cm . But +1.5 tolerance increases by inseam 58.5cm. Back rise incl w/b 27.8cm. but +1 cm tolerance increases by back rise incl w/b 28.8cm. And all other measurements are Ok [The highest tolerance has increased here in the Inseam 57cm +1.5= 58.5cm. The lowest tolerance has decreased here in the ½ Knee 14.5 cm +1cm tolerance =15.5cm.]

3.4.5 Measurement Checking in Final Inspection

Comparative Study on Measurements found in Sample and Final Inspection

B/A ~~BLACK~~
SIZE SET ~~BLACK~~ GREY
9-9-21

TEXSPORT B.V.

ORDER NR.	TX 23291	STYLE	STRETCH DENIM				
ART. NR.	-	DATE	23 JUNE 2021				
DESCRIPTION	BOYS DENIM PANTS		REV 23-8				
STYLE STRETCH DENIM	92/98	104	110	116	122	128	Tolerance
A. 1/2 WAIST RELAXED	26,5	27	27,5	28	28,5	29	+/- 0,3 cm
B. HIP MEASURED FROM CROTCH	5,55	5,7	5,85	6	6,15	6,3	Fix
C. 1/2 HIP	30,5	31,5	32,5	33,5	34,5	35,5	+/- 0,5 cm
D. 1/2 THIGH AT CROTCH	18	18,5	19	19,5	20	20,5	+/- 0,3 cm
E. CROTCH TO 1/2 KNEE	15,5	17	18,5	20	21,5	22	Fix
F. 1/2 KNEE	12	12,5	13	13,5	14	14,5	+/- 0,3 cm
G. 1/2 LEGOPENING	11	11,5	12	12,5	13	13,5	+/- 0,3 cm
H. INSEAM	39,5	43	46,5	50	53,5	57	+/- 1 cm
I. FRONTRISE INCL W/B	16,8	17,4	18	18,6	19,2	19,8	+/- 0,3 cm
J. BACKRISE INCL W/B	24,3	25	25,7	26,4	27,1	27,8	+/- 0,3 cm
K. WAISTBAND HEIGHT	3,5	3,5	3,5	3,5	3,5	3,5	+/- 0,2 cm
STYLE DETAILS	92/98	104	110	116	122	128	Tolerance
L. FLY LENGTH EXCL W/B	8	8,5	8,5	9	9	9,5	+/- 0,2 cm
M. FLY WIDTH (incl 2 needle)	3,2	3,2	3,2	3,2	3,2	3,2	+/- 0,2 cm
N. FRONT POCKET WIDTH	7	7,5	7,5	8	8	8	+/- 0,2 cm
O. FRONT POCKET HEIGHT	5,5	6	6	6,5	6,5	6,5	+/- 0,2 cm
P. COIN POCKET WIDTH, changed into same as FAS.	4	4,5	4,5	5	5	5	+/- 0,2 cm
Q. COIN POCKET HEIGHT		Highest point - left top (when worn) - should be at same height as back yoke height at side					Fix
R. BACK YOKE HEIGHT AT C/B	3,2	3,5	3,5	3,8	3,8	4	+/- 0,2 cm
S. BACK YOKE HEIGHT AT SIDE	2,2	2,5	2,5	2,8	2,8	3	+/- 0,2 cm
T. BACK YOKE TO BACK POCKET AT CENTRE	3	3	3	3	3	3	+/- 0,2 cm
U. BACK YOKE TO BACKPOCKET AT SIDE	3,5	3,5	3,5	3,5	3,5	3,5	+/- 0,2 cm
V. BACK POCKET WIDTH, changed into same as FAS	10,5	11	11	11,5	11,5	12	+/- 0,2 cm
W. BACK POCKET HEIGHT AT LONGEST PART	12	12,5	12,5	13	13	13,5	+/- 0,2 cm
X. TOP BACK POCKET UNTIL STITCHING	7	7,5	7,5	8	8	8,5	+/- 0,2 cm
Y. TAPES AT W/B LENGTH	17	17	17	17	17	17	Fix but for sure not longer than 17 cm!
Z. HEIGHT BETWEEN KNEE DARTS AT INSEAM	10	10,5	11	11,5	12	12,5	+/- 0,2 cm
AA. DISTANCE BETWEEN THE HOLES AT WAISTBAND	5,5	5,5	5,5	5,5	5,5	5,5	+/- 0,2 cm

Figure 3.4: Scan copy of measurement checking of final inspection

Describe the measurement checking in Final Inspection

Figure 4.1 shows measurements sheet of this style 23291. Where it has been found figure 4.1

In the above figure three different sizes pant. Pant have been taken measurement checking of final inspection.

1st measurement checking in Final Inspection. Pant size number 104

Given, measurement of 1/2 Hip 31.5cm But tolerance increases by + 1cm. So, 1/2 Hip 32.5cm. Measurement of 1/2 thigh at crotch 18.5cm . But +.5 cm tolerance increases by 1/2 thigh at crotch

Comparative Study on Measurements found in Sample and Final Inspection

19cm. $\frac{1}{2}$ Knee 12.5 cm. But tolerance increases by +1cm. So, As result $\frac{1}{2}$ Knee 13.5cm.

Inseam 43cm . But +1.5 tolerance increases by inseam 44.5 cm..Back rise incl w/b 25cm. But +.5 cm tolerance increases by 25.5 cm.[If tolerance is given here +/-1 ,+/- 3, +/--.5cm. But the buyer is asking for a +/-2 ,+/-1, +/-centimeter increase in all of them here. And if we do not talk about increasing tolerance, then it must be maintained] And all other measurements are OK

[The highest tolerance has increased here in the Inseam 43cm +1.5= 44.5cm.The lowest tolerance has decreased here in the $\frac{1}{2}$ Knee 12.5 cm +1cm tolerance =13.5cm.]

2nd measurement checking in Final Inspection. Pant size number 116

Given, measurement of $\frac{1}{2}$ Hip 33.5cm But tolerance increases by+ .5cm. So, $\frac{1}{2}$ Hip 34.5cm.

Measurement of $\frac{1}{2}$ thigh at crotch 19.5cm . But -.5 cm tolerance decreases by $\frac{1}{2}$ thigh at crotch 19cm. $\frac{1}{2}$ Knee 13.5 cm. But tolerance increases by+1cm. So, As result $\frac{1}{2}$ knee 14.5cm. .[If tolerance is given here +/-1 ,+/- 3, +/--.5cm. But the buyer is asking for a +/-2 ,+/-1, +/-centimeter increase in all of them here. And if we do not talk about increasing tolerance, then it must be maintained] $\frac{1}{2}$ Leg opening 12.5 cm. But +.5 tolerance increases by $\frac{1}{2}$ Leg opening 13.5cm

Inseam 50 cm . But +1.5 tolerance increases by inseam 51.5 cm. Front rise incl w/b18.6cm. but +.5 cm tolerance increases by front rise incl 19.1cm. Back rise incl w/b 26.4cm. but +.5 cm tolerance increases by back rise incl w/b 26.9cm. And all other measurements are OK

[The highest tolerance has increased here in the Inseam 50cm +1.5= 51.5cm.The lowest tolerance has decreased here in the $\frac{1}{2}$ thigh at crotch19.5cm -.5cm tolerance =18.5cm.]

3rd measurement checking in Final Inspection. Pant size number 128

Given, measurement of $\frac{1}{2}$ Hip 35.5cm But tolerance increases by+ .5cm. So, $\frac{1}{2}$ Hip 36cm. $\frac{1}{2}$ Knee 14.5 cm. But tolerance increases by+1cm. So, As result $\frac{1}{2}$ knee 15.5cm. Front rise incl w/b19.8cm. but +.5 cm tolerance increases by front rise incl 20.3cm.. Back rise incl w/b 27.8cm. but +.8 cm tolerance increases by back rise incl w/b 28.6cm. And all other measurements are Ok[The highest tolerance has increased here in the $\frac{1}{2}$ Knee 14.5 cm +1= 15.5cm.The lowest tolerance has decreased here in the Front rise incl w/b19.8cm +.5 cm -.5cm tolerance =20.3cm.]

Chapter 4
DISCUSSION OF RESULTS

Comparative Study on Measurements found in Sample and Final Inspection

4.1 Comparison of measurement for style TX23292

Table 4.1.1 Comparison of measurement in Sample And Final Inspection.

Mesurment	Actual Average measurement For different size	Average measurement found in Sample, For different size	Average measurement found in Final Inspection, For different size	TOLERANCE
A. ½ WAIST RELAXED	28 cm	28 cm	27.3 cm	+/- 0,3 CM
B. HIP MEASURED FROM CROTCH	6 cm	6 cm	6 cm	FIX
C. ½ HIP	35 cm	34.6 cm	33.3 cm	+/- 0,5 CM
D. ½ THIGH AT CROTCH	19.5 cm	20 cm	19.3 cm	+/- 0,3 CM
E. CROTCH TO 1/2 KNEE	19.6 cm	19.6 cm	19.6 cm	FIX
F. ½ KNEE	13.5 cm	14.6 cm	13.5 cm	+/- 0,3 CM
G. ½ LEGOPENING	12.5 cm	12.6 cm	12.16 cm	+/- 0,3 CM
H. INSEAM	50 cm	51 cm	50.1 cm	+/- 1 CM
I. FRONTRISE INCL W/B	18.6 cm	18.7 cm	18.8 cm	+/- 0,3 CM
J. BACKRISE INCL W/B	26.4 cm	27.2 cm	26.5 cm	+/- 0,3 CM
K. WAISTBAND HEIGHT	3.5 cm	3.5 cm	3.5 cm	+/- 0,2 CM
L. FLY LENGTH EXCL W/B	9 cm	9.3 cm	9 cm	+/- 0,2 CM
M. FLY WIDTH (incl 2 needle)	13 cm	3.3 cm	3.2 cm	+/- 0,2 CM
N. FRONT POCKET WIDTH	7.8 cm	8.1 cm	7.8 cm	+/- 0,2 CM
O. FRONT POCKET HEIGHT	6.3 cm	6.8 cm	6.3 cm	+/- 0,2 CM

Comparative Study on Measurements found in Sample and Final Inspection

P. COIN POCKET WIDTH, changed into same as FAS.	4.8 cm	4.9 cm	4.8 cm	+/- 0,2 CM
Q. COIN POCKET HEIGHT	Fix	Fix	Fix	FIX
R. BACK YOKE HEIGHT AT C/B	3.7 cm	4.1 cm	3.7 cm	+/- 0,2 CM
S. BACKYOKE HEIGHT AT SIDE	2.7 cm	3.1 cm	2.7 cm	+/- 0,2 CM
T. BACK YOKE TO BACK POCKET AT CENTRE	3 cm	3.1 cm	3 cm	+/- 0,2 CM
U. BACKYOKE TO BACKPOCKET AT SIDE	3.5 cm	3.6 cm	3.5 cm	+/- 0,2 CM
V. BACKPOCKET WIDTH, changed into same as FAS.	11.5 cm	12 cm	11.5 cm	+/- 0,2 CM
W. BACKPOCKET HEIGHT AT LONGEST PART	13 cm	13.5 cm	13 cm	+/- 0,2 CM
X. TOP BACK POCKET UNTIL STITCHING measured in the centre	8 cm	8 cm	8 cm	+/- 0,2 CM
Y. TAPES AT W/B LENGTH	17 cm	17 cm	17 cm	FIX BUT FOR SURE NOT LONGER THAN 17 CM!
Z. HEIGHT BETWEEN KNEE DARTS AT INSEAM, changed into same as FAS.	7 cm	7.5 cm	7 cm	+/- 0,2 CM
AA. DISTANCE BETWEEN THE HOLES AT WAISTBAND	5.5 cm	5.5 cm	5.6 cm	+/- 0,2 CM

Shows measurements sheet of this style... TX 23292.....It has been observed this table different

Comparative Study on Measurements found in Sample and Final Inspection

3 size label pant use to Sample and Final Inspection . . Each of them is being averaged by the point measurements. And showing the Comparison of measurement in Sample And Final Inspection

Example : Given Sample , $\frac{1}{2}$ Waist relaxed = $27+28+29=84/3=28$ cm. Then, hip measured from crotch = $5.7+6+6.3= 18/6= 6$ cm. $\frac{1}{2}$ Hip = $(31.5+1.5)+(33.5+1)+(35.5+1)=104/3=34.6$ cm.

$\frac{1}{2}$ Thigh at crotch = $(18.5+.5)+(19.5+.5)+(20.5+.5) =60/3=20$ cm. In this exactly same way Final Inspection. Given, $\frac{1}{2}$ Waist relaxed = $(27-.5)+(28-.5)+(29-1)=82/3=27.3$ cm. Then, hip measured from crotch = $5.7+6+6.3= 18/3= 6$ cm. $\frac{1}{2}$ Hip = $(31.5+.5)+(33.5-.5)+(35.5-.5)=99.5/3=33.1$ cm.

$\frac{1}{2}$ Thigh at crotch = $18.5+19.5+(20.5-.5) =58/3=20$ cm.Etc

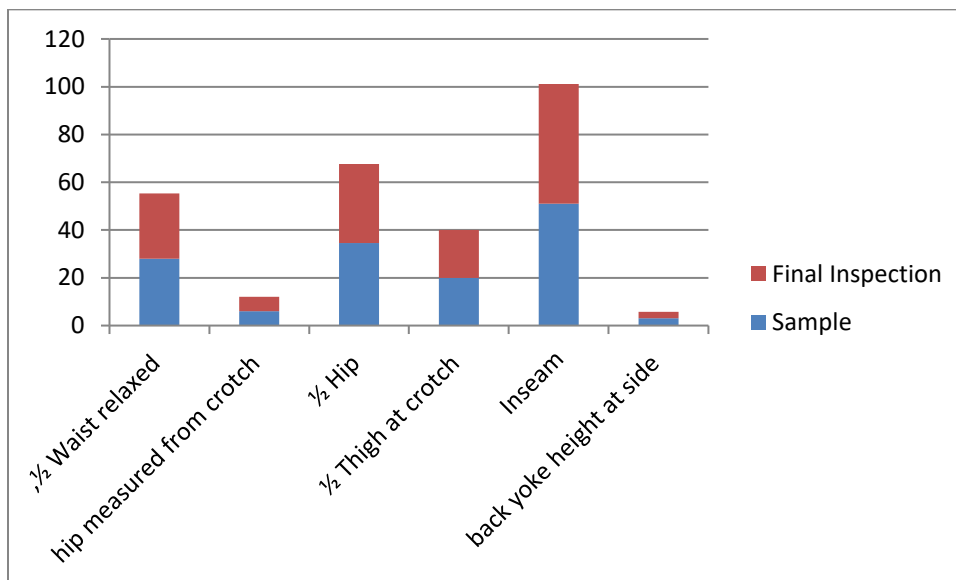


Figure 4.1 Graphical analysis of Comparison of measurement in Sample And Final Inspection.

I can see by Comparison of measurement in Sample, $\frac{1}{2}$ Waist relaxed 28 cm. But On the other hand measurement in Final Inspection 27.3 cm. That is, the of sample measurement increases 0.7 cm. on the other hand, Measurement of hip measured from crotch is equal. Again the measurement of Sample, $\frac{1}{2}$ Hip 34.6cm. And measurement in Final Inspection $\frac{1}{2}$ Hip 33.3 cm . Here, if the sample and final inspection is compared then the quantity of sample will increase 1.3 cm. The measurement of Sample, $\frac{1}{2}$ Thigh at crotch 20 cm , and the other side final inspection 19.3cm , compare the sample and final inspection. Sample will increase 0.7 cm.

[Higher average value measurement of Sample, Inseam=51cm,. And Lower average value of measurement back yoke height at side 3.1 cm] . [And Higher average value measurement of Final Inspection, Inseam=50.1cm And Lower average value of measurement of back yoke height

Comparative Study on Measurements found in Sample and Final Inspection

at side 2.7cm]

4.2 Comparison of measurement for style TX23320

Table 4.2.1 Comparison of measurement in Sample And Final Inspection.

Mesurment	Actual Average measurement For different size	Average measurement found in Sample, For different size	Average measurement found in Final Inspection, For different size	TOLERANCE
A. ½ WAIST RELAXED	21.25 cm	21.3 cm	21.5 cm	+/-0.5CM
B. ½ WAIST STRETCHED	25.25 cm	25.5 cm	25.25 cm	+/-0.5CM
C. HIP MEASURED FROM CROTCH	5.025 cm	5.02 cm	5.02 cm	Fix
D. ½ HIP	27.7 cm	23.3 cm	25 cm	+/-0.5CM
E. ½ THIGH AT CROTCH	14.7 cm	13.3 cm	11.25 cm	+/-0.5CM
F. CROTCH TO ½ KNEE	11.5 cm	11.5 cm	11.37 cm	Fix
G. ½ KNEE	9.7 cm	9.25 cm	9.8 cm	+/-0.3CM
H. ½ LEGOPENING	9.8 cm	8.6 cm	9.5 cm	+/-0.3CM
I. INSEAM	25 cm	24.3 cm	26.25 cm	+/-1CM
J. FRONTRISE INCL W/B	15.3 cm	15.7 cm	15.26 cm	+/-0.5CM
K. BACKRISE INCL W/B	22.3 cm	21.9 cm	22 cm	+/-0.5CM
L. WAISTBAND HEIGHT	3 cm	3 cm	3 cm	+/-0.2CM
M. HEM HEIGHT	1.3 cm	1.3 cm	1.3 cm	+/-0.2CM
N. FAKE FLY LENGTH EXCL W/B	7.5 cm	7.5 cm	7.5 cm	Fix
O. FAKE FLY WIDTH	3 cm	3.07 cm	3 cm	Fix
P. FRONT POCKET WIDTH	5.2 cm	5.3 cm	5.25 cm	+/-0.2CM

Comparative Study on Measurements found in Sample and Final Inspection

Q. FRONT POCKET HEIGHT	6.25 cm	5.8 cm	6.26 cm	+/-0.2CM
R. COINPOCKET VISIBLE HEIGHT	2.5 cm	2.5 cm	2.5 cm	+/-0.2CM
S. V-YOKE HEIGHT AT CENTRE	3.65 cm	3.6 cm	3.6 cm	+/-0.2CM
T. V-YOKE HEIGHT AT SIDE	2.35 cm	2.3 cm	2.3 cm	+/-0.2CM
U. DISTANCE V-YOKE TO BACKPOCKET AT CROTCH	2.7 cm	2.7 cm	2.5 cm	+/-0.2CM
V. DISTANCE V-YOKE TO BACKPOCKET AT SIDE	3 cm	3 cm	3 cm	+/-0.2CM
W. BACKPOCKET WIDTH AT TOP	8.7 cm	8.6 cm	8.75 cm	+/-0.2CM
X. BACKPOCKET WIDTH AT BOTTOM	8.25 cm	8.25 cm	7.7 cm	+/-0.2CM
Y. BACKPOCKET HEIGHT	10.75 cm	10.75 cm	10.75 cm	+/-0.2CM
Z. DISTANCE BETWEEN KNEE DARTS AT INSEAM	6.5 cm	6.5 cm	6.5 cm	+/-0.2CM
AA. CORD LENGTH AT FRONT	12.5 cm	12.5 cm	12.5 cm	FIX, but for sure not longer than 14 cm!

Shows measurements sheet of this style... TX 23320.....It has been observed this table different 4 size label pant use to Sample and Final Inspection . . Each of them is being averaged by the point measurements. And showing the of measurement in Sample And Final Inspection. Example : Given Sample ,½ Waist relaxed = $20.5+21+.5+21.5+22=85.5/4=21.3\text{cm}$. Then, ½ Waist stretched= $24.5+25+25.5+26=101/4=25.25\text{cm}$.

hip measured from crotch = $4.8+4.95+5.1+5.25=20.1/4=5.02\text{cm}$

½ Hip = $(24-2)+(24.5-2)+(25-1)+(25.5-.5)=93.5/4=23.3\text{cm}$.In this exactly same way Final Inspection. Given, ,½ Waist relaxed $20.5+.5+21+21.5+.5+22=86/4=21.5\text{cm}$. Then, ½ Waist stretched= $24.5+25+25.5+26=101/4=25.25\text{cm}$

hip measured from crotch = $4.8+4.95+5.1+5.25=20.1/4=5.02\text{cm}$

½ Hip = $24+24.5+.5+(25+1)+25.5/4=100/4=25\text{cm}$.Etc

Comparative Study on Measurements found in Sample and Final Inspection

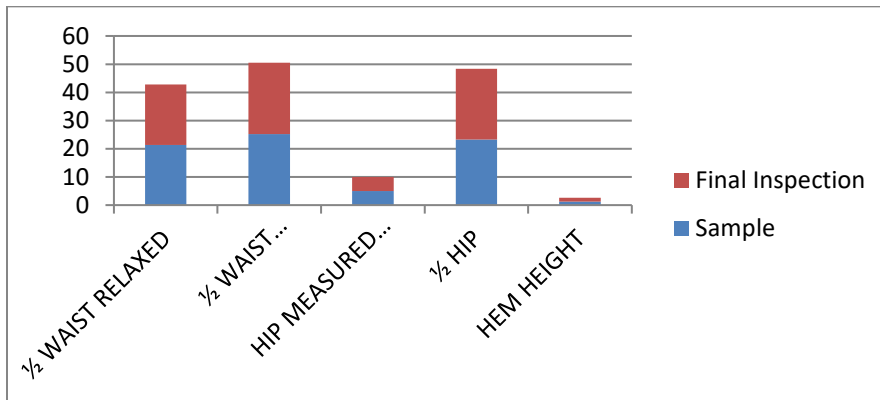


Figure 4.2 Graphical analysis of Comparison of measurement in Sample And Final Inspection.

I can see by Comparison of measurement in Sample, 1/2 Waist relaxed 21.3 cm. But On the other hand measurement in Final Inspection 21.5 cm. That is, the of Final Inspection measurement increases 0.2 cm. Then, the measurement of Sample 1/2 Waist stretched 25.25cm, And , the measurement of Final Inspection 25.25. So 1/2 Waist stretched result compare of measurement in Sample And Final Inspection is equal. on the other hand, Measurement of hip measured from crotch is equal. Again the measurement of Sample 1/2 Hip 23.3cm. And measurement in Final Inspection 1/2 Hip 25 cm . Here, if the sample and final inspection is compared then the quantity of final inspection will increase 1.7 cm.

[Higher average value measurement of Sample, 1/2 Waist stretched 25.25cm,. And Lower average value of measurement hem height 1.3 cm] . [And Higher average value measurement of Final Inspection 1/2 Waist stretched 25.25cm, And Lower average value of measurement of hem height 1.3 cm]

4.3 Comparison of measurement For style TX23289

Table 4.3.1 Comparison of measurement in Sample And Final Inspection.

Measurement	Actual Average measurement For different Size	Average measurement found in Sample, For different size	Average measurement found in Final Inspection, For different size	TOLERANCE
A. 1/2 WAIST RELAXED	31.5 cm	30 cm	30.6 cm	+/- 0,3 CM

Comparative Study on Measurements found in Sample and Final Inspection

B. HIP MEASURED FROM CROTCH	6.7 cm	6.7 cm	6.7 cm	FIX
C. ½ HIP	36 cm	35.8 cm	36.16 cm	+/- 0,5 CM
D. ½ THIGH AT CROTCH	21.5 cm	21.1 cm	21.3 cm	+/- 0,3 CM
E. CROTCH TO 1/2 KNEE	26 cm	26 cm	26 cm	Fix
F. ½ KNEE	14.3 cm	14 cm	14.5 cm	+/- 0,3 cm
G. ½ LEGOPENING	12.16 cm	12 cm	12.5 cm	+/- 0,3 cm
H. INSEAM	63.8 cm	64 cm	64.3 cm	+/- 1 cm
I. FRONTRISE INCL W/B	21.5 cm	21.7 cm	21.1 cm	+/- 0,3 cm
J. BACKRISE INCLW/B	21.13 cm	29.5 cm	29.8	+/- 0,3 cm
K. WAISTBAND HEIGHT	4 cm	4 cm	4 cm	+/- 0,2 cm
L. BELTLOOP WIDTH	1.2 cm	1.2 cm	1.2 cm	Fix
M. BELTLOOP HEIGHT	5.5 cm	5.5 cm	5.5 cm	FIX

Comparative Study on Measurements found in Sample and Final Inspection

N. FLY LENGTH EXCL W/B	10.5 cm	10.5 cm	10.5 cm	+/- 0,2 CM
O. FLY WIDTH (incl 2 needle)	3.2 cm	3.2 cm	3.2 cm	+/- 0,2 CM
P. FRONT POCKET WIDTH	8.5 cm	8.1 cm	8.5 cm	+/- 0,2 CM
Q. FRONT POCKET HEIGHT	7 cm	6.5 cm	7 cm	+/- 0,2 CM
R. COINPOCKET HEIGHT	Fix	Fix	Fix	+/- 0,2 CM
S. WIDTH BETWEEN OUTSEAM AND COIN POCKET	1.5 cm	1.5 cm	1.5 cm	+/- 0,2 CM
T. BACK YOKE HEIGHT AT C/B	4.2 cm	4.2 cm	4.2 cm	+/- 0,2 CM
U. BACKYOKE HEIGHT AT SIDE	3.2 cm	3 cm	3.2 cm	+/- 0,2 CM
V. BACKYOKE TO BACKPOCKET AT CENTRE	3.5 cm	3.5 cm	3.5 cm	+/- 0,2 CM
W. BACKYOKE TO BACKPOCKET AT SIDE	4 cm	4.1 cm	4 cm	+/- 0,2 CM
X. BACKPOCKET WIDTH	12.6 cm	12.6cm	13 cm	+/- 0,2 CM
Y. BACKPOCKET HEIGHT	14.5 cm	14.6 cm	14.5 cm	+/- 0,2 CM

Comparative Study on Measurements found in Sample and Final Inspection

Z. TOP BACK POCKET UNTIL CUT & SEWN	8.5 cm	8.5 cm	8.5 cm	+/- 0,2 Cm
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Shows measurements sheet of this style... TX 23289.....It has been observed this table different 3 size label pant use to Sample and Final Inspection . . Each of them is being averaged by the point measurements. And showing the Comparison of measurement in Sample And Final Inspection Example : Given Sample ,½ Waist relaxed = $(29.5-1)+(31.5-1.5)+(33.5-2)=90/3=30\text{cm}$. Then, hip measured from crotch = $6.3+6.8+7.2= 20/3= 6.7\text{cm}$. ½ HIP= $33+36+(39+.5) =107.5/3=35.8 \text{ cm}$. In this exactly same way Final Inspection. Given, ½ Waist relaxed = $29.5+(31.5-1)+(33-1.5)=92/3=30.6\text{cm}$. Then, hip measured from crotch = $6.3+6.8+7.2= 20.3/3= 6.7\text{cm}$. ½ Hip = $(33.5+.5)+36+39=108.5/3=36.16 \text{ cm}$..Etc

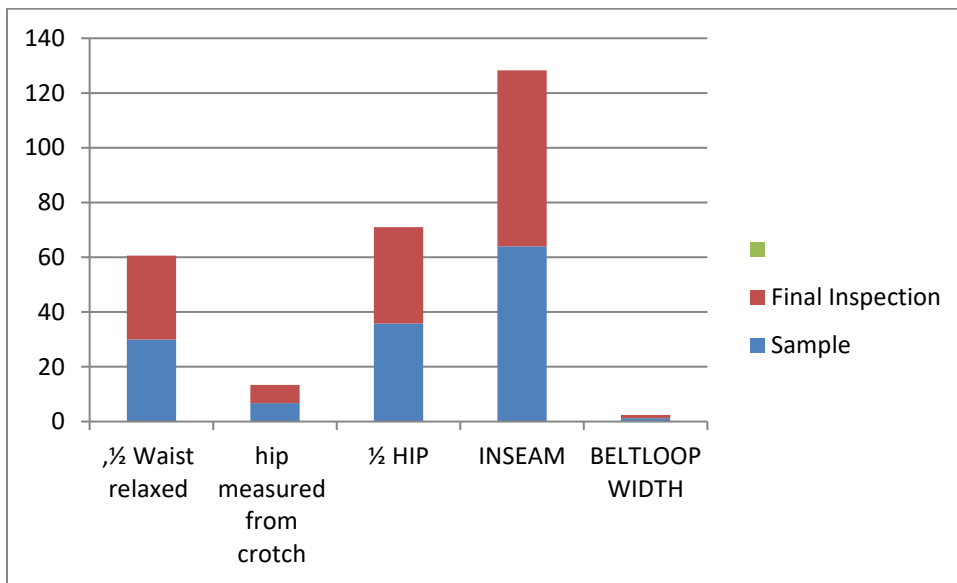


Figure 4.3 Graphical analysis of Comparison of measurement in Sample And Final Inspection.

I can see by Comparison of measurement in Sample, ½ Waist relaxed 30 cm. But On the other hand measurement in Final Inspection 30.6 cm. That is, the of Final Inspection measurement increases 0.6 cm. Then, the measurement of Sample hip measured from crotch 6.7cm ,And , the measurement of Final Inspection 6.7. So, result compare of measurement in Sample And Final Inspection is equal. Then Sample of ½ Hip 35.8cm. And measurement in Final Inspection ½ Hip 35.16 cm . Here, if the sample and final inspection is compared then the quantity of sample will increase 0.34cm.

Comparative Study on Measurements found in Sample and Final Inspection

[Higher average value measurement of Sample, Inseam 64cm. And Lower average value of measurement belt loop width 1.2] . [And Higher average value measurement of Final Inspection Inseam 64.3cm. And Lower average value of measurement belt loop width 1.2]

4.4 Comparison of measurement for style TX 23291

Table 4.4.1 Comparison of measurement in Sample And Final Inspection.

Mesurment	Actual Average measurement For different size	Average measurement found in Sample, For different size	Average measurement found in Final Inspection, For different size	TOLERANCE
A. ½ WAIST RELAXED	27.6 cm	27.6cm	27.6 cm	+/- 0,3 CM
B. HIP MEASURED FROM CROTCH	5.8 cm	5.8 cm	5.8 cm	FIX
C. ½ HIP	32.8 cm	33.6 cm	33.25 cm	+/- 0,5 CM
D. ½ THIGH AT CROTCH	19.1 cm	19.3 cm	19.1 cm	+/- 0,3 CM
E. CROTCH TO 1/2 KNEE	18.6 cm	18.6 cm	18.6 cm	FIX
F. ½ KNEE	13.5 cm	13.6 cm	14 cm	+/- 0,3 CM
G. ½ LEGOPENING	12.12 cm	12.2 cm	12.3 cm	+/- 0,3 CM
H. INSEAM	47.3 cm	48.8 cm	48.12 cm	+/- 1 CM
I. FRONTRISE INCL W/B	18 cm	18.05 cm	18 cm	+/- 0,3 CM
J. BACKRISE INCLW/B	25.8 cm	26.3 cm	26.2 cm	+/- 0,3 CM
K. WAISTBAND HEIGHT	3.5 cm	3.5 cm	3.5 cm	+/- 0,2 CM
L. L.FLY LENGTHEXCL W/B	8.75 cm	8.7 cm	8.7 cm	+/- 0,2 CM
M. FLY WIDTH (incl 2 needle)	3.2 cm	3.2 cm	3.2 cm	+/- 0,2 CM
N. FRONT POCKET WIDTH	7.6 cm	7.6 cm	7.6 cm	+/- 0,2 CM
O. FRONT POCKET HEIGHT	6.1 cm	6.25 cm	6.1 cm	+/- 0,2 CM
P. COIN POCKET WIDTH, changed into same as FAS.	4. 6cm	4.75 cm	4.6 cm	+/- 0,2 CM
Q. COIN POCKET HEIGHT	Fix	Fix	Fix	FIX
R. BACK YOKE HEIGHT AT C/B	3.6 cm	3.8 cm	3.6 cm	+/- 0,2 CM

Comparative Study on Measurements found in Sample and Final Inspection

S. BACKYOKE HEIGHT AT SIDE	2.6 cm	2.8 cm	2.8 cm	+/- 0,2 CM
T. BACK YOKE TO BACK POCKET AT CENTRE	3 cm	3 cm	3 cm	+/- 0,2 CM
U. BACKYOKE TO BACKPOCKET AT SIDE	3.5 cm	3.5 cm	3.5 cm	+/- 0,2 CM
V. BACKPOCKET WIDTH, changed into same as FAS	11.25 cm	11.6 cm	11.2 cm	+/- 0,2 CM
W. BACKPOCKET HEIGHT AT LONGEST PART	12.75 cm	13.12 cm	12.7 cm	+/- 0,2 CM
X. TOP BACK POCKET UNTIL STITCHING	5.8 cm	7.8 cm	5.8 cm	+/- 0,2 CM
Y. TAPES AT W/B LENGTH	17 cm	17 cm	17 cm	FIX BUT FOR SURE NOT LONGER THAN 17 CM!
Z. HEIGHT BETWEEN KNEE DARTS AT INSEAM	11 cm	11.3 cm	11 cm	+/- 0,2 CM
AA. DISTANCE BETWEEN THE HOLES AT WAISTBAND	5.5 cm	5.5 cm	5.5 cm	+/- 0,2 CM

Shows measurements sheet of this style... TX 23291.....It has been observed this table different 4 size label pant use to Sample and Final Inspection . . Each of them is being averaged by the point measurements. And showing the Comparison of measurement in Sample And Final Inspection. Example : Given Sample ,½ Waist relaxed = $26.5+27+28+29=110.5/4=27.6\text{cm}$.

Then, hip measured from crotch = $5.55+5.7+6+6.3=23.55/4=5.8\text{cm}$

½ thigh at crotch= $(30.5+1)+(31.5+.6)+33.5+35.5=134.6/4=33.6\text{cm}$.In this exactly same way Final Inspection. Given, ½ Waist relaxed=. Then, ½Waist $26.5+27+28+29=110.5/4=27.6\text{cm}$.

Then, hip measured from crotch= $5.55+5.7+6+6.3=23.55/4=5.8\text{cm}$.

½ thigh at crotch= $30.5+(31.5+1)+)+(33.5+.5)+36=133/4=33.25$.Etc

Comparative Study on Measurements found in Sample and Final Inspection

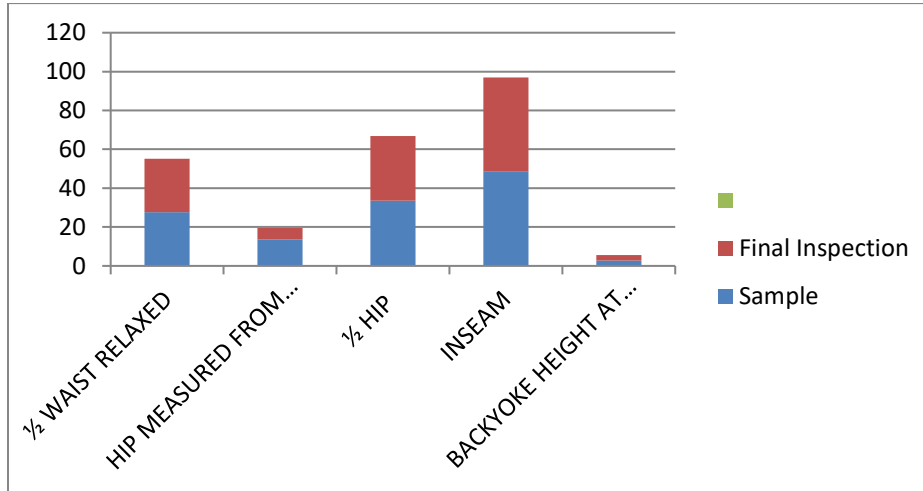


Figure 4.4 Graphical analysis of Comparison of measurement in Sample And Final Inspection.

I can see by Comparison of measurement in Sample, 1/2 Waist relaxed 27.6 cm. Other hand measurement in Final Inspection 27.6 cm. That is, the of sample and final inspection measurement is equal. Then, the measurement of Sample, hip measured from crotch 5.8cm. And , the measurement of Final Inspection 5.8cm. So, the result compare of measurement in Sample And Final Inspection is equal. on the other hand, Measurement of 1/2 thigh at crotch 33.6cm.. And measurement in Final Inspection thigh at crotch 33.25cm . Here, if the sample and final inspection is compared then the quantity of sample will increase 0.35 cm.

[Higher average value measurement of Sample, Inseam 48.8cm. And Lower average value of measurement back yoke height at side 2.8 cm] . [And Higher average value measurement of Final Inspection Inseam 48.12cm. And Lower average value of measurement back yoke height at side 2.8 cm]

Chapter 5
Conclusion

Comparative Study on Measurements found in Sample and Final Inspection

Measurement is importance rule of Sample and Final Inspection .And the play the vital role of a woven garments industry and the production shipment. . Now a day buyer Measurement special requires quality of a garments. .. The importance of measurement of garments, from pattern cutting to garments production.

Have taken measurements of each point of fifteen size garments with four different styles of garments in this thesis paper. And we have found their maximum and minimum tolerance.

- Style TX 23292 Higher average value measurement in Sample and final inspection Inseam 51cm and 50.1cm. Lower average value of measurement back yoke height at side 3.1 cm and 2.7cm. Here, The Higher average value of the Sample has increased. Because Tolerance has increased.
- Style TX 23320 Higher average value measurement in Sample and final inspection, 1/2 Waist stretched 25.25cm and And Lower average value of measurement of hem height 1.3 cm. Higher average value measurement in Sample and final inspection result equal.
- Style TX 23289 Higher average value measurement in Sample and final inspection Inseam 64cm and 64.3cm and Lower average value of measurement belt loop width 1.2cm.. Here, The Higher average value of the final inspection has increased Because Tolerance has increased. belt loop width measurement value Constant.
- Style TX 23291 Higher average value measurement in Sample and final inspection, Inseam 48.8cm And 48.12cm. Lower average value of measurement back yoke height at side 2.8 cm. Here, The Higher average value of the Sample has increased. Because Tolerance has increased. Lower average value are equal.

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