



VexaFab

SPEED · QUALITY · SCALE

SAMPLE TECH PACK

Every great garment begins with engineering.

Style VX-D-1024 · Tiered Midi Dress · Season SS-27

Base size M · Puff sleeve · Woven viscose crepe · Revision 03

Technical sketch	Measurements	Grading	BOM	Cost sheet	Quality	Production
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This is a sample document. Every VexaFab style receives a complete engineering pack like this one before production begins.

Book a manufacturing consultation

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01 · TECHNICAL SKETCH

Front & back construction details

Original production flats with numbered construction callouts. Every seam, stitch and finish is specified before sampling.



FRONT — STITCH DETAILS



BACK — STITCH DETAILS

01 · TECHNICAL SKETCH (CONTD.)

Construction callouts

1

Neck construction

Square neckline with scalloped lace edge trim. Gathered front panel into self-fabric binding, clean finish inside, single needle top stitch. SPI 10–12 · SA 1 cm.

2

Waistband seam

Set-in waistband, fused, 3 cm finished. Bodice gathers distributed evenly; skirt attached with 4-thread overlock; side seams matched at cross points. SPI 10–12 · SA 1 cm.

3

Sleeve finish

Short puff sleeve gathered at cap and cuff. Elastic casing at cuff with 1 cm self-frill edge; elastic relaxed measurement per size spec. Elastic 0.8 cm.

4

Invisible zipper

#3 concealed zipper at centre back, 40 cm, DTM tape (YKK or equivalent). Set with invisible zipper foot; bar tack at base; hook & eye above pull. Detachable waist tie bows at CB. SA 1.2 cm.

5

Hem construction

2.5 cm double-turn hem on bottom tier, single needle top stitch. Pressed flat, even sweep, no roping or twist. Sweep tolerance ± 0.5 cm.

6

Tier gathering

Three gathered tiers, ratio 1.6 : 1 per tier. Two rows of gathering stitch per join, even distribution notch to notch. Tier seams overlocked and pressed down.

02 · MEASUREMENT CHART

Graded specification — all measurements in cm

POM	Point of Measurement	XS	S	M	L	XL	Tol ±
A	Chest (1 cm below armhole)	84	88	92	96	100	1.0
B	Waist at seam	68	72	76	80	84	1.0
C	Hip (20 cm from waist)	92	96	100	104	108	1.0
D	Length HPS to hem	112	113.5	115	116.5	118	1.0
E	Sleeve length	20	20.5	21	21.5	22	0.5
F	Shoulder across	36	36.8	37.6	38.4	39.2	0.5
G	Bottom sweep	160	164	168	172	176	2.0

Base size M highlighted. Measured flat, relaxed. HPS = high point shoulder.

03 · GRADING

Digital pattern grading

Graded from fit-approved base size M using CAD. Increments engineered per point of measurement — not scaled blindly. Size run XS–XL, extendable XXS–4XL.

Point	Increment / size
Chest / Waist / Hip	+ 4.0 cm
Length (HPS–hem)	+ 1.5 cm
Shoulder across	+ 0.8 cm
Sleeve length	+ 0.5 cm
Bottom sweep	+ 4.0 cm

04 · BILL OF MATERIALS

Every input specified before bulk

Category	Item	Specification	Source	Consumption
Fabric	Main fabric	Viscose crepe · 130 GSM · 148 cm	Vetted mill network	1.45 m / pc
Fabric	Lining	Poly taffeta · 60 GSM · bodice only	Nominated supplier	0.55 m / pc
Fabric	Interlining	Fusible woven · 40 GSM · waistband	Approved source	0.10 m / pc
Trim	Invisible zipper	#3 concealed · 40 cm · DTM tape	YKK / equivalent	1 pc
Trim	Lace trim	Scalloped edge · 1 cm · DTM	Approved source	0.60 m / pc
Trim	Elastic	Braided · 0.8 cm · sleeve cuffs	Approved source	0.45 m / pc
Trim	Thread	100% spun poly · Tex 27 · DTM	Coats / equivalent	165 m / pc
Branding	Labels	Woven main + printed care/size	Client-nominated	1 set / pc
Branding	Hangtag	350 GSM art card · string + pin	Client-nominated	1 / pc
Packing	Polybag	Self-seal · warning print	Approved source	1 / pc
Packing	Carton	5-ply export · 60×40×30	Approved source	24 pcs / ctn

05 · COST SHEET

FOB costing — per piece

Cost head	Basis	INR / pc	%
Fabric	1.45 m @ INR 110 incl. 3% wastage	160	44%
CM — cutting, stitching, finishing	4.52 SAM · line rate	64	17%
Overheads	50% of CM	32	9%
Trims	Zipper, lace, elastic, thread, labels	28	8%
Freight	To port / hub	20	5%
Packing	Polybag, tags, carton	12	3%
Washing	Softener wash + press	10	3%
Quality	3-gate inspection cost	6	2%
VexaFab margin		32	9%

FOB COST

INR 364 / pc

Marker efficiency 82% · Gross yield 1.49 m / pc · Sample costing for illustration — actuals quoted per style and quantity.

06 · QUALITY ENGINEERING

Seven checkpoints, fabric to dispatch

- 01 Incoming fabric inspection** — 4-point system on every roll — shade bands, GSM, shrinkage, defects logged before cutting.
- 02 Pattern audit** — Production patterns verified against graded spec before markers are made.
- 03 Inline QC** — Checks at critical operations during stitching — defects caught at the needle.
- 04 Midline QC** — Assembled-garment audit mid-run — measurements, construction, workmanship.
- 05 Final QC** — AQL 2.5 statistical inspection on finished goods with full measurement audit.
- 06 Packing audit** — Carton contents, labelling, ratio packing and presentation verified before sealing.
- 07 Dispatch approval** — QA sign-off gates every shipment; reports published to the client dashboard.

07 · PRODUCTION ENGINEERING

Operation bulletin

Op	Operation	Machine	SAM	Skill
01	Join shoulder	SNLS	0.28	B
02	Neck binding + lace trim attach	SNLS	0.48	A
03	Puff sleeve make + elastic cuff	SNLS + OL-4	0.62	A
04	Side seam close	OL-5	0.48	B
05	Invisible zipper insert + waist tie	SNLS + IZ foot	0.90	A
06	Tier gathering + join (×3)	SNLS	0.78	A
07	Bottom hem	SNLS	0.38	B
08	Press, finish & pack	Steam + table	0.60	C

Total SAM 4.52	Target 106 pcs/hr/line	Planned efficiency 85%	Predictable from Day 1
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*"From an idea on paper to production at scale —
every detail is engineered before manufacturing begins."*

Track it all live — every VexaFab order includes a client dashboard:
PO status · sampling progress · quality reports · factory photos · dispatch tracking