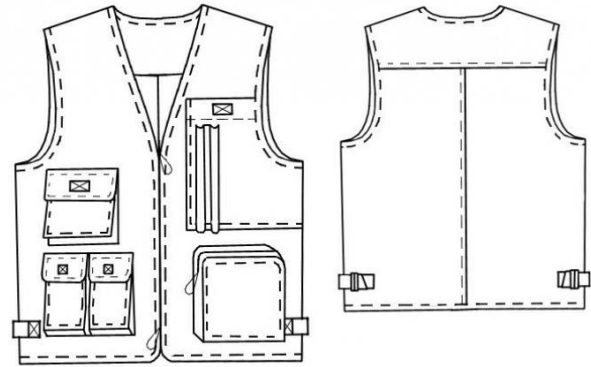


Minerva Pattern 6045

Multi-Pocket Utility Vest with Zipper Front, Cargo Flaps, Adjustable Side Tabs & Back Yoke



Introducing a vest pattern for the functional multi-pocket utility vest with zip-front, cargo pockets, and adjustable side tabs – Practical Design with Professional Construction.

When To Wear Design 6045

This vest combines durability and function, making it ideal for:

- **Outdoor Activities:** Perfect for fishing, camping, hiking, and photography—keeps essentials within reach.
- **Workwear & Craft Professions:** Suitable for technicians, field workers, artisans, or costume design requiring utility storage.
- **Casual Layering:** Worn over shirts, hoodies, or flannels for an urban or street-style utility look.

Key Design Features

Silhouette: Straight, relaxed-fitting vest with clean armholes.

Front Closure: Center front separating zipper.

Pockets: Right Upper Flap Pocket with Gusset (side part), Right-Side Double Utility Pockets with Flaps and Gusset (side part), Left Upper Pocket, Pen/tool pocket, Left Lower Zippered Cargo Pocket with Gusset (side part).

Back: Back panel with horizontal yoke.

Adjustment: Side tabs with buckles or Velcro straps at waistband.

Finishing: Topstitched seams, clean armholes, fully lined.

Level Of Difficulty

Intermediate. Requires accuracy in pocket placement, zipper application, and topstitching. Suitable for sewists experienced with structured garments and utility details.

Fabric Recommendations

Choose durable, stable fabrics to support structure and pockets:

- **Main Fabric:** Cotton twill, canvas, gabardine, denim, ripstop, or light utility fabrics.
- **Lining:** Mesh lining, lightweight cotton, or polyester lining.

Additional Supplies

- 1 separating zipper (front closure)
- 1 zipper for left lower pocket
- Fusible interfacing (for flaps, pocket openings, front zipper area)
- 2 adjustable buckles or Velcro strips for side tabs
- Lining fabric (for back, yoke, and front panels)

Cutter's Must

From Main Fabric:

1. Back Yoke – 1 piece on fold
2. Back Panel – 1 piece on fold
3. Front Panels – 2 pieces
4. Side Tabs (Back) – 2 pieces
5. Side Tabs (Front) – 2 pieces
6. Right Chest Pocket – 1 piece
7. Right Chest Pocket Flap – 2 pieces
8. Right Lower Pocket – 1 piece
9. Right Lower Pocket Flap – 2 pieces
10. Left Lower Pocket – 1 piece
11. Left Upper Pocket – 1 piece
12. Pen/Tool Pocket – 1 piece
13. Side Gusset for Left Lower Pocket – 1 piece
14. Side/Bottom Gusset for Right Lower Pocket – 1 piece
15. Side Gusset for Chest Pocket – 1 piece
16. Pocket Opening Facing – 1 piece

From Lining Fabric:

1. Back Yoke (Lining) – 1 piece on fold
2. Back Panel (Lining) – 1 piece on fold
3. Front Panels (Lining) – 2 pieces

Important Information

Before cutting your fabric:

- Print and lay out pattern pieces to determine yardage.
- Check mirrored pieces, notches, and grainlines.
- For patterned fabrics, align carefully for symmetry.

ASSEMBLY INSTRUCTIONS

Preparation

- Apply fusible interfacing to: all pocket flaps, upper left pocket opening, flap attachment zones, front zipper area, Velcro placement areas, and front facings (if used).
 - Transfer all markings: pocket placement lines, Velcro markings, zipper positions, side tabs, back yoke alignment, and stitching lines.
 - Staystitch neckline and armholes on front pieces to prevent stretching.
 - Finish raw edges of pieces that will remain unlined (pocket bags, gussets, seam edges) if using fray-prone fabric.
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Back Assembly

- Sew the center back seam. Press seam allowances toward the left side and topstitch close to the seam for reinforcement.
 - Place back yoke right sides together with back panel. Stitch along the horizontal yoke line.
 - Press seam allowances upward into the yoke and topstitch across the seam.
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Front Zipper Placket (Base Only – Final Stitching After Lining)

- Interface both center front edges.
 - Align separating zipper to the front edge (right sides together). Baste or stitch temporarily. Final topstitching is completed after lining.
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Left Upper Pocket with Pen/Tool Divider

- Press all seam allowances of the pen/tool pocket to the wrong side.
 - Mark the center vertical line and stitch along this line to divide pen slots.
 - Fold and press the upper seam allowance of the left upper cargo pocket; topstitch.
 - Press remaining pocket seam allowances to the wrong side.
 - Cut a small piece of Velcro (loop/soft side) and stitch it beneath the flap placement area on the pocket.
 - Pin pocket to the left front panel using placement lines. Mark position of corresponding hook Velcro on the body.
 - Fold down upper pocket edge and sew the hook (rough) Velcro to the body.
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- Stitch pocket to vest along side and bottom edges close to the fold. Baste side seam if needed.
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Left Lower Cargo Pocket with Zipper & Gusset (Side Part)

- Place the pocket opening facing (welt) right sides together with the lower pocket piece along marked opening lines. Stitch the rectangle.
 - Cut through center of the opening and diagonally into corners. Turn facing to the wrong side, press clean opening.
 - Position metal zipper under the opening, teeth hidden. Stitch around the rectangle.
 - Sew short edges of the side/bottom gusset
 - Attach gusset to the side and bottom edges of pocket, right sides together; clip gusset seam allowances into corners.
 - Fold gusset to the inside of the pocket; edge-stitch around.
 - Press long open gusset edge to the wrong side.
 - Position pocket on the left front panel. Stitch gusset fold to vest following placement lines.
 - Press lower pocket edge over gusset seam. Do not press the top edge.
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Right Upper Flap Pocket with Gusset (Side Part)

- Press upper seam allowance of the right upper pocket piece to the wrong side and topstitch.
 - Sew side and bottom gusset pieces to pocket body right sides together, matching placement notches. Clip gusset seam allowances at corners.
 - Fold gusset to inside of pocket; edge-stitch along folded edges to reinforce shape.
 - Press open long gusset edge to the wrong side.
 - Stitch Velcro loop (soft) tape to underside of pocket flap placement area.
 - Position pocket on right front panel using placement marks. Mark hook Velcro position on body.
 - Sew hook Velcro tape to the body.
 - Stitch pocket to vest along side and bottom edges, ensuring gusset sits underneath.
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Right-Side Double Utility Pockets with Gussets & Flaps

- For each pocket:
 - Fold and press upper edge allowance to wrong side; topstitch.
 - Fold seam allowances on short ends of bottom/side gusset to wrong side and stitch.
 - Attach gusset to sides and bottom of pocket body, right sides together. Clip allowances at lower corners.
 - Turn gusset inward; edge-stitch around pocket perimeter.
 - Press long open gusset edge to inside.
 - Position pockets side by side on right front panel so their lower gussets are aligned and touching. Stitch pockets to vest along side and bottom edges.
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Pocket Flaps (Right Upper & Lower Pockets)

- Pair each flap piece right sides together. Stitch side and lower edges, trim corners, turn, press, and topstitch.
 - Sew Velcro loop tape to underside of each flap.
 - Align flaps above pocket openings on vest body, right sides together. Stitch along upper edge.
 - Press flaps downward and topstitch close to seam for neat finish.
 - Sew Velcro hook tape to pockets to align with flaps.
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Side Tabs with Buckles

- Fold each front and back tab lengthwise, right sides together. Stitch long edge and one short end. Clip, turn, and press.
 - Edge-stitch around.
 - Insert buckle into front tab and stitch to secure.
 - Fold open tab ends under and stitch to front and back panels at marked positions using a square with diagonal reinforcement.
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Side Seams

- Align front and back panels right sides together. Stitch side seams. Press open or toward the back.
 - Topstitch if desired for reinforcement.
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Lining (Mesh or Fabric) – Bagging Method

- Assemble lining pieces: sew center back seam (if present), attach yoke lining, and join lining shoulder seams.
 - With right sides together, align lining with vest body around neckline, armholes, and lower hem, leaving 1 cm unstitched at each shoulder edge. Stitch.
 - Turn vest right side out. Pull shoulder seams through front openings and stitch lining shoulders to vest shoulders.
 - Press edges neatly.
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Front Zipper – Final Installation

- Fold center front seam allowances to inside.
 - Place separating zipper tape underneath folded edges.
 - Topstitch along full zipper length to secure through all layers.
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Final Topstitching & Finishing

- Topstitch around neckline, armholes, front zipper, hem, and all pocket edges for a clean utility finish.
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- Add bartacks at stress points: pocket corners, zipper ends, side tabs, and pen pocket divisions.
- Press the entire vest for a crisp, professional appearance.

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