

## MANUFACTURING BRIEF

# Premium Boxing Hand Wrap

Engineered cotton-elastane construction with zoned support

One wrap. Two zones. A denser wrist section transitions gradually into a softer body — all in a single continuous construction. We need a factory that can build this, not a standard elastic wrap supplier.

**The goal is a product that feels engineered rather than branded.**

## 1. Product Summary

Product type	Premium Boxing / MMA Hand Wrap
Finished length	4500mm / 180 inch
Finished width	50mm
Construction	Single continuous narrow textile wrap
Unit	Pair
Intended use	Boxing / Muay Thai / MMA / Training
First run	Approx. 1,000 pairs · Direct-to-consumer · long-term partner needed

## 2. Core Innovation — Zoned Elasticity

The wrap delivers two distinct support characteristics in one continuous construction, with an engineered gradient transition between them. The signature woven stripe marks the zone boundary. This is the primary capability we are qualifying manufacturing partners on.

### Zone A — Wrist Support Zone

*Begins at the signature stripe. Approx. 500mm.*

Elongation	25–32%
Fabric weight	280–300 gsm
Structure	Denser engineered knit
Compression	Moderate-high

### Transition Zone

Length	80–100mm
Character	No abrupt modulus shift, no visual construction break
Method	Engineered gradient — open to factory recommendation

### Zone B — Main Body Zone

*Remaining length of wrap plus the entire thumb loop section. Approx. 3900mm.*

<b>Elongation</b>	50–60%
<b>Fabric weight</b>	200–220 gsm
<b>Structure</b>	Softer knit construction
<b>Compression</b>	Moderate

### 3. Construction Approach

Open to factory recommendations on optimal method. Approaches of interest: jacquard flat knit (Stoll, Shima Seiki), dual-feed warp knit, hybrid knit/woven with engineered elastic insertion. Priority is controlled elasticity, smooth zoned transition, and long-term recovery — not a specific machine type.

We are also interested in factory input on whether closure geometry and tab placement can improve peel-force performance — an area we want to address during sampling.

### 4. Fabric Composition

<b>Composition</b>	90–92% combed long-staple cotton / 4–10% elastane
<b>Surface finish</b>	Brushed, matte
<b>Pre-treatment</b>	Pre-shrunk and heat-set
<b>Dyeing</b>	Reactive dye, AATCC-grade colorfastness
<b>Antimicrobial</b>	Silver-ion finish or equivalent — open to alternatives
<b>Pilling</b>	Low-pill construction required

### 5. Colour Direction

#### Launch colourway — Wet Slate Charcoal

Warm charcoal. Not pure black. Not cool grey. Target hex range approx. #2E2E30 to #3A3A3D.

#### Signature Stripe

<b>Width</b>	5–7mm
<b>Method</b>	Woven into construction — not printed
<b>Direction</b>	Lengthways along the wrap — parallel to long edges, not across the width
<b>Placement</b>	Asymmetric — approx. 1.3x from top edge, flush with fabric surface, not raised
<b>Extent</b>	Body only — stops at the start of the thumb loop section. Does not continue into taper or loop.
<b>Alignment</b>	Must correspond to Zone A start point across all production units
<b>Colour</b>	Tonal charcoal — slightly lighter than base, visible in raking light

### 6. Thumb Loop

Tapers gradually from 50mm to a narrow rounded tip. A flat woven elastic band (18–23mm wide when laid flat) is folded back on itself and bartacked at the tip to form the loop opening. Integrated — not applied separately. Zone B fabric throughout.

<b>Body width</b>	50mm — no widening
<b>Taper</b>	Gradual over 40–50mm to rounded tip
<b>Tip width</b>	Approx. 20–25mm
<b>Loop tape width</b>	18–23mm flat tape, folded to form loop opening
<b>Reinforcement</b>	Clean bartack at attachment point
<b>Edge finish</b>	Curved taper edge — cleanly finished, no raw edge

## 7. Closure System

The most common failure in competitor product is hook degradation — not lint or stitching. This drives the molded hook requirement.

### Hook

<b>Material</b>	Molded nylon only — Velcro HTH 745, Paiho ETN-621, or equivalent
<b>NOT acceptable</b>	Standard woven hook

### Loop & Geometry

<b>Loop</b>	Full-width soft loop field, matte, dense texture
<b>Width</b>	Full-width — no tapering
<b>Tab length</b>	Approx. 75mm (7.5cm)
<b>Corners</b>	Rounded
<b>Bulk</b>	Low — must not impede glove fit

## 8. Branding Patch

External sewn patch, positioned toward closure end. Visible when wrap is in use.

<b>Execution</b>	Tonal — close-match to base fabric colour
<b>Branding</b>	Debossed only — no embroidery, no print
<b>Finish</b>	Matte
<b>Size</b>	Approx. 20–25mm
<b>Material</b>	Hypalon, rubberised microfiber, or matte technical synthetic

*Avoid: glossy PU, shiny synthetic leather, oversized logos, raised branding.*

## 9. Edge Finishing

<b>Priority 1</b>	Folded edge finish
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<b>Priority 2</b>	Clean coverstitch
<b>Priority 3</b>	Refined low-profile overlock

*Open to factory recommendation on best approach for this construction.*

## 10. Questions for Factory

### Textile Capability

- *Can you produce zoned elasticity in one continuous narrow textile?*
- *What construction method and machine type would you use?*
- *Minimum achievable transition length?*

### Sampling & MOQ

- *Prototype lead time and cost?*
- *Revision rounds included?*
- *MOQ per colour?*
- *MOQ for custom knit construction?*

### Materials

- *What molded hook systems do you stock or can source?*
- *Loop materials available?*
- *Technical patch materials?*

### Quality Control

- *How do you test stretch consistency across production runs?*
- *Wash-cycle testing conducted as standard?*

### Your Recommendation

- *If you see a better way to achieve this spec, tell us.*
- *We want factory input on construction decisions.*

## 11. Manufacturing Partner Profile

We are looking for a long-term manufacturing partner with genuine technical capability and willingness to engage with construction problems collaboratively. We value engineering input, transparent communication on feasibility, and quality consistency over lowest unit cost.

First run approx. 1,000 pairs. Growth via direct-to-consumer channels. Long-term partner, not a one-run transaction.

## Contact

**david@thistook.com**

thistook.com