



Heavy-Duty Machine Pre-Purchase Audit

Your definitive scorecard for evaluating true mechanical torque and durability.

Section 1: Project Baseline

Before looking at machines, define your load:

- **Primary Materials:** Heavy Canvas Vegetable-Tanned Leather Upholstery Vinyl Heavy Denim
- **Target Thread:** Standard Polyester Heavy-Duty Jeans (Tex 60) Bonded Nylon (Tex 69)

Section 2: The Core Audit

Write down the Model Name you are evaluating:

_____ *Check the box ONLY if the machine meets the requirement:*

1. Motor & Power Infrastructure

- **Amperage Verification:** Does the specification plate explicitly state 0.7 amps or higher (or indicate a DC motor)?
- **Low-Speed Test:** Does the needle punch through 3 layers of denim at the slowest speed without stalling?

2. Mechanical Durability

- **Total Weight:** Does the machine weigh at least 14 lbs (indicating an internal metal frame)?
- **Rotary Hook System:** Is the bobbin casing/hook mechanism made entirely of metal (no injection-molded plastic gears)?

3. Necessary Attachments & Clearance

- **Lift Clearance:** Does the presser foot lift high enough to clear at least 3/8 inch of layered material?



- **Included Feet:** Does the box include a Teflon foot (for vinyl) or a Walking foot (for canvas/quilting)?
- **Drop Feed:** Can the feed dogs be completely dropped/lowered for free-motion work or thick seam crawling?

4. Warranty & Support Check

- **Authorized Dealer:** Is the seller listed as an "Authorized Retailer" by the manufacturer to ensure warranty validity?
- **Proximity:** Is there a certified repair technician within a 50-mile radius of your location?

Final Verdict: If the machine fails the Amperage Verification or the Rotary Hook System check, **WALK AWAY**. These are non-negotiable for heavy-duty crafting.