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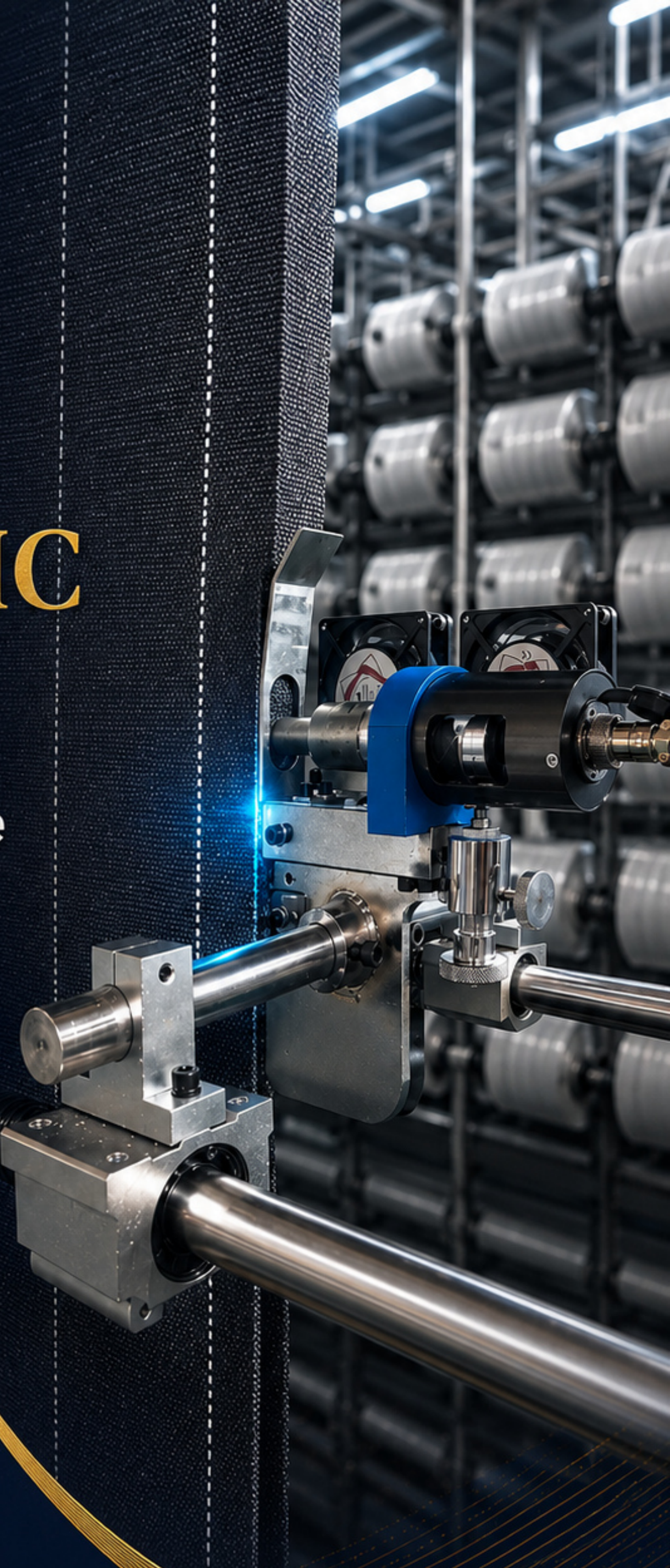
FIBC ULTRASONIC CUTTER

Loom Installation Guide

For circular looms, PP woven fabric, laminated fabric and industrial textile cutting applications.

- Precise Loom Mounting
- Clean Edge Cutting
- Production-Ready Setup



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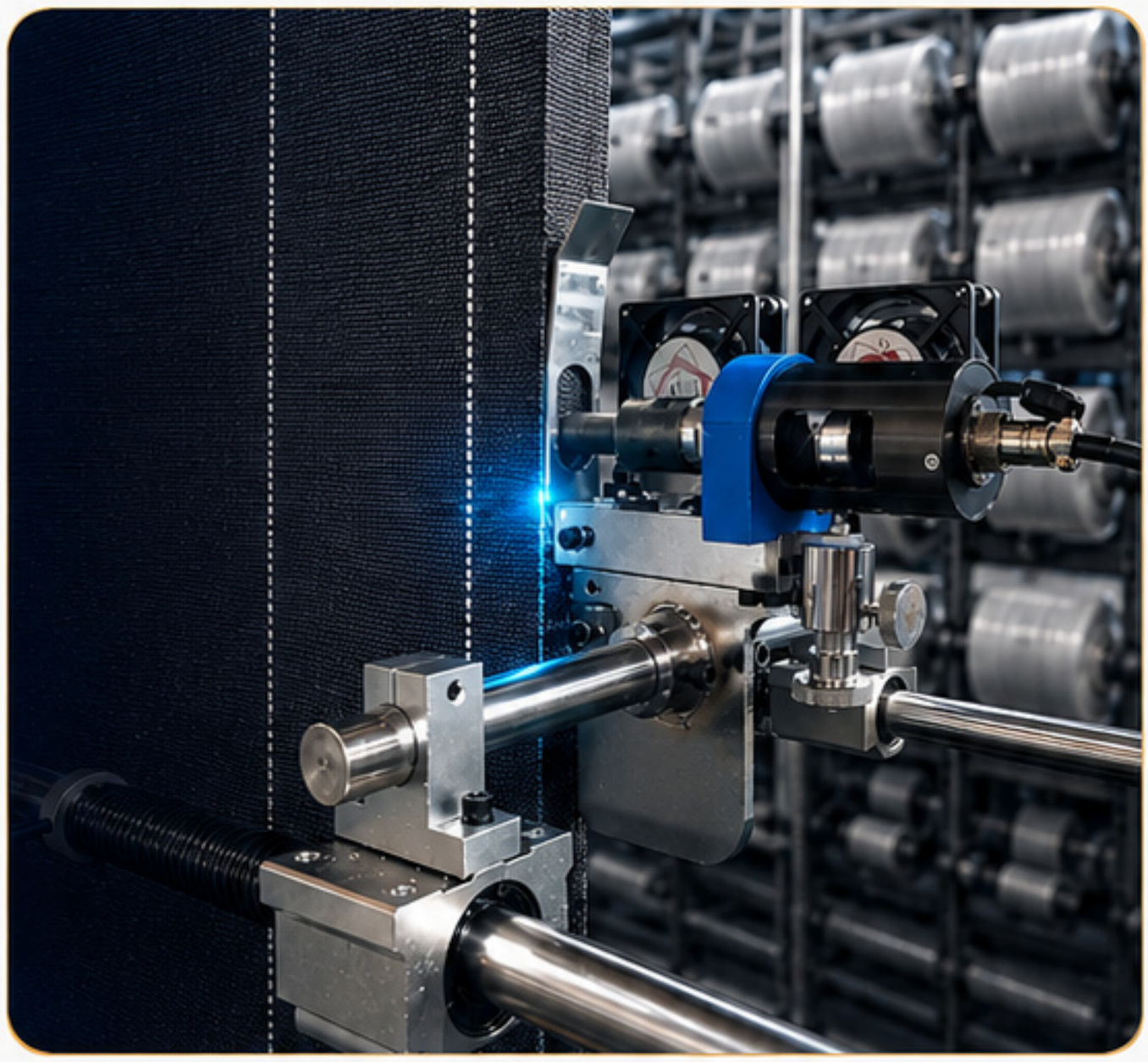
INSTALLATION OVERVIEW & PRE-CHECKS

This section outlines the installation flow and essential checks for a safe, accurate and production-ready setup.



CONTENTS

PRE-INSTALLATION CHECKS

- Verify loom frame rigidity and mounting space
- Confirm power supply and grounding
- Ensure compressed air supply is clean and stable if required
- Inspect cutter assembly, horn and blade area for damage
- Confirm fabric path and intended cut line
- Keep tools and PPE ready for installation

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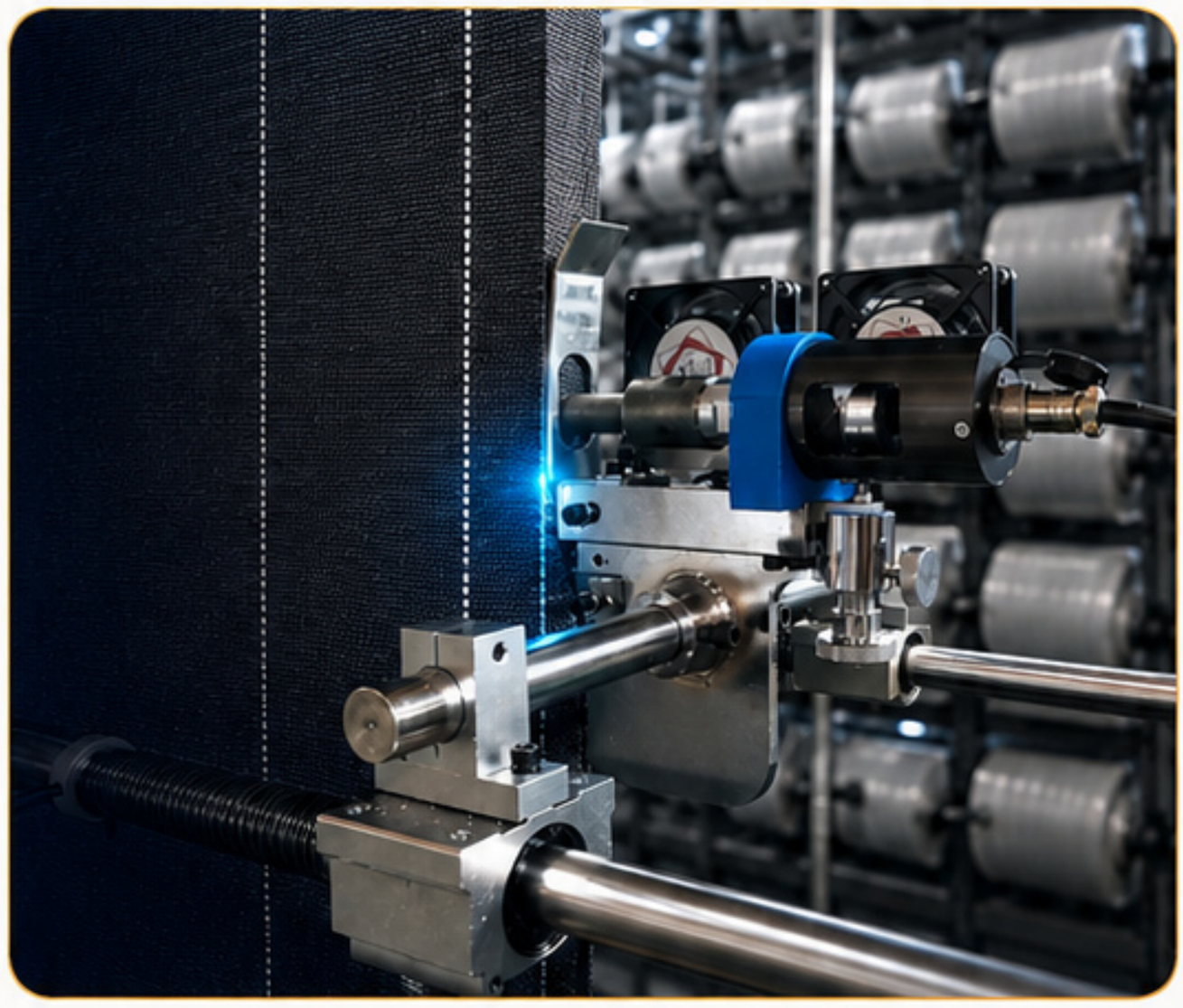
MOUNTING THE CUTTER ASSEMBLY

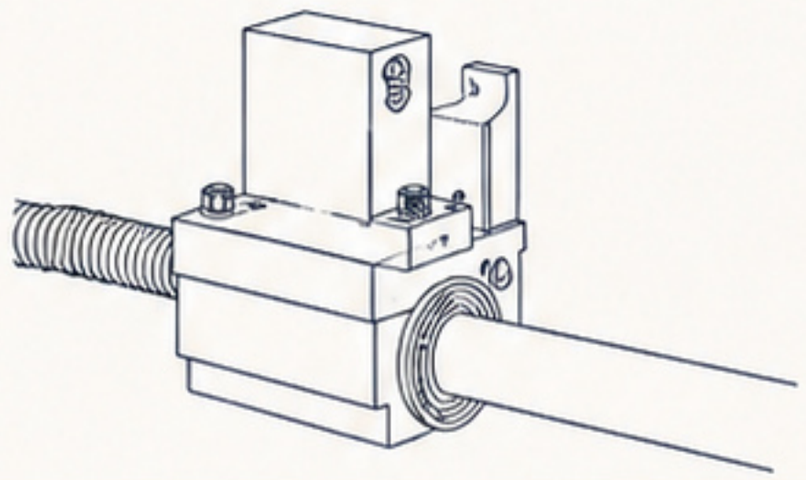
Secure mounting is the foundation for safe cutting performance and consistent edge quality.



1

Bracket & Base Mounting

- Position the mounting bracket on a rigid loom member.
- Secure the base block firmly.
- Confirm free travel and no vibration.



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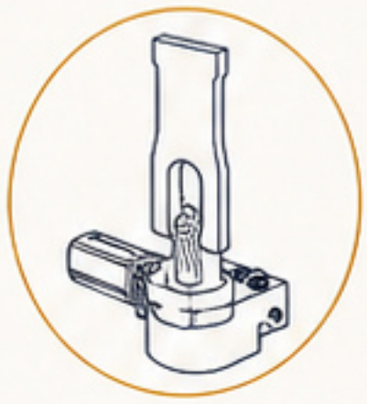
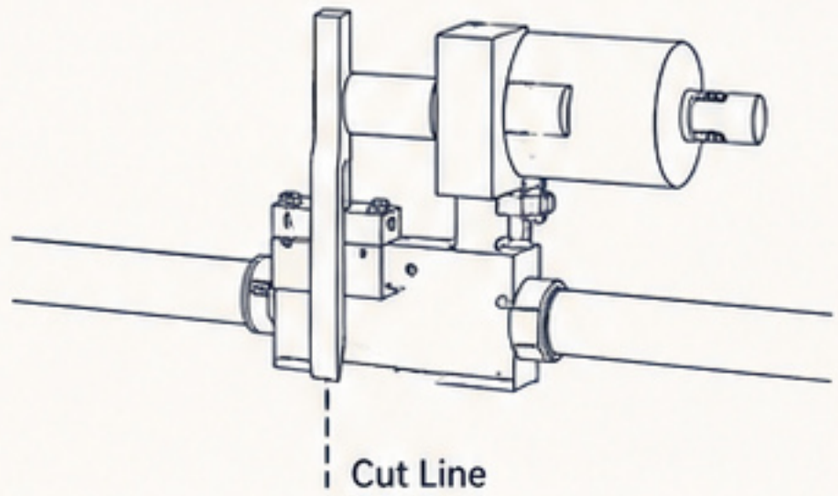


Horn / Blade Positioning

- Set the cutter exactly at the intended cut line.
- Keep the horn and blade square to the fabric path.
- Maintain safe clearance from nearby parts.



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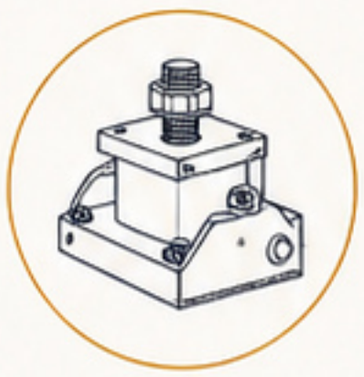
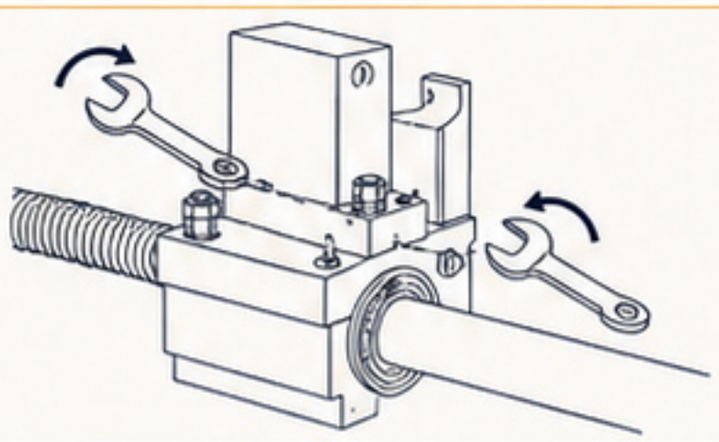


Fastening & Final Tightening

- Tighten bolts evenly.
- Recheck alignment after tightening.
- Ensure the assembly remains stable during operation.



ALIGNMENT REMINDER

1. Check centerline
2. Check cut point
3. Confirm clearance
4. Lock position

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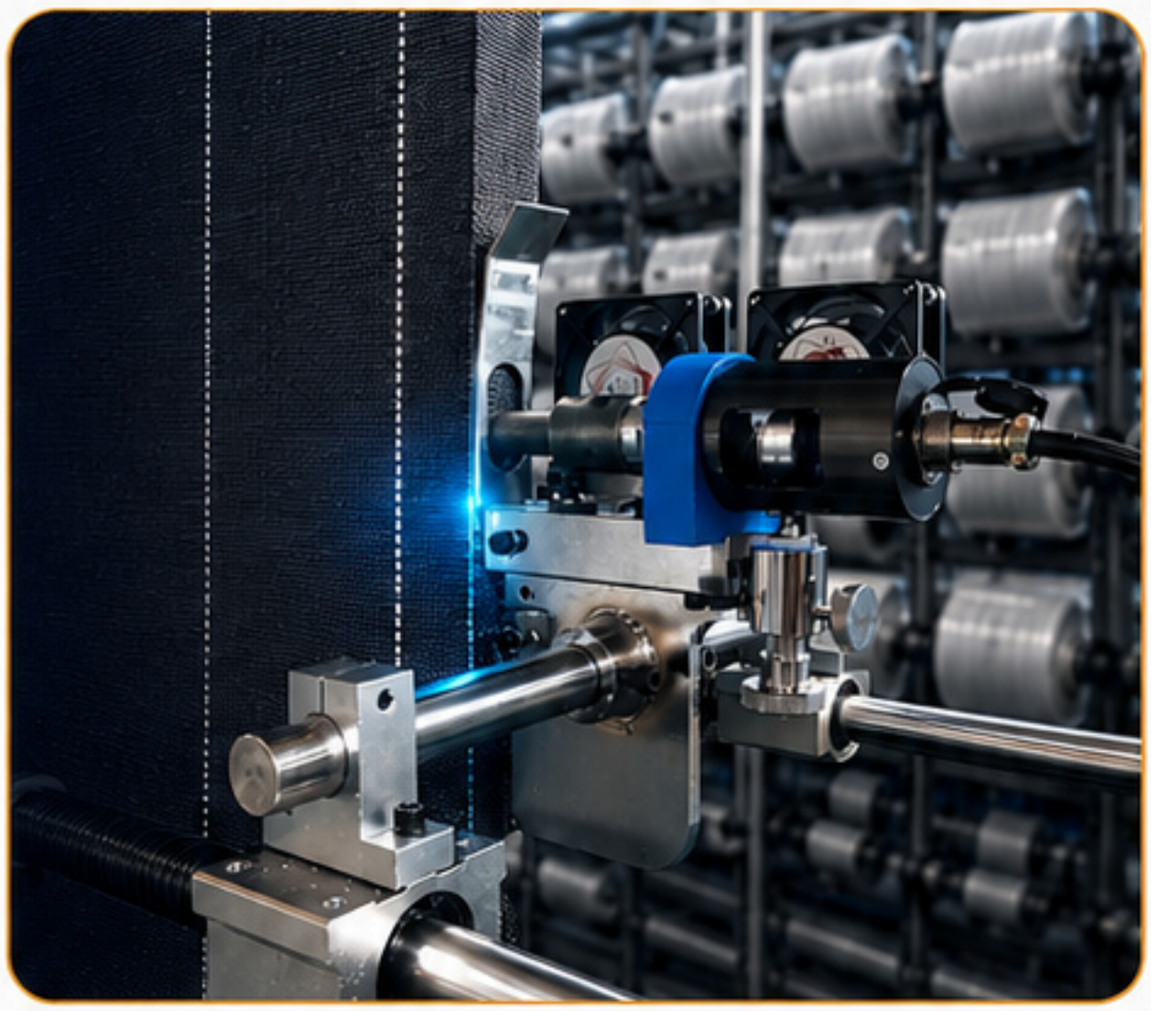
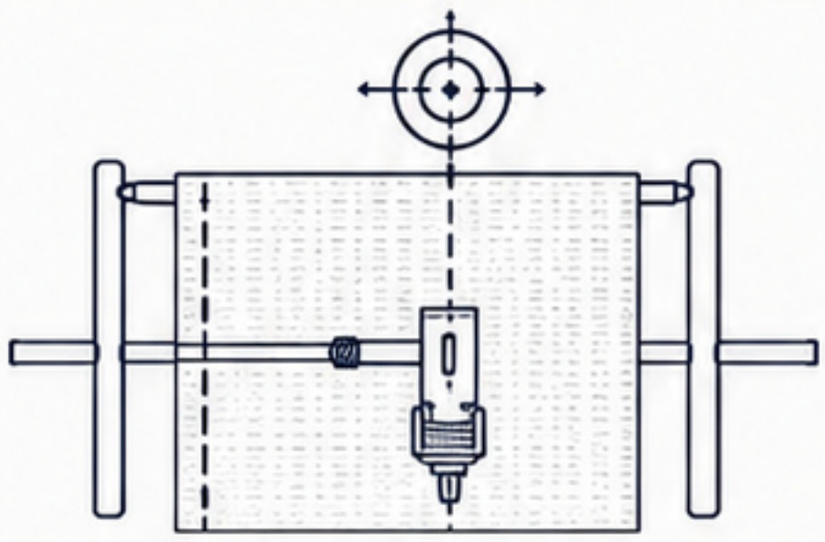
ALIGNMENT, ELECTRICAL & UTILITY CONNECTION

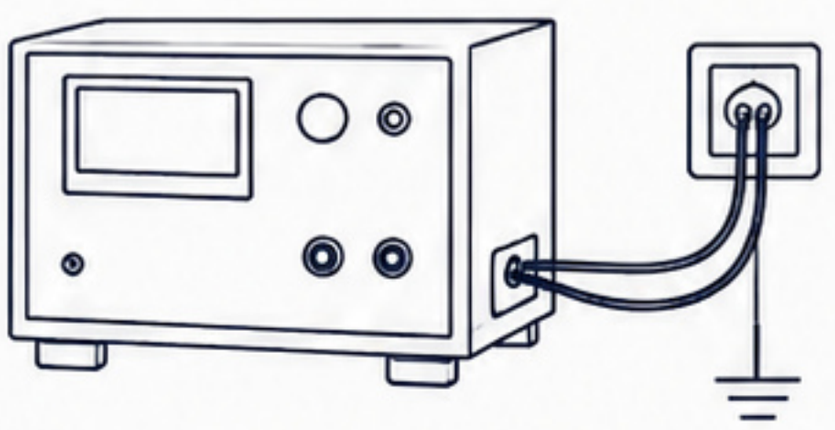
Proper alignment, safe power routing and stable utility connections ensure accurate ultrasonic cutting on the loom.





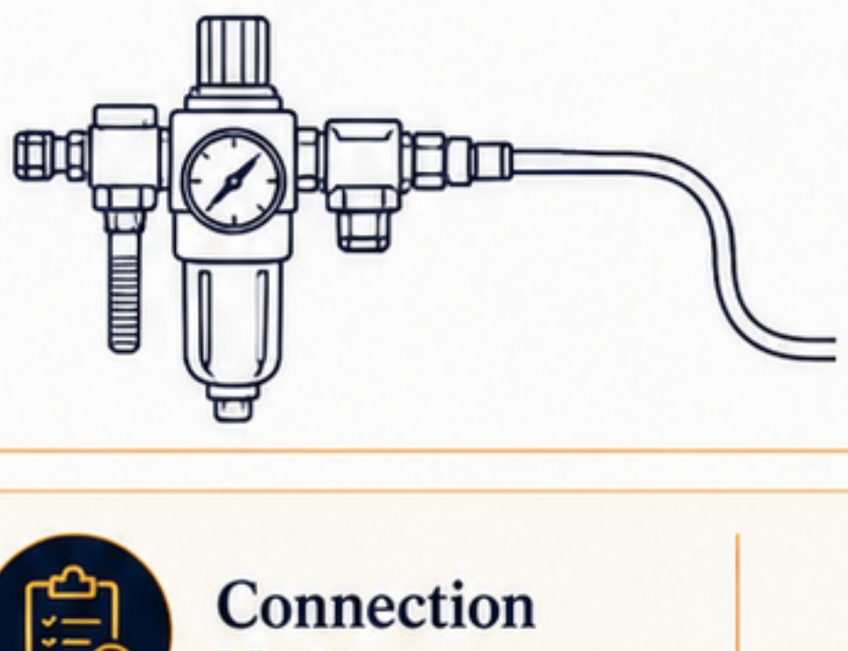
1 Fabric Path Alignment

- Align the cutting point with the fabric edge or guide mark.
- Run sample fabric manually to confirm smooth passage.
- Verify no rubbing against frames or rods.



2 Electrical Connection

- Place the generator in a dry accessible location.
- Route ultrasonic and loom cables safely away from moving parts.
- Confirm grounding and switch connection before power-on.



3 Utility / Air Connection

- Use clean, stable compressed air if required.
- Check regulator and hose condition.
- Confirm there are no leaks or loose fittings.

Connection Notes

- Label cables clearly
- Clamp wires neatly
- Protect from heat and abrasion
- Keep maintenance access open

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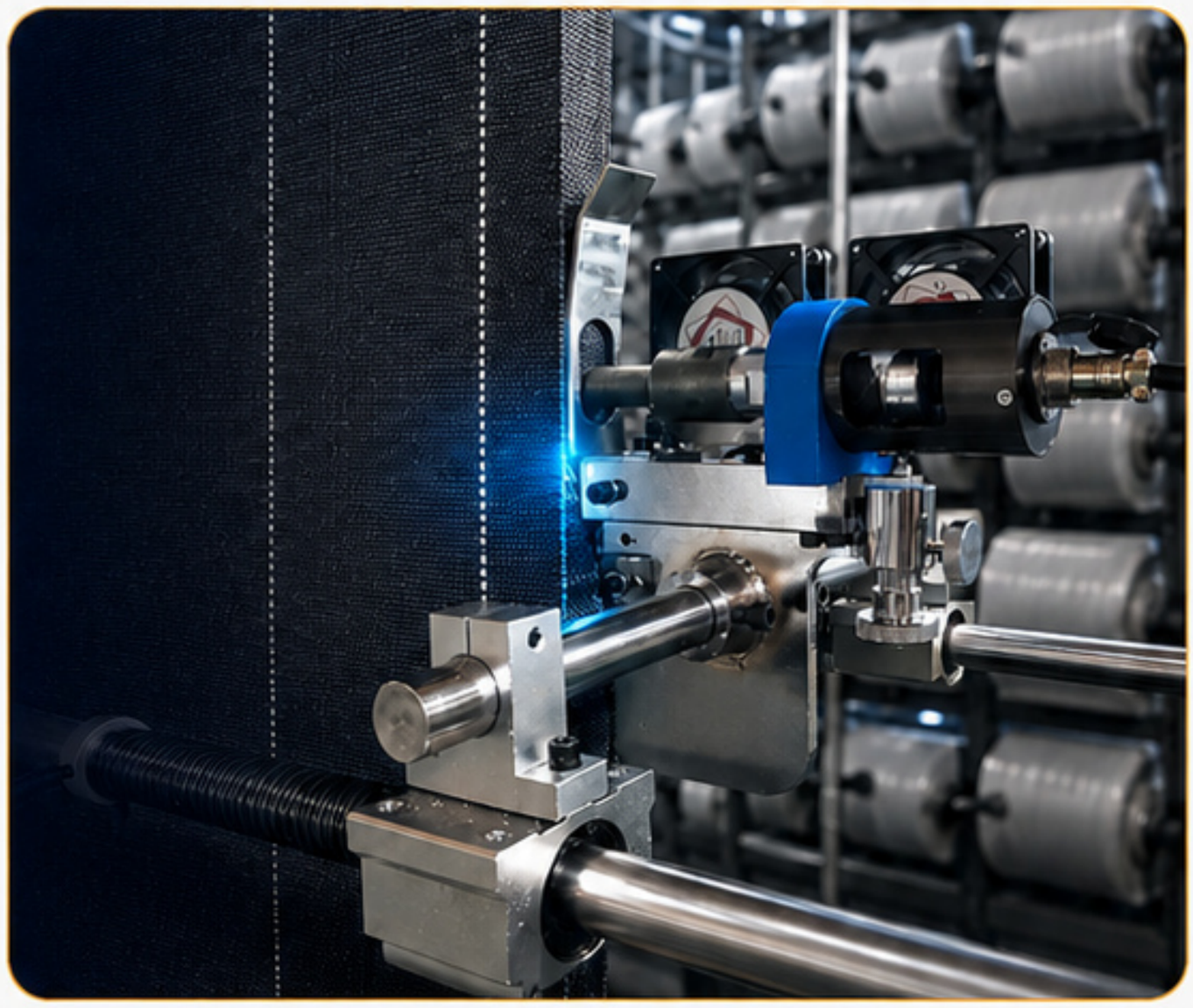
TRIAL RUN, QUALITY CHECK & HANDOVER

After installation, perform a controlled trial run to verify cut quality, stability and operator readiness.



1. Switch On
2. Set Parameters
3. Feed Sample Fabric
4. Run Test Cut
5. Inspect Edge & Fraying
6. Fine-Tune and Approve

QUALITY CHECK

- [ ] Cut line is straight and consistent
- [ ] Edge is sealed / clean
- [ ] No excessive fraying
- [ ] Machine remains stable
- [ ] No cable interference

OPERATOR HANDOVER

- [ ] Show start / stop process
- [ ] Explain routine checks
- [ ] Confirm cleaning method
- [ ] Explain safe shutdown
- [ ] Record installation sign-off

HANDOVER RECORD

Loom ID : _____ Date : _____

Installed By : _____ Approved By : _____

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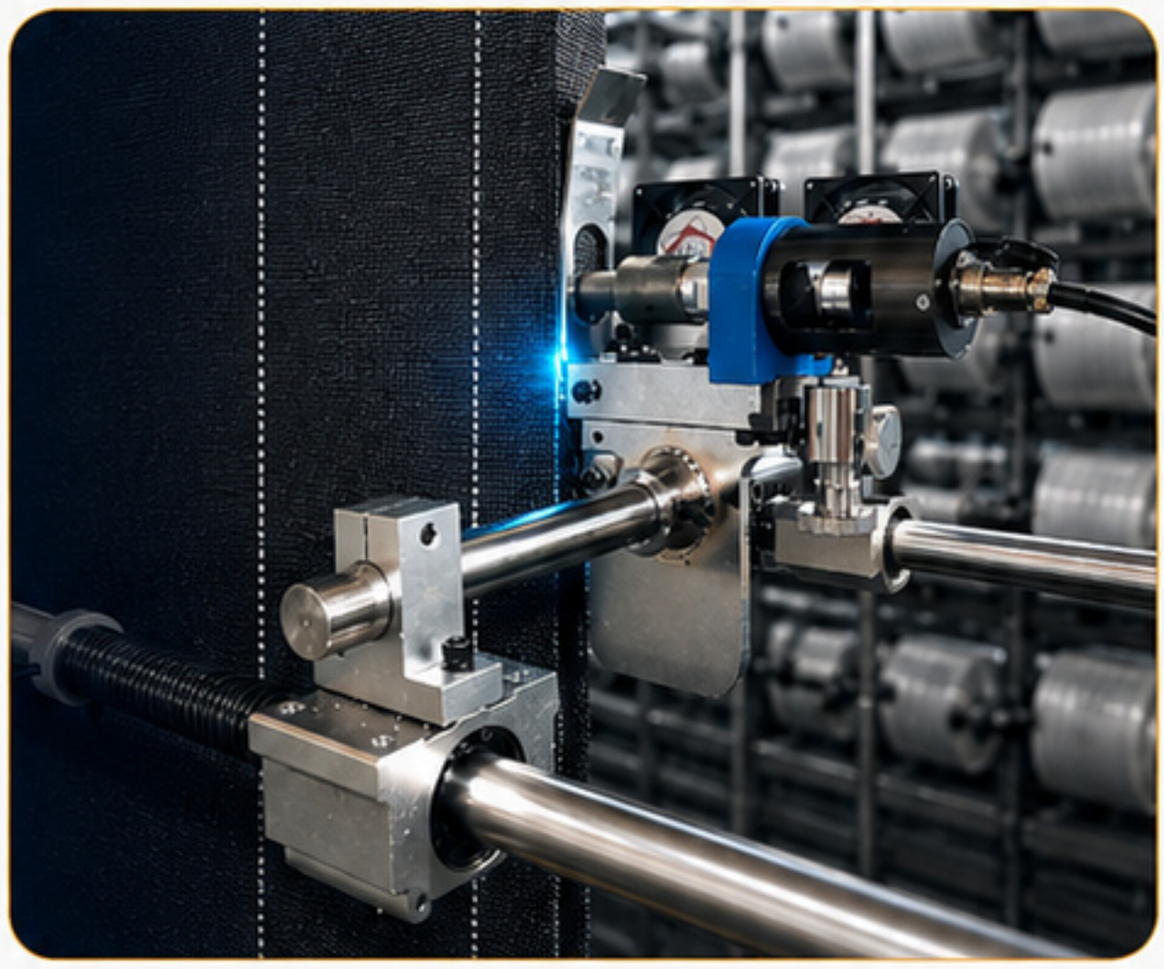
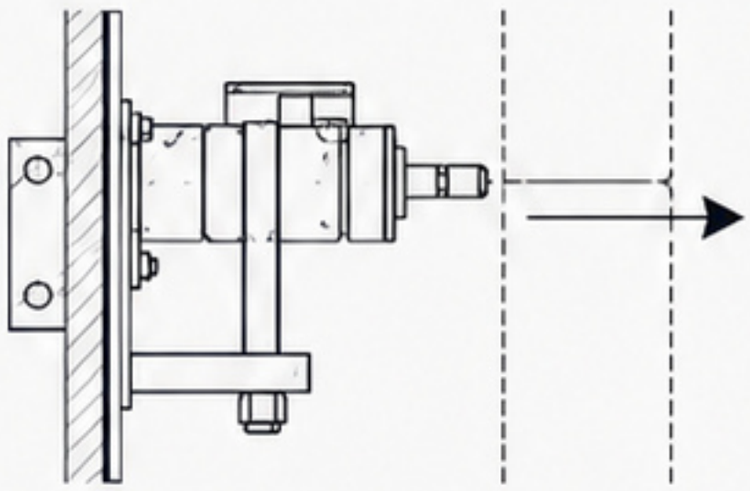
LOOM APPENDIX A — MOUNTING LAYOUTS & FABRIC PATH

Reference layouts help installers visualize typical ultrasonic cutter mounting positions and the correct fabric path on circular loom systems.

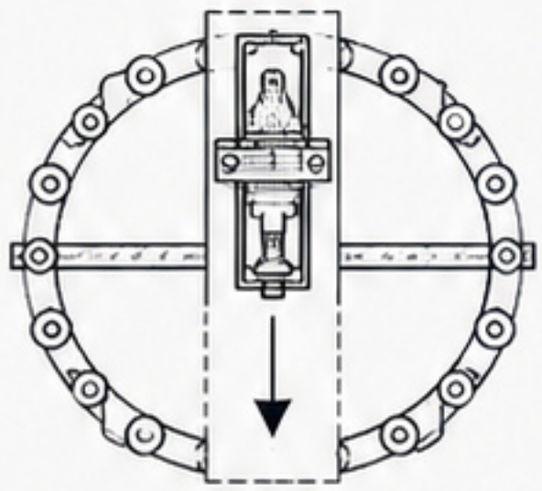


1 Side Mount Layout



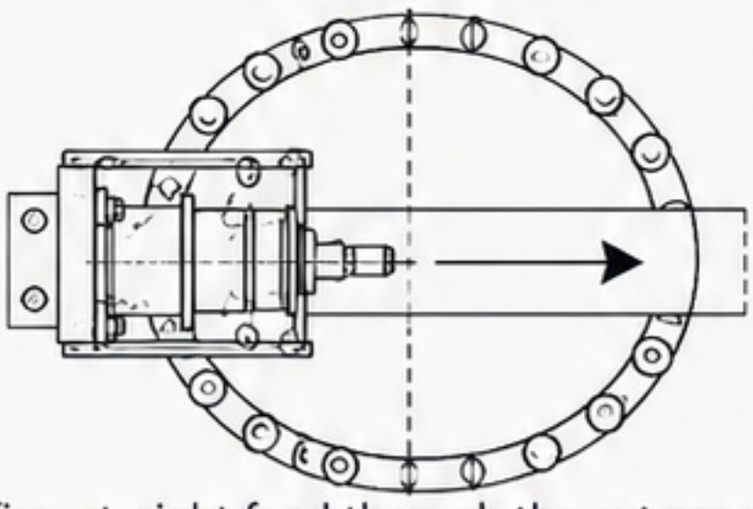
- Mount on rigid loom-side frame
- Maintain easy adjustment access

2 Front View Alignment



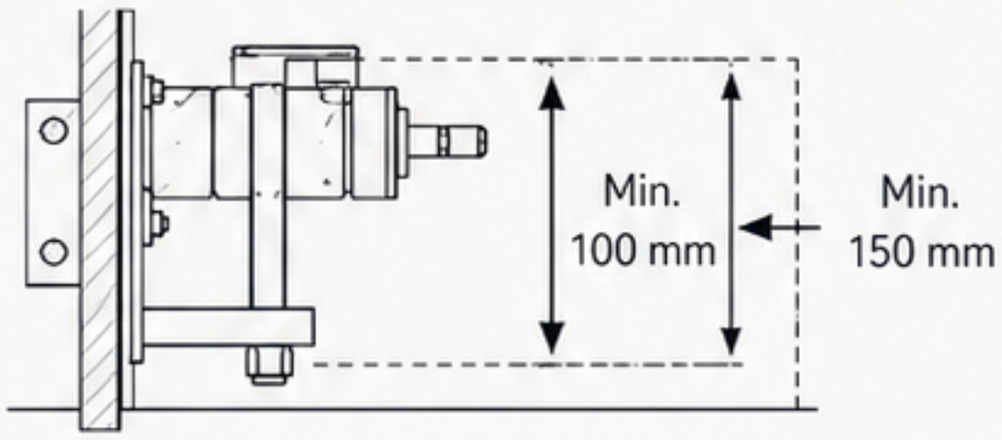
- Cut point centered to fabric path
- Keep horn/blade square

3 Top View Fabric Path



- Confirm straight feed through the cut zone
- Avoid rubbing or twisting

4 Clearance & Service Space



- Provide room for cable routing
- Allow maintenance and blade inspection

Appendix Notes

Use rigid support members

Protect cables from moving parts

Keep the cut zone visible

Recheck alignment after tightening

Validate with sample fabric before production

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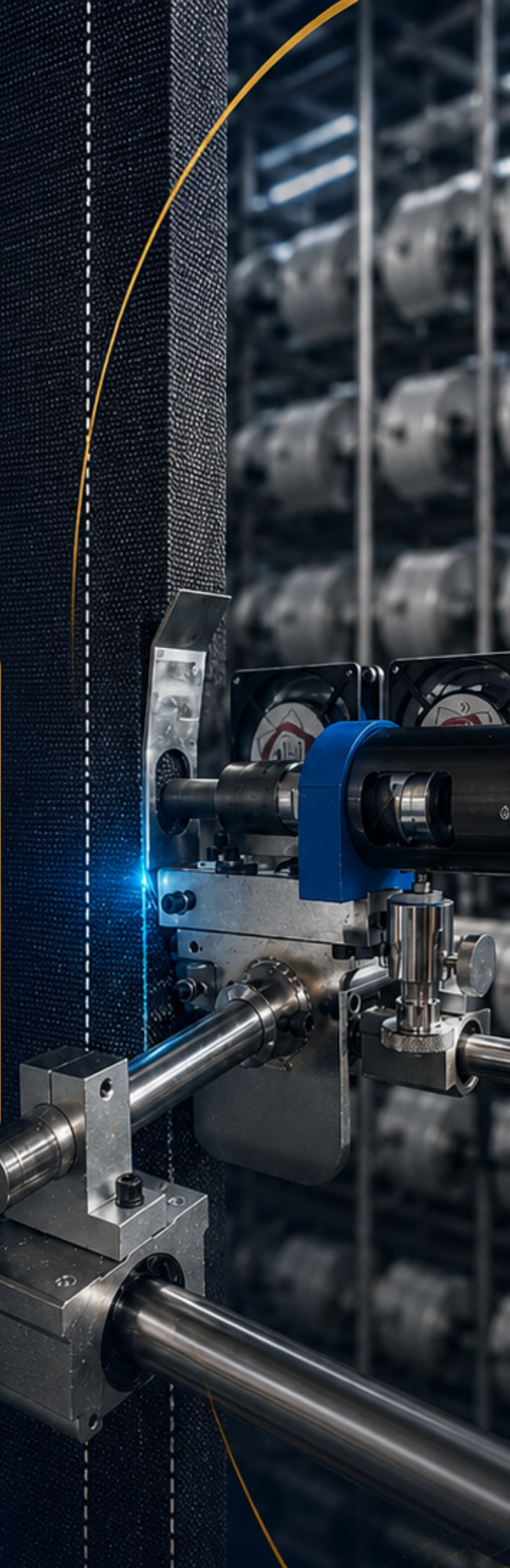
LOOM APPENDIX B – TROUBLESHOOTING, SPARE PARTS & SUPPORT



1 COMMON ISSUES

	ISSUE	ACTION
≈	Uneven cut	Recheck alignment and tension
✂	Fraying edge	Increase power or inspect horn/blade
⚙	Unstable mounting	Tighten bracket and verify support
⚠	Cable interference	Reroute away from moving parts
◎	Poor repeatability	Reconfirm setup and sample test

2 SPARE PARTS REFERENCE

- Horn / blade
- Transducer assembly
- Cable & connector
- Mounting block / hardware
- Knurled rollers / wear parts
- Generator support items

3 SERVICE & SUPPORT

Heyaansh supports installation guidance, setup assistance, parameter optimization and spare-parts support. Our team is here to keep your production moving.

READY TO INSTALL WITH CONFIDENCE?

We’re just a call or message away.

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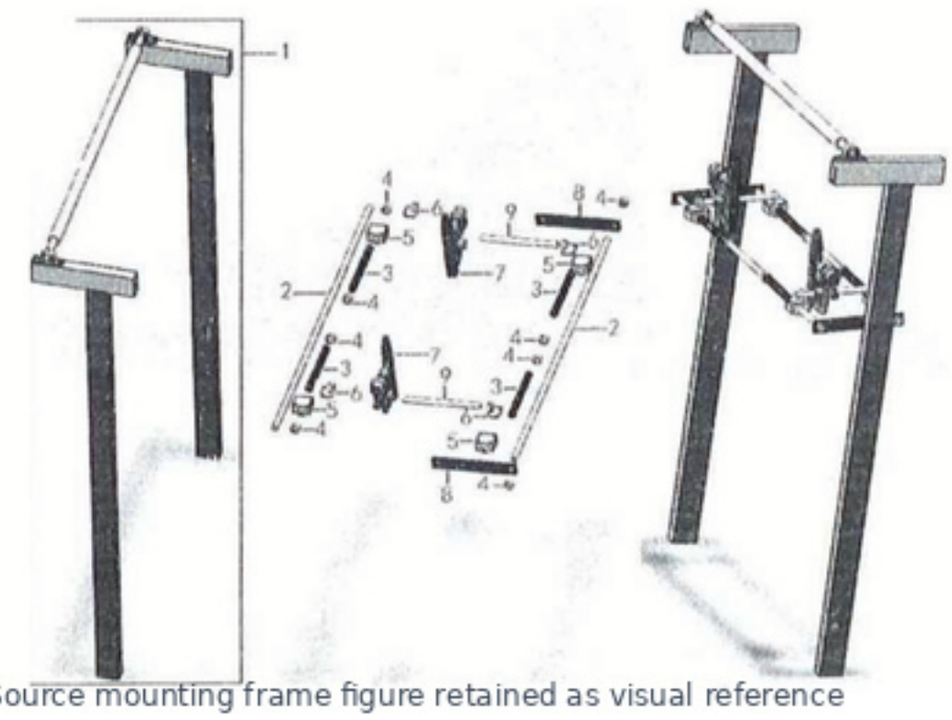
LOOM FRAME APPENDIX

MOUNTING PARTS REFERENCE

Original installation/mounting reference retained for technician guidance. Final installation must follow the loom model, customer sample and qualified technician direction.

1. ORIGINAL INSTALLATION / LOOM FRAME FIGURE



Source mounting frame figure retained as visual reference

2. MOUNTING LIST FROM SOURCE APPENDIX

No.	Pic No.	Part / Installation Item	Qty	Specification / Notes
1	CP101	Mounting frame	1	Reference only; final installation should follow customer sample
2	CP102	Cross axis 1	2	Round steel
3	CP103	Compression spring	4	
4	CP104	Support ring	8	Ø25 - Ø40 - 15
5	CP105	Linear slider	4	SCS25UU
6	CP106	Support block	4	
7	CP107	Ultrasonic device	2	
8	CP108	Mounting plate	2	380 - 50 - 10
9	CP109	Cross axis 2	2	Round steel

3. INSTALLATION NOTES

- Use rigid support members
- Protect cables from moving parts
- Validate frame clearance before drilling
- Recheck alignment after tightening
- Confirm with sample fabric before production

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