LaserSharp® DenimHD

LasX
The Laser Experts

Create natural fade patterns and distressed effects on denim jeans.

For over 15 years, LasX has partnered with RovoLaze to design, build, test and perfect the DenimHD, the most productive laser abrading system in the garment finishing industry.

Equipped with a 2500W laser and 3-station carousel, the perfectly engineered DenimHD creates authentic looking textures, natural fade patterns and other distress effects with no negative impact to the material regardless of wash.

Our patented, ultra-fast process controller and fine laser beam size deliver high definition (50 dpi) patterns on denim surfaces 2 to 4 times faster than existing low-resolution technology and is ideally suited for large-scale production in any industrial environment.

Ring spun pattern.	Stonewash pattern.	Ring spun and crosshatch pattern.	Vector: bitmap floral artwork	Vector: bitmap geometric artwork	Vector: bitmap art with brush filter

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Features

- Authentic looking textures including natural brushed filters.

- High performance index – 3 stations for garment load, laser and automatic unload

- No negative impact to material regardless of wash.

- Quick-change mannequins:
  - Pants or jackets
  - Men's & women's sizes
  - Seam-to-seam scribing

- Unlimited design capabilities.
  - Increased greyscale density provides designers with more options
  - Custom filters to achieve intricate slub effects and textured looks with minimal difference in cycle time

- 180° rotary (front & back).

- Replication of ring spun and crosshatched filters.

- Operable in any industrial environment.

Specifications

Laser type:	CO_2 diffusion-cooled slab laser
Laser wavelength:	10.6 micron
Rated power:	2500W
Safety:	Class 1 (CDRH & ANSI)
Processing area:	1250 x 1250 mm (49.2" x 49.2")
Scribing speed:	Up to 50m/s
Resolution:	High definition (up to 50 dpi)
Max. production capability:	1 operator, 1 unit = 1,000,000 garments per year
Operating environment:	Ambient temperature: 16˚-27˚C (60˚-80˚F)
Ambient humidity:	Non-condensing and <90% relative humidity (highest dewpoint temperature must be at least 2˚ less than the LPM's cooling water temperature).
Safety rating:	Class 1 per 21 CFR 1040.10

Options

- Adobe® Photoshop® filters for pattern decoration (e.g., cross-hatch)
- Precision garment registration (machine vision)
- Automatic order change (bar code)
- Custom version for R&D and Design Centers