



Multi Head Laser Perforation System

Perforation of Flexible Packaging



Transform your flexible packaging with the PerfoTec Multi Head Laser System, powered by revolutionary NanoPerf technology. Designed for produce industry packers and processors, this high-precision system creates ultra-small, precise microperforations to optimize film permeability. The result? Extended shelf life, superior quality, and less food waste through Active Modified Atmosphere Packaging (AMAP) tailored to your product's needs.

PerfoTec NanoPerf

NanoPerf technology sets a new standard by creating ultra-small perforations with pinpoint accuracy, producing **50-micron holes** that are nearly five times smaller in area than traditional 110-micron holes. This precision ensures a perfect oxygen flow tailored to the exact respiration needs of delicate produce, preventing spoilage while maintaining optimal gas levels to avoid anaerobic conditions and stop ballooning through steady gas exchange. As a result, it significantly reduces oxidation, browning, softening, and microbial growth, keeping produce fresh and vibrant for longer.

Smart Tech for Flawless Perforations

Our patented closed-loop feedback camera system is one-of-a-kind, **capturing 250 images per second** per laser exit for full traceability. It inspects every hole for diameter and shape, ensuring the exact Oxygen Transmission Rate (OTR) for each pack. If film thickness varies, the laser auto-adjusts in real time. Plus:

- Fully automatic laser positioning per program
- Stores up to 200 custom programs, easily set up remotely via PerfoTec software

The PerfoTec Multi Head Laser System boosts quality, productivity, and sustainability while cutting waste and costs. Pair it with the Fast Respiration Meter 4.0 and PerfoTecO2Control for a complete approach to reducing food waste across the supply chain.

Choose Your Model, Master Your Packaging

Standard Model

Perfect for beginners with user-friendly software, a built-in screen, and quick 2-minute changeovers

Advanced Model

Full control via the Online PerfoTec platform, complete traceability, and a laser scoring feature for easy-tear packaging

Expert Model

Industry-leading precision with 50-micron holes—highly sought after by the salad industry for top performance

The Next Generation of Modified Atmosphere Packaging

Built for Any Setup, Anywhere

The Multi Head Laser System integrates seamlessly into any slitting or printing setup, with:

- **Speeds up to 450 meters/minute for maximum efficiency**
- High consistency and reliability across all operations
- Fast changeovers within 2 minutes between programs

Support That's Always On

With a secure router, PerfoTec engineers can connect globally to monitor and manage your system remotely, update programs and settings for peak performance, and fine-tune camera communication for precise setup and diagnostics.

MHL Perforation System Tech Specs

Equipment height: 2400 mm
Equipment width: 2400 mm
Equipment length: 1100 mm
Maximum film width: 1600 mm
Net equipment weight: Approx. 1500 kg
Environment temperature: 0 - 30°C
Electrical connection: 208V - 400V, 50/60Hz, 3ph + N + E
Amperage: 32A@208V - 16A@400V (for 4-head laser)
Compressed air: 6 bar, approx. 50nl/min per laser exit
Internet connection: 10Mbps, ethernet connection
Remote support: Router initiated, secure connection, via specialized servers

Ready to optimize your
fresh produce packaging?
Contact us today!

We'd Love to Hear from You!

+31 (0) 297 255 554
info@perfotec.com
perfotec.com