



Catalyst Laser Label Marking Systems

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Produces most durable custom labels and tags.

The new Catalyst Laser Marking Systems produce asset tags, barcode/QR code labels, serial tags, warning labels, instruction panels, and many other industrial labels that must withstand rough environmental conditions for many years.

They combine printing onto highly durable, pre-laminated label substrates with a built-in Digital Die-Cutting™ system for producing labels of any shape or size. As no add-on filtration or fume extraction equipment is required, these laser-marking label printers reduce the initial equipment and ongoing maintenance costs.

Innovative imaging and cutting technology

The Catalyst - available in three versions with different output speeds - uses a patent-pending, bundle package of fiber-coupled laser diodes that laser-images onto a laser film. This laser film (CLF), developed and manufactured by Schreiner, is an unique pre-laminated material that is very resistant to environmental damage and degradation from chemicals, blowing sand and other abrasion.

During the phase-change process that makes the image appear underneath the clear, protective laminate the laser generates no smoke or fumes. Other laser marking systems use the laser to cut out the label's shape and size, but create smoke and fumes. The Catalyst, by contrast, uses an X/Y knife blade plotter that cuts through the CLF material resulting in zero smoke or fumes with no need for filtration or noisy smoke extraction.

Easy to use, operate and maintain

Catalyst Laser Marking Systems are fast and easy to setup and operate with their self-installing driver and PrintHub™ for Windows. The label design and printing software BarTender® UltraLite is included, upgrade versions for additional features like databases such as SAP®, Oracle® and other ERP integrations are available as well. Wired USB 2.0 and Ethernet connectivity are standard.

Maintenance is limited mostly to keeping the machine's interior clear of dust generated during the digital die-cutting process. Laser diodes and fiber-optic couplers have a long life and are replaceable if ever needed.

Three models are available:

Catalyst V2e: entry-level replacement for thermal transfer printers

Catalyst V4e: twice the speed of the V2e model

Catalyst V8e: twice the speed of the V4e model, with throughput speeds and print quality that rival machines costing up to 10x more



Tasco Gent

Industrial Park Asper - Legen Heirweg 59
9890 Gavere BE
Tel. +32 9 281 08 50
Fax +32 9 281 08 70
E-mail info@tasco.be

Tasco Lille

130, Boulevard de la Liberté
F-59000 LILLE
Tel. +33 3 62 26 00 22
E-mail info@tascofrance.fr
RCS LILLE METROPOLE B 793 237 843 - Capital : 25.000 €
Site www.tascoshop.eu

Tasco Paris

13, Rue Marie Poussepin - Z.A. Lavoisier
F-91410 DOURDAN
Tel. +33 3 62 26 00 20
Fax +33 3 62 26 00 23



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Specifications

Print Method:	Fiber-optic coupled laser diodes
Print Resolution:	300 x 300 dpi
Print Width:	Pre die-cut: 13 mm (0.5") to 127 mm (5") Digital die-cut: 13 mm (0.5") to 104 mm (4.1")
Media Width:	Pre die-cut: 54 mm (2.125") to 133 mm (5.25") Digital die-cut: 120 mm (4.72")
Print Length:	13 mm (0.5") to 305 mm (12")
Media Type:	Schreiner Colour Laser Film (CLF), Black with white print
Media Sensing:	See-through and black mark sensors for pre-die cut labels, TOF sensing for digital die-cutting
Label Design Software:	BarTender Ultralite included; other versions available for more features and integrations
Operating System:	Windows® 7 - 10
Data Interface Connections:	USB 2.0, Ethernet 10/100
Power Requirements:	100-240 VAC, 50/60 Hz, 12VDC, 5.0 Amps
Certifications:	Agency Approvals: UL, UL-C, CE, FCC Class A Laser Safety: CDRH and IEC 60825-1 UL: Class 1 Laser Product
Weight:	5.7kg
Dimensions (WxHxD):	345 mm x 242 mm x 432 mm

CATALYSTEN01 - Technical specifications are subject to change without notice.

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Industrial Park Asper - Legen Heirweg 59
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Fax +32 9 281 08 70
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