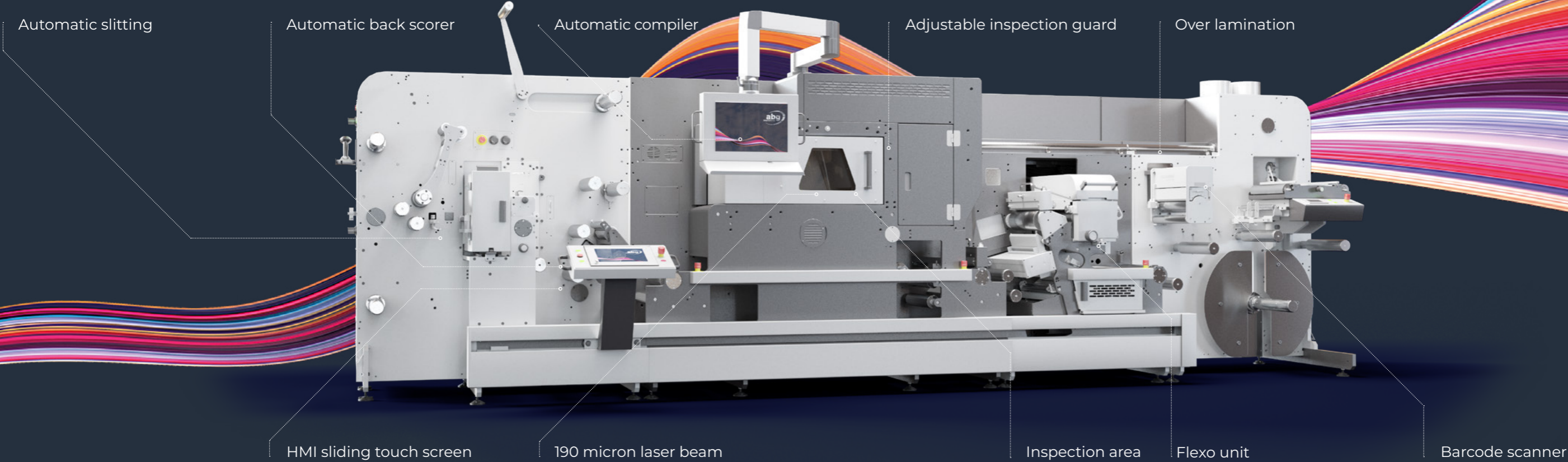![abg international DigiLase logo]

Provide the most accurate laser converting

The DigiLase 4.0 is the result of continuous developments in laser cutting technology made by ABG engineering teams.

Automatic slitting

Automatic back scorer

Automatic compiler

Adjustable inspection guard

Over lamination

HMI sliding touch screen

190 micron laser beam

Inspection area

Flexo unit

Barcode scanner

Time saving

Fast, fully automated job changeover and simple pre-press set-up

Reliable results

Cutting speed and power are automatically managed by the software developed by ABG

Simple to configure

Modules and options to configure the machine exactly as you need

Flexible

Works across a range of print applications; roll to roll, sheet or individual piece

Accurate finishing

Digitally controlled fine laser beam for cutting intricate shapes on many materials

Intelligent

Integrates with any Management Information System (MIS)

Quick set up

No make readies required and saved jobs can be set up for automatic repeats

Easy to use

Intuitive interface with integrated inspection area and no need for hard tooling

DigiLase

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Individual piece, roll-to-roll or sheet options

The modular configuration allows you to deliver labels on a roll or as individual pieces, depending on your customer's preference.

Designed for short print runs with reduced lead times, the DigiLase 4.0 is perfect for web-to-print businesses.
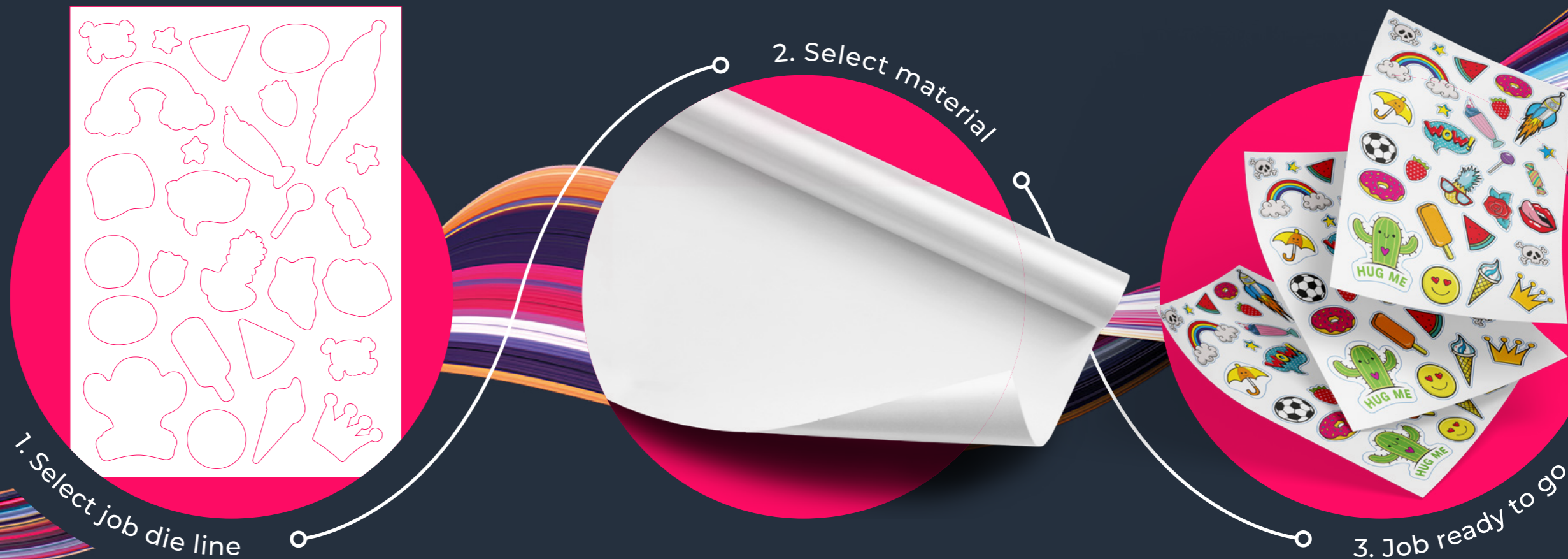
Automatic compiler

The DigiLase 4.0 is set up to make jobs simple to run. The automatic compiler uses the material type and shape to work out:
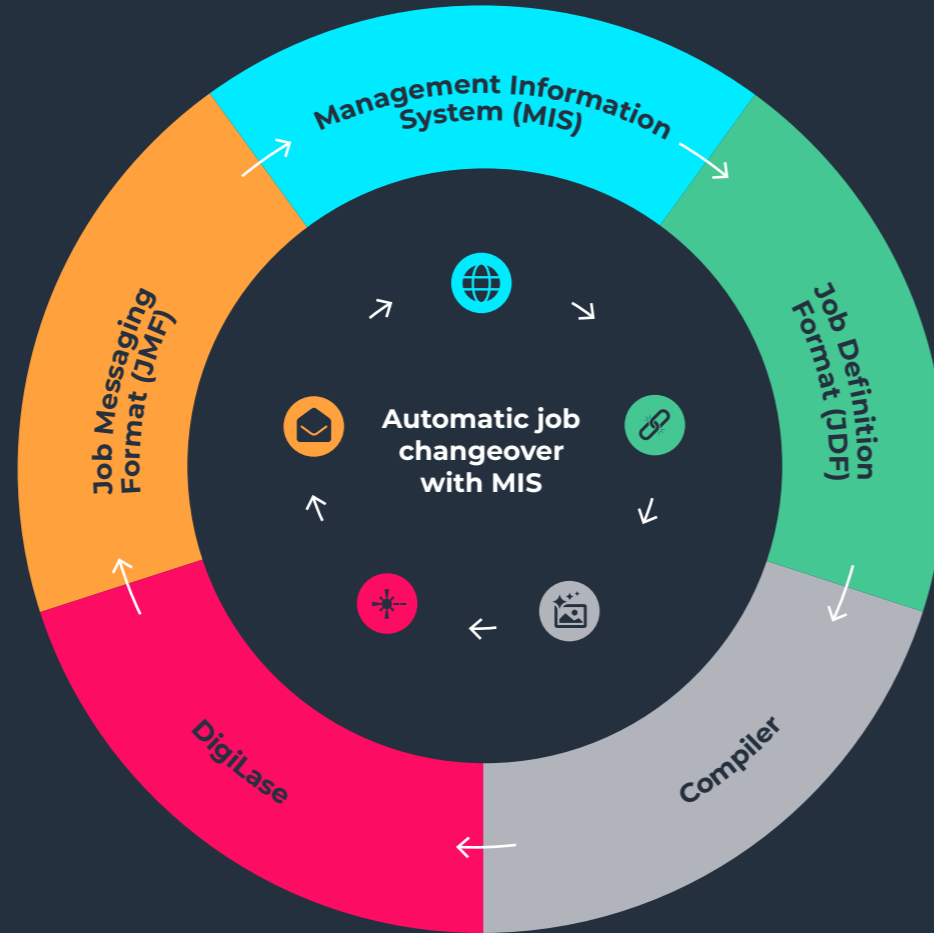
- The most accurate laser path
- The correct laser power
- The right job speed

New materials are calibrated in only a few seconds, and the two-step process does not require any manipulation from the pre-press or system operator, providing accurate results.

1. Select job die line

2. Select material

3. Job ready to go

Advanced JDF/JMF System Technology

The ABG connectivity system can work in conjunction with any Management Information System (MIS) through Job Definition Format (JDF) and Job Messaging Format (JMF) files. Providing unrivalled efficiency, this sophisticated technology enables automatic job set-up and changeover in just a few milliseconds, with minimal human intervention.

Management Information System (MIS)

Job Definition Format (JDF)

Compiler

DigiLase

Job Messaging Format (JMF)

Automatic job changeover with MIS

JDF/JMF Benefits

Connectivity with all ABG finishing machines managed via a single central server

Faster and more accurate set up reducing risk of operator error

Removes admin tasks from operators freeing up time to concentrate on production

Gives competitive advantage with real time production data for accurate stakeholder reporting

Material saving with faster and accurate setups

Less paperwork with the QR codes removes the need for paper job tickets

Money saving through increased automation and less need for human resources

Efficient set up allows files to be received directly from the customer's website

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DigiLase

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Part of the Digicon Series 3 range

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Seamless integration
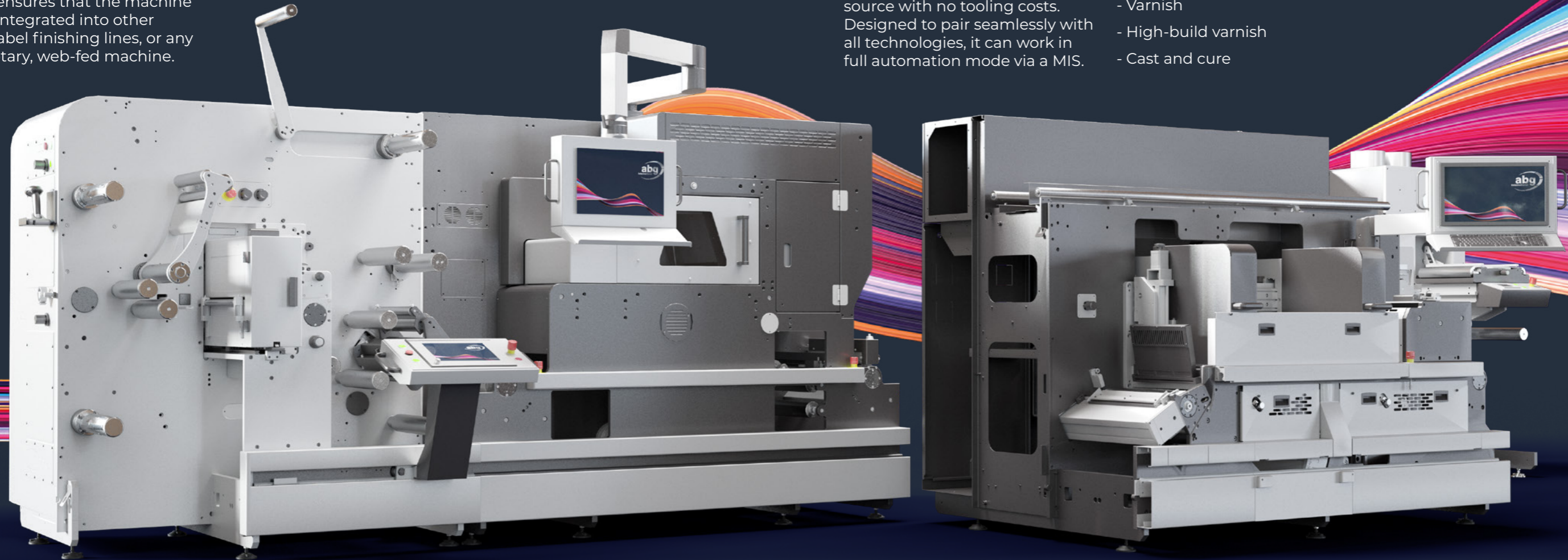
abg international **DigiJet**

Offering unrivaled versatility, the DigiLase's unique modular design ensures that the machine can be integrated into other digital label finishing lines, or any other rotary, web-fed machine.

Perfect for short print runs, the DigiJet is able to embellish in high detail from any image source with no tooling costs. Designed to pair seamlessly with all technologies, it can work in full automation mode via a MIS.

Capabilities

- Cold foil

- Varnish

- High-build varnish

- Cast and cure

Technical specification

Product classification	Class 1 (non-dangerous good)
Maximum repeat length	Unlimited
Field of view	320x320mm
Laser heads	1 x 400W
Laser wavelength 10.2µm	Suitable for any standard label stock
Laser type	Sealed CO2
Laser beam diameter	190 microns
Beam path	Fully sealed and purged
Scan head motion	X, Y & Z axis
Minimum job length	2 meters
Maximum inter job gap	500mm
Registration tolerance	+/- 0,15mm
Job changeover time	5 milliseconds
Max unwind roll diameter	800mm
Unwind mandrel diameter	76mm
Rewind roll diameter	600mm (upper shaft) - 800mm (lower shaft)
Rewind mandrel diameter	76mm (other sizes available)

Want to find out more?

See the quality of the DigiLase
4.0 for yourself – send us
a sample file and we will
demonstrate the simple set-up
and finishing quality.

Enjoy the security of ABG

65+ years of print finishing expertise

Designed, manufactured, and serviced by ABG

Built with connectivity, automation, and ease of use

Modular approach which means each build can be bespoke to you

Retrofittable options – allowing you to future proof your business