

Ultimate productivity



DIE-CUTTING | CORRUGATED BOARD

MASTERCUT 1.7 PR | 2.1 PR

At a glance

Powering performance

There comes a point in corrugated board manufacture when only the highest productivity and best possible product quality are good enough for you and your customers. By incorporating pioneering solutions that deliver higher running speeds, fewer stops, shorter makereadies, and matchless quality, **MASTERCUT** represents exactly this when it comes to the flat-bed die-cutting of corrugated board and litho-lam.



Turning speed
into profit

Reliable
and easy to operate

Unrivalled
blank quality

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Creating value

BOBST innovations
are driven by customer
and brand owner needs.

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Good protection and safety

Protecting the goods is the main requirement for corrugated boxes meaning high quality, clever designs, robustness and zero-fault.

Customized, premium, secured

Boxes play a new role where customization, high-graphics and security features are required.

Out of the box experience

Consumers expect the most relevant un-boxing of any goods. Packages are becoming more clever, telling a story as part of the brand positioning.

E-commerce

The demand is growing and is here to stay. Boxes need to come in almost any size and shape, requiring flexibility and productivity across the supply chain.

Sustainability

Packaging production needs to reduce its environmental carbon footprint – less waste across the entire supply chain. New and thinner substrates. Recycling and re-use are the new rules.



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Perfect sheet feeding

Bottom feeder

- Rear sheet support with lateral and rear jogging for perfect sheet alignment
- Lateral joggers with blower for perfect sheet insertion even with microflutes
- Low drop, preventing possible sheet damage
- Vacuum suction plate handles all types of materials from microflute, litho-laminates to double-wall



Unique register

POWER REGISTER

- Dynamic optical register system
- Reads either sheet edge or printed mark for flexibility in your lay-outs and substrate choice
- Sheets are guided into the gripper bar in perfect register without mechanical contact
- Guarantees highly accurate print-to-cut registration for impeccable die-cutting results



Precise die-cutting

Platen section

- Completely new design and minimal deformation
- Reductions in makeready time and set-up time as well as cutting force needed
- Substantially increased machine up-time and tool life
- Paired with a chase loader, productivity is further increased because the next job is prepared off-press and changeover is fast and easy

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Optimum transport

Double cam gripper bar advance

- Accelerates and decelerates sheets in the smoothest way possible
- The new lower gripper position further enhances flat sheet travel, reducing stress on the sheet as it travels through the machine and allowing for higher production speeds
- Smaller contact points for improved finished product quality



High efficiency

HMI SPHERE

- SPHERE provides a single point of control for all functions of the machine
- Intuitive and operator-friendly navigation with step-by-step setup
- Possibility to recall of up to 5,000 job settings
- Allows swift setups and changeovers for more machine uptime
- SPHERE allows machines and data to be connected in one comprehensive platform



Non-stop productivity

Delivery

- Uninterrupted production while evacuating die-cut batches
- Electronically controlled braking brush for optimal sheet slow-down and stability
- Especially useful for trailer-mounted jobs
- Male-female ejection tool for accurate removal of front waste, even at full speed

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1

MASTERCUT 1.7 PR 2.1 PR	2.95 m	9.80 ft*
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2

MASTERCUT 1.7 PR	7.70 m	25.26 ft*
MASTERCUT 2.1 PR	8.70 m	28.54 ft*

3

MASTERCUT 1.7 PR 2.1 PR	11.30 m	37.10 ft*
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*Values may vary according to the configuration.

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Convertible stock

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Corrugated board, from	0.75 - 9 mm	.03 - .35 in
Corrugated flute types	A, B, C, D, E, F, G, N, O; AB, AC, BC, EB, EF; Triple wall	

Capability

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Sheet size, max.	1,700 x 1,300 mm	66.92 x 51.18 in	2,100 x 1,300 mm	82.67 x 51.18 in
Sheet size, min.	730 x 520 mm	28.74 x 20.47 in	730 x 520 mm	28.74 x 20.47 in
Production speed, up to	7,500 s/h	7,500 s/h	7,000 s/h	7,000 s/h
Cutting force, up to	4.5 MN	495 US ton	4.5 MN	495 US ton
Mirror version	Yes	Yes	Yes	Yes

Die-cutting

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With gripper margin, max.	1,700 x 1,275 mm	66.92 x 50.19 in	2,100 x 1,275 mm	82.67 x 50.19 in
Gripper margin (adjustable)	15 mm (+3/-4 mm)	0.59 in (+0.11/-0.15 in)	15 mm (+3/-4 mm)	0.59 in (+0.11/-0.15 in)
Height of cutting rules	23.8 mm	0.937 in	23.8 mm	0.937 in

Batch height

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Feeder, min.	20 mm	0.78 in
Feeder, max.	Depending on board quality and weight	
Delivery, max.	300 mm	11.81 in

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Related products



> MASTERFLEX-HD

Your MASTERCUT is the perfect partner to a MASTERFLEX-HD press, letting you produce complex boxes, featuring high definition print, in just one pass.



> LOADER AF

Our top feeder solutions handle piles up to 2,000 mm (78.75 in) high, sheets up to maximum size and materials from the lightest to the heaviest - while also ensuring a consistent board stream and no operator intervention.




> BREAKER 2 FLAT TRACK

Handling smallest batches - 150 x 150 mm (5.91 x 5.91 in) - at a rate of 300 per hour, BREAKER 2 FLAT TRACK is your full solution for mastering your layer arrangement solution.

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Maintaining excellence

Expert services for all your equipment.
Improve your processes, boost your productivity and enhance your expertise with a complete range of services from BOBST.



Maintenance Plus

- Scheduled maintenance with BOBST certified technicians
- Preventative intervention, maximizing machine uptime
- Optimum performance over the equipment lifetime

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Approved parts and logistics

- BOBST Original and Certified parts, and consumables
- Quality assurance, and extended maintenance intervals
- Worldwide distribution, and full availability where and when you need it

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Machine upgrades

- Additional features, configured for your machine
- Enhanced functionality, connectivity and capability
- Future-proofing your investment, maintaining competitive advantage

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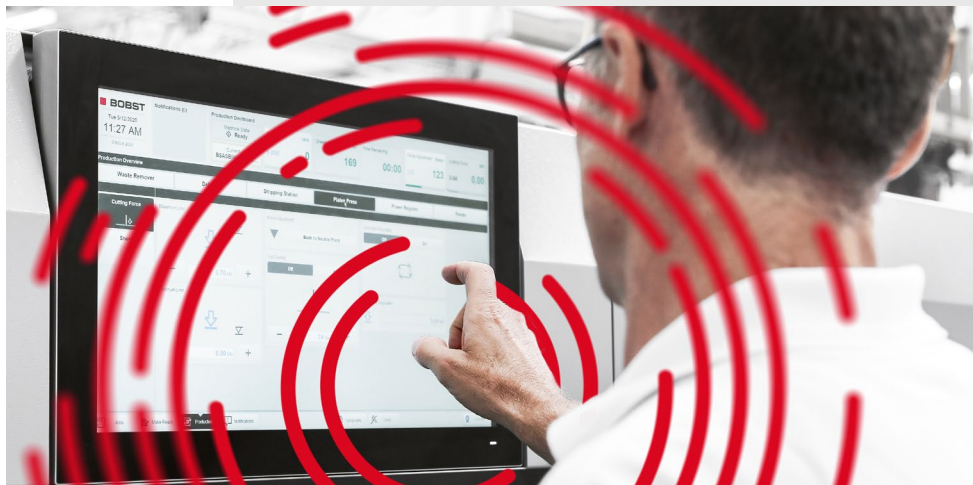
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Digital age manufacturing happening with BOBST Connect

BOBST Connect is an end-to-end, user-centric digital platform that enhances and increases your packaging productivity. It's designed to help you make the most of the data your machine generates, improving efficiency across your value chain.

As well as exceptional data insights, BOBST Connect helps to orchestrate and improve your whole production process, from your PDF to the finished product and quality report. It brings data and digital services together in one fully connected platform, with machine insights and expertise built in.

All of this is available to you as part of BOBST Connect Essential, the first subscription level that you receive when you purchase a new BOBST machine.



Performance analysis

- Production insights, including interaction of OEE components
- Identify and eliminate performance gaps

Accurate reporting

- Meaningful insights on OEE and downtime
- Accurately measure target speed and quality losses
- Trend analysis over time

Progress indicator

- Highlights extensive production deviations
- Empowers timely interventions

Remote assistance

- Priority access to technical specialists
- Video with Augmented Reality expert support based on real-time data
- Available 24/7 (optional)

Shift management

- Optimize planning time
- Deliver overall resource efficiency

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Full tooling process optimization

In this challenging market, great tooling provides the consistency that you and your customer need, from the first to the last box of an order. BOBST offers the most advanced tools and equipment for die-making and converting processes so you can exceed customer quality and turnaround expectations, all while maximizing uptime and profitability.



For more information on advanced tooling and die-making products, please contact our experts.

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World-class die-cutting

- Forward thinking die-making equipment and software
- Shorter lead times without compromising quality
- Create exceptionally precise tooling for every converting process

Certified Die-Makers

The Certified Die-Makers Program supports and promotes world-class local die-makers. Choosing a certified die-maker guarantees the best local tooling solutions, with BOBST supporting the ongoing innovation, digitalization and quality improvements of these specialists.

Enhanced converting

- Industry-leading range of equipment
- Made for all cutting, stripping and blanking stations
- Shortens set-up and changeover times

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Rapid digital comparison and proofing



Streamline the comparison and proofing of sample prints and die-cut blanks using the innovative, new BOBST Digital Inspection Table. Projecting HD original artwork images onto samples, it allows for instant and paperless assessment, digitally and in real time – eliminating the need for overlays and print minis.

Extensive benefits

Productivity

- Fast setup, simple touchscreen UI
- High-quality proofing reduces errors
- Eliminate Library of Tracing to lower costs and save space

Quality

- Rapid, accurate quality control
- Automated quality tracking
- Performance measurement and issue identification

Cutting-edge features

- HD projectors for accurate illumination
- Real-time imaging
- Automated data capture, records and receipts
- Full or partial warp analysis, pre or post-conversion

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