

Pioneering solution for litho-lam converting

Unique
technology for
folding carton and
corrugated board
die-cutting



DIE-CUTTING | CORRUGATED BOARD

MASTERCUT 1.65 PER

At a glance



Powering performance


MASTERCUT 1.65 PER provides the width and power to cut large-size cardboard and very strong corrugated sheets. At the same time, it is delicate enough to process litho-printed surfaces with delicate varnish. Combining the best of corrugated board and folding carton machines, MASTERCUT 1.65 PER has been optimized with innovative features to create a flatbed die-cutter dedicated to litho-lam converting. Fully automated and highly productive, it is also the only solution in the market for size VII blanking. A truly unique machine.

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Unique litho-lam die-cutting

One machine for all jobs

Amazing quality - in every way



The best of both worlds

A powerful, large-size AUTOPLATEN® die-cutter including folding carton machine features: MASTERCUT 1.65 PER ensures smooth and high-precision converting, even for delicate materials such as litho-laminated board. This die-cutter has a feeding section able to fit seamlessly into any logistics and can be combined with downstream peripherals to create a full production line. Versatile, robust and equipped for Industry 4.0, MASTERCUT 1.65 PER is built to be a long-term asset.



Impressive productivity

Up to 5.5 MN and 7,000 s/h as well as full compatibility for corrugated board tooling



Perfect batches

Non-stop delivery of counted batches, with possibility of motorized full sheet delivery



Unique blanking

Single or double cut blanking with dynamic waste ejection



Fully automated setting

MATIC setting of all machine parts according to sheet size and thickness



Unmatched accuracy

Bespoke POWER REGISTER ensures folding carton sheet registration precision for corrugated and litho-laminated board



A smooth start

Redesigned top-feeding system and feeding table tailored for processing warped materials

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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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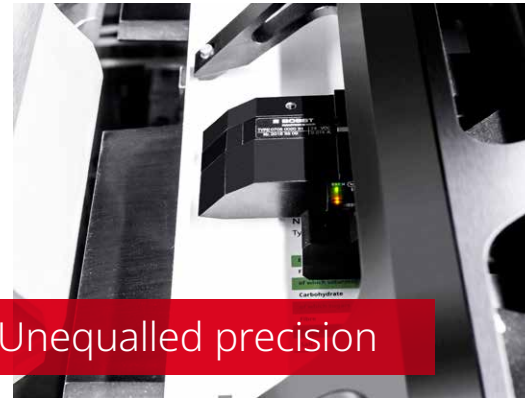
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Delicate feeding

SMART FEEDER 3

- Top feeding system with suction units and wide transport belts for gentle feeding of sensitive substrates
- Fully automated pile positioning and sheet synchronisation for smooth and precise sheet entry, cutting feed errors and providing continuous and stop-free production
- Feeding table with dedicated pressing device, tailored for careful processing of warped materials
- Delicate feeding and processing ensures top blank quality and reduces waste



Unequaled precision

POWER REGISTER 3

- BOBST technology, especially adapted for converting corrugated and litho-laminated board
- Guarantees high-precision die-cutting results with folding carton register accuracy
- Contactless sheet registration preserves perfect sheet integrity
- Optical register reads either sheet edge or printed marks, allowing flexibility in lay-outs and substrate choice



Powerful die-cutting

Platen section

- Powerful die-cutting force with low pressure on the sheet, cutting robust substrates and delicate materials equally well
- Automatic cutting force adjustment, increasing tool longevity
- Reductions in makeready time and set-up time with CENTERLINE and automatic supporting plate locking
- Optional ToolLink allows recipe management automation, drastically reducing setup times for repeat jobs

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Quality and versatility

Stripping section

- Compatible with folding carton and corrugated board tools, for maximum flexibility
- A dynamic cradles locking device prevents wrong blanks from being processed, preserving tooling and ensuring product quality
- Fast and easy removal of a die-cut sampling sheet for quality check
- Easy access and quick setting for more uptime and operator-friendly handling



Setup in no time

Seamless changeovers

- Tool compatibility allows swift equipment changes between folding carton, corrugated and litho-laminated board jobs
- Operator-friendly step-by-step setup via HMI SPHERE
- MATIC positioning of all feeder, platen press, waste stripping and delivery settings, saving time and guaranteeing maximum precision
- Up to 15 minutes savings on setup time for repeat jobs with ToolLink



Flexible non-stop delivery

Blanking and delivery

- Single cut, double cut or full sheet delivery provide maximum flexibility
- Adjustable non-stop rack enables the delivery of perfectly counted batches
- Automatic jam detection system and dynamic waste ejection guarantee perfect stacking of impeccable blanks
- Continuous and stop-free delivery of batches, ready for downstream processing
- Optional shredder system for automatic removal of blanking waste

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Speed and precision

Maximum level of automation

- Fully automated die-cutter for extreme precision, maximum efficiency and reduced workload
- Can be combined with BOBST peripherals to form a complete production line, fully integrated into the company's logistics
- MATIC positioning for board dimensions and substrate thickness from feeder to delivery, allowing quick setups
- HMI SPHERE with intuitive navigation, stores up to 5,000 jobs, considerably shortening makereadies
- Optional TooLink allows recipe management automation, drastically reducing setup times for repeat jobs



Future-proof equipment

Preparing for the next step

- Machine available with latest BOBST Connectivity features and ready for Industry 4.0
- > Helpline Plus and Service Apps allow remote trouble shooting and overview of production data
- > TooLink allows connection between cutting die and HMI to instantly retrieve job data

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1	3.10 m	10.20 ft
2	17.70 m	58.10 ft
3	9.75 m	32 ft

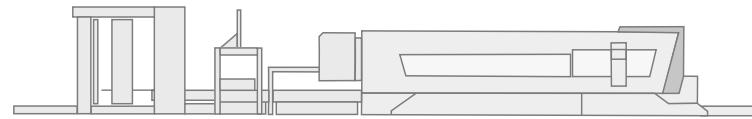
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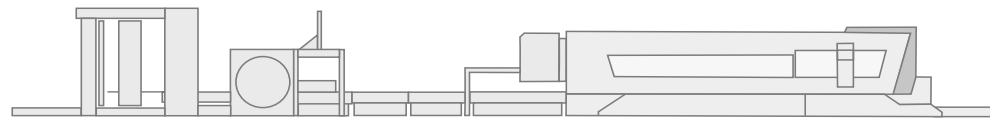
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MASTERCUT 1.65, waste shredder, FLAT TRACK base, PALLETIZER



MASTERCUT 1.65, waste shredder, FLAT TRACK full, PALLETIZER



MASTERCUT 1.65, waste shredder, BREAKER 2 FLAT TRACK, PALLETIZER



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Convertible stock

Corrugated /litho-laminated board, from	0.5 - 7 mm	.02 - .28 in
Corrugated flute types		A, B, C, D, E, F, G, N, O; BC, EB
Solid board, from	300 - 2,000 g/m ²	.017 - .60 in

Capability

Sheet size, max.	1,650 x 1,300 mm	65.00 x 51.20 in
Sheet size, min.	600 x 520 mm	24.60 x 20.50 in
Production speed, up to	7,000 s/h	7,000 s/h
Cutting force, up to	5,5 MN	618 US ton

Die-cutting

With gripper margin, max.	1,650 x 1,275 mm	65.00 x 50.19 in
Gripper margin (adjustable)	15 mm (+3/-4 mm)	0.59 in (+/- in)
Height of cutting rules	23.8 mm	0.937 in

Batch height

Feeder, max.	1,600 (2,000)* mm	63.00 (78.75)* in
Delivery, max.	400 mm	15.75 in

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*With maximum machine elevation

Related products



PALLETIZER

PALLETIZER is key to maximizing your productivity. It smoothly and automatically layers your die-cut production, ensuring excellent piling quality and perfectly stable piles up to 2,400 mm high.



FLAT TRACK

Forms complex layers ready for palletization, completely automizing the layer arrangement process.



CHASE LOADER

This pivoting presetting table allows you to prepare a second job during production, considerably speeding up changeovers and increasing productivity.



ROBOLOADER

With ROBOLOADER, the transfer of blank piles to the feeder area is completely automated. The robot ensures regular and consistent feeding at top machine speeds, enabling optimal production line productivity.



ROBOPALLETIZER FG

ROBOPALLETIZER allows to stack blank piles or box batches in various patterns, completely automating the palletizing process at the end of the converting line.

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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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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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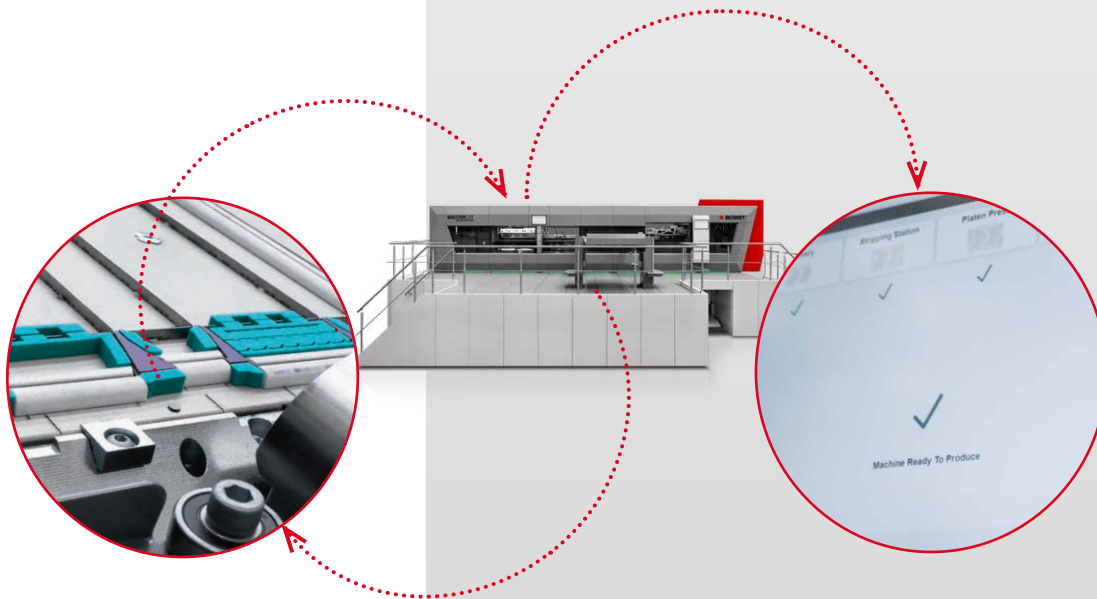
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Digital technology for smarter converting

TooLink brings converting into the digital world. It is the new platform that connects your machines and tooling, and brings together your entire converting process to transform production flexibility, job turnaround times, and overall productivity.

A BOBST die-cutter can be data-chipped with TooLink, creating a unique digital ID that enables instant recognition through your machine HMI, and provides a production-ready job recipe. TooLink helps to simplify and automate the production process, putting you ahead of the curve for smart and more sustainable converting.



Extensive benefits

- Saving up to 15 minutes in job changeover times, increasing efficiency and flexibility
- More consistency and continuity in the job recipe management for better product quality
- Fewer setup adjustments for increased cost-efficiency and sustainability

Technology for the future

- Industry-leading digital technology
- 2 sets of > High Performance Tooling - including TooLink chips - for machines with blanking
- Ready for BOBST Connect platform, allowing an end-to-end process overview, for complete production process management and optimization

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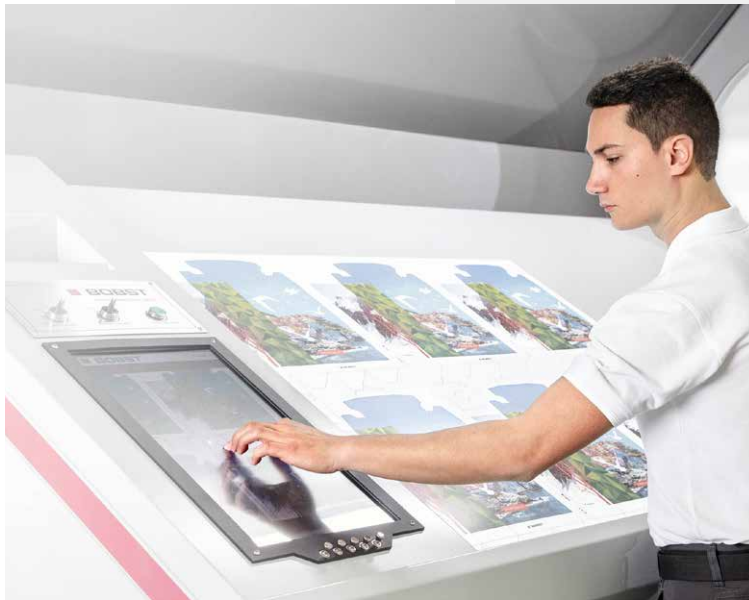
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Rapid digital comparison and proofing



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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