

# World's fastest size 6 die-cutter



DIE-CUTTING | FOLDING CARTON

MASTERCUT 145 PER

At a glance

# Empowering flexibility

When only the very highest productivity will do: **MASTERCUT** is the most fully automated and productive die-cutter on the market. Its market-leading speed delivers uninterrupted production and superb quality of the finished product.



Turning speed  
into profit

Sensational  
blank quality

Maximum  
automation

**BOBST**

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# Creating value

**BOBST innovations**  
are driven by customer  
and brand owner needs.

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## Functional packaging and protection

Protecting the goods in a clever way is required. Single serve, multi-packs, re-sealable, see-through.

## Customization, versioning, personalization

Packaging needs to reach all segments of the society taking almost any shape and size from very short runs to reprint and long runs. All with the best color consistency.

## E-commerce & omni-channels

Multiple retail formats set new requirements for packaging. On-demand production, timely delivery across multiple designs, shapes and sizes.

## 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.

## Faster time-to-market

A growing number of products need to reach consumers faster. Product lifetime is shorter. From product design to the consumer experience, the supply chain has to be more agile.



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Perfect sheet feeding

### SMART FEEDER

- Reduces feed-related stoppages and improves your productivity
- Continuous stepless pile raising for optimal feed
- Automatic lateral pallet correction up to +/- 100 mm
- Perfect material flow due to anti-static feeding table with recessed belts



Unrivalled register

### POWER REGISTER 2

- "No sheet-edge contact" system reduces feed related production stops
- Perfect positioning thanks to cameras checking sheet edge, register marks and print
- Automatic synchronization of the sheet arrival
- Unique bottom-print registration feature



Complete control

### HMI SPHERE

- Large 22" full color Human Machine Interface (HMI)
- Simple step-by-step procedure guides the operator through the job set-up process
- All settings appear on one screen for more convenient and intuitive navigation
- Can store up to 5,000 job set-ups to minimize setting time

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Unequaled die-cutting

### **AUTOPLATEN®**

- Smoothest sheet acceleration drastically limits number and size of nicks
- Micrometric adjustment of supporting plate
- Quick Lock die-cutting chase for fast and easy setting
- Motorized cutting force adjustment



Precision and speed

### **Stripping and blanking**

- Even delicate or light materials are perfectly stripped at highest speeds
- Quick Lock frame for central stripping board
- Automatic gripper bar opening facilitates quality control
- Self-adjusting system stacks blanks perfectly



Fast and easy

### **MATIC**

- MATIC system allows a vast number of automatic setting features, shortens set-up time and reduces operator intervention
- Quick and easy fitting of dedicated tools in the machine
- Camera-guided tool positioning of stripping tools including third HMI

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<b>1</b>	3.25 m	10.66 ft*
<b>2</b>	13.00 m	42.65 ft*
<b>3</b>	7.00 m	22.69 ft*

\*Values may vary according to the configuration.

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### Convertible stock

		MASTERCUT 145 PER
Paper, min.	80 g/m <sup>2</sup>	.004 in
Carton or solid board, up to	2,000 g/m <sup>2</sup>	.060 in
Corrugated board, up to	5 mm	.200 in

### Capability

Sheet size, max.	1,450 x 1,050 mm	57.08 x 41.33 in
Sheet size, min.	580 x 450 mm	22.83 x 17.71 in
Production speed, up to	9,500 s/h	9,500 s/h
Cutting force, up to	5.5 MN	600 US ton

### Die-cutting

With gripper margin, max.	1,450 x 1,035 mm	57.08 x 40.74 in
Embossing size, max.	1,450 x 1,030 mm	57.08 x 40.55 in
Gripper margin	9 - 17 mm	.35 - .66 in
Height of cutting rules	23.8 mm	.94 in

### Pile height

Feeder, max.	2,000 (2,400)* mm	78.74 (94.48)* in
Feeder, max. with non-stop, manual	1,600 (2,000)* mm	62.99 (78.74)* in
Delivery, max.	1,600 (2,000)* mm	62.99 (78.74)* in

\*Heights with maximum machine elevation

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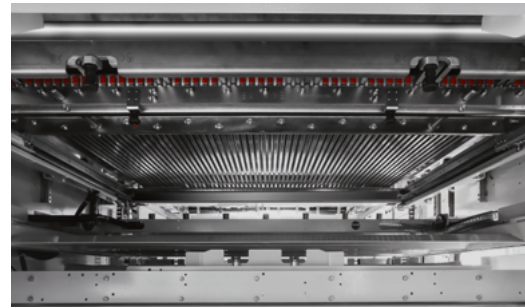
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## Related products



### **AUTOMATIC PILE TRANSFER (APT)**

APT optimizes material flow by continuously supplying pallets of work to the feeder. Empty pallets are then transported to the machine's delivery to be loaded with finished product.



### **FLEX RACK**

Versatile, quick and simple to set up. Remarkable savings for every single order. Suitable for different layouts and optimal support of even very small blanks.



### **SAMPLING DEVICE**

This ingenious device, delivers an automated sample sheet during production, permitting permanent quality control, so ensuring impeccable finished product quality.

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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

[> WATCH VIDEO](#)

## 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.

[> LEARN MORE](#)

## 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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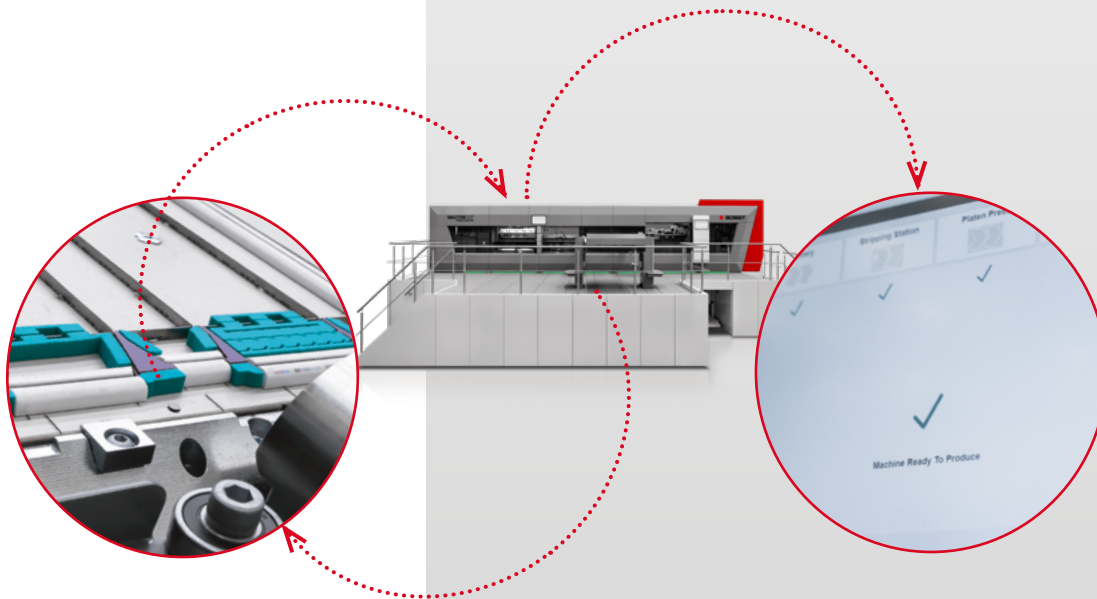
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# Digital technology for smarter converting

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  $\geq$  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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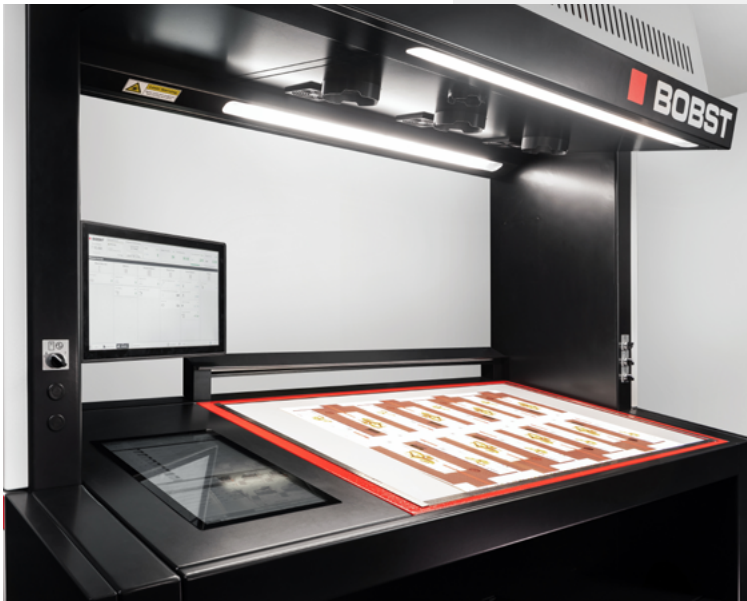
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# Transforming the quality control process



The **Digital Inspection Table Folding Carton 106** enables a fully digital and paperless quality control process with instantly projected digital overlays. Quality processes across printing, cut to print, creasing, patching, hot foil stamping, Braille, embossing and quality reporting are improved. Work smarter and faster, with productivity boosted by a reduction in makeready times and errors.

## Extensive benefits

### Improving profitability and productivity

- Reducing expensive recalls and reruns
- Cutting makeready time
- Data driven and continuous production improvements and quality

### Digital Quality Control

- Fast, accurate, predictable and reliable quality
- Impactful, data-driven insights drive improvements

- Optimize manual processes with digital workflows
- Significant savings, reducing costs and increasing sustainability

## Customer confidence

- Deliver consistent high quality
- A step closer to delivering zero-fault packaging to your customers
- Maximize relationships with new and existing clients

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