

# ON THE HORIZON!

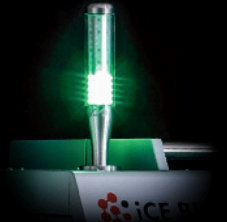
FRIDAY, 2024.08.09

OFFICIAL HORIZON INTERNATIONAL NEWSLETTER

HORIZON SMART FACTORY 2024

## LIGHTS OUT

TAKE AUTOMATION TO THE NEXT LEVEL



### JOIN HORIZON IN AN IMMERSIVE LIGHTS OUT EXPERIENCE

HORIZON SMART FACTORY 2024 WILL PUSH THE BOUNDARIES OF AUTOMATION ACHIEVING COMPLETELY AUTONOMOUS PRINTING, FINISHING, PACKAGING, AND OTHER LOGISTICS WITH CUTTING EDGE TECHNOLOGY LIKE AGV, ROBOTICS, AND AI.

THE MAIN HIGHLIGHT OF HORIZON SMART FACTORY 2024 WILL BE OUR **LIGHTS OUT ZONE**, A FUTURISTIC VIEW OF A FULLY AUTOMATED FACTORY OPERATING IN THE DARK. WITNESS TECHNOLOGY THAT WILL DEFINE THE NEXT GENERATION OF THE PRINT AND FINISHING INDUSTRY.

### AT A GLANCE

- **LIGHTS OUT ZONE** [PG. 2](#)
- **LIGHTS OUT ZONE SYSTEMS** [PG. 3-4](#)
- **EVENT INFORMATION** [PG. 4](#)
- **COMING SOON / LINKS** [PG. 5](#)

**DISCLAIMER:** ALL INFORMATION SUBJECT TO CHANGE WITHOUT NOTICE LEADING UP TO THE EVENT.



# LIGHTS OUT ZONE

## CONCEPT & OVERVIEW

ON THE HORIZON!

THE LIGHTS OUT ZONE OFFERS THE OPPORTUNITY TO SEE BOOK AND BOOKLET PRODUCTION THAT'S COMPLETELY AUTOMATED FROM START TO FINISH, INCLUDING PROCESSES LIKE PACKAGING AND TRANSPORTATION.

THIS AREA FEATURES A WIDE RANGE OF SMART FACTORY TECHNOLOGY LIKE WORKFLOW SOFTWARE, ROBOTICS, AGV/AMR, AND INLINE PRESSES SO THAT PRODUCTION CAN EVEN BE CARRIED OUT IN THE DARK.



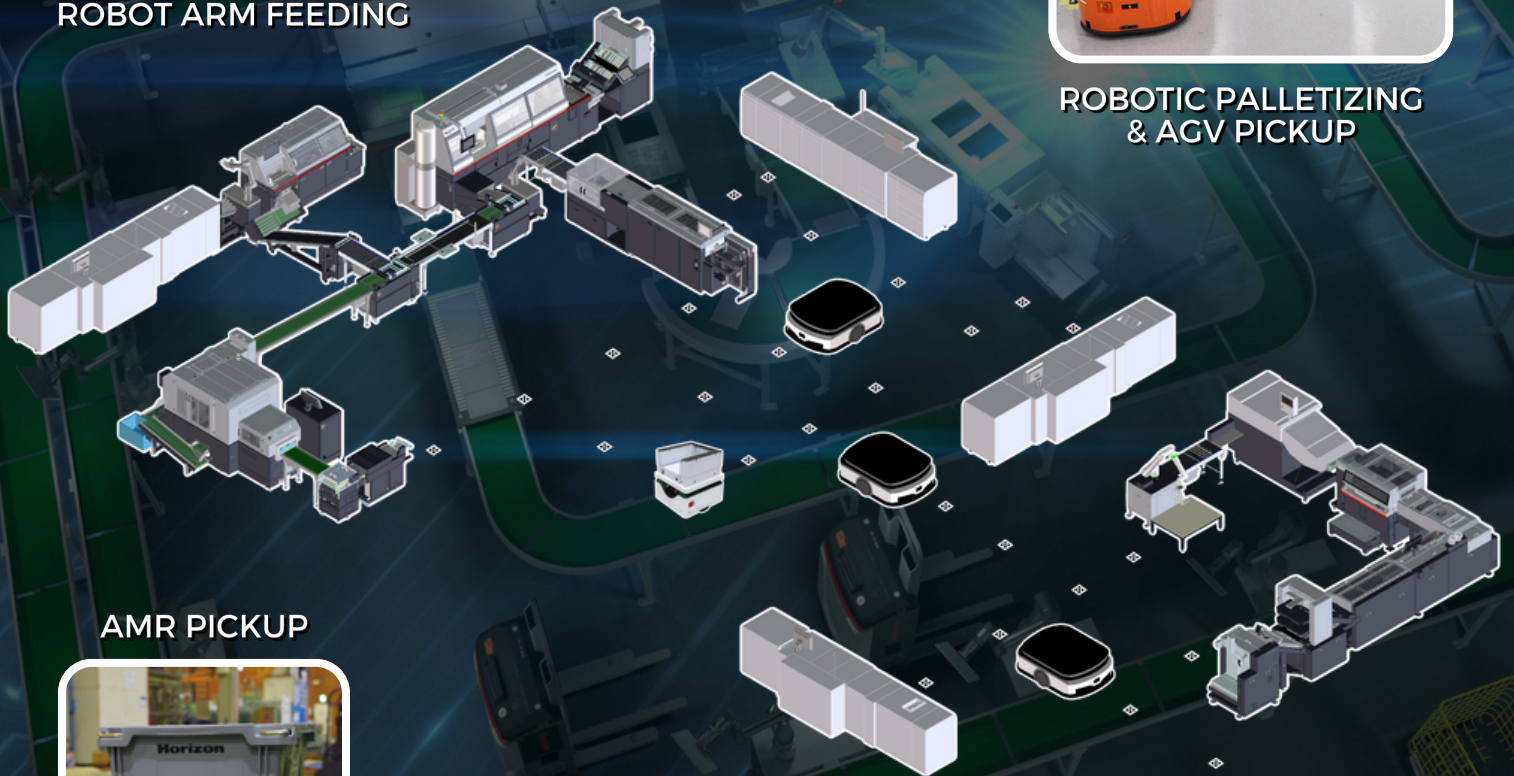
INLINE PRESS TO  
ROBOT ARM FEEDING



ROBOT ARM FEEDING



ROBOTIC PALLETIZING  
& AGV PICKUP



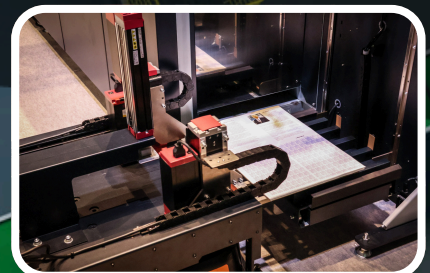
AMR PICKUP



SHEET PICKUP  
FROM PRESS



SHEET LOADING ON  
FINISHING SYSTEM





# LIGHTS OUT ZONE

## SYSTEMS

ON THE HORIZON!

### INLINE PRESS ROBOT ARM PERFECT BINDING SYSTEM

BOOK BLOCKS ARE PRINTED PAGE-BY-PAGE AND ACCUMULATED IN A JOGGING STATION. COMPLETE BOOK BLOCKS ARE FED INTO OUR BRAND NEW BQ-300 SINGLE CLAMP PERFECT BINDER BY A ROBOTIC ARM FOR BINDING AND THEN SENT TO THE TRAFFIC CONTROL CONVEYOR.

### DUAL-BINDER POD LINE

### AGV CONNECTED PERFECT BINDING SYSTEM

SHEETS ARE PRINTED NEARLINE AND THEN TRANSPORTED DIRECTLY TO OUR SMARTSLITTER WITH AN AGV WHERE THEY ARE PROCESSED INTO BOOK BLOCKS. NEXT A ROBOT ARM TAKES EACH BOOK BLOCK AND SCANS, CALIPERS, AND FEEDS THEM INTO THE BQ-500 4 CLAMP PERFECT BINDER. THIS BQ-500 FEATURES A MULTI-BIN COVER SHEET FEEDER THAT FEEDS COVERS DEPENDING ON THE SCANNED BOOK-BLOCK BARCODE. AFTER PERFECT BINDING, BOOKS ARE TRANSPORTED DOWNSTREAM TO THE TRAFFIC CONTROL CONVEYOR.

### COMBINED TRIMMING AND PACKAGING

THE TRAFFIC CONTROL CONVEYOR INTAKES BOOKS FROM BOTH SYSTEMS AND SENDS THEM TO THE HT-1000V THREE KNIFE TRIMMER FOR FINAL TRIMMING. FINISHED BOOKS ARE PACKAGED AND SORTED USING A BARCODE READING SYSTEM, THEN TRANSPORTED TO SHIPPING WITH AN AMR. (PACKAGING SYSTEM NOT SHOWN IN GRAPHIC)

### AGV CONNECTED SADDLE STITCHER

SHEETS ARE PRINTED NEARLINE BEFORE BEING BROUGHT BY AGV TO THE BRAND NEW SHEET FEEDER HSF-50 CONNECTED TO OUR ICE STITCHLINER MARK V. THEY ARE THEN FED INTO THE MARK V AT UP TO 45,000 SHEETS\HR, STITCHED, AND TRIMMED. FINISHED BOOKLETS ARE AUTOMATICALLY STACKED, BANDED, AND PALLETIZED BY A ROBOTIC ARM. FINALLY, PALLETIZED BOOKLETS ARE PICKED UP BY AGV AND TRANSPORTED TO SHIPPING.



# LIGHTS OUT ZONE

## SYSTEMS CONT.

ON THE HORIZON!



### ROBOT ARM BOOK PRODUCTION SYSTEM

PRINTED SHEETS ARE FED AND ACCUMULATED INTO BOOK BLOCKS ON A JOGGING STATION WITH OUR HOF-400 SHEET FEEDER. COMPLETE BOOK BLOCKS ARE AUTOMATICALLY FED INTO A BQ-300 SINGLE CLAMP PERFECT BINDER WITH A ROBOT ARM AND THEN TRIMMED INLINE WITH A HT-300 THREE WAY TRIMMER FOR ONE-PASS BOOK PRODUCTION.

### PRINTER INLINE WITH PERFECT BINDING SYSTEM

THIS WEB-FED SYSTEM MAKES SMALL BATCH AND VARIABLE BOOK PRODUCTION POSSIBLE WITH INLINE PRINTING AND FINISHING. A HIGH QUALITY TRACKING SYSTEM ENSURES THAT EACH BOOK, DESPITE VARYING THICKNESSES AND FORMATS, HAS NO PRINT QUALITY MISTAKES AND IS FINISHED CORRECTLY. THE HSF 2024 SYSTEM WILL INCLUDE A LBF-500 LOOSE SHEET BOOK BLOCK FEEDER IN PLACE OF THE BBF-480 PICTURED BELOW.



## HORIZON SMART FACTORY 2024 INFO

- **DATE:** OCTOBER 2-4, 2024
- **LOCATION:** HORIZON INNOVATION PARK  
1600 ASAHI, SHINASAH-CHO, TAKASHIMA, SHIGA, JAPAN
- **ORGANIZER:** HORIZON GROUP
- **PARTNERS**
  - CANON MARKETING JAPAN INC.
  - DAC ENGINEERING CO., LTD.
  - FUJIFILM BUSINESS INNOVATION CORP.
  - HUNKELER
  - JSPIRITS INC.
  - KONICA MINOLTA JAPAN INC.
  - ONEVISION SOFTWARE AG
  - RICOH COMPANY LTD.
  - RISO KAGAKU CORPORATION
  - RYOBI MHI GRAPHIC TECHNOLOGY LTD.
  - SCREEN GRAPHIC SOLUTIONS CO., LTD.
  - SPENCERMETRICS
  - TECNAU
  - TESSITURA GMBH
  - ULTIMATE TECH INC.
- **IN COOPERATION WITH:**  
VALUE MACHINE INTERNATIONAL CO, LTD.



# COMING SOON

ON THE HORIZON!

- SYSTEM HIGHLIGHTS
- PARTNER COLLABORATIONS
- HORIZON FACTORY TOURS
- OTHER HSF 2024 HIGHLIGHTS
- HSF 2024 PODCAST

## MORE FROM HORIZON



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PODCAST

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