

ON THE HORIZON!

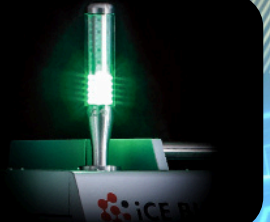
FRIDAY, 2024.09.06

OFFICIAL HORIZON INTERNATIONAL NEWSLETTER

HORIZON SMART FACTORY 2024

LIGHTS OUT

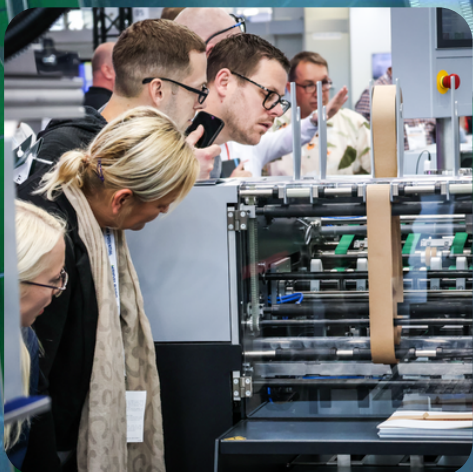
TAKE AUTOMATION TO THE NEXT LEVEL



AUTOMATION FOR EVERYONE

At HSF 2024 we're breaking down the concept of Smart Factory and covering everything from the basics to "lights out" production. Whether exploring automation, optimizing a specific system, or developing a full smart factory, we want to make all the tools and knowledge accessible.

Additionally, at HSF 2024 we'll offer factory tours, AGV workshops, traditional Japanese cultural experiences, and delicious food & drinks. There is a lot to look forward to detailed in the newsletter. Wherever you are on your Smart Factory journey, we're right there with you.



AT A GLANCE

- HSF OVERVIEW [PG. 2-3](#)
- SYSTEM LINEUP [PG. 4-6](#)
- DAILY SCHEDULE, EVENT INFO, SOCIAL MEDIA [PG. 7](#)

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



LISTEN!
HSF 2024
PODCAST

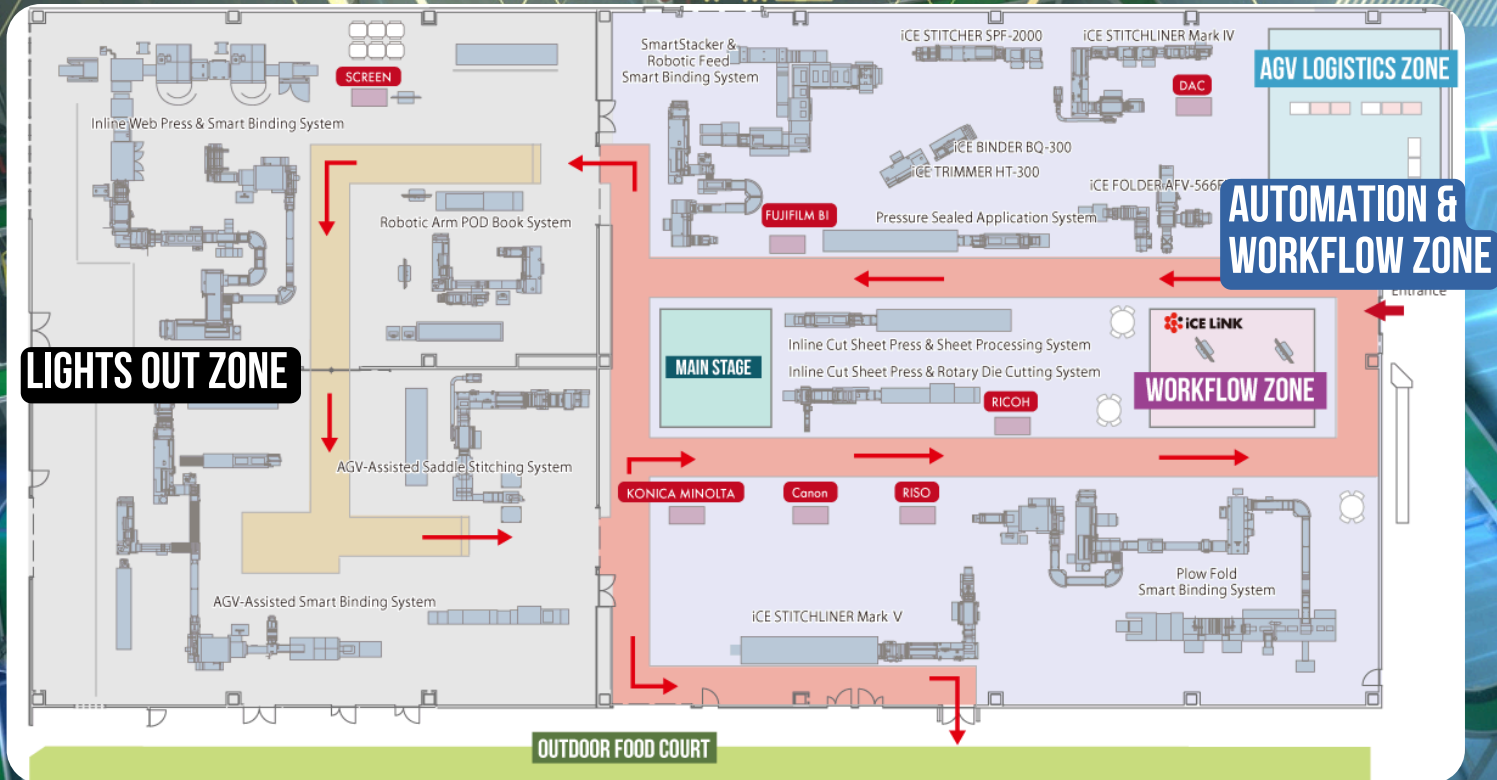
HSF OVERVIEW

MAP • ZONES • ACTIVITIES 1

ON THE HORIZON!

WHAT TO EXPECT:

OVER **20** SYSTEMS AND **2,000** M² (21,500 FT²) OF EXHIBITION SPACE



LIGHTS OUT ZONE

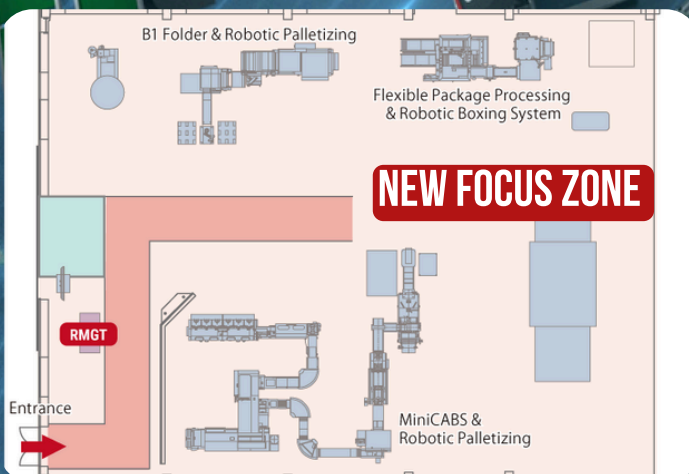
HORIZON INNOVATION PARK

The highlight of HSF 2024, the **Lights Out Zone**, features end-to-end systems integrated with various robotics and workflow technology that make it possible to operate autonomously without human interaction and in the dark! Learn about the systems and how they work with the lights on, then see them in action with the lights off.

AUTOMATION & WORKFLOW

HORIZON INNOVATION PARK

The largest HSF 2024 exhibition hall will be in the Horizon showroom. In addition to both standalone and inline systems, the **Automation and Workflow Zone** will feature an **AGV Logistics Zone** and **Workflow Zone** to help visitors understand the entire smart factory process. A wide variety of printer vendors, workflow partners, and our own Technical Service team, will be present to explain their part in the smart factory process.



NEW FOCUS ZONE

HORIZON ACADEMY

Not everything is digital. This zone is dedicated to show how smart factory technology can be utilized to automate offset printing workflows. Whether you are ready to jump head-first into smart factory automation, or just test the waters, the systems and technology here are for printers utilizing offset presses. Additionally, visitors can see Horizon's first ever flexible package processing machine.

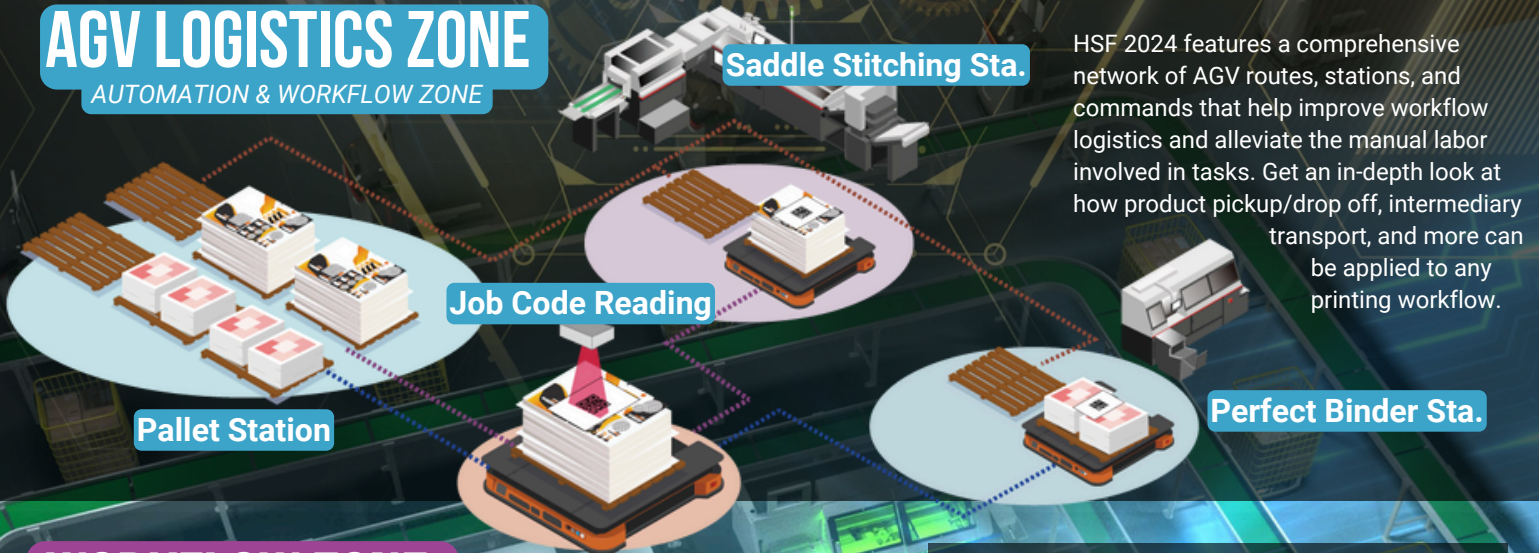
HSF OVERVIEW

MAP • ZONES • ACTIVITIES 2

ON THE HORIZON!

AGV LOGISTICS ZONE

AUTOMATION & WORKFLOW ZONE



HSF 2024 features a comprehensive network of AGV routes, stations, and commands that help improve workflow logistics and alleviate the manual labor involved in tasks. Get an in-depth look at how product pickup/drop off, intermediary transport, and more can be applied to any printing workflow.

WORKFLOW ZONE

AUTOMATION & WORKFLOW ZONE

The seamless integration of our iCE LiNK Post-Press Management System with other partners' workflow software is crucial to achieve end-to-end automation and visualization. Visit the Workflow Zone to talk with Horizon staff and partners about the workflow for HSF 2024 and what is possible in your own smart factory.



Software Partners

JSPIRITS • OneVision • SpencerMetrics • Tessitura • Ultimate Tech

FACTORY TOURS



We pride ourselves in being a leader in factory automation because of the experience and knowledge we have gained in our own smart factory transformation. Don't miss this opportunity to go behind the scenes and experience our smart factory in person.

Japanese Tea Ceremony

No trip to Japan is complete without experiencing a traditional tea ceremony. A professional will guide visitors through tea etiquette, preparation, and tasting. We invite you to experience an important part of our culture dating back to the year 815.



ICE LINCREAM MAKES A COMEBACK!

Don't miss out on a drupa 2024 booth favorite: **iCE LiNCREAM!**

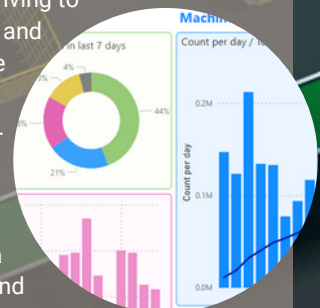
Additionally, along with refreshments throughout the day, we will have a food court outside for you to sit back, relax, and enjoy a bite to eat. Food trucks will offer a variety of dishes including rice bowls, takoyaki balls, hamburgers, hotdogs, pizza, and more!



TECHNICAL SERVICE TEAM BOOTH

AUTOMATION & WORKFLOW ZONE

Learn how Horizon is striving to provide the best service and training directly from the Horizon International Technical Service Team. Visitors can also see how iCE LiNK is being utilized to enhance user experience through data collection, monitoring, and analysis.



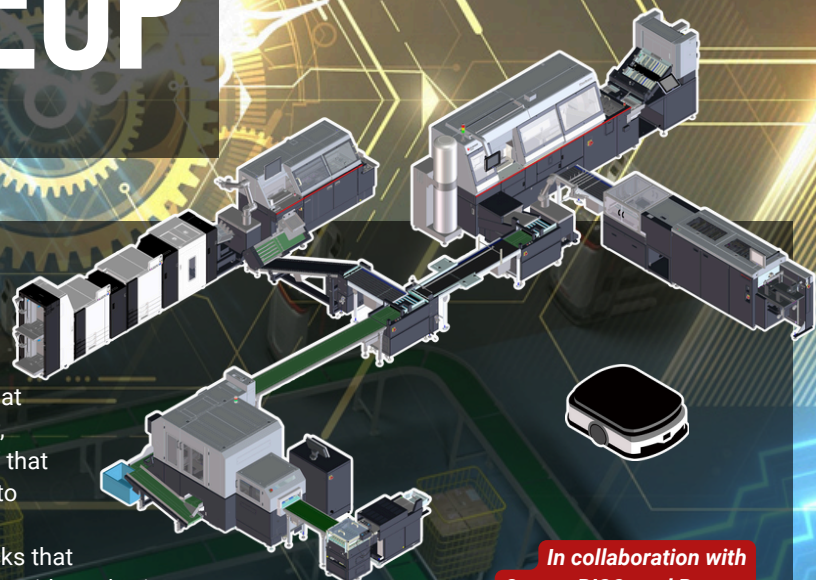
SYSTEM LINEUP

LIGHTS OUT ZONE

ON THE HORIZON!

AGV-ASSISTED SMART BINDING SYSTEM

This POD book production line features two perfect binders that feed into a single three-knife trimmer (HT-1000V). One binder, the BQ-500 four-clamp perfect binder, is assisted with an AGV that transports printed sheets from a nearby Canon press directly to a book block processor and robot arm feeder, while the other binder begins with an inline RISO press that creates book blocks that are fed one-by-one into our BQ-300 single-clamp perfect binder with a robotic arm.

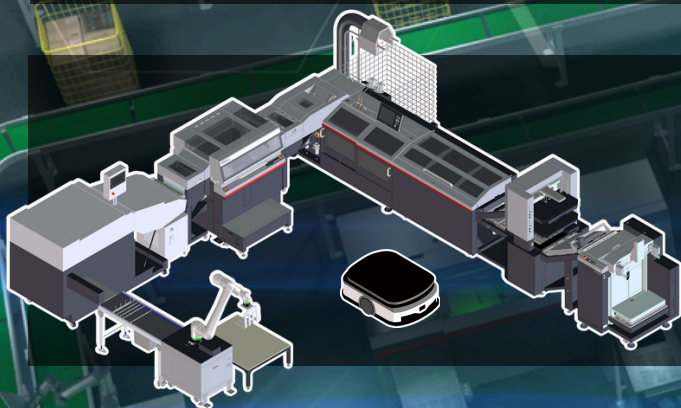


*In collaboration with
Canon, RISO, and Rengo.*

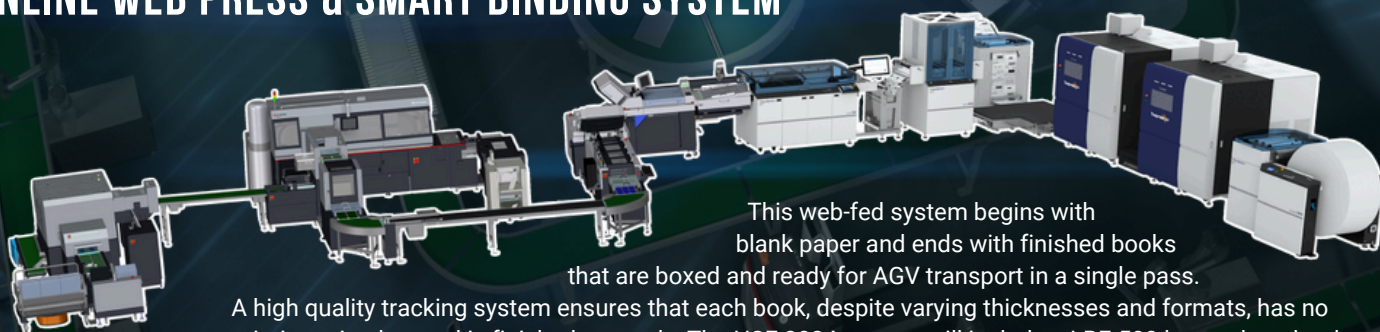
AGV-ASSISTED SADDLE STITCHING SYSTEM

This system integrates our latest saddle stitching system, the iCE STITCHLINER Mark V, with two nearby sheet presses (Canon and Konica Minolta) via AGV for completely autonomous booklet production. Finished booklets are stacked and bound inline, the offloaded onto a pallet with a robot arm for easy AGV pickup.

In collaboration with Canon, Konica Minolta, and Palamides.



INLINE WEB PRESS & SMART BINDING SYSTEM



A high quality tracking system ensures that each book, despite varying thicknesses and formats, has no printing 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.

In collaboration with SCREEN and Hunkeler.

ROBOTIC ARM POD BOOK SYSTEM

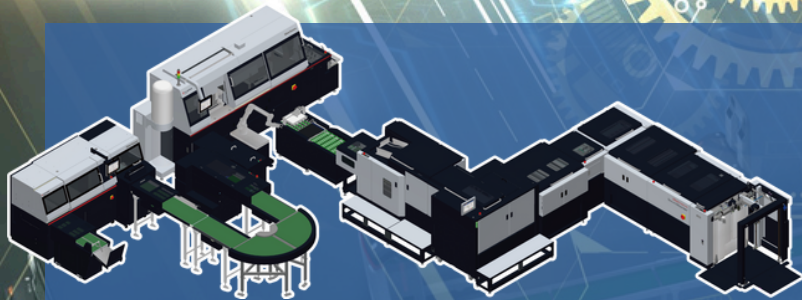
Printed sheets are fed and accumulated into book blocks on a jogging station with our HOF-400 sheet feeder. Book blocks are automatically fed into a BQ-300 single clamp perfect binder with a robot arm and then trimmed inline with a HT-300 three way trimmer for one-pass book production.



SYSTEM LINEUP

AUTOMATION & WORKFLOW

ON THE HORIZON!



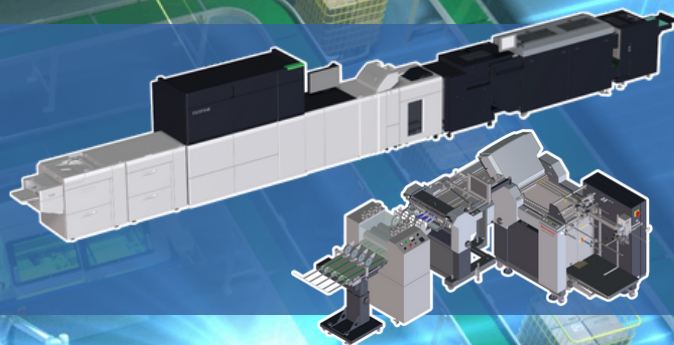
SMARTSTACKER & ROBOTIC FEED SMART BINDING SYSTEM

Go from printed B2 sheets to finished photobooks in a single pass with this smart binding system that features our SmartStacker B2 sheet processor and robot arm for automated book block feeding.

PRESSURE SEALED APPLICATION SYSTEM

This system combines FUJIFILM BI's adhesive ink technology, a third party pressure sealer, and Horizon's finishing solutions to streamline the production of sealed applications such as direct mail or other transactional mailing.

In collaboration with FUJIFILM BI and HAMAMATSU.



ICE STITCHLINER MARK IV

Our latest sheet-fed saddle stitching system, the ICE STITCHLINER Mark IV, is integrated with DAC Engineering's sensor technology to help improve productivity and operator training. Produce a wide range of booklet applications at up to 6,000 cycles/hr.

In collaboration with DAC.

STANDALONE SYSTEMS

See a variety of stand alone systems that represent 4 finishing processes: trimming, binding, folding, and stitching. Also featured in this section are our brand new solutions, the iCE BINDER BQ-300 and iCE STITCHER SPF-2000, the latest models and technologies in our binding and stitching lines.

- iCE BINDER BQ-300
- iCE STITCHER SPF-2000
- iCE TRIMMER HT-300
- iCE FOLDER AFV-566FKT
- Tabletop Machines



INLINE CUT SHEET PRESS & SHEET PROCESSING SYSTEM

This end-to-end system features a FUJIFILM cut sheet press integrated inline with our SmartSlitter sheet processing solution to create applications like tickets and cards in a single pass.

In collaboration with FUJIFILM BI.

SYSTEM LINEUP

AUTOMATION & WORKFLOW

ON THE HORIZON!

INLINE CUT SHEET PRESS & ROTARY DIE CUTTING SYSTEM

This POD card making system creates finished stacks of card applications in a single pass with no operator touchpoints for maximum efficiency and labor savings.

In collaboration with RICOH.

PLOW FOLD SMART BINDING SYSTEM

This roll-to-book system features the new plow fold technology of our BBS-56 continuous feed book block system integrated inline with a smart binding system. The HSF 2024 configuration includes an optional ESF-1000 end-sheet tipper and GF-500 gauze applicator for case bind book block production.

ICE STITCHLINER MARK V

For the first time ever, TECNAU web processing technology is integrated inline with Horizon's ICE STITCHLINER Mark V for continuous feed booklet production of up to 6,000 cycles per hour.

In collaboration with TECNAU.

NEW FOCUS ZONE

B1 FOLDER & ROBOTIC PALLETIZING

This sheet-to-signature solution features a robotic arm to automatically palletize stacked signatures and an AMR forklift to transport pallets to the MiniCABS.

MINICABS & ROBOTIC PALLETIZING

Inline book production system for short- to medium-run jobs in offset printing workflows. The HSF 2024 configuration features inline book packaging, package printing, and robotic palletizing for easy transport to shipping.

In collaboration with RMGT and RISO.

FLEXIBLE PACKAGE PROCESSING & ROBOTIC BOXING SYSTEM

This system is Horizon's first step into the flexible packaging industry. Essentially, it takes pouches and other styles of flexible packaging that have been printed on, and stacks and bands them into single stacks for easy handling. The HSF 2024 configuration includes an inline box delivery station that takes banded package stacks and boxes them with a robotic arm for easy shipping.

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.

TENTATIVE DAILY SCHEDULE

9:30 am	Arrive at Horizon (Bus)
10:00 am	Lights Out Zone, smart factory workshops, and system presentations
1:00 pm	Lunch & free time: system demos, factory tours, japanese tea ceremonies, and more!
5:20 pm	Depart Horizon (Bus)

HSF 2024 has been organized to include both group and individual time with a mixture of presentations, demonstrations, and activities.

In place of a traditional trade show style event, our daily structure is designed to give you a personalized and productive experience.



SUBJECT TO CHANGE

MORE FROM HORIZON

Follow us!



WEBSITE



LINKEDIN



YOUTUBE



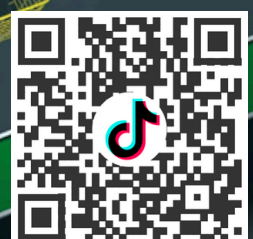
FACEBOOK



INSTAGRAM



PODCAST



DOUYIN (CHN)