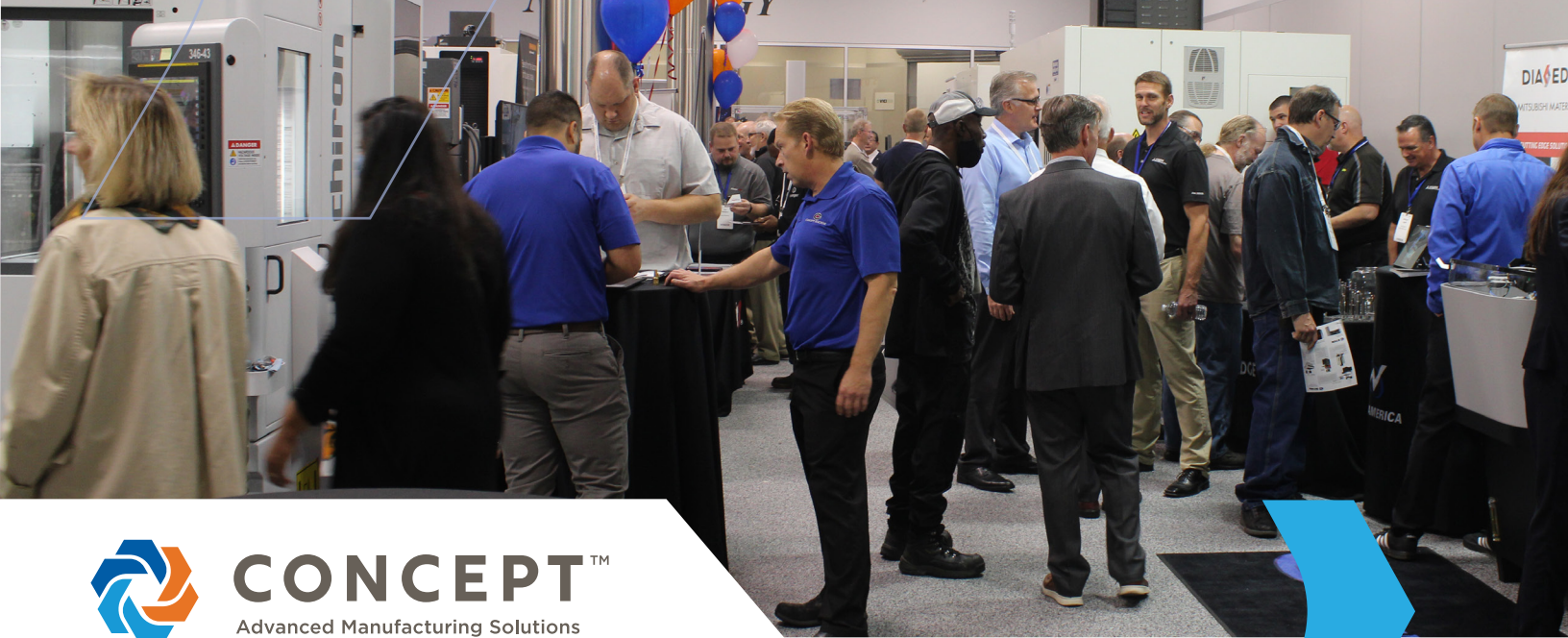


SteakFest 2023 Open House

September 19-21 in Plymouth, Minnesota

Machine tool and metrology technology, over 40 machines with demos, automation, tooling partners, and inspection services. 8:30am - 6:00pm each day!



CONCEPT™
Advanced Manufacturing Solutions

 **KITAMURA**

 **INDEX**

 **star**
CNC Machine Tool Corp.

 **SMEC**
SMEC CO., LTD.

 **MILLTRONICS USA**
LET'S INVENT

 **FUJI**

 **CHIRON Group**

 **TAKAMAZ**

 **UNITED GRINDING**

 **Mitsui High-tec Inc.**

 **Roboze**

 **metrios**

 **ZEISS**

 **Starrett**

 **VICIVISION**

 **MICRO-VU**

 **FARSON TECHNOLOGIES**

 **Photocentric**

In conjunction with the open house, Concept is offering the following educational seminars:

Tuesday 09.19.23

9:30AM - 10:30AM

Automation - What are my options?

11:00AM - 12:00PM

Mastering 5-axis with OpenMind/hyperMILL

1:00PM - 1:30PM

Concept's Machine Tool Service Capabilities

2:00PM - 3:00PM

ZEISS Automation & Machine Tool Compensation

3:15PM - 4:00PM

Benefits of Machine Calibration

Wednesday 09.20.23

9:30AM - 10:30AM

Unlimited Materials in Additive Mfg.

11:00AM - 12:00PM

Why every shop should have a Swiss Lathe

1:00PM - 1:30PM

CEO Corner - how Concept is investing to serve you better

2:00PM - 3:00PM

Automation - What are my options?

3:30PM - 4:00PM

Concept's Metrology Service Capabilities

Thursday 09.21.23

9:30AM - 10:30PM

Industry 4.0, Quality 4.0 and Measurement Systems

11:00AM - 12:00PM

Mastering 5-axis with MASTERCAM

1:00PM - 2:00PM

Solving Common Cylindrical Grinding Errors

2:30PM - 3:00PM

Overview of Additive Manufacturing Applications

Register at conceptmachine.com/events/

Machines on display w/demos & automation!



Kitamura MedCenter5AX w/new pallet loading system

- Fully integrated 5th axis
- High speed 30,000 RPM 25HP integral spindle
- 40 tool standard ATC w/optional 120T
- Ultra-compact footprint
- Opt. 24 pallet system



Kitamura Mycenter 4XV

- Vertical machining center - 40" x 20" travel
- Powerful, 41HP 15,000 RPM integral motor spindle (40 taper)
- 40 tool ATC w/rear loading station
- Outstanding accuracy and thermal stability, standard 8 sensor thermal compensation
- 6,000 RPM tapping speed!
- Mytrunnon-4G (bridge-style full 5-axis)



Kitamura HX300iG

- Horizontal machining center with 300mm or 400mm pallets.
- Compact footprint
- Pallet automation options available
- 15K, 20K or 30K RPM options
- Expansive 19.7" D x 29.3 H work envelope

Also displaying:

- 2XV Sparkchanger w/automation



- HX250iG (250mm HMC)



INDEX



Star SX-38 type B

- Swiss-type lathe w/38mm capacity
- 3 path FANUC control
- 10-station turret, capable of 2 tools per station
- Full independent B-axis milling



Star SR-32JIII type B

- Swiss-type lathe w/32mm capacity
- Increased number of tools with up to 39 positions available
- Main spindle speed 8,000 RPM
- 8 station sub-spindle platen with Y-axis for maximum overlapping



INDEX C200 w/bar feeder

- Ultra-fast production turning machine with triple turrets
- Spindle speed: 6,000 RPM
- Bar capacity: 65/90mm
- 550mm turning length

Also displaying:

- Star SL-10



- Star SR-20 type RG



TAKAMAZ



Takamaz XC-100 w/bin picking

- Twin spindle 6" chuck lathe
- Ultra high speed loading and unloading
- Shown with random bin picking capability

Also displaying an XY-120 Plus

Twin-spindle, twin turret



SMEC
SMEC CO.,LTD.



HALTER

SMEC SL2500BSY w/Halter

- 10" chuck lathe (3" bar capacity)
- Heavy duty box way construction
- 12 station BMT turret (24 position)
- Displayed with Halter Universal robot loader



SMEC PCV-430

- Vertical machining center with X 27.6", Y 16.9", Z 20.1" travels
- Spindle: 10,000 RPM direct drive
- CAT40 (Big Plus)
- 24 tool ATC
- FANUC control

Showcasing grinding solutions by UNITED GRINDING, Mitsui and Chevalier:



Cylindrical grinding and tool grinding



MILLTRONICS USA
LET'S INVENT



Milltronics VM4020

- Vertical machining center with X 40", Y 20", Z 20" travels
- Highly-intuitive Conversational Control

Also displaying an ML-1640 Toolroom Lathe



CHIRON Group



Chiron DZ12S w/automation

- Dual spindle, 5-Axis VMC
- Factory integrated robot loading
- Spindle speed: 24,000 RPM
- Highest precision and process quality
- Linear scales in all axes
- 75 m/min rapids!

FUJI



Fuji ANW-300III

- Twin spindle, twin turret lathe
- Chuck size: 8-10"
- Integrated overhead gantry loader
- Vertical bed design for optimal chip flow

Metrology and Additive on display w/demos!



Starrett HDV400

- 16" x 6" of stage travel
- 5MP digital video camera with quick change telecentric lenses
- 64-bit PC and Touchscreen with MetLogix M3 software
- VED allows real-time interaction



VICI VISION MTL X5

MTL X5 is an optical measuring machine specifically designed to measure micro-mechanical parts.



metriOS HD Cross

Optical measuring for micro-components.



MICRO-VU Excel 512

- Accommodates large parts and fixtures of multiple parts
- Measures parts up to 2.5 meters long
- High resolution camera
- Programmable optical and digital zoom

ZEISS



ZEISS Contura

CMM for measuring complex features and parts.



ZEISS O-inspect 543

Premium sensors for leading edge optical and contact performance.



ZEISS Atos Q

Industrial 3D scanner.



ZEISS T-Scan Hawk 2

3D laser scanner.



ZEISS Stemi 308/508

Stereo microscope with 8:1 zoom.

3D Printing



Farsoon ST252P

Metal Laser Sintering



Roboze Argo 350

For Polymers



Photocentric Magna

LCD Printer



Nexa QLS230

SLS 3D Printer

Many more machines will be on display!

conceptmachine.com