



AUTOMATED CELLS & EQUIPMENT, INC.

2010 Open House and Technology Expo

*“Well-conceived and engineered
automation solutions delivered on time
and supported with world-class service”*



Dear Customer,

Automated Cells & Equipment, Inc. proudly welcomes you to our 2010 Open House and Technology Expo. This event promises to provide both informational and entertainment value for our guests.



Throughout the day we will be hosting informative technology seminars presented by our industry-leading experts from both FANUC Robotics and ACE.

Our demonstration cells have been organized to allow you to tour our facility and explore various application opportunities for automation. A layout of the floor can be found on the adjacent page of this program. You will also find further information on each cell to help guide you through our displays.

Please take your time touring our facility and feel free to ask any questions regarding the exciting technologies being presented. We will be pleased to discuss your particular interests and provide a more in-depth evaluation of your potential applications. We appreciate you taking the time to visit us and hope you enjoy the expo!

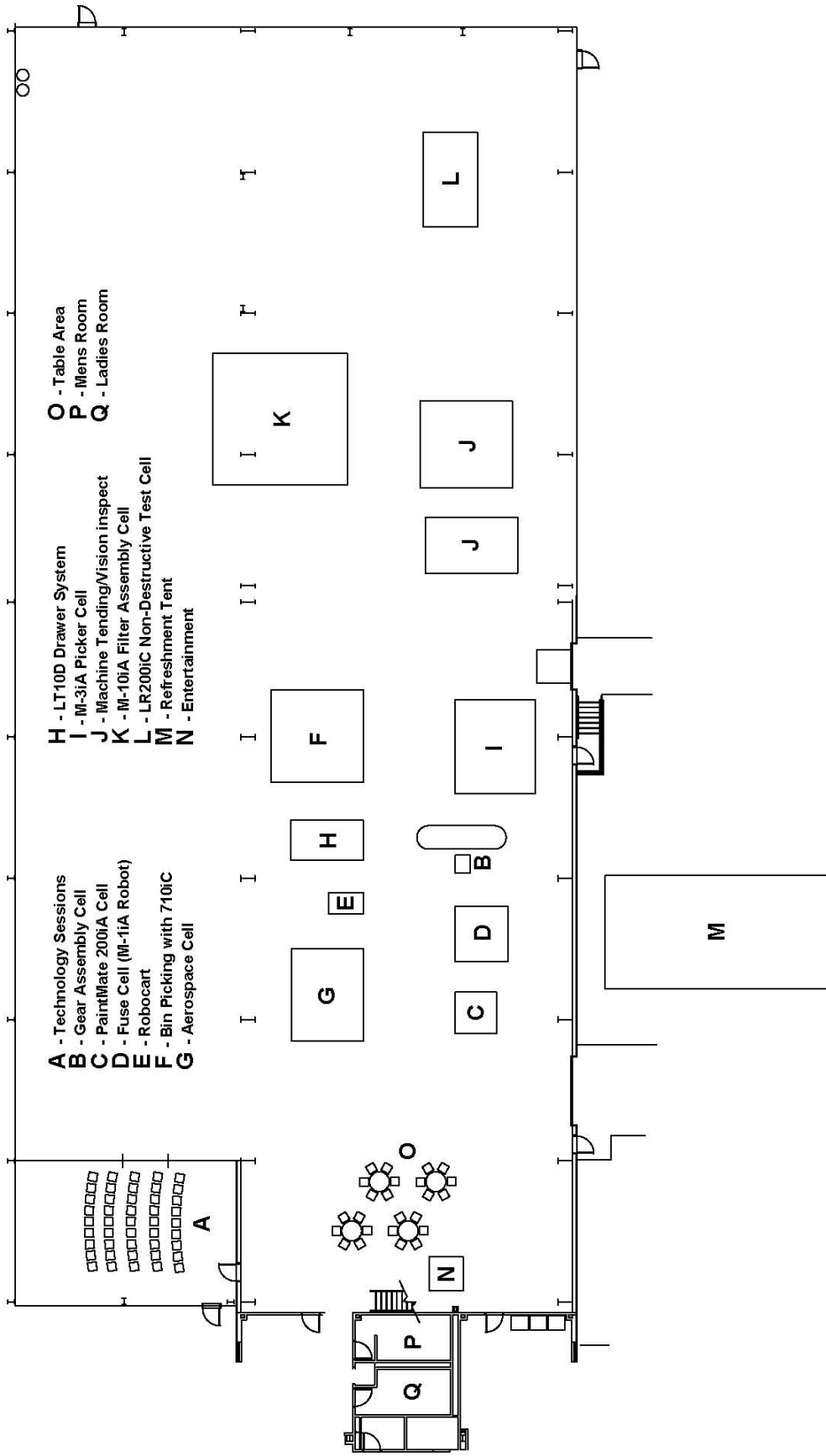
Thanks for attending,

Jim Morris

If you have any additional questions,
please don't hesitate to contact us here at ACE:

Jim Morris, President jmorris@autocells.com
Jerry North, Sales Engineer jnorth@autocells.com
Charlie Claes, Applications Engineer cclaes@autocells.com
Greg Tenbus, Engineering Manager gtenbus@autocells.com
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***Automated Cells & Equipment, Inc.
Open House and Technology Expo
October 6-7, 2010
3435 Enterprise Dr., Painted Post NY, 14870***



ACE AUTOMATED CELLS & EQUIPMENT
 3435 Enterprise Drive
 Painted Post, New York 14870-6079 936-1341

2010 Open House/Robotic Show Case



A. Informational Seminars

9:00 am	Save Your Factory
10:00 am	FANUC iRVision
11:00 am	Robotic Packing and Palletizing
11:30 am	Lunch
12:00 pm	Automation in MIM & Powder Metal
1:00 pm	Keeping Your Robots Fit For Life
2:00 pm	The Automation of Painting
3:00 pm	Machine Tool Trends
4:00 pm	High-Speed Picking with Robots
5:00 pm	Dinner

See Pages 9-10 for details about each seminar

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B. M-1*i*A Gear Assembly Cell

- Cell includes (1) M-1*i*A robot, force sensor and mechanical gripper
- The robot picks a gear from an adjacent table and is able to assemble it with another gear using FANUC's force sensing technology
- Force sensing technology makes small part assembly possible



Gear Assembly Cell (M-1*i*A Robot)

C. FANUC PaintMate 200*i*A



- Inverted PaintMate 200*i*A
- Simulates small-part painting on a moving chain on edge conveyor
- Meets the automation needs of a variety of industries including alternative energy, aerospace, automotive component, appliance, agricultural equipment, consumer goods, plastics, etc.
- Intelligent mini-paint robot is designed to paint small parts and provides a cost-effective alternative to applications requiring multiple fixed paint guns

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Fuse Cell (M-1 iA Robot)

D. Fuse Cell (M-1iA Robot)

- Four-axis M-1 iA robot
- Has iRVision 2D
- Locates and picks electrical fuses from a parts feeder
- Packs them into a multi-part blister pack at very high speeds

E. Robocart

- Parts are manually placed in drawer on customer-provided fixtures
- Robot opens drawer, picks the part and simulates a machine load/unload
- iRVision available to accommodate random/non-fixtured parts



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M-710iC Robot

F. Bin Picking with M-710iC

- M-710iC/50 robot
- Has *RVision*/3DL laser vision sensor
- Locates and picks randomly piled gear blanks from a storage container
- Correct grip position verified by vision
- Transfers the part to a second container
- *RVision* Error Proofing with high-speed, continuous motion detects defective parts

G. Aerospace Cell

- R-2000B/165F robot
- Simulates drilling an aerospace panel
- Moves to a tool change stand to exchange the drill end-of-arm-tool (EOAT) with a force sensor deburr EOAT
- Moves to an image-to-path station where an *RVision* camera takes a picture of the part to generate the robot's path
- Robot then simulates deburring the perimeter of the part and the strength of the force sensor is displayed on a monitor



R-2000iB Robot

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H. LT110D Drawer System

- Parts are manually placed in drawer on customer-provided fixtures
- Robot opens drawer, picks the part and simulates a machine load/unload
- *i*RVision available to accommodate random/non-fixtured parts

I. M-3*i*A Picker Cell

- Four-axis M-3*i*A/6S robot
- Equipped with *i*RVision visual line tracking
- Picks randomly-located plastic parts from an infeed conveyor at high speeds
- Places them uniformly on an outfeed conveyor



M-3*i*A Robot

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J. Machine Tending with Vision

Inspection Using M-10iA

K. M-10iA Filter Assembly Cell

L. LR200iC Non-Destructive

Test Inspection Cell

M. Refreshment Tent

8:30 am—9:30 am	Coffee Hour
10:00 am—7:00 pm	Drinks and Snacks
11:30 am—1:30 pm	Lunch
5:00 pm—7:00 pm	Dinner

N. Entertainment

Music provided by:
Colleen Donovan
Mikayla Gordon
Nors Hexum
Annabelle Fears

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Morning Seminars

Save Your Factory- Dick Johnson, FANUC Robotics Inc.
Senior Account Manager, Distribution Network

“Automation can greatly increase productivity when properly run and applied.” Dick will discuss exactly what qualifies as “properly applied.” This seminar will provide some tips on how to increase productivity in your factory to an extent that will revive any factory.

FANUC iRVision- Ed Roney, FANUC Robotics Inc.
National Account Manager, Intelligent Robots—Vision

As FANUC’s first Certified Vision Specialist, ACE continues to apply FANUC’s iRVision. Ed will discuss advances in 2D and 3D Technology Enhanced Vision Guided Robotics, including how 3D-based vision-guided robots extend the ability for automated adaptive reaction to variations in part positions. The presentation will include several 3D extraction techniques, and the advantages and shortcomings of each approach.

Robotic Packing and Palletizing- Dick Motley, FANUC Robotics Inc.
Senior Account Manager, Distribution Network

This session will include video examples of successful robotic packing and palletizing systems, along with a review of their features and benefits as compared to other alternatives. The underlying technologies to enable these applications will also be introduced, including technology developed specifically for food manufacturers.

Automation in MIM & Powder Metal Manufacturing- Jerry North,
Automated Cells & Equipment Inc.

Sales Engineer

This past June, Jerry demonstrated ACE’s expertise at the PowderMet 2010 trade show in Florida. The show focused on ways to further increase PM’s quality and yield. Jerry will also discuss the benefits that come with automating powder metal processes and the easy and inexpensive ways it can be done.

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Afternoon Seminars

**Keeping Your Robots Fit For Life- Dave Turner, FANUC Robotics Inc.
District Manager, Northeast**

This seminar will review the importance of keeping your robot fit for life, along with FANUC robot life cycle and how to maximize your return on investment. Specific topics to be covered include routine preventative maintenance, customized PMs based on environmental factors, downtime avoidance techniques such as predictive analysis, and things to consider when reapplying a previously deployed robot.

**The Automation of Painting- Mike Dilday, FANUC Robotics Inc.
Account Manager, Painting and Coating Integrators**

Mike will present several ways in which the painting process can be automated. Mike will also discuss potential benefits for both the company and the consumer from using paint automation. This seminar will include various specific case samples and application videos.

**Machine Tool Trends- Dick Johnson, FANUC Robotics Inc.
Senior Account Manager, Distribution Network**

Dick will discuss several recent machine tool trends and how gaining a better knowledge of them can increase your rank against the competition. Additionally, Dick will review his 'Top 10 reasons to Automate Your Machine Tools.'

**High-Speed Picking with Robots- Dick Motley, FANUC Robotics Inc.
Senior Account Manager, Distribution Network**

Advances in software, robot-based machine vision, and manipulator design have expanded the possibility of robotic high speed product-handling in the food and consumer products industries. Today, many of these processes can easily be accomplished with intelligent robots. These advances will be featured in a series of video application examples, followed by an introduction to the supporting technology.

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