NEW! ARC AND SPOT WELDING: MA1440, MS210 Robots with DX200 controller

Sleeker, stronger, faster. From the company that introduced process specific robots with integrated process equipment for arc and spot welding, comes the latest in robot technology. Compared to the previous MA1400 arc welding robot, the new MA1440 features a higher 6 kg payload, a larger wrist hole and an overall increase in speed, while the new MS210 spot welding robot is 20% faster than the prior ES200D model. The MS210 features a gas spring which greatly reduces the robot’s profile and helps improve overall performance. Its compact design allows higher robot density around a car body or a smaller workcell size for Tier 1 applications. These robots and the new DX200 controller will be on display.

NEW! WELDING EDUCATION: STEM Welding Platform with MH5M Robot

Yaskawa Motoman offers a series of new robotic platforms for educational institutions. These cells utilize MH5 robots in an aluminum enclosure on wheels that can fit through standard classroom doors. The welding platform includes the DXM100 mid-size controller and is designed to operate with 110 volt single phase power. The standard configurations and available options provide a package of leading technologies typically encountered in manufacturing environments, including components provided by the Yaskawa Motoman Education Consortium (YMEC). The workcell will be shown tracing an AWS Certified Robotic Arc Welding (CRAW) personnel qualification coupon.

NEW! KINETIQ TEACHING: ArcWorld C-50 with MA1400 Robot

Features Kinetiq Teaching in an ArcWorld® C-50 workcell with MA1400 robot. Kinetiq Teaching is an innovative new product designed to reduce set up time and the skill level required to task a welding robot. The device includes a force sensor that jogs the robot in the direction the torch is pushed. The system uses a simplified ICON-based teaching environment on the pendant’s color touch screen. With Kinetiq Teaching, job shops can quickly implement the advantages of robotic welding. By hand guiding the robot, attendees can program and weld in approximately 3 minutes.

ARC WELDING: ArcWorld IV-6200SL with MA1400 Robots and Low-Profile Positioner

Features an ArcWorld IV-6200SL welding platform with two MA1400 robots, a new "slim line" RM2-755SL Ferris Wheel positioner, the latest AccuFast laser-based seam finding sensors, integrated welding package, operator interface and a total safety environment. Designed around the principles of increasing workspace density and reducing floor space, this standard workcell showcases its high speed, small footprint, multiple robot control and PC-based HMI. The workcell will trace sample parts showing coordinated motion and two independent tasks on the opposite side.

FLEXIBLE ADAPTIVE WELDING: HP20D Robot with MotoEye LT

An HP20D robot equipped with Servo-Robot’s PowerTrak seam tracking system will track a contoured part in real time. An MH1600/MH500 tilt/rotate positioner will position the part to keep it in the flat position. MotoEye™ LT software will find and dynamically track contoured joints and adapt welding conditions. The robot can vary weave amplitude, travel speed and weld parameters based on joint gap information from the laser camera.

SERVICE AND ENTERTAINMENT: Blackjack with SDA10F Robot

Yaskawa Motoman’s unique, dual-arm SDA10F robot will deal Blackjack with show attendees. Integrated with Cognex 2D vision guidance, the robot – “Dexter Bot” – will deal the cards; attendees will have the opportunity to play several “hands” against Dexter for an opportunity to win a prize. This cell will highlight the dexterity of the SDA10F and the open software architecture of our FS100 controller.