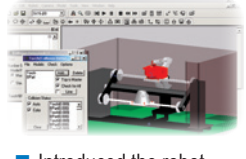


World-Leading Robotic Technology



- Motoman Inc. is formed as a 50/50 joint venture between Hobart Brothers and Yaskawa Electric
- Introduced **MotoMax® III** – the first three-year warranty in the robot industry

- Delivered North America's first autonomous robot solution – **A.R.C.** – utilizing extended reference point and jigless welding software
- Created **LaserWorld®** family of standard, pre-engineered nd:YAG laser cutting solutions



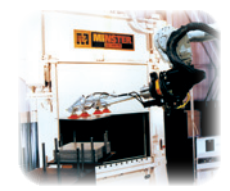
- Introduced the robot industry's first graphical PC-based simulation and off-line programming solution: **ROTSY/MotoSim®**
- Expanded standard, pre-engineered "World" solutions with **FabWorld®, PalletWorld®** and **PlasmaWorld®**
- Introduced capability to program two robots from a single robot controller: **dual robot control**



- Motoman opens Troy, Ohio, production facility to make 120-kg and 150-kg robots and ANSI/RIA-compliant and UL-approved robot controllers
- Expanded standard, pre-engineered "World" solutions with **ArcWorld® II**

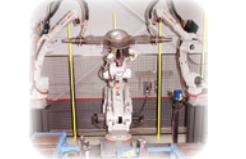


- First robot manufacturer to offer a fully integrated robot calibration solution: **MotoCal®**
- Expanded standard, pre-engineered "World" solutions with **DispenseWorld®**
- Expanded standard, pre-engineered "World" solutions with **ArcWorld® III**



- Expanded standard, pre-engineered "World" solutions with **PressWorld™** and **DieCastWorld®**

- Created capability to program three robots from a single robot controller: **triple robot control**



- Motoman celebrated "10 Years, 10,000 Robots!"



- Created new application-specific robot models with integral process cables: **EA – "Expert Arc" welding** and **ES – "Expert Spot" welding**
- Patented alignment-free headstock/tailstock fixture mounting solution: **MotoMount™**

- Expanded standard, pre-engineered "World" solutions with **ArcWorld® IV**
- Expanded standard, pre-engineered "World" solutions with **ProcessWorld™**



- Created **EPL-series** application-specific "**Expert Palletizing**" robot line with utilities management package

- Introduced revolutionary 13-axis dual-arm **DA20** robot with human-like flexibility of movement

- Created revolutionary 7-axis actuator-driven **IA20** robot with amazing freedom of movement and ability to maneuver in very tight areas



- Introduced world's fastest "Super Speed Arc" **SSA2000** welding robot and "Super Speed Flexible" **SSF2000** handling and general-process robot

- Created compact, fully integrated dual robot platform for clinical specimen processing: **AutoSorter™ III**



- Created PC-based, virtual robot training package: **SES (Simple Education System)**

- Launched new pick, pack and stack robots: **MPK2, MPK50** and **MPL-series**

- Introduced 7-axis **VA** and **VS "Versatile"** arc and spot welding robot series
- Introduced **MA, MH** and **MS "Master"** arc, handling and spot robot series

- Enhanced MotoSim EG with **Virtual Robot Controller**
- Motoman celebrates **20 years**

- Introduced **MyMotoman™**, a remote robot monitoring service



- Motoman Robotics moves to new **305,000 sq ft state-of-the-art headquarters** in Miamisburg, Ohio

- Introduced high-speed, delta-style **MPP3 robot** and compact **FS100 controller** with open software architecture for packaging, cartoning and kitting applications

1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011

- Created **ArcWorld®** family – the robot industry's first standard, pre-engineered arc welding solutions



- Introduced the robot industry's first graphical PC-based expert maintenance software solution: **RobotPro®**
- First robot manufacturer to receive **IACET accreditation** for training programs



- Expanded standard, pre-engineered "World" solutions with **SpotWorld®**
- Patented (**US 5,889,924**) simplified, yet powerful, method of programming and controlling multiple robots and external axes asynchronously and simultaneously
- Created family of 6-axis **cleanroom robots** for disk drive, semi-conductor, and flat panel markets

- Created **MotoUniverse™**, a complete, flexible, automated manufacturing solution (raw stock in and finished part out)
- First robot manufacturer to offer application-specific interface for simulation and off-line programming of palletizing applications – **Visual Pallet®** and **MotoPallet™**

- Expanded standard, pre-engineered "World" solutions with **LoadWorld™** and **PackWorld®**
- Created ultra-compact **WorldLight®** family of solutions for arc welding, dispensing and palletizing



- Expanded standard, pre-engineered "World" solutions with **LoadWorld™** and **PackWorld®**
- Created ultra-compact **WorldLight®** family of solutions for arc welding, dispensing and palletizing

- First robot manufacturer to offer up to 10-year, complete robot support programs: **LIFE**
- Introduced **PX "Painting Expert"** line of coating robots with 3-roll, Lemma, and hollow wrist options



- Patented robotic test-tube inspection and sortation solution: **AutoSorter™**
- Patented (**US 6,377,871**) an integrated die cast robot solution including servo controlled ladle and sprayer



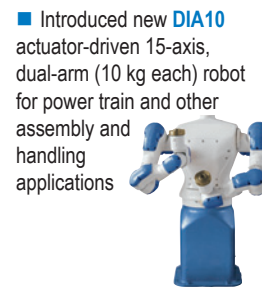
- Introduced industry-leading 7-axis solutions for machine tending and large part processing: **MotoRail™** and **MotoSweep™**
- Created capability to program four robots from a single robot controller: **quad robot control**
- Created **DX1350 "Deburring Expert"** robot



- Expanded standard, pre-engineered "World" solutions with **ArcWorld® V**
- Introduced new 11- and 12-axis **DA9IC** robot for machine tending, assembly, and even beverage serving solutions (**RoboBar®**)
- Motoman celebrated "**One Mission. 15 Satisfying Years.**" with installed base of over 20,000 robots

- Created new **EPH "Expert Press Handling"** robot series with lightweight U-arm and extended life reduction drive
- Created new **EH "Expert Handling"** robot series optimized for higher-duty applications and reduced life cycle cost

- Introduced new **DIA10** actuator-driven 15-axis, dual-arm (10 kg each) robot for power train and other assembly and handling applications



- Introduced next generation **SDA10** and **SIA20** robots featuring slim profiles and dramatic improvements in acceleration
- Launched **EPX "Expert Paint"** robot series
- Introduced **EasyLoad™**, the first robotic teach pendant-resident machine loading system set-up and monitoring wizard
- Introduced **EasyPallet™ Pendant** to quickly and easily create robot palletizing jobs

- Introduced **PerfectEdge™** robotic finishing solution
- Motoman Inc. and Yaskawa Electric America, Inc. combine to form **Yaskawa America, Inc. (Motoman Robotics Division and Drives & Motion Division)**
- Motoman Robotics breaks ground for **new headquarters** facility

