

Press Release

Source: Precise Automation, Inc.

Precise Automation introduces a new collaborative 6-axis articulated robot with integrated controller and harnesses

Fremont, California – January 7, 2015 - Precise Automation introduces the PAVP6, a collaborative 6-axis articulated robot that limits all collision forces. Designed as an intrinsically safe mechanism, it will not injure a user even if it accidentally impacts them at full speed. This eliminates the need for expensive safety barriers and permits the robot to operate safely side-by-side with personnel. Combined with absolute encoder motors, which do not require any motion to home during start-up, these safety features greatly reduce the risk of injuring people or damaging equipment during operation.

This low-cost, quiet OEM mechanism has its motion controller, harnesses and power supplies embedded within its base to eliminate extra controller enclosures and external power and communication harnesses. This space saving design, combined with the collaborative features of the robot, enables the PAVP6 to be quickly deployed in mixed manufacturing environments where people can enter active automated workcells without interruptions to the process. This allows for easy workcell integration into pre-existing manual lines and a more cohesive human/robot assembly process.

All Precise Automation mechanisms feature the powerful embedded Precise Guidance Motion Controller. This controller offers gravity balanced free mode teaching aids and excellent capabilities for automatically generating elegant and reliable motion sequences. Its features permit the mechanism's end effector to move along smooth, straight line paths or arbitrarily complex motion sequences by simply moving the robot by hand to start and end positions and letting the controller handle the rest. Combined with a simple, yet powerful programming language, Ethernet interface (featuring PC control via an open source TCP/IP Command Server), kinematics for Cartesian motions, an embedded web server that permits the robot to be operated locally via a standard browser executed on a PC, a wireless tablet or remotely from anywhere in the world, the PAVP6 simplifies programming and reduces cycle times with the most efficient motions possible. When machine vision is needed, Precise Vision can easily be added to the robot as an option.

Brian Powell, Vice President of Sales and Operations, states, "Unlike most other collaborative robots, which are intrinsically dangerous mechanisms operating in a collaborative mode, the PAVP6 and the other collaborative products produced by Precise are developed from the ground up with the collaborative user in mind. These mechanisms are intrinsically safe in all operation modes and have a number of other features such as the space saving design that make them ideal for both collaborative and traditional automation. We feel that our diverse line of collaborative products make us uniquely qualified to service the needs of a new generation of robot applications and end users."

ABOUT PRECISE AUTOMATION INC.

Precise Automation delivers cutting edge automation technology and leverages years of experience in software, controls, electronic and mechanical design that assists end users and OEM customers to *automate with ease*. Precise's versatile table-top robots and sample handlers come fully assembled and are extremely easy to set up. Our revolutionary line of intrinsically safe collaborative robots (which include SCARA, 6-axis and Cartesian configurations) are designed specifically to meet the needs of a new generation of desktop automation users. Our low-cost vision-guided motion controllers integrate motor drives in a very compact design that fit inside many mechanisms' structures. The controller's powerful features allow OEM's to create the applications they want and to produce user-friendly systems. Adding vision guidance simplifies complex problems in locating and identifying parts and significantly improves process reliability by

easily accommodating to dimensional variances. Precise Automation's flexible and innovative products serve a wide variety of industries including: electronics, semiconductor, life science, medical products and mass storage.

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