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3900 Advanced Large Part Vibration Welder -New AT NPE

Dukane Corporation is introducing their newest and largest vibration welder within their product line at NPE 2006. The 3900 Advanced linear vibration welder boasts a 72" wide and 24" deep hydraulic lift table. The ultra rigid table structure is guided by four dovetail slides and eight reciprocating bearings. The 3900 can swing an upper tool mass of 250 pounds while maintaining a frequency above 200-hertz utilizing a 30-hp digital drive. With these features Dukane can weld instrument panels, bumpers, large appliance housings and other large plastic assemblies. Large structural parts that have critical surface finishes are ideal applications for the 3900 series welder. With data tracking the quality of these assemblies can be monitored with the Dukane Advanced Control System.

The Advanced Control System of the 3900 was first on display at the K-2004 show. The foundation of the control system is an Allen Bradley SLC 5/05 with Ethernet, a Pentium based industrial computer, and a 15" color touch screen control. The Windows operating system drives Wonderware software that allows us to provide our customers with unsurpassed process control and process data.

The Advanced control system has process limits on all process parameters. Graphic gauges on the "Operate Screen" allow the operator to visually see the set points, and the upper and lower limits of each parameter. Simply by looking at green or red graphics allows the operator to know if each part is good or bad. For more detailed insight to the weld operation we have provided 3 real time graphs for weld distance, power, and amplitude. All of this information can be stored in the computer hard drive or downloaded in multiple ways to the customer information network.

Security access to the machine allows an administrator to create user access screens for individuals or groups of individuals. Once a user is logged in, the system will only allow access to screens established by the administrator. Welding operations can be 100% monitored since we can tag operators and process parameters to individual parts. This can be completed by the use of bar code or magnetic tags.



The 3900 Vibration welder also incorporates six valves and six sensors that are user programmable through the Advanced control system making it possible to program valves and sensors to operate eject cylinders, slides, part presence and more. This can all be done without the assistance of a PLC programmer.

Dukane Corporation is a leading international supplier of ultrasonic, vibration, spin, thermal press and hot-plate welders for OEM and commercial plastic assembly markets. Dukane is an ISO 9001:2000 certified manufacturer. For more information on the new Dukane 3900 Advanced Large Part Vibration Welder and their complete line of plastic assembly solutions, contact:

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