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Lean Manufacturing Cell

Dukane has designed a new ergonomically friendly lean work cell for the manual assembly of plastic components. The cell can be designed to accommodate Ultrasonic, Spin, or Heat Staking applications. The main features of the cell are size, safety, ergonomics and robust construction.

The Lean cell has a small foot print, while still providing significant workspace for the application. The unique compact safety enclosure is only as large as the equipment inside. This leaves more table workspace to be used for staging parts while the equipment cycles. Casters with built in leveling adjustment are provided to allow for quick storage or placement of the Lean work cell to meet changing production requirements.

Safety was the driving factor in the design of this work cell. Features like OSHA approved anti-tie down activation switches and all electronically interlocked panels are standard. The pneumatics include an OSHA lock out device and filter regulator with soft start dump valve that provides an extra level of protection during equipment maintenance and setup. The front automatic pneumatic sliding door is counter balanced to meet low force pinch requirements.

All interactions are within the ergonomic reach zone of a sitting operator. The activation switch position is adjustable along with the placement of the part bins. To help reduce operator fatigue the enclosures can be manufactured with sound deadening material. The user interface is conveniently placed in operator's line of sight. Most importantly, the part load area is designed obstruction free. This area is open on three sides thanks to the unique door design. An operator footrest is also provided.

The construction is of aluminum extrusion with a 1" thick MIC-6 anodized tool plate tabletop. The complete front third of the enclosure swings open for easy machine setup. In addition to the rear hinged access panel. Controls include Power, Abort and Reset buttons. Illuminated indicators for Cycle On, Cycle Complete, Bad Part, Good Part and System fault help for immediate machine diagnostics. The electrical enclosure has 15% interior space available for future expansion requirements. Options like Part presence, color detection, part clamping and bar code readers are available.



Dukane IAS Corporation is a global supplier of spin, laser, ultrasonic, vibration and hot-plate welders, thermal presses, tooling and software for both OEM and commercial plastic assembly markets. Dukane is an ISO 9001:2000 certified manufacturer. For more information on Dukane's Lean Manufacturing Cell and their complete line of plastic assembly solutions, contact:

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