One size does NOT fit all!
Dukane offers standard machines in many sizes to cost effectively fit specific needs.

<table>
<thead>
<tr>
<th>4100</th>
<th>4500</th>
<th>4700</th>
<th>4900</th>
</tr>
</thead>
<tbody>
<tr>
<td>24&quot; x 18&quot; (610mm x 455mm)</td>
<td>39&quot; x 18&quot; (991mm x 457mm)</td>
<td>52&quot; x 24&quot; (1321mm x 610 mm)</td>
<td>72&quot; x 24&quot; (1829mm x 610 mm)</td>
</tr>
<tr>
<td>20-65 lbs (9-30 kg)</td>
<td>56-90 lbs (23-40 kg)</td>
<td>90-150 lbs (40-68 kg)</td>
<td>110-200 lbs (50-91 kg)</td>
</tr>
</tbody>
</table>

Small Pressurized Vessels
High Mount Stoplight
Appliance Pump Housings
Side Marker Light
Filter Assemblies
Small Handles and Brackets
Glove Boxes and Knee Bolsters
Chainsaw Housings
Tailights
Battery Housings
Blower Assemblies
Food Trays
Rear Appliques
Rear Spoilers
Tool Lids
Intake Manifolds
Rear Package Trays
Center Consoles
Tonto Covers
Fencing
Pressure Tanks

Our systems are manufactured to ISO 9001:2000 standards, CE and approved for global sales.

Specifications subject to change without notice.

Dukane has been a pioneer in providing plastic assembly solutions for the past 40 years. We offer a family of high frequency vibration welders to meet any of your plastic assembly requirements. Whether the part fits in the palm of your hand or is six feet long…we have a welder to suit your needs!
Mechanical Features of All Dukane Vibration Welders

- Efficient electromagnetic drive system, with proven reliability, complete with digital PWM drives.
- Heaviest-in-class, one-piece flame cut bridge stops unwanted vibrations at its source.
- Four continuously supported rails, with eight reciprocating bearings for best table slide in the industry.
- Robust frame with more cross members to support dovetail slide bridge.
- Tubular steel table with 1" (25mm) thick Blanchard ground surface provides stable platform for lower tooling.
- Rexroth hydraulic power unit has large 20-gallon oil reservoir and proportional valve for precise control of table speeds during machine cycle. As well as reducing thermal build up.
- Backward and forward engineered compatibility means up to 80% of components in welders are interchangeable.
- Machines do not exceed 80dBA continuous.

Custom Machine Configurations

- Manufactured to your unique work environment.
- Custom PLCs and user interfaces. (Siemens, Modicon, Mitsubishi)
- Paint to meet your plant specifications.
- Adjustable ergonomic activation switches.
- Automated servo controlled pick and place parts removal systems.
- Custom enclosures – (rear door or other configurations)
- Light curtain guards, swing up tables, part catchers, parts bins.
- Exterior work light, power outlets, pneumatic connections, USB, serial ports and system lubrication.
- Programmable clamps, eject valves, part sensing, bar code readers and color sensing are available.
- Optional pendant arm for user interface

Vibration Tooling

- High quality tooling built in-house where stringent quality control is supported by Dukane technical personnel.
- All tools undergo center of mass and drag analysis to ensure optimum running efficiency.
- Consistent urethane coating thickness is achieved by casting to CAD models.
- Design reviews via WebEx are a Dukane hallmark, ensuring customer requirements are met before cutting steel.
- Project engineers provide accurate timelines and progress reports as required.

Optional Tooling Accessories

- Micrometer adjustment of X-Y position.
- Tooling ball for X-Y coordinate system reference point.
- Air bearing system for ease of tool movement during adjustment.
- Roller bearing system for ease of tool changes.
- Mechanical camlock slides.
- Tool recognition.
- Quick change plate.

Features Advanced HMI Basic HMI

- HMI Process Control 15 inch 7.5 inch
- Time STD STD
- Distance STD STD
- Amplitude Profile STD STD
- Pressure Profile STD Optional
- Trigger by Force STD STD
- Trigger by Position STD STD
- Programmable Valves/Sensors 6 valves, 6 sensors Optional 2 valves, 2 sensors
- Ethernet Communication STD Optional
- Data Storage DVD, USB, Hard Drive
- Data History Unlimited Last # Cycles
- Tooling ID Optional Optional
- Electronic Manual STD N/A
- Light Stack STD Optional
- Process Limits Graphically enhanced STD
- SPC Capable N/A
- Security Customizable Passwords

Quick Tool Change Plates

Adjustable Ergonomic Activation Switches
Mechanical Features of All Dukane Vibration Welders

- Efficient electromagnetic drive system, with proven reliability, complete with digital PWM drives.
- Heaviest-in-class, one-piece flame cut bridge stops unwanted vibrations at its source.
- Four continuously supported rails, with eight reciprocating bearings for best table slide in the industry.
- Robust frame with cross members to support dovetail slide bridge.
- Tubular steel table with 1” (25mm) thick Blanchard ground surface provides stable platform for lower tooling.
- Rexroth hydraulic power unit has large 20-gallon oil reservoir and proportional valve for precise control of table speeds during machine cycle. As well as reducing thermal build up.
- Machines do not exceed 80dBA continuous.
- Fully backward and forward engineered compatibility means up to 80% of components in welders are interchangeable.
- Custom Machine Configurations
  - Manufactured to your unique work environment.
  - Custom PLCs and user interfaces. (Siemens, Modicon, Mitsubishi)
  - Paint to meet your plant specifications.
  - Adjustable ergonomic activation switches.
  - Automated servos controlled pick and place parts removal systems.
  - Custom enclosures -- (rear door or other configurations)
  - Light curtain guards, swing up tables, part catchers, parts bins.
  - Exterior work light, power outlets, pneumatic connections, USB, serial ports and system lubrication.
  - Programmable clamps, eject valves, part sensing, bar code readers and color sensing are available.
  - Optional pendant arm for user interface

Vibration Tooling

- High quality tooling built in-house where stringent quality control is supported by Dukane technical personnel.
- All tools undergo center of mass and drag analysis to ensure optimum running efficiency.
- Consistent urethane coating thickness is achieved by casting to CAD models.
- Design reviews via WebEx are a Dukane hallmark, ensuring customer requirements are met before cutting steel.
- Project engineers provide accurate timelines and progress reports as required.

Optional Tooling Accessories

- Micrometer adjustment of X-Y position.
- Tooling ball for X-Y coordinate system reference point.
- Air bearing system for ease of tool movement during adjustment.
- Roller bearing system for ease of tool changes.
- Mechanical camlock slides.
- Tool recognition.
- Quick change plate.
One size does NOT fit all!
Dukane offers standard machines in many sizes to cost effectively fit specific needs.

<table>
<thead>
<tr>
<th>Size</th>
<th>Weight Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>24&quot; x 18&quot;</td>
<td>20-65 lbs (9-30 kg)</td>
</tr>
<tr>
<td>39&quot; x 18&quot;</td>
<td>50-90 lbs (23-40 kg)</td>
</tr>
<tr>
<td>52&quot; x 24&quot;</td>
<td>90-150 lbs (40-60 kg)</td>
</tr>
<tr>
<td>72&quot; x 24&quot;</td>
<td>110-200 lbs (50-91 kg)</td>
</tr>
</tbody>
</table>

Dukane Vibration Welding

Dukane has been a pioneer in providing plastic assembly solutions for the past 40 years. We offer a family of high frequency vibration welders to meet any of your plastic assembly requirements. Whether the part fits in the palm of your hand or is six feet long…we have a welder to suit your needs!

Specifications subject to change without notice.

KEY:
- = Table size
= Upper tool weight

Dukane Intelligent Assembly Solutions • 2900 Dukane Drive • St. Charles, Illinois 60174 USA
TEL +1(630) 797-4900 • FAX +1(630) 797-4949 • E-MAIL ussales@dukcorp.com • www.dukcorp.com/us

Printed in U.S.A.