

DUKANE

Intelligent Assembly Solutions

30/40 kHz **Model 410** ASSEMBLY SYSTEM



FEATURES

- **Narrow 3-1/8" (79mm) profile** for close center-to-center distances in multihead and automated installations
- **Rugged construction** using the highest quality components provides superior performance, precision, and reliability
- **Heavy duty precision slide assembly** with 5/8" (16mm) diameter steel rods and sealed Thomson ball bushings pre-loaded for clearance-free, frictionless operation
- **Dual pressure** increases clamp force to improve melt during the weld cycle, or to provide tighter assembly during the hold cycle
- **Hydraulic slow speed option** available for precise, repeatable control of horn travel during the weld cycle
- **4" (102mm) stroke with mechanical bottom stop** adjustable in .001" (.025mm) increments
- **Calibrated dynamic trigger system** with LED indicator initiates weld cycle at a precise, user-selectable force
- **Top-of-stroke limit switch** for automation applications
- **All controls are accessible from the front** for convenient set-up and operation
- Easy to use **front panel position indicators with universal icons** instantly show settings of position, bottom stop, optional slow speed, pre-trigger, and end-of-weld switches
- **OSHA-required lockout for air supply is standard**
- **Ergonomic base and cycle activation switches** reduce operator fatigue
- **Status indicators in base** for Power, In Cycle, and Abort clearly communicate system conditions
- Twist release **emergency stop switch** meets international safety standards
- **Chrome-plated column** is standard
- **Press/thruster design provides system flexibility and upgradeability**, reducing equipment investment
- **Compatible with all current Dukane assembly system components**
- **Press/thruster can be used with 30kHz and 40 kHz Dynamic Process Controllers™** in 350, 700, 1000, and 1500 watt power levels

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SPECIFICATIONS

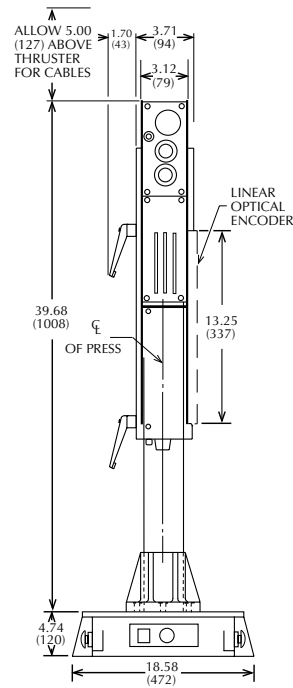
Pneumatic requirements: 80-110 psi max. clean, dry air

Maximum available clamp pressure: 194 lbs @ 110 psi with standard 1.50" (38.1mm) air cylinder

Allow 5.00" (130mm) above the press/thruster for air line and cable connections

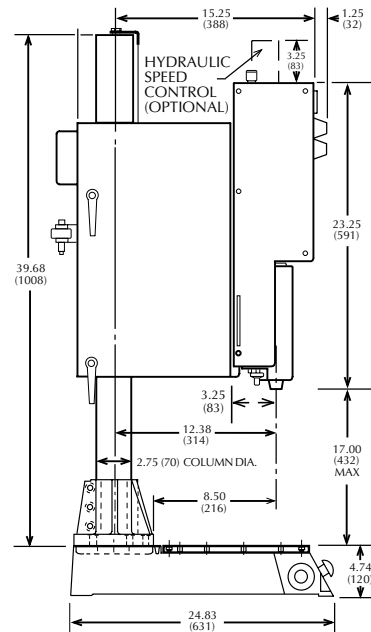
Thruster Dimensions

Housing height:	23.25" (591mm)
Housing width:	3.71" (94mm)
Housing depth:	6.25" (159mm) at greatest point
Weight:	18.00 lbs (8 Kg)



Press Dimensions

Base width:	18.58" (472mm)
Base depth:	24.83" (631mm)
Column height:	39.68" (1008mm)
Column diameter:	2.75" (70mm)
Maximum height:	55.00" (1400mm)
Housing width:	3.71" (94mm)
Column C.L. to Horn C.L.:	12.38" (314mm)
Useable throat:	8.50" (216mm)
Stroke:	4.00" (102mm)
Weight:	155.00 lbs (70Kg)



Options

0.75" (19mm), 0.875" (22mm), 1.0" (25mm), and 1.25" (32mm) air cylinders

Hydraulic speed control

Linear optical encoder
(requires DPC III or IV & Distance module)

