



**HHL-II-LAB-Demo  
Hoist Mounted Dual Shaft Mixer**



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## HHL-II-Lab Demo Pneumatic Hoist-Mounted, Dual Shaft Mixer

- 304 Stainless Steel wetted parts with Teflon scrapers on helical sweep blade
- Designed for vacuum operation to 29" Hg vacuum

### PNEUMATIC LIFT

- 4" Square air cylinder assembly
- Height of unit is 32" closed with a 10" rise
- Hoist up/down by manual valve mounted to the base plate
- Machine is designed to lift with 80 psi minimum plant air

### MACHINE BRIDGE

- Welded steel assembly bolts to the top of the hydraulic lift at a machined surface
- Supports the bearing housing /shaft assemblies for high and low speed shafts on a parallel plane to the lift attachment
- Supports low speed gear box and motor assembly on a machined plate at top of bridge
- Supports the high-speed motor, on its motor bracket, adjustable for belt tensioning by the included jacking screw(s)
- Encloses the rotating pulleys and belts protected by a bolt on stainless steel cover

### HIGH SPEED DISPERSER ASSEMBLY

- Motor: 2 HP; 3,600 RPM, 3-Phase, 60 Cycle, 230/460 Volt, Explosion Proof, Class I, Division I, Group D, High Efficiency, Inverter Duty
- Shaft diameter: .75"
- Shaft material: 304 Stainless Steel with a 125 RMS finish
- Shaft seal: Dry Running Mechanical Seal with Viton O-Ring rated for 29"
- Belts: Anti-static V-belts
- Blade(s):
  - (1) 2" Diameter 304 stainless steel 'G' style pumper blade, adjustable to desired height
  - (1) 2" Diameter 304 stainless steel 'F' style high shear blade
- Operating speed range: 2,149 – 8,599 RPM
- Tip speed: 2,250-4,500 FPM



### LOW SPEED HELICAL SWEEP ASSEMBLY

- Motor: 1.5HP, 1,800 RPM, 3 Phase, 60 Cycle, 230V/460V, Explosion Proof, Class I, Division I, Group D, High Efficiency, Inverter Duty, 2:1 Constant Torque
- Speed reduction: High-Efficiency Helical Geared right-angle Reducer
- Shaft diameter: .75" Diameter
- Shaft material: 304 Stainless Steel with 125 RMS finish
- Shaft seal: Dry Running Mechanical Seal with Viton O-Ring rated for 29" vacuum
- Belts: Anti-static V-belts
- Blade: Patented Helical ribbon squeeze through sweep blade with single riser made of 304 stainless steel equipped with Teflon scrapers which scrape both directions.
- Operating speed range: 60 - 120 RPM
- Tip speed: 142-283 FPM



### LID ASSEMBLY

- Description: 11" Diameter flat lid with dove-tail groove to secure o-ring, attached to the bridge via bearing housings
- Material: 304 Stainless Steel. Polished inside 180 grit, external 150 grit
- Machined groove for Viton O-ring
- Dual 2.5" tri-clamp combination
- (1) Sight glass load ports
- (1) 3/8" NPT Vacuum port
- Thermometer

## CONSOLIDATED FREQUENCY INVERTER DRIVE PACKAGE

### ● INVERTER

- (1) 2 HP variable speed frequency inverter
- (1) 1.5 HP variable speed frequency inverter
- 460 Volt with input line reactor and fusing
- Built up and complete with individual and locking main input disconnects
- Unit is housed in a NEMA 1 enclosure to be mounted in a non-hazardous area away from the operating machine
- Transformer supplied for 110 V control power

### ● OPERATOR CONTROL STATION

- Pushbutton Station
- NEMA 7 enclosure with intrinsically safe components for use in multiple clean or hazardous environments
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- (2) Start and Stop pushbuttons
- (2) Digital Tachometer
- (2) Digital Ammeters
- (2) Speed Potentiometers
- (1) Digital Temperature meter
- Selector switch for Low Speed Forward/Reverse
- Emergency Stop pushbutton will interrupt electrical power to all devices when depressed
- All machine controls are supplied with a full wiring schematic



## PROCESS VESSEL

- Description: Vessel is explicitly designed for use with dual shaft machine and has a machined top flange for sealing against vacuum lid
- Material: 304 Stainless Steel
- Designed for vacuum service
- Dimensions: 9.25" Diameter, 8.5" Straight Side
- Volume: 2.5 Gallon maximum capacity; 1 - 2 Gallon working capacity
- Flat Bottom
- Jacket: Stainless steel side only 14.7 psi jacket

## SAFETY FEATURES

- Shut-Off - Height limitation switch to shut off machine at the start of rise
- Vessel position ring-Mounted to the base plate it holds the vessel aligned to the lid and secure from rotation

**LEAD TIME:** 8-10 weeks

## COMMERCIAL TERMS

- Delivery Terms: FOB: Origin, Freight Collect
- 1 year warranty

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