



DESIGN INTEGRATED TECHNOLOGY, INC.

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10CV HELICONE MIXER

STANDARD SPECIFICATIONS

CAPACITY	Batch Range = 2.5 to 10 gallon (9.5 to 37.9 L) Maximum Internal Volume = 15 gallon (56.8 L)
DIMENSIONS	53" Depth x 50" Width x 93" Height
WEIGHT	3,800 Lb. (1,724 Kg)
BOWL / HEAD	Bowl is double intersecting cone-type designed for 150 psi positive pressure or vacuum to 0.01 inHg. at a temperature of 450F. Vessel is equipped with baffled jacket to permit uniform circulation of heating and cooling medium at a pressure of 100 psi. Material will be 316 SST throughout with 320 scotch brite finish on interior of mix chamber and built in accordance with ASME code. Head will be complete with a sight glass and two loading and one vacuum sanitary ports. The bowl is bolted to the head. Optional: Interior surface finish of 16Ra mirror polish finish
BLADES	Twin opposing helicone blades with 270 degree twist constructed of alloy 2205 duplex stainless steel with a polish finish to match bowl and head.
DRIVE	10 HP, Inverter drive motor, 230/460 VAC, 60Hz, three phase, TEFC. The motor drive powers a right angle reducer, providing blade speeds of 1 to 60 rpm. Optional: Exp proof motor (Class I Group D: Class II Group F,G)
CONTROLS	Standard: Mounted direct motor drive for simple motor operation Optional 1: Full controls cabinet with pushbutton controls featuring safety e-stop/limit circuit and the ability to integrate optional digital readouts for sensors and external equipment control. Optional 2: Full controls cabinet with PLC touchscreen featuring automation (recipes), advanced safety circuit, sensor readout, data collection (speed, temperature, torque, etc.), alarms, and optional external equipment control and feedback.
O-RINGS	Standard: Viton o-rings for all Optional: High Temp Silicone, FFKM (Kalrez, Simrez, eta), PFA encapsulated Silicone
DISCHARGE	Bottom discharge. Manually operated, slide type valve, 316 SST with a 4 1/4" x 2 3/4" opening.
SEALS	Double mechanical seals designed for specified pressure / temperature service.
SENSORS	Standard: Thermocouple, type J, located in the bowl wall protruding into mix to monitor temperature Optional: Pressure transducer, Preset pressure relief valve, Vacuum sensor, RPM Sensor, Humidity sensor,...
FRAME	Standard: Powder coated steel frame Optional: Bowl lift frame used to raise and lower the bowl, hydraulically or electrically Stainless steel frame available
CUSTOMIZATION	In addition to the standard options listed above, each mixer can be customized to fit the needs of each customer. Features can be added or changed to integrate the mixer into your process.