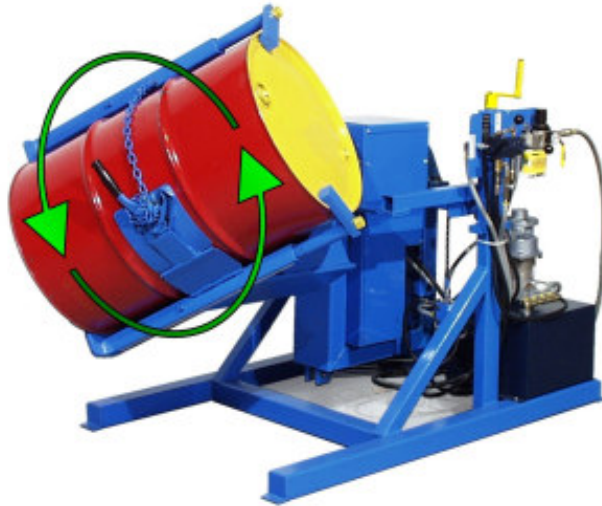


- Rotate closed plastic, steel, or fiber drum
- Thorough corner-over-corner mixing action
- Saves time, labor and money
- Use a separate drum for each batch
- No container to purge between batches
- Common drums make economical vessels

POWER-TILT FOR EASY FLOOR-LEVEL LOADING



Model 310-A (shown)

- Rotation Speed: 5 to 20 RPM
- Capacity: 800 Lb. (363 kg) Full Drum
400 Lb. (181 kg) Half-Full Drum
- Drum Heights: 29" to 37" (74 to 94 cm)
- Drum Diameters: 18" to 23.5" (46 to 60 cm)

Mixing in a Closed Drum Means Less Hazards

Using a Morse Rotator eliminates spills, splashing of dangerous contents on workers, and risk of contamination. Now you can get the benefits of mixing inside closed shipping drums and have the machine do the work of loading and unloading itself! Morse 310 Series models accept the drum upright at floor level. The user controls hydraulic tilting action that raises the drum into position for rotating. A second valve allows the operator to start and stop the hydraulic motor that drives rotation. You minimize time, labor and operating cost by eliminating extra moves required for getting drum into mixing position. Rotate various sized drums, weighing up to 800 Lb. (454 kg) at 5 to 20 RPM.

310 Series Tilt-To-Load Rotator Models

Model #	Motor Style	Volts	Hz *	Phase	Weight
310-1-115	TEFC	115	60	1	1121 Lb.
310-1-230	TEFC	230	60	1	1090 Lb.
310-3-230	TEFC	230	60	3	1121 Lb.
310-3-460	TEFC	460	60	3	1056 Lb.
310-A	Air Motor				1121 Lb.
310-E1-115	Explosion Proof **	115	60	1	1141 Lb.
310-E1-230	Explosion Proof **	230	60	1	1141 Lb.
310-E3-230	Explosion Proof **	230	60	3	1141 Lb.
310-E3-460	Explosion Proof **	460	60	3	1090 Lb.

* Models are also available with 50Hz motors, however, expect a 20% reduction in RPM of drums. For 50Hz version, add "-50" to end of model number.

** Explosion Proof Motors are rated for Class I Group D, and Class II Groups F and G.

Load upright drum at floor level



Load drum into the rotator with the drum holder in the lowered position, the hinged ratchet plate and the top clamps both open. The Morse Model 160-WP Drum Truck is shown loading the drum into the rotator. Can also load with Model 81 or Model 92 (inset).

Secure drum in holder



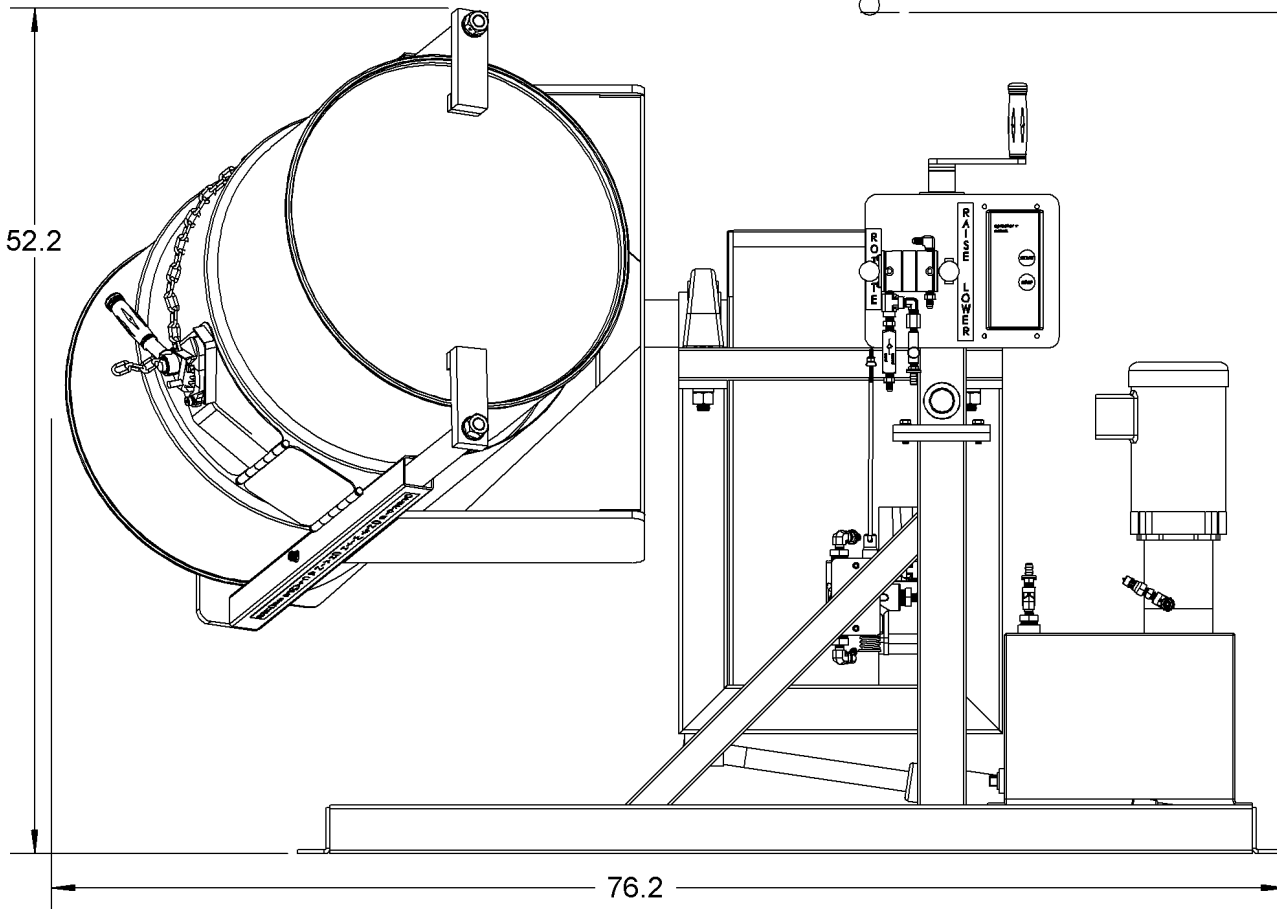
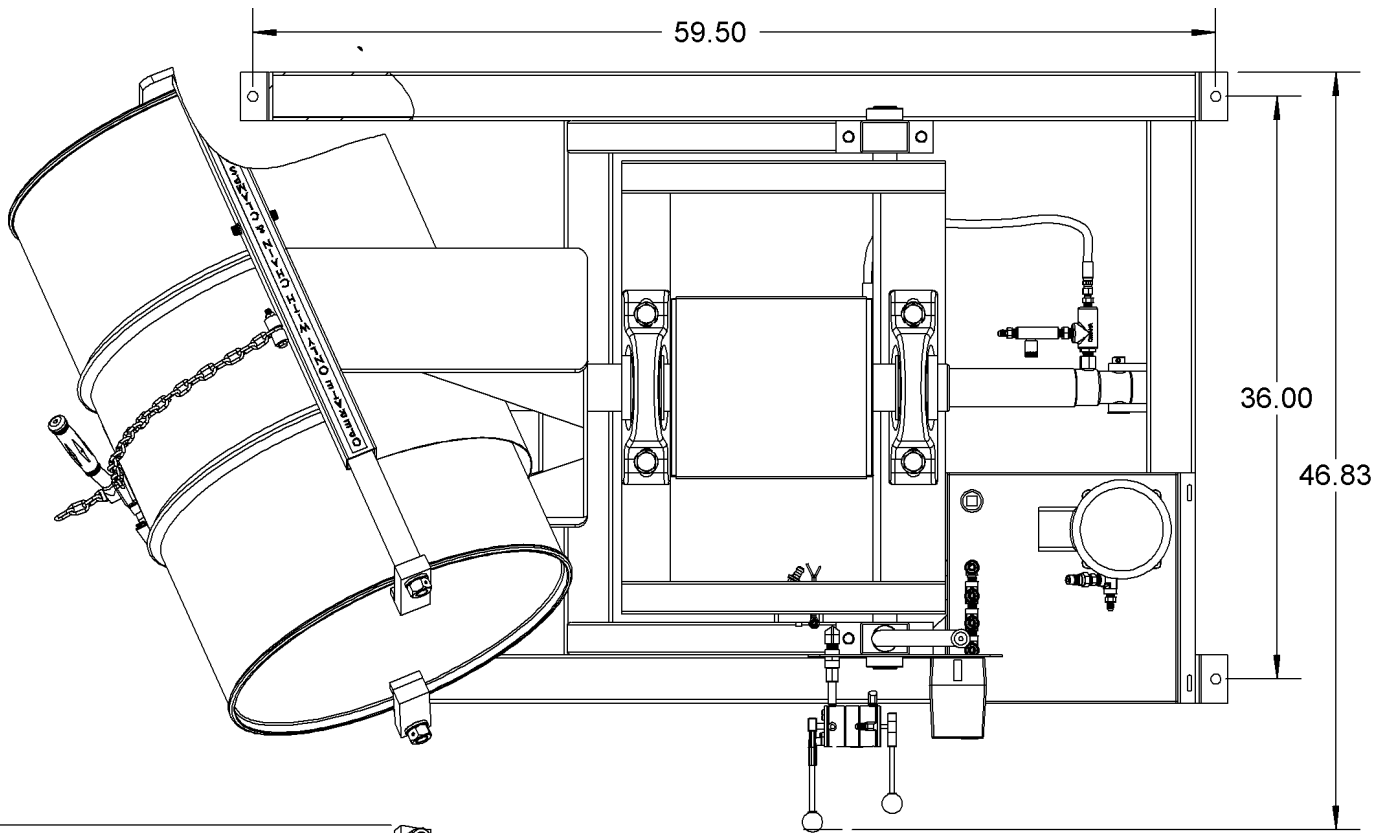
Secure drum in the rotator using the cinch chain and ratchet, and tightening the top clamps (inset).

Powered lift and rotate



Turn the motor on to activate the hydraulics. Raise the drum to the top position by raising the TILT control valve. To begin rotating, raise the ROTATE control valve.

Install Morse Rotators in accordance with OSHA requirements for enclosure and interlock, etc. For OSHA compliance, see OSHA subpart O.1910.212 "General Requirements for all Machines." Power connections and motor controls must comply with applicable codes. Consult with Morse specialist for compliance advice.



UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL $\pm 1/32$
 ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$
 TWO PLACE DECIMAL $\pm .02$
 THREE PLACE DECIMAL $\pm .005$

MATERIAL
 Material <not specified>

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
ENG APPR.		
MFG APPR.		
LAST EDIT DATE: Tuesday, February 27, 2007		
EDITED BY: cad		
COMMENTS:		

MORSE
 Manufacturing Company, Inc.

TITLE:
 TILT TO LOAD 3PH 230V TEFC

SIZE A	DWG. NO. 310-3-230	REV.
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SCALE:1:32 WEIGHT:

SHEET 1 OF 1

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NEXT ASSY	USED ON
APPLICATION	