

The Specialist In Drum Handling Equipment

Power Tilt Allows Easy Floor-Level Loading

- Rotate closed plastic, steel, or fiber drum
- Thorough corner-over-corner mixing action
- Saves time, labor and money



Tilt-To-Load Drum Tumblers

- Rotate your drum at: 5 to 20 RPM (4 to 16 RPM for 50Hz models)
- Capacity:

MADE

IN

USA

800 Lb. (363 kg) Full Drum 400 Lb. (181 kg) Half-Full Drum *

Handle your drum:

29" to 37" (74 to 94 cm) tall 18" to 23.5" (46 to 60 cm) in diameter

Tilt-To-Load **Drum Tumblers**

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- Use a separate drum for each batch
- No container to purge between batches
- Common drums make economical vessels

Mixing in a Closed Drum Means Less Hazards

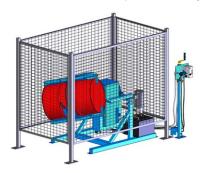
Using a Morse Drum Rotator eliminates spills, splashing of dangerous contents on workers, and risk of contamination. Now you can get the benefits of mixing inside closed shipping drums and have the machine do the work of loading and unloading itself! Morse 310 Series models accept the drum upright at 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. (363 kg) at 5 to 20 RPM.

Install all Morse Rotators in accordance with OSHA requirements for enclosure and safety interlock, etc. so the rotator automatically turns off when enclosure door is opened. One way to accomplish this is with a Morse

enclosure with safety interlock.

For OSHA compliance, see OSHA subpart O.1910.212(a)(4) "Barrels, containers, and drums. Revolving drums, barrels, and containers shall be guarded by an enclosure which is interlocked with the drive mechanism, so that the barrel, drum, or container cannot revolve unless the guard enclosure is in place."

Power connections and motor controls must comply applicable codes.



Safety enclosure with Safety Interlock (drum tumbler sold separately).

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 152 Drum Truck is shown loading the drum into the rotator. Can also load with Model 81 Drum Spotter or Model 92 Below-Hook Drum Lifter (inset).

Secure your 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

* Half-full Capacity is an indication of the capacity for tilting an unbalanced, bottom-heavy drum. A partially full drum with an unbalanced and shifting load is harder to tilt than a full drum.

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Tilt-To-Load Drum Tumblers

Tilt-To-Load Drum Tumbler Model Numbers

	Model #	Motor Style	Phase	Volts	Hertz	Amp Draw	Controls	Drum RPM	Domestic Ship Weight	Domestic Ship Dimensions
	310-1-115	TEFC	1	115	60	23 **	NEMA 4X Start/Stop	5 to 20	1240 Lb. (564 kg)	L77" W55" H59" (196 x 140 x 150 cm)
	310-1-220-50	TEFC	1	220	50	9.7	NEMA 4X Start/Stop	4 to 16	1240 Lb. (564 kg)	L77" W55" H59" (196 x 140 x 150 cm)
	310-1-230	TEFC	1	230	60	11.5	NEMA 4X Start/Stop	5 to 20	1240 Lb. (564 kg)	L77" W55" H59" (196 x 140 x 150 cm)
	310-3-220-50	TEFC	3	220	50	5.6	NEMA 4X Start/Stop	4 to 16	1240 Lb. (564 kg)	L77" W55" H59" (196 x 140 x 150 cm)
	310-3-230	TEFC	3	230	60	5.8	NEMA 4X Start/Stop	5 to 20	1240 Lb. (564 kg)	L77" W55" H59" (196 x 140 x 150 cm)
	310-3-380-50	TEFC	3	380	50	3.2	NEMA 4X Start/Stop	4 to 16	1240 Lb. (564 kg)	L77" W55" H59" (196 x 140 x 150 cm)
	310-3-440-50	TEFC	3	440	50	2.8	NEMA 4X Start/Stop	4 to 16	1240 Lb. (564 kg)	L77" W55" H59" (196 x 140 x 150 cm)
	310-3-460	TEFC	3	460	60	2.9	NEMA 4X Start/Stop	5 to 20	1240 Lb. (564 kg)	L77" W55" H59" (196 x 140 x 150 cm)
Ε	310-3-575	TEFC	3	575	60	2.1	NEMA 4X Start/Stop	5 to 20	1240 Lb. (564 kg)	L77" W55" H59" (196 x 140 x 150 cm)
	310-A	Air Motor ***	-	-	-	-	On/Off Air Valve. Filter, regulator, lubricator included	5 to 20	1240 Lb. (564 kg)	L77" W55" H59" (196 x 140 x 150 cm)
	310-E1-115	Explosion proof *	1	115	60	23 **	NEMA 7/9 Start/Stop	5 to 20	1240 Lb. (564 kg)	L77" W55" H59" (196 x 140 x 150 cm)
	310-E1-220-50	Explosion proof *	1	220	50	9.7	NEMA 7/9 Start/Stop	4 to 16	1240 Lb. (564 kg)	L77" W55" H59" (196 x 140 x 150 cm)
	310-E1-230	Explosion proof *	1	230	60	11.5	NEMA 7/9 Start/Stop	5 to 20	1240 Lb. (564 kg)	L77" W55" H59" (196 x 140 x 150 cm)
	310-E3-220-50	Explosion proof *	3	220	50	5.6	NEMA 7/9 Start/Stop	4 to 16	1240 Lb. (564 kg)	L77" W55" H59" (196 x 140 x 150 cm)
	310-E3-230	Explosion proof *	3	230	60	5.8	NEMA 7/9 Start/Stop	5 to 20	1240 Lb. (564 kg)	L77" W55" H59" (196 x 140 x 150 cm)
	310-E3-380-50	Explosion proof *	3	380	50	3.2	NEMA 7/9 Start/Stop	4 to 16	1240 Lb. (564 kg)	L77" W55" H59" (196 x 140 x 150 cm)
	310-E3-440-50	Explosion proof *	3	440	50	2.8	NEMA 7/9 Start/Stop	4 to 16	1240 Lb. (564 kg)	L77" W55" H59" (196 x 140 x 150 cm)
	310-E3-460	Explosion proof *	3	460	60	2.9	NEMA 7/9 Start/Stop	5 to 20	1240 Lb. (564 kg)	L77" W55" H59" (196 x 140 x 150 cm)

Model #	Description	Ship Weight Adder	Ship Dimensions
3212X-P	Fully enclosed crate for export of Tilt-To-Load Drum Tumbler	441 Lb. (200 kg)	L71" W51" H55" (180 x 130 x 140 cm)

^{*} ONLY NON-Explosion Proof AC models include a pre-wired control box with start, stop functions. Models with Explosion Proof motor have no wiring from the NEMA 7/9 control box to the motor. Please consult an electrician to complete the wiring in accordance to your local code. Explosion Proof motors are rated for Class I Group D, and Class II Groups F and G.

Please contact your Morse dealer	
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Website: morsedrum.com

^{**} Requires 30 Amp circuit, and can have amp spikes higher than that.

^{***} Air powered models require plant air at 50 to 60 psi and flowing at a rate of 60 scfm. Filter, Regulator, Lubricator and valve (part # 90010-P) are included.