

Vigorous End-Over-End Mixing Action

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- **Tumble common 55-gallon (208 liter) steel drums to mix the contents**
- **Use a separate drum for each batch**
- **Put valuable ingredients back into suspension**
- **Leave drums cleaner for reconditioning**

Save time, labor and money by mixing in closed shipping drums. Eliminate transfer, clean-up and special containers. End-over-end tumbling action does a thorough mixing job to ensure homogeneity. Mix dry powders, wet grains, dyes and coloring liquids, fine and coarse granules, settled liquids and powders. Vigorous tumbling is ideal for mixing highly viscous substances.

Capacity per drum

- 800 Lb. (363 kg) Full drum capacity
- 400 Lb. (181 kg) Half-full drum capacity *

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USA



To assist in loading a drum, a Morse Drum Lifting Hook is included. Attach the Lifting Hook to an overhead hoist, engage the hooks onto the top and bottom chimes of the drum, and lift the drum into the holder. End-Over-End Rotators are made to handle a 55-gallon steel drum, to tumble a 30-gallon steel drum, or a 55-gallon plastic drum on page 2.



Place the chains of the drum holder around the drum and lock securely with two load binders. The ends of the chains are then placed around the load binder handles and fastened with a safety snap to prevent unintentional opening.

The sturdy frame resists the stress and shock of tumbling. It has a heavy structural steel base, a 1.5" (3.8 cm) shaft, and ball bearings.

Non-explosion proof AC models include a pre-wired control box with start, stop and jog functions. Explosion proof models include a control box, but require an electrician to wire according to your local codes.

Explosion proof models are rated for Class I Group D, and Class II Groups F and G. Variable speed models are NOT available for hazardous areas.

Variable or Fixed Speed End-Over-End Drum Tumblers



Variable speed End-Over-End Drum Tumblers utilize a variable frequency drive (VFD) to rotate your drum at any speed from 1 to 16 RPM. Select the best speed for each material. Enables you to use high speed for initial mixing, then low speed for prolonged agitation. Variable speed drum rollers are ideal for experimental use or where you need to blend a variety of materials. The VFD includes motor starter and disconnect. Mount the VFD on a wall or on the outside of OSHA required enclosure (see page 2).

Fixed speed End-Over-End Drum Tumblers rotate your drum at 13 RPM.

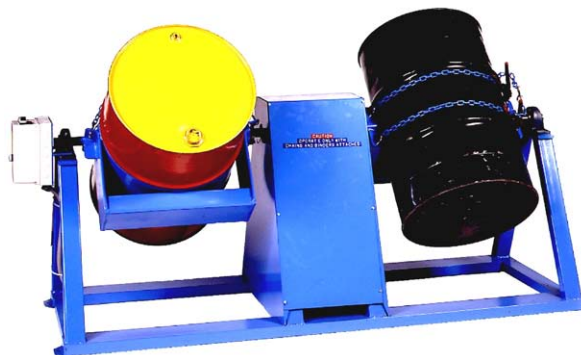


Model 1-300-1-115 shown

Single Drum Rotators

Rotate one 55-gallon steel drum end-over-end. Motor: 1 HP.

Base dimensions: 30" x 54" (76 x 137 cm)



Model 2-300-1-115 shown

Double Drum Rotators

Rotate two 55-gallon steel drums simultaneously, or just one drum. Drum holders rotate on the same axis but are 90 degrees out of phase with each other. Motor: 1.5 HP.

Base dimensions: 30" x 88" (76 x 224 cm)

* 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.

Options and Accessories

Option for 30-Gallon Steel Drum Diameter Adaptor
Part # 55/30-19GR



Model 55/30-19GR Diameter Adaptor for 30-gallon steel drum with 19" diameter between the ribs. It inserts into the Drum Holder of End-Over-End Drum Tumblers.

OSHA Requires Enclosure with Safety Interlock Guard Enclosure Kits for End-Over-End Drum Tumblers



Guard Enclosure GEK-2-300-1-115 (Drum Tumbler sold separately)

Option for Plastic Drum Clamp Screw Assembly Kit
Kit # 5026-P



Rotate your 55-gallon plastic drum with any Morse End-Over-End Drum Tumbler by installing this optional Clamp Screw Assembly Kit.



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 with applicable codes.

Optional Loading Cranes

Where a hoist is not available to lift a drum into the drum holder, a hydraulic loading crane can be ordered. Pump the hydraulic jack to lift a horizontal drum and swing it into the drum holder. Use ONE load crane for single drum tumblers. Use TWO load cranes for double drum tumblers.



Model #	Load Crane Description	Domestic Ship Weight
300LCF	Load Crane, field installed, bolted to right side of 1-300 or 2-300	155 Lb. (70 kg)
300LCFL	Load Crane, field installed, bolted to left side of 2-300	155 Lb. (70 kg)
300LC	Load Crane, factory installed, welded to right side of 1-300 or 2-300 (discontinued)	
300LCL	Load Crane, factory installed, welded to left side of 2-300 (discontinued)	

Model #	Tumble	Drum RPM	Motor Style	Phase	Volts	Hz	Full Load Amp Draw
Variable Speed Models							
1-300VS-1-115	1 Drum	1 to 16	Inverter Duty 1 HP	1	115	50 / 60	16.6
1-300VS-1-230	1 Drum	1 to 16	Inverter Duty 1 HP	1	230	50 / 60	8.3
1-300VS-3-230	1 Drum	1 to 16	Inverter Duty 1 HP	3	230	50 / 60	5.0
1-300VS-3-460	1 Drum	1 to 16	Inverter Duty 1 HP	3	460	50 / 60	2.5
2-300VS-1-115	2 Drums	1 to 16	Inverter Duty 1.5 HP	1	115	50 / 60	20.0
2-300VS-1-230	2 Drums	1 to 16	Inverter Duty 1.5 HP	1	230	50 / 60	10.0
2-300VS-3-230	2 Drums	1 to 16	Inverter Duty 1.5 HP	3	230	50 / 60	6.9
2-300VS-3-460	2 Drums	1 to 16	Inverter Duty 1.5 HP	3	460	50 / 60	3.6
Fixed Speed Models							
1-300-1-115	1 Drum	13	1 HP TEFC	1	115	60	12.8
1-300-1-220-50	1 Drum	10.8	1 HP TEFC	1	220	50	12.4
1-300-1-230	1 Drum	13	1 HP TEFC	1	230	60	6.4
1-300-3-220-50	1 Drum	10.8	1 HP TEFC	3	220	50	4.4
1-300-3-230	1 Drum	13	1 HP TEFC	3	230	60	6.4
1-300-3-380-50	1 Drum	10.8	1 HP TEFC	3	380	50	2.0
1-300-3-440-50	1 Drum	10.8	1 HP TEFC	3	440	50	2.2
1-300-3-460	1 Drum	13	1 HP TEFC	3	460	60	1.7
1-300-3-575	1 Drum	13	1 HP TEFC	3	575	60	1.4
1-300-A	1 Drum	13	Air Motor	-	-	-	-
1-300-E1-115	1 Drum	13	1 HP Explosion proof *	1	115	60	13
1-300-E1-220-50	1 Drum	10.8	1 HP Explosion proof *	1	220	50	12.4
1-300-E1-230	1 Drum	13	1 HP Explosion proof *	1	230	60	6.5
1-300-E3-220-50	1 Drum	10.8	1 HP Explosion proof *	3	220	50	3.6
1-300-E3-230	1 Drum	13	1 HP Explosion proof *	3	230	60	3.8
1-300-E3-380-50	1 Drum	10.8	1 HP Explosion proof *	3	380	50	2.1
1-300-E3-440-50	1 Drum	10.8	1 HP Explosion proof *	3	440	50	1.8
1-300-E3-460	1 Drum	13	1 HP Explosion proof *	3	460	60	1.9
1-300-E3-575	1 Drum	13	1 HP Explosion proof *	3	575	60	1.4
2-300-1-115	2 Drums	13	1.5 HP TEFC	1	115	60	18
2-300-1-220-50	2 Drums	10.8	1.5 HP TEFC	1	220	50	16
2-300-1-230	2 Drums	13	1.5 HP TEFC	1	230	60	8.0
2-300-3-220-50	2 Drums	10.8	1.5 HP TEFC	3	220	50	4.4
2-300-3-230	2 Drums	13	1.5 HP TEFC	3	230	60	5.0
2-300-3-380-50	2 Drums	10.8	1.5 HP TEFC	3	380	50	2.5
2-300-3-440-50	2 Drums	10.8	1.5 HP TEFC	3	440	50	2.2
2-300-3-460	2 Drums	13	1.5 HP TEFC	3	460	60	2.5
2-300-3-575	2 Drums	13	1.5 HP TEFC	3	575	60	2.0
2-300-A	2 Drums	13	Air Motor	-	-	-	-
2-300-E1-115	2 Drums	13	1.5 HP Explosion proof *	1	115	60	16
2-300-E1-220-50	2 Drums	10.8	1.5 HP Explosion proof *	1	220	50	23
2-300-E1-230	2 Drums	13	1.5 HP Explosion proof *	1	230	60	8.0
2-300-E3-220-50	2 Drums	10.8	1.5 HP Explosion proof *	3	220	50	4.4
2-300-E3-230	2 Drums	13	1.5 HP Explosion proof *	3	230	60	5.0
2-300-E3-380-50	2 Drums	10.8	1.5 HP Explosion proof *	3	380	50	2.5
2-300-E3-440-50	2 Drums	10.8	1.5 HP Explosion proof *	3	440	50	2.2
2-300-E3-460	2 Drums	13	1.5 HP Explosion proof *	3	460	60	2.5
2-300-E3-575	2 Drums	13	1.5 HP Explosion proof *	3	575	60	1.7

* Explosion proof models are rated for Class I Group D, and Class II Groups F and G. Variable speed models are NOT available for hazardous areas.