

Vigorous End-Over-End Mixing Action

Videos at www.MORSEmfgco.com

- Tumble common 55-gallon 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 insure homogeneity. Mix dry powders, wet grains, dyes and coloring liquids, fine and coarse granules, settled liquids and powders. Ideal for mixing highly viscous substances.

- **Drum Rotation Speed**
 - 13 RPM on fixed speed models
 - 3 to 20 RPM on variable speed models
- **Capacity per drum**
 - 800 Lb. Full drum capacity
 - 400 Lb. Half-full* drum capacity

The sturdy frame resists the stress and shock of tumbling. It has a heavy structural steel base, a 1.5" shaft, and ball bearings. Non-explosion proof AC models include a prewired control box with start, stop and jog functions. Explosion proof models also include a control box, but require an electrician to wire according to your local codes.

* 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.

Important Features



End-Over-End Rotators are made to handle a 55-gallon steel drum. 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.



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.

Model 1-300-1-115



Single Drum Rotators

Rotate one 55-gallon steel drum end-over-end.
1 HP motor
Base dimensions: 30" x 54"

Model 2-300-1-115



Double Drum Rotators

Rotate two 55-gallon steel drums simultaneously. Drum holders rotate on the same axis but are 90 degrees out of phase with each other.
1.5 HP motor
Base dimensions: 30" x 88"



Install Morse Rotators in accordance with OSHA requirements for enclosure and safety interlock, etc. Drum tumbler automatically shuts off when enclosure door is opened.

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 #	Description	Ship Weight
300LC	Load Crane, factory installed, welded to right side of 1-300 or 2-300	82 Lb. (37 kg)
300LCF	Load Crane, field installed, bolted to right side of 1-300 or 2-300	155 Lb. (70 kg)
300LCL	Load Crane, factory installed, welded to left side of 2-300	82 Lb. (37 kg)
300LCFL	Load Crane, field installed, bolted to left side of 2-300	155 Lb. (70 kg)



The Specialist In Drum Handling Equipment

End-Over-End Drum Tumblers

MADE
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USA

Model #	Rotates	Motor Style	Phase	Volts	Hz	Ship Weight	Ship Dimensions
1-300-1-115	1 Drum @ 13 RPM	TEFC	1	115	60	621 Lb. (282 kg)	L65" W38" H40" (165 x 97 x 102 cm)
1-300-1-220-50	1 Drum @ 13 RPM	TEFC	1	220	50	634 Lb. (288 kg)	L65" W38" H40" (165 x 97 x 102 cm)
1-300-1-230	1 Drum @ 13 RPM	TEFC	1	230	60	634 Lb. (288 kg)	L65" W38" H40" (165 x 97 x 102 cm)
1-300-3-220-50	1 Drum @ 13 RPM	TEFC	3	220	50	514 Lb. (234 kg)	L65" W38" H40" (165 x 97 x 102 cm)
1-300-3-230	1 Drum @ 13 RPM	TEFC	3	230	60	514 Lb. (234 kg)	L65" W38" H40" (165 x 97 x 102 cm)
1-300-3-380-50	1 Drum @ 13 RPM	TEFC	3	380	50	634 Lb. (288 kg)	L65" W38" H40" (165 x 97 x 102 cm)
1-300-3-440-50	1 Drum @ 13 RPM	TEFC	3	440	50	634 Lb. (288 kg)	L65" W38" H40" (165 x 97 x 102 cm)
1-300-3-460	1 Drum @ 13 RPM	TEFC	3	460	60	634 Lb. (288 kg)	L65" W38" H40" (165 x 97 x 102 cm)
1-300-3-575	1 Drum @ 13 RPM	TEFC	3	575	60	634 Lb. (288 kg)	L65" W38" H40" (165 x 97 x 102 cm)
1-300-A	1 Drum @ 13 RPM	Air Motor	-	-	-	550 Lb. (250 kg)	L65" W38" H40" (165 x 97 x 102 cm)
1-300-E1-115	1 Drum @ 13 RPM	Explosion proof *	1	115	60	647 Lb. (294 kg)	L65" W38" H40" (165 x 97 x 102 cm)
1-300-E1-220-50	1 Drum @ 13 RPM	Explosion proof *	1	220	50	647 Lb. (294 kg)	L65" W38" H40" (165 x 97 x 102 cm)
1-300-E1-230	1 Drum @ 13 RPM	Explosion proof *	1	230	60	647 Lb. (294 kg)	L65" W38" H40" (165 x 97 x 102 cm)
1-300-E3-220-50	1 Drum @ 13 RPM	Explosion proof *	3	220	50	647 Lb. (294 kg)	L65" W38" H40" (165 x 97 x 102 cm)
1-300-E3-230	1 Drum @ 13 RPM	Explosion proof *	3	230	60	647 Lb. (294 kg)	L65" W38" H40" (165 x 97 x 102 cm)
1-300-E3-380-50	1 Drum @ 13 RPM	Explosion proof *	3	380	50	647 Lb. (294 kg)	L65" W38" H40" (165 x 97 x 102 cm)
1-300-E3-440-50	1 Drum @ 13 RPM	Explosion proof *	3	440	50	647 Lb. (294 kg)	L65" W38" H40" (165 x 97 x 102 cm)
1-300-E3-460	1 Drum @ 13 RPM	Explosion proof *	3	460	60	647 Lb. (294 kg)	L65" W38" H40" (165 x 97 x 102 cm)
1-300-E3-575	1 Drum @ 13 RPM	Explosion proof *	3	575	60	647 Lb. (294 kg)	L65" W38" H40" (165 x 97 x 102 cm)
1-300VS-1-115	1 Drum @ 3 to 20 RPM	TEFC	1	115	60	621 Lb. (282 kg)	L65" W38" H40" (165 x 97 x 102 cm)
1-300VS-1-230	1 Drum @ 3 to 20 RPM	TEFC	1	230	60	634 Lb. (288 kg)	L65" W38" H40" (165 x 97 x 102 cm)
1-300VS-3-230	1 Drum @ 3 to 20 RPM	TEFC	3	230	60	514 Lb. (234 kg)	L65" W38" H40" (165 x 97 x 102 cm)
1-300VS-3-460	1 Drum @ 3 to 20 RPM	TEFC	3	460	60	634 Lb. (288 kg)	L65" W38" H40" (165 x 97 x 102 cm)
2-300-1-115	2 Drums @ 13 RPM	TEFC	1	115	60	650 Lb. (295 kg)	L105" W38" H40" (267 x 97 x 102 cm)
2-300-1-220-50	2 Drums @ 13 RPM	TEFC	1	220	50	650 Lb. (295 kg)	L105" W38" H40" (267 x 97 x 102 cm)
2-300-1-230	2 Drums @ 13 RPM	TEFC	1	230	60	650 Lb. (295 kg)	L105" W38" H40" (267 x 97 x 102 cm)
2-300-3-220-50	2 Drums @ 13 RPM	TEFC	3	220	50	650 Lb. (295 kg)	L105" W38" H40" (267 x 97 x 102 cm)
2-300-3-230	2 Drums @ 13 RPM	TEFC	3	230	60	650 Lb. (295 kg)	L105" W38" H40" (267 x 97 x 102 cm)
2-300-3-380-50	2 Drums @ 13 RPM	TEFC	3	380	50	650 Lb. (295 kg)	L105" W38" H40" (267 x 97 x 102 cm)
2-300-3-440-50	2 Drums @ 13 RPM	TEFC	3	440	50	650 Lb. (295 kg)	L105" W38" H40" (267 x 97 x 102 cm)
2-300-3-460	2 Drums @ 13 RPM	TEFC	3	460	60	650 Lb. (295 kg)	L105" W38" H40" (267 x 97 x 102 cm)
2-300-3-575	2 Drums @ 13 RPM	TEFC	3	575	60	650 Lb. (295 kg)	L105" W38" H40" (267 x 97 x 102 cm)
2-300-A	2 Drums @ 13 RPM	Air Motor	-	-	-	650 Lb. (295 kg)	L105" W38" H40" (267 x 97 x 102 cm)
2-300-E1-115	2 Drums @ 13 RPM	Explosion proof *	1	115	60	800 Lb. (364 kg)	L105" W38" H40" (267 x 97 x 102 cm)
2-300-E1-220-50	2 Drums @ 13 RPM	Explosion proof *	1	220	50	800 Lb. (364 kg)	L105" W38" H40" (267 x 97 x 102 cm)
2-300-E1-230	2 Drums @ 13 RPM	Explosion proof *	1	230	60	800 Lb. (364 kg)	L105" W38" H40" (267 x 97 x 102 cm)
2-300-E3-220-50	2 Drums @ 13 RPM	Explosion proof *	3	220	50	800 Lb. (364 kg)	L105" W38" H40" (267 x 97 x 102 cm)
2-300-E3-230	2 Drums @ 13 RPM	Explosion proof *	3	230	60	800 Lb. (364 kg)	L105" W38" H40" (267 x 97 x 102 cm)
2-300-E3-380-50	2 Drums @ 13 RPM	Explosion proof *	3	380	50	800 Lb. (364 kg)	L105" W38" H40" (267 x 97 x 102 cm)
2-300-E3-440-50	2 Drums @ 13 RPM	Explosion proof *	3	440	50	800 Lb. (364 kg)	L105" W38" H40" (267 x 97 x 102 cm)
2-300-E3-460	2 Drums @ 13 RPM	Explosion proof *	3	460	60	800 Lb. (364 kg)	L105" W38" H40" (267 x 97 x 102 cm)
2-300-E3-575	2 Drums @ 13 RPM	Explosion proof *	3	575	60	800 Lb. (364 kg)	L105" W38" H40" (267 x 97 x 102 cm)
2-300VS-1-115	2 Drums @ 3 to 20 RPM	TEFC	1	115	60	650 Lb. (295 kg)	L105" W38" H40" (267 x 97 x 102 cm)
2-300VS-1-230	2 Drums @ 3 to 20 RPM	TEFC	1	230	60	650 Lb. (295 kg)	L105" W38" H40" (267 x 97 x 102 cm)
2-300VS-3-230	2 Drums @ 3 to 20 RPM	TEFC	3	230	60	650 Lb. (295 kg)	L105" W38" H40" (267 x 97 x 102 cm)
2-300VS-3-460	2 Drums @ 3 to 20 RPM	TEFC	3	460	60	650 Lb. (295 kg)	L105" W38" H40" (267 x 97 x 102 cm)

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



The Specialist In Drum Handling Equipment

End-Over-End Drum Tumblers

Enclosure Kit	Fits Model #	Gate Switch	Ship Weight	Ship Dimensions
GEK-1-300-1-115	1-300-1-115	AC	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-1-300-1-220-50	1-300-1-220-50	AC	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-1-300-1-230	1-300-1-230	AC	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-1-300-3-220-50	1-300-3-220-50	AC	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-1-300-3-230	1-300-3-230	AC	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-1-300-3-380-50	1-300-3-380-50	AC	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-1-300-3-440-50	1-300-3-440-50	AC	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-1-300-3-460	1-300-3-460	AC	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-1-300-3-575	1-300-3-575	AC	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-1-300-A	1-300-A	Air Switch	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-1-300-E1-115	1-300-E1-115	AC Explosion proof *	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-1-300-E1-220-50	1-300-E1-220-50	AC Explosion proof *	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-1-300-E1-230	1-300-E1-230	AC Explosion proof *	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-1-300-E3-220-50	1-300-E3-220-50	AC Explosion proof *	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-1-300-E3-230	1-300-E3-230	AC Explosion proof *	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-1-300-E3-380-50	1-300-E3-380-50	AC Explosion proof *	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-1-300-E3-440-50	1-300-E3-440-50	AC Explosion proof *	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-1-300-E3-460	1-300-E3-460	AC Explosion proof *	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-1-300-E3-575	1-300-E3-575	AC Explosion proof *	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-1-300VS-1-115	1-300VS-1-115	AC	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-1-300VS-1-230	1-300VS-1-230	AC	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-1-300VS-3-230	1-300VS-3-230	AC	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-1-300VS-3-460	1-300VS-3-460	AC	375 Lb. (170 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300-1-115	2-300-1-115	AC	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300-1-220-50	2-300-1-220-50	AC	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300-1-230	2-300-1-230	AC	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300-3-220-50	2-300-3-220-50	AC	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300-3-230	2-300-3-230	AC	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300-3-380-50	2-300-3-380-50	AC	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300-3-440-50	2-300-3-440-50	AC	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300-3-460	2-300-3-460	AC	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300-3-575	2-300-3-575	AC	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300-A	2-300-A	Air Switch	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300-E1-115	2-300-E1-115	AC Explosion proof *	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300-E1-220-50	2-300-E1-220-50	AC Explosion proof *	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300-E1-230	2-300-E1-230	AC Explosion proof *	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300-E3-220-50	2-300-E3-220-50	AC Explosion proof *	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300-E3-230	2-300-E3-230	AC Explosion proof *	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300-E3-380-50	2-300-E3-380-50	AC Explosion proof *	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300-E3-440-50	2-300-E3-440-50	AC Explosion proof *	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300-E3-460	2-300-E3-460	AC Explosion proof *	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300-E3-575	2-300-E3-575	AC Explosion proof *	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300VS-1-115	2-300VS-1-115	AC	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300VS-1-230	2-300VS-1-230	AC	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300VS-3-230	2-300VS-3-230	AC	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)
GEK-2-300VS-3-460	2-300VS-3-460	AC	500 Lb. (227 kg)	L101" W31" H66" (257 x 79 x 168 cm)

Please contact your Morse dealer

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