

Built-in Hydraulics Lift Your Drum

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Mixing In Closed Drum Means Less Hazards

- Ergonomic powered hydraulics lift your drum from upright into position for rolling
- Save time, labor and money by mixing inside a closed drum
- Remix settled ingredients, and integrate new components
- Eliminate transfer and clean-up
 - Use a separate drum for each batch
 - No container to purge between batches
 - Nothing to insert into the drum
- Drums make economical mixing vessels

Load an upright drum at floor level with a drum truck or with your crane



Using a Morse Hydra-Lift Drum Roller can eliminate 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!

Load an upright drum into the Hydra-Lift Drum Roller. You control the hydraulic tilting action that places the drum down onto the rotator wheels. Then use a second control to start and stop the hydraulic motor that drives rotation.

Minimize time, labor and extra equipment of getting drum into mixing position.

- Roll a 22.5" (57.2 cm) diameter drum from 5 to 20 RPM, or 4 to 16 RPM on 50Hz models.
- Capacity: 1,000 Lb. (454 kg) liquid load, 400 Lb. (182 kg) dry load. A shifting dry load exerts greater stress on the drum rotator than the fluid motion of a liquid load.
- Roll a Drum: 6" to 26" (15.25 to 66 cm) in diameter, and with 40" (102 cm) maximum length

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Load a drum onto the Hydra-Lift Drum Roller with a drum truck such as [Model 160-WP shown](#)... a simple way to load and remove drums.



Load a drum with your hoist or crane equipped with a [Morse Below-the-Hook Drum Lifter](#). Morse model 92 below-hook drum lifter is shown.

Power drum tilt



Use the built-in hydraulic system to move an upright drum over to horizontal position for rolling.

- Model # 456-1 Hydra-Lift Drum Roller
- Model # CP-456-1-115 Control Package (sold separately)
- Shown without Enclosure for clarity only

Vary drum rolling speed



Roll your 55-gallon (210 liter) drum from 5 to 20 RPM with the variable speed hydraulic drive. Note: 50Hz models can be adjusted from 4 to 16 RPM.

Options

ROLL A PLASTIC DRUM

Option # POLY-456

Roll a 55-gallon (208 liter) plastic drum on a Hydra-Lift Drum Roller. This option adds extra wheels to support the flexible drum sidewall, and an end stop to prevent the drum from traveling lengthways while being rolled, because plastic drums lack the rigid ribs and rims that are standard on a steel drum.



ROLL A 5-GALLON PAIL

Option # 1-5-1

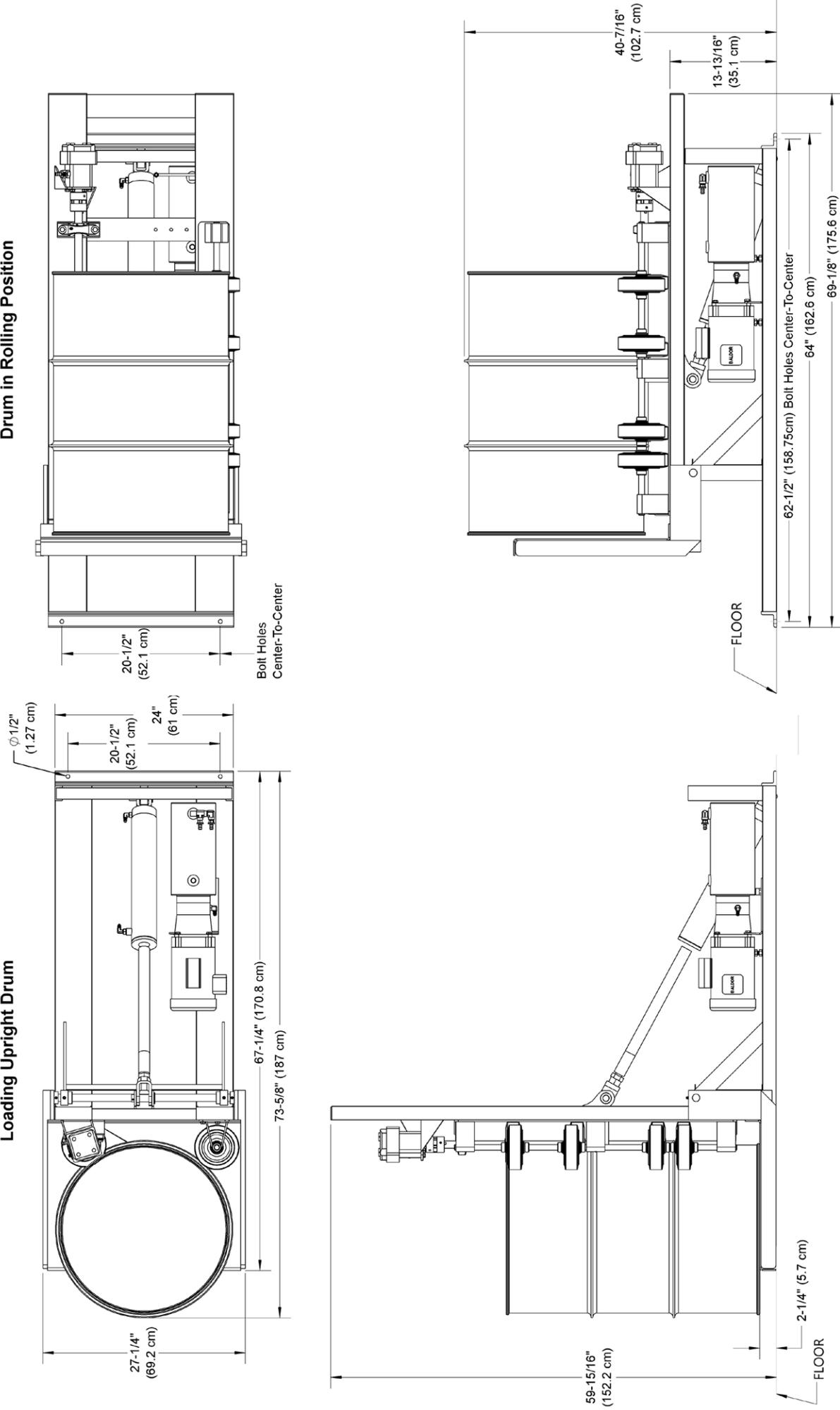
Idle Attachment to roll 1 to 5 gallon (3.8 to 18.9 liter) cylindrical can on a Hydra-Lift Drum Roller. Comes complete with adjustable spacers and mounts. Is easily removed to return to rolling a drum.



Dimensions

Loading Upright Drum

Drum in Rolling Position



Hydra-Lift Drum Rollers							Control Packages See Page 3	Guard Enclosure Kits See Page 4
Model #	Drum RPM (22.5" Dia.)	Motor Information					Option #	Option #
		Motor Style	HP	Phase	Motor Voltage	Amp Draw		
456-1	5 to 20	60 Hz TEFC	1	1	115	12.8	CP-456-1-115 *	GEK-456-1
					230	6.4	CP-456-1-230 *	
456-1-50	4 to 16	50Hz TEFC	1	1	220	6.2	CP-456-1-220-50 *	GEK-456-1
456-3	5 to 20	60Hz TEFC	1	3	230	3.4	CP-456-3-230 *	GEK-456-3
					460	1.7	CP-456-3-460 *	
456-3-50	4 to 16	50Hz TEFC	1	3	230	3.1	CP-456-3-230-50 *	GEK-456-3
					400	1.8	CP-456-3-400-50 *	
456-3-575	5 to 20	60Hz TEFC	1	3	575	1.4	CP-456-3-575 *	GEK-456-3
456-E1	5 to 20	60Hz Explosion proof **	1	1	115	13	CP-456-E1-115 *	GEK-456-E1
					230	6.5	CP-456-E1-230 *	
456-E1-50	4 to 16	50Hz Explosion proof **	1	1	220	6.2	CP-456-E1-220-50 *	GEK-456-E1
456-E3	5 to 20	60Hz Explosion proof **	1	3	230	3.6	CP-456-E3-230 *	GEK-456-E3
					460	1.8	CP-456-E3-460 *	
456-E3-50	4 to 16	50Hz Explosion proof **	1	3	230	3.5	CP-456-E3-230-50 *	GEK-456-E3
					400	2.0	CP-456-E3-400-50 *	
456-E3-575	5 to 20	60Hz Explosion proof **	1	3	575	1.4	CP-456-E3-575 *	GEK-456-E3
456-A	5 to 20	Air Motor ***	-	-	-	-	Air Controls are included with model 456-A ***	GEK-456-A

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* **ONLY NON-Explosion Proof** AC Control Packages include a pre-wired control box. **Explosion-proof** Control Packages 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.

*** Air powered model requires plant air at 40 to 60 PSI and flowing at a rate of 40 SCFM. Filter, Regulator, Lubricator and valve are included with drum roller model 456-A.

Domestic Shipping Information

Models	Description	Domestic Ship Weight (Equipment Plus Packaging)	Domestic Ship Dimensions
456...	(1) Hydra-Lift Drum Roller	640 Lb. (290 kg)	L73" W38" H41" (185 x 97 x 104 cm)
CP-456-...	(1) NON-Explosion-Proof Control Package for Hydra-Lift Drum Roller	40 Lb. (18 kg)	
CP-456-E...	(1) Explosion-Proof Control Package for Hydra-Lift Drum Roller	70 Lb. (32 kg)	
GEK-456...	(1) Guard Enclosure Kit for Hydra-Lift Drum Roller	~375 Lb. (170 kg)	L101" x W31" x H66" (257 x 79 x 168 cm)

Export Shipping Information

Export Crate #	Description	Weight of Crate	Export Ship Dimensions
2848X-P	Fully Enclosed Crate for Export of (1) Hydra-Lift Drum Roller, with or without (1) Control Package	210 Lb. (95 kg)	L78" x W39" x H45" (198 x 99 x 114 cm)
4463X-P	Fully Enclosed Crate for Export of (1) Guard Enclosure Kit	330 Lb. (150 kg)	L105" x W36" x H74" (267 x 91 x 188 cm)
5516X-P	Fully Enclosed Crate for Export of (1) Hydra-Lift Drum Roller, (1) Control Package and (1) Guard Enclosure Kit	509 Lb. (231 kg)	L90" x W45" x H71" (229 x 114 x 180 cm)

Control Packages (sold separately)

Select the appropriate Control Package for each model, and your power supply. Use power controls to start and stop drum rolling. The control mast can be positioned outside the Safety Enclosure on either the left or right side, or at the back of Drum Roller.

AC Control Package (sold separately) NEMA 4/12 for NON-Hazardous Areas

Includes Control Box with:

- Timer adjusts from a few seconds to 16 hours
- Start and Stop Buttons
- Red Emergency Stop Button
- Lockable Main Disconnect to shut off and lock out power to the unit
- 24V DC Control Supply
- Wire terminals for external connection of safety interlock switch



Explosion Proof AC Control Package (sold separately) NEMA 7/9 for Hazardous Areas

Includes Control Box with:

- Start and Stop Buttons
- Wire terminals for external connection of safety interlock switch



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Control Package #	Description	Minimum Power Supply Required	Power Supply	Ship Weight
CP-456-1-115 *	Control Package for 456-1	20 Amp	1-Phase 115V 60Hz	40 Lb. (18 kg)
CP-456-1-230 *	Control Package for 456-1	15 Amp	1-Phase 230V 60Hz	40 Lb. (18 kg)
CP-456-1-220-50	Control Package for 456-1-50	15 Amp	1-Phase 220V 50Hz	40 Lb. (18 kg)
CP-456-3-230 *	Control Package for 456-3	15 Amp	3-Phase 230V 60Hz	40 Lb. (18 kg)
CP-456-3-460 *	Control Package for 456-3	15 Amp	3-Phase 460V 60Hz	40 Lb. (18 kg)
CP-456-3-230-50	Control Package for 456-3-50	15 Amp	3-Phase 230V 50Hz	40 Lb. (18 kg)
CP-456-3-400-50	Control Package for 456-3-50	15 Amp	3-Phase 400V 50Hz	40 Lb. (18 kg)
CP-456-3-575	Control Package for 456-3-575	15 Amp	3-Phase 575V 60Hz	40 Lb. (18 kg)
CP-456-E1-115 *	Control Package for 456-E1, Explosion-Proof	20 Amp	1-Phase 115V 60Hz	70 Lb. (32 kg)
CP-456-E1-230 *	Control Package for 456-E1, Explosion-Proof	15 Amp	1-Phase 230V 60Hz	70 Lb. (32 kg)
CP-456-E1-220-50 *	Control Package for 456-E1-50, Explosion-Proof	15 Amp	1-Phase 220V 50Hz	70 Lb. (32 kg)
CP-456-E3-230 *	Control Package for 456-E3, Explosion-Proof	15 Amp	3-Phase 230V 60Hz	70 Lb. (32 kg)
CP-456-E3-230-50 *	Control Package for 456-E3-50, Explosion-Proof	15 Amp	3-Phase 230V 50Hz	70 Lb. (32 kg)
CP-456-E3-460 *	Control Package for 456-E3, Explosion-Proof	15 Amp	3-Phase 460V 60Hz	70 Lb. (32 kg)
CP-456-E3-400-50 *	Control Package for 456-E3-50, Explosion-Proof	15 Amp	3-Phase 400V 50Hz	70 Lb. (32 kg)
CP-456-E3-575 *	Control Package for 456-E3-575, Explosion-Proof	15 Amp	3-Phase 575V 60Hz	70 Lb. (32 kg)

Air Controls are Included with Model 456-A

Air Controls Include

- Filter, Regulator and Lubricator (FRL)
- On / Off Valve



Guard Enclosure Kits with Safety Interlock (sold separately)

Comply with OSHA Requirements with a Morse Guard Enclosure Kit (Sold Separately)

Guard Enclosures for Morse Hydra-Lift Drum Rollers have a safety interlock to automatically shut off the drum roller when the gate is opened. Open the enclosure gate, place your drum onto the drum roller, then close the gate to allow operation. Connections are included for air powered model only. Morse Control Packages (page 3) provide controls and connections for AC models.

All Morse Control Packages (see page 3) include a low-voltage transformer and wire terminals required to connect the external safety interlock switch of these Guard Enclosure Kits. Morse Control Packages and Enclosures meet OSHA regulations ONLY when installed properly with safety interlock.

Install all Morse Rotators in accordance with local requirements for enclosure and safety interlock, etc. One way to accomplish this is with a Morse enclosure with safety interlock, so the rotator automatically turns off when enclosure door is opened. Power connections and motor controls must also comply with applicable local codes.

For OSHA compliance in the USA, 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."

Guard Enclosure Kit #	Description	Gate Switch
GEK-456-1	Fits Hydra-Lift Drum Roller with 1-phase electric motor	AC
GEK-456-3	Fits Hydra-Lift Drum Roller with 3-phase electric motor	AC
GEK-456-E1	Fits Hydra-Lift Drum Roller with Explosion-proof 1-phase electric motor	AC
GEK-456-E3	Fits Hydra-Lift Drum Roller with Explosion-proof 3-phase electric motor	AC
GEK-456-A	Fits Hydra-Lift Drum Roller with Air motor	Air

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Guard Enclosure with safety interlock (shown with Drum Roller and Control Package each sold separately)

Outside Post-to-Post Dimensions of Enclosures

L88" x W40" x H63.205" (224 x 102 x 161 cm)

91.4 cm (36") WIDE DOOR OPENING
WITH KNOB BOTH SIDES

