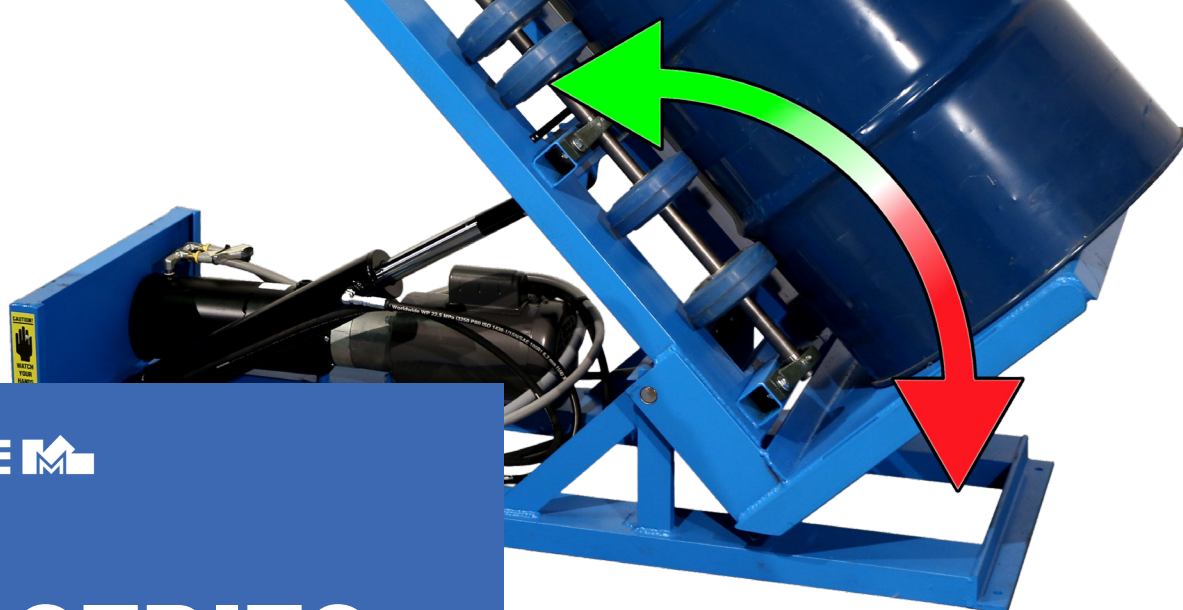




456 SERIES

SPECIFICATIONS SHEET

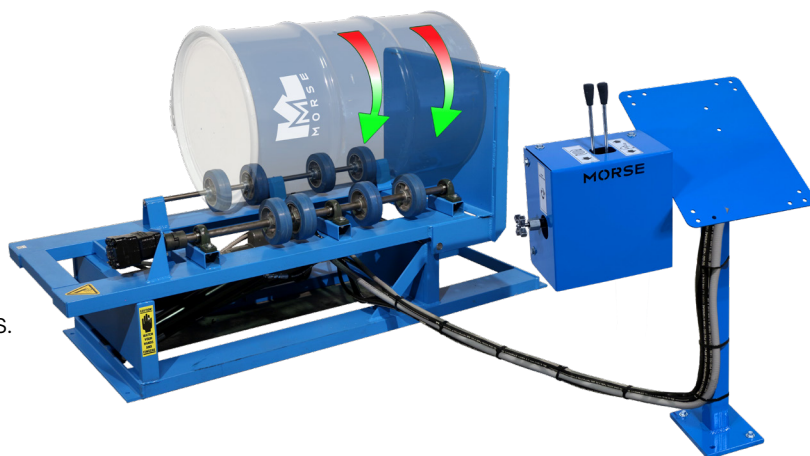


HYDRA-LIFT DRUM ROLLERS

Built-in Hydraulics Tilt Upright Drum to Horizontal Position

Mixing In Closed Drum Means Fewer Hazards

- Ergonomic power hydraulics tilt drum from upright over to rolling position
- Save time, labor and money... Mix inside closed drum
- Remix settled ingredients. Integrate new components.
- Eliminate transfer and clean-up
 - Use separate drum for each batch
 - No container to purge between batches
 - Nothing to insert into drum
- Drums make economical mixing vessels
- Maximum ambient operating temperature: 130° F (54° C)



Simply use a drum truck, like model **160** shown above, to load the drum onto the Hydra-Lift Drum Roller—an easy method for loading and unloading the drum.



Lift the drum using your hoist or crane along with the Below-the-Hook Drum Lifter – model **92** pictured.

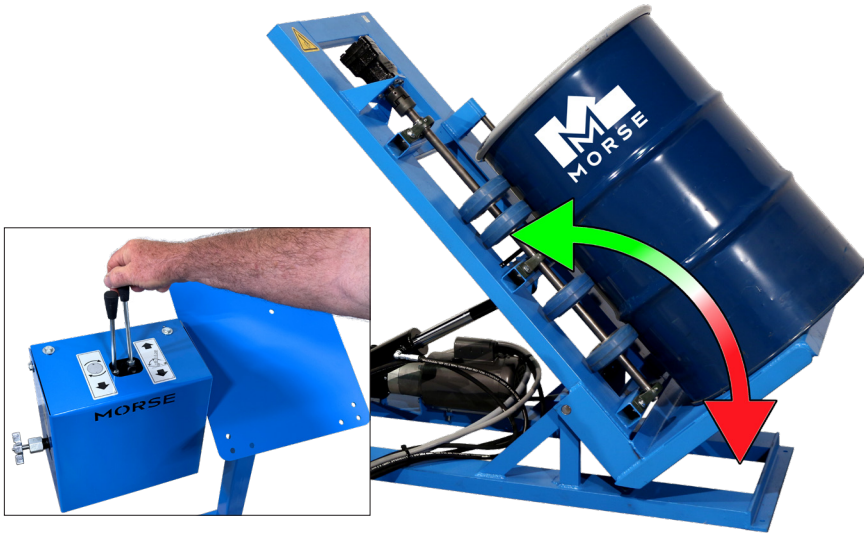
Load Upright Drum at Floor Level with Drum Truck or Crane



456 SERIES

Hydra-Lift Drum Rollers

SPECIFICATIONS SHEET



Built-in hydraulic system to tilt upright drum over to horizontal to roll

- 456 Series include Hydraulic Controls to tilt drum
- Electric Control Package and Safety Enclosure Kit each sold separately



Rotate a 55-gallon (210L) drum with a variable-speed hydraulic drive, adjustable from 5 to 17 RPM (4 to 14 RPM on 50Hz models).

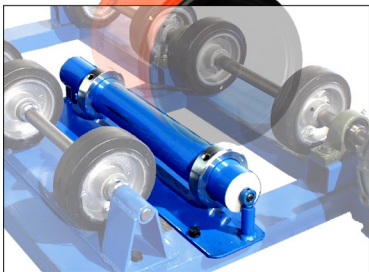
Hydra-Lift Drum Rollers can eliminate spills, splashing of dangerous contents on workers, and risk of contamination. Mix inside closed shipping drums and have the machine do the work of loading and unloading itself!

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 17 RPM, or 4 to 14 RPM on 50Hz models.
- Capacity: 1000 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

OPTIONS



Roll a 5-Gallon Pail

Kit 1-5-1

Bolt-on Idler Attachment to roll 1 to 5 gallon (3.8 to 18.9 liter) cylinder on Hydra-Lift Drum Roller. Spacers adjust for up to 18" (45.7 cm) tall pail. Roll 5-gallon can at approximately double RPM of a 55-gallon (210 liter) drum. Easily remove Idler to return to rolling a drum.



Roll a Plastic Drum

Option POLY-456

Factory Installed option REQUIRED to safely roll a plastic drum. Includes extra wheels to support flexible soft-sided plastic drum, and end stop to prevent drum from traveling length-ways. *This is a factory installed OPTION on a NEW Hydra-Lift Drum Roller. It is NOT a drum roller by itself.*

Kit POLY-456FI

Kit for CUSTOMER to install on EXISTING Hydra-Lift Drum Roller.

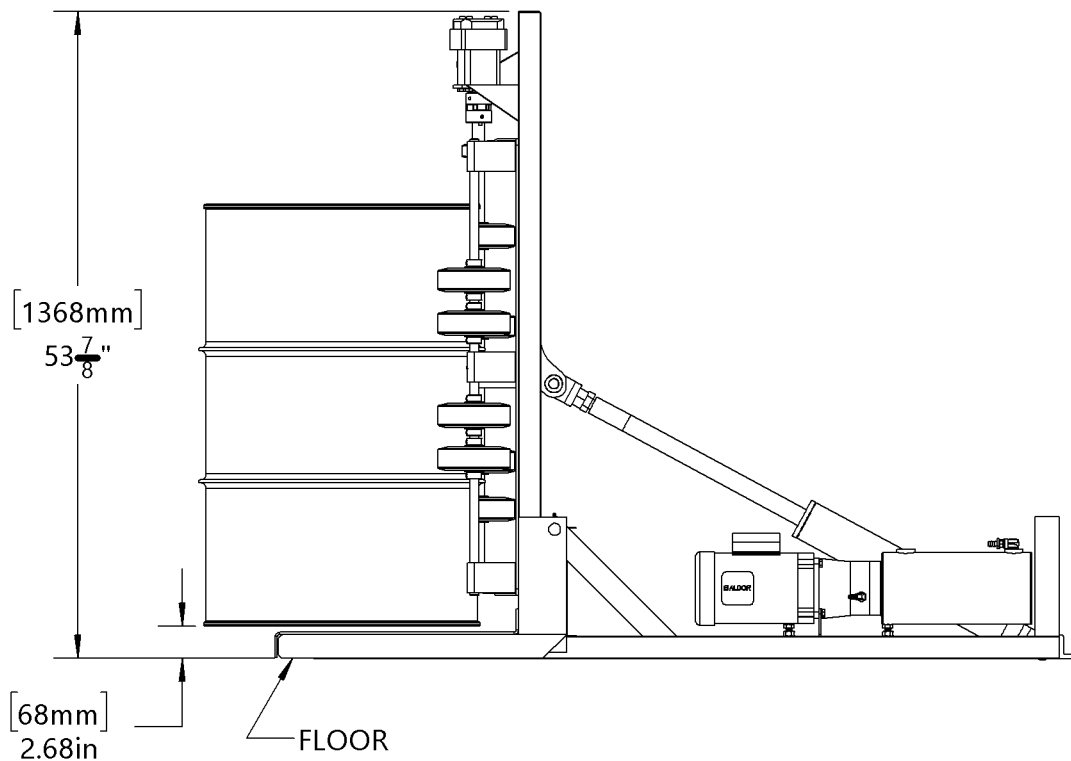
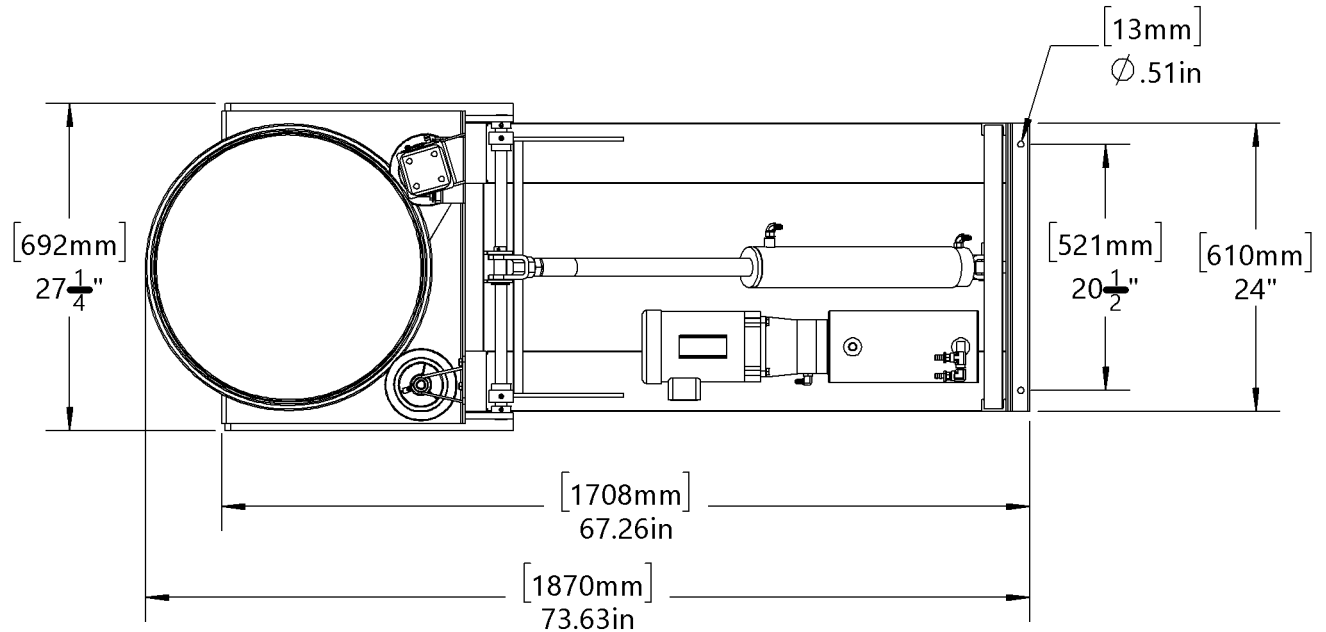


456 SERIES

Hydra-Lift Drum Rollers

SPECIFICATIONS SHEET

Loading Upright Drum



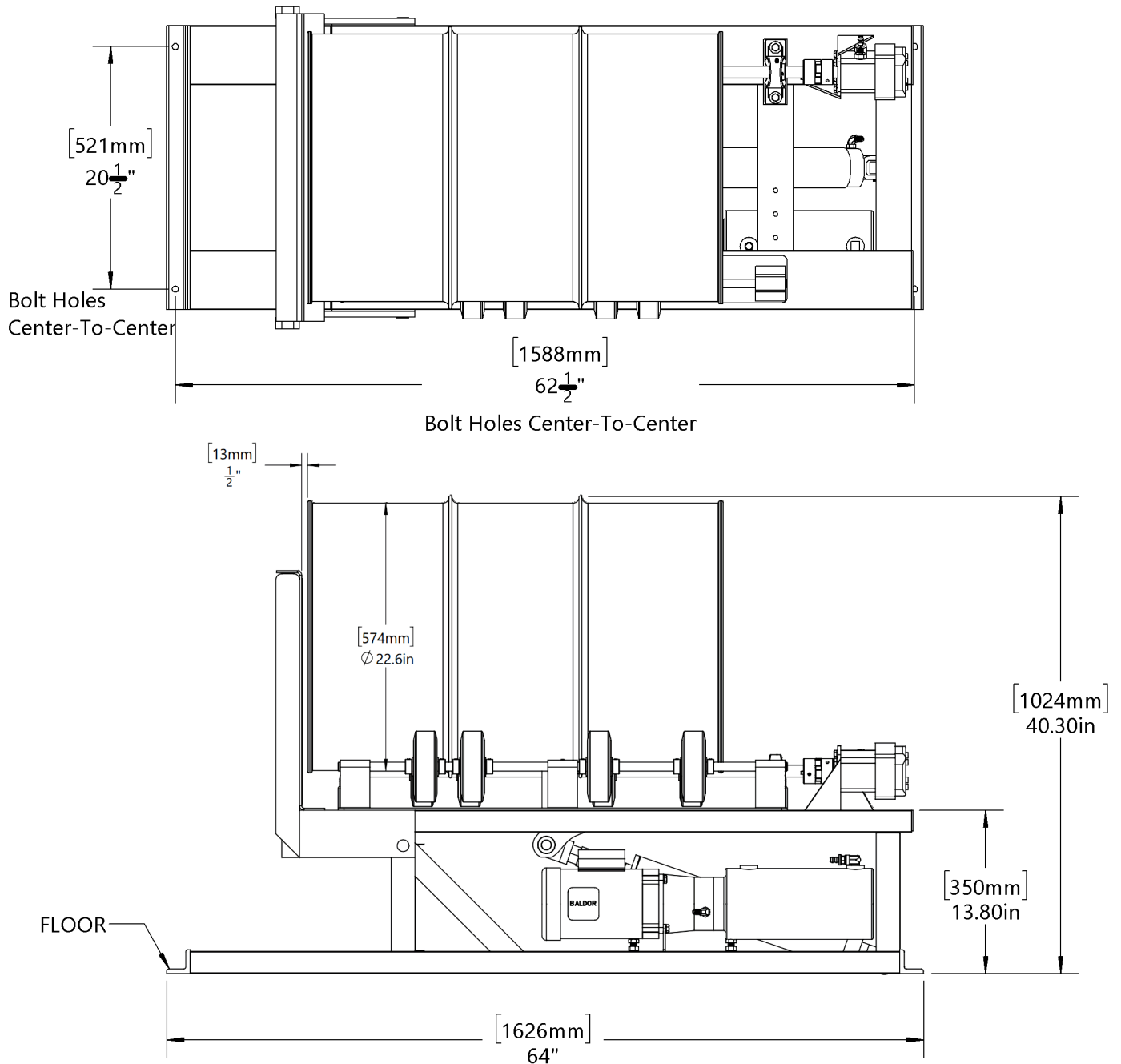


456 SERIES

Hydra-Lift Drum Rollers

SPECIFICATIONS SHEET

Drum in Rolling Position





456 SERIES

Hydra-Lift Drum Rollers

SPECIFICATIONS SHEET

HYDRA-LIFT DRUM ROLLERS							CONTROL PACKAGES SEE PAGE 6	GUARD ENCLOSURE KITS SEE PAGE 4
MODEL #	DRUM RPM (22.5" DIA.)	MOTOR INFORMATION						
		MOTOR STYLE	HP	PHASE	MOTOR VOLTAGE	AMP DRAW	OPTION #	OPTION #
456-1	5 to 17	60 Hz TEFC	1	1	115	12.8	CP-456-1-115 *	GEK-456-1
					208	7.0	CP-456-1-230 *	
					230	6.4		
456-1-50	4 to 14	50Hz TEFC	1	1	220	6.2	CP-456-1-220-50 *	GEK-456-1
456-3	5 to 17	60Hz TEFC	1	3	208	3.1	CP-456-3-230 *	GEK-456-3
					230	3.0		
					460	1.5	CP-456-3-460 *	
456-3-50	4 to 14	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 17	60Hz TEFC	1	3	575	1.2	CP-456-3-575 *	GEK-456-3
456-E1	5 to 17	60Hz Explosion proof **	1	1	115	13	CP-456-E1-115 *	GEK-456-E1
					208	6.7	CP-456-E1-208 *	
					230	6.5	CP-456-E1-230 *	
456-E1-50	4 to 14	50Hz Explosion proof [†]	1	1	220	6.2	CP-456-E1-220-50 *	GEK-456-E1
456-E3	5 to 17	60Hz Explosion proof **	1	3	208	3.1	CP-456-E3-208 *	GEK-456-E3
					230	3.0	CP-456-E3-230 *	
					460	1.5	CP-456-E3-460 *	
456-E3-50	4 to 14	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 17	60Hz Explosion proof **	1	3	575	1.2	CP-456-E3-575 *	GEK-456-E3
456-A	5 to 17	Air Motor ***	-	-	-	-	Air Controls are included with model 456-A ***	GEK-456-A

* 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.

† Model 456-E1-50 has explosion-proof motor rated for Class I Group D.

CRATES FOR EXPORT	
EXPORT CRATE #	DESCRIPTION
2848X-P	Fully Enclosed Crate for Export of ① Hydra-Lift Drum Roller, with or without ① Control Package
4463X-P	Fully Enclosed Crate for Export of ① Guard Enclosure Kit
5516X-P	Fully Enclosed Crate for Export of ① Hydra-Lift Drum Roller, ① Control Package and ① Guard Enclosure Kit



456 SERIES Hydra-Lift Drum Rollers SPECIFICATIONS SHEET

Air Controls are Included with Model 456-A

Air Controls Include: Filter, Regulator
and Lubricator (FRL), On / Off Valve



Control Packages (sold separately)

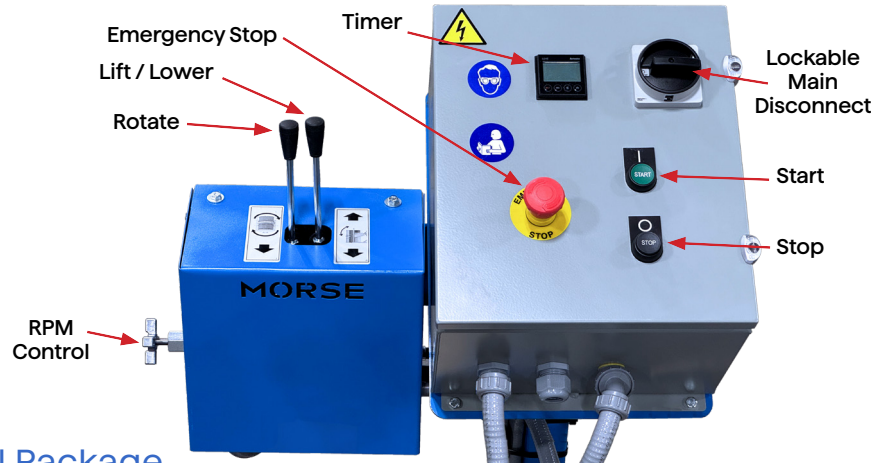
Select appropriate Control Package for each model and for your power supply. Use power controls to start and stop drum rolling. Control mast can be positioned outside Safety Enclosure on either left or right side, or at back of Drum Roller.

AC Control Package

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 unit
- Wire terminals for external connection of safety interlock switch



Explosion Proof AC Control Package

NEMA 7/9 for Hazardous Areas

Includes Control Box with:

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

CONTROL PACKAGE #	DESCRIPTION	MINIMUM POWER SUPPLY REQUIRED	POWER SUPPLY
CP-456-1-115 *	Control Package for 456-1	20 Amp	1-Phase 115V 60Hz
CP-456-1-230 *	Control Package for 456-1	15 Amp	1-Phase 230V 60Hz
CP-456-1-220-50	Control Package for 456-1-50	15 Amp	1-Phase 220V 50Hz
CP-456-3-230 *	Control Package for 456-3	15 Amp	3-Phase 230V 60Hz
CP-456-3-460 *	Control Package for 456-3	15 Amp	3-Phase 460V 60Hz
CP-456-3-230-50	Control Package for 456-3-50	15 Amp	3-Phase 230V 50Hz
CP-456-3-400-50	Control Package for 456-3-50	15 Amp	3-Phase 400V 50Hz
CP-456-3-575	Control Package for 456-3-575	15 Amp	3-Phase 575V 60Hz
CP-456-E1-115 *	Control Package for 456-E1, Explosion-Proof	20 Amp	1-Phase 115V 60Hz
CP-456-E1-208 *	Control Package for 456-E1, Explosion-Proof	15 Amp	1-Phase 208V 60Hz
CP-456-E1-230 *	Control Package for 456-E1, Explosion-Proof	15 Amp	1-Phase 230V 60Hz
CP-456-E1-220-50 *	Control Package for 456-E1-50, Explosion-Proof	15 Amp	1-Phase 220V 50Hz
CP-456-E3-208 *	Control Package for 456-E3, Explosion-Proof	15 Amp	3-Phase 208V 60Hz
CP-456-E3-230 *	Control Package for 456-E3, Explosion-Proof	15 Amp	3-Phase 230V 60Hz
CP-456-E3-230-50 *	Control Package for 456-E3-50, Explosion-Proof	15 Amp	3-Phase 230V 50Hz
CP-456-E3-460 *	Control Package for 456-E3, Explosion-Proof	15 Amp	3-Phase 460V 60Hz
CP-456-E3-400-50 *	Control Package for 456-E3-50, Explosion-Proof	15 Amp	3-Phase 400V 50Hz
CP-456-E3-575 *	Control Package for 456-E3-575, Explosion-Proof	15 Amp	3-Phase 575V 60Hz



456 SERIES

Hydra-Lift Drum Rollers

SPECIFICATIONS SHEET

Guard Enclosure Kits with Safety Interlock (sold separately)

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

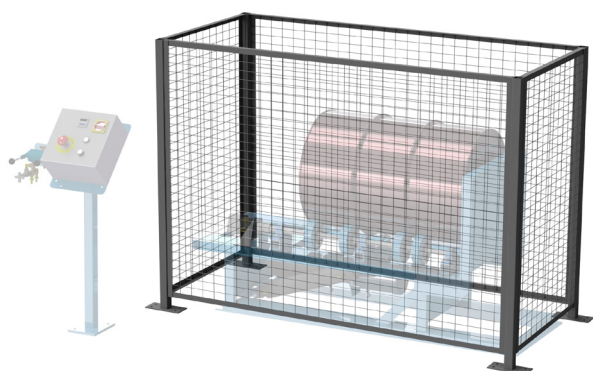
Guard Enclosures for Morse Hydra-Lift Drum Rollers have a safety interlock to automatically shut off the drum roller when the gate is opened. Open the enclosure gate, place your drum onto the drum roller, then close the gate to allow operation. Connections are included for air powered model only. Morse 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.

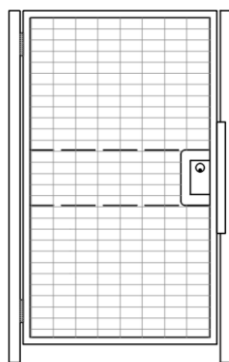
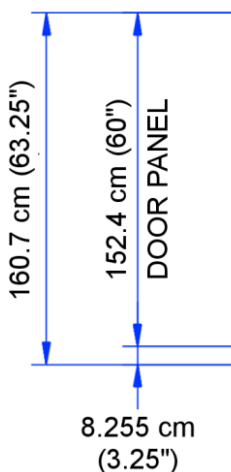
Install all Morse Rotators in accordance with local requirements for enclosure and safety interlock, etc. One way to accomplish this is with a Morse enclosure with safety interlock, so the rotator automatically turns off when enclosure door is opened. Power connections and motor controls must also comply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



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)

