

Single Stationary Drum Rollers

- Save time, labor and money
- Blend ingredients right inside a sealed drum
- Eliminate transfer, clean-up, special vessels
- Ensure Homogeneity
- Maximum ambient operating temp: 140° F (60° C)

Variable Speed Control Packages Available for Model 1-5154-3

Rotate drums at any speed from 1 to 30 RPM. Find the best speed for each material. Some use high speed for initial mixing and low speed for prolonged agitation. Variable speed drum rollers are ideal for experimental use or where there is a variety of materials to be handled.

Variable speed packages are not available for explosion-proof drum rollers.

Capacity: Liquid load: 1000 Lb. (455 kg)
Dry Load: 300 Lb. (136 kg) at 20 RPM

A shifting dry load exerts greater stress on the drum roller than the fluid motion of a liquid load.

Fixed Speed Drum Rollers

Designed to rotate one drum at factory fixed drum speed of 20 RPM (16 RPM for 50Hz models), based on 22.5" (57 cm) diameter drum. Drum rolling speed of 20 RPM is good for most liquids... often used for paint, etc.

Capacity: Liquid load: 1000 Lb. (455 kg)
Dry load: 300 Lb. (136 kg)

ROTATE VARIOUS DRUM SIZES: Designed to roll a steel drum 6" to 28" (15 to 71 cm) diameter and up to 40" (102 cm) long.

The idler wheel assembly can be moved closer to the drive shaft for various drum diameters. Set screws at each wheel permit easy repositioning to support various length drums.

A powerful 1/2 HP motor drives an efficient worm gear reducer connected to a solid 1" (2.54 cm) diameter shaft to turn four 6" (15.2 cm) diameter neoprene drive wheels. The four idler wheels turn freely on roller bearings.

The basic motor is a three phase, 230/460V, 60Hz, inverter duty motor. Explosion-Proof and air motors are also available. **Motor controls are not included with the basic machines.** Standard Stationary Drum Rollers are shipped without control, cord and plug and must be installed by an electrician according to local codes and customer's preference.

Morse Control Packages sold separately - page 3.

Morse Guard Enclosure Kits with Safety Interlock sold separately - page 4.

Grounding Strap: Spring steel grounding straps are standard to help drain possible static charge from drum.

Base Dimensions: 24" x 58" (61 x 147 cm)



Model 1-5154-3 shown
rolls one drum



Stainless Steel Drum Rollers

Frame made of bead blast finished type 304 stainless steel. Welds NOT ground smooth or polished. Motor, gear box, coupling and bearings NOT stainless steel.

OSHA Requires Enclosure with Safety Interlock (pg. 4)

Loading Methods



Get a drum horizontal with Morse [model 160 Drum Truck](#). Then lift it with [model 41 Drum Lifting Hook](#).



[Omni-Lift Drum Racker](#) may also be used to place a steel drum onto your single drum roller.

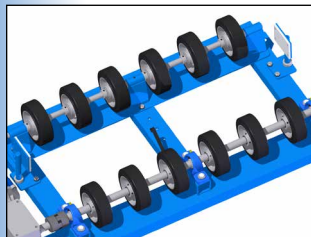


Load with a [MORStak Drum Racker](#)

Options

ROLL A PLASTIC DRUM

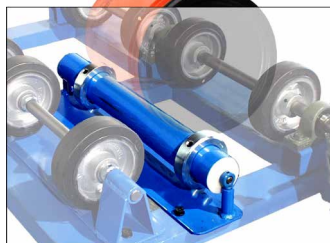
Option # POLY-1-5154 Factory Installed



Kit # POLY-1-5154FI for you to install

Install this option to roll a plastic drum on stationary drum roller. Includes extra wheels to support flexible soft-sided plastic drum, and end stop to prevent drum from traveling lengthways.

NOTE: This is **NOT** a drum roller by itself. It is an **OPTION** to install on a Morse Drum Roller.



ROLL A 5-GALLON PAIL Option # 1-5-1

Idler Attachment to facilitate rolling 1 to 5 gallon size (3.8 to 18.9 liters) cylindrical cans or pails. Rolls a 5-gallon can at approximately double the RPM of a 55-gallon drum. It is easily removed to return to rolling drums.



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Stationary 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			
1-5154-1	20	60Hz TEFC	1/2	1	115	7.4	5998-P	- Fixed Speed -	GEK-1-5154-1
1-5154SS-1					208	4.3	5999-P		
					230	3.7			
					115	7.4	5998SS-P		
					208	4.3			
					230	3.7	5999SS-P		
1-5154-3	20 RPM or Add Morse Control Package for 1 to 30 RPM Variable Speed	60Hz Inverter duty	1/2	3	230	1.6	CP-1-5154-1-115 *	- Variable Speed -	GEK-1-5154-3
1-5154SS-3					230	1.6	CP-1-5154-1-230 *		
					230	1.6	CP-1-5154-3-230 *		
					460	0.8	CP-1-5154-3-460 *		
					230	1.6	CP-1-5154SS-1-115 *		
					230	1.6	CP-1-5154SS-1-230 *		
					230	1.6	CP-1-5154SS-3-230 *		
					460	0.8	CP-1-5154SS-3-460 *		
1-5154-E1	20	60Hz Explosion proof **	1/2	1	115	7.4	CP-1-5154-E1-115 *	- Fixed Speed -	GEK-1-5154-E1
1-5154SS-E1					208	3.9	CP-1-5154-E1-208 *		
					230	3.7	CP-1-5154-E1-230 *		
					115	7.4	CP-1-5154SS-E1-115 *		
					208	3.9	CP-1-5154SS-E1-208 *		
					230	3.7	CP-1-5154SS-E1-230 *		
1-5154-E1-50	16	50Hz Explosion proof **	1/2	1	220	3.6	CP-1-5154-E1-220-50 *	- Fixed Speed -	GEK-1-5154-E1
1-5154SS-E1-50					220	3.6	CP-1-5154SS-E1-220-50 *		
1-5154-E3	20	60Hz Explosion proof **	1/2	3	208	2.1	CP-1-5154-E3-208 *	- Fixed Speed -	GEK-1-5154-E3
1-5154SS-E3					230	2.0	CP-1-5154-E3-230 *		
					460	1.0	CP-1-5154-E3-460 *		
					208	2.1	CP-1-5154SS-E3-208 *		
					230	2.0	CP-1-5154SS-E3-230 *		
					460	1.0	CP-1-5154SS-E3-460 *		
1-5154-E3-50 1-5154SS-E3-50	16	50Hz Explosion proof **	1/2	3	230	1.7	CP-1-5154-E3-230-50 *	- Fixed Speed -	GEK-1-5154-E3
					400	1.0	CP-1-5154-E3-400-50 *		
1-5154-E3-575	20	60Hz Explosion proof **	1/2	3	575	0.7	CP-1-5154-E3-575 *	- Fixed Speed -	GEK-1-5154-E3
1-5154SS-E3-575					575	0.7	CP-1-5154SS-E3-575 *		
1-5154-A 1-5154SS-A	20 Vary with air flow & pressure	Air Motor ***	-	-	-	-	AIR Controls included ***		GEK-1-5154-A

Crates for Export	
Export Crate #	Description
2845X-P	Crate for Export of (1) Drum Roller
	Crate for Export of (1) Drum Roller and (1) Control Package
4463X-P	Crate for Export of (1) Guard Enclosure Kit

* **ONLY NON-Explosion Proof** AC Control Packages include a pre-wired control box. Models with 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. Variable speed models are NOT available for hazardous areas.

*** AIR Controls are included... Filter, Regulator, Lubricator and Valve are included with drum roller model 1-5154-A and 1-5154SS-A. Air powered model requires plant air at 20 to 40 psi and flowing at a rate of 22 scfm.

Control Packages (Sold Separately)

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- **Control Mast and the appropriate Control Box for each model**
- **Use power controls to start and stop drum rolling**
- **Position the control mast outside the Safety Enclosure on either the left or right side, or at the back of Drum Roller**

**Control Mast and AC Control Box
for Model 1-5154-1 or 2-5154-1
NEMA 4/12 for NON-Hazardous Areas**

Includes Control Mast and Control Box with:

- **Fixed Drum Rotation Speed at 20 RPM**
- 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
- Wire terminals for external connection of safety interlock switch



**Control Mast and AC Control Box
for Model 1-5154-3 or 2-5154-3
NEMA 4/12 for NON-Hazardous Areas**

Includes Control Box with:

- **Variable Speed Drum Rotation from 1 to 30 RPM**
- 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
- Wire terminals for external connection of safety interlock switch



**Control Mast and
Explosion Proof AC Control Box
NEMA 7/9 for Hazardous Areas**

**Includes Control Mast and Explosion-Proof
Control Box with:**

- **Fixed Drum Rotation Speed at 20 RPM (16 RPM on 50Hz models)**
- Start and Stop Buttons
- Wire terminals for external connection of safety interlock switch



**Control Mast and Air Controls are Included
with Model 1-5154-A**

Air Controls Include

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



1-5154 Series

Single Stationary Drum Rollers

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Control Package #	Description	Minimum Power Supply Required	Power Supply	Drum RPM (22.5" Dia.)	Drum Roller Capacity
5998-P	Control Package for 1-5154-1	15 Amp	1-Phase 115V 60Hz	20 RPM	Liquid Load: 1000 Lb. (455 kg) Dry Load: 300 Lb. (136 kg)
5998SS-P	Control Package for 1-5154SS-1	15 Amp	1-Phase 115V 60Hz		
5999-P	Control Package for 1-5154-1	10 Amp	1-Phase 230V 60Hz		
5999SS-P	Control Package for 1-5154SS-1	10 Amp	1-Phase 230V 60Hz		
CP-1-5154-1-115 *	Control Package for 1-5154-3	20 Amp	1-Phase 115V 60Hz	Variable Speed 1 to 30 RPM	Liquid Load: 1000 Lb. (455 kg) Dry Load : 300 Lb. (136 kg)
CP-1-5154SS-1-115 *	Control Package for 1-5154SS-3	20 Amp	1-Phase 115V 60Hz		
CP-1-5154-1-230 *	Control Package for 1-5154-3	15 Amp	1-Phase 230V 60Hz		
CP-1-5154SS-1-230 *	Control Package for 1-5154SS-3	15 Amp	1-Phase 230V 60Hz		
CP-1-5154-3-230 *	Control Package for 1-5154-3	15 Amp	3-Phase 230V 60Hz		
CP-1-5154SS-3-230 *	Control Package for 1-5154SS-3	15 Amp	3-Phase 230V 60Hz		
CP-1-5154-3-460 *	Control Package for 1-5154-3	10 Amp	3-Phase 460V 60Hz		
CP-1-5154SS-3-460 *	Control Package for 1-5154SS-3	10 Amp	3-Phase 460V 60Hz		
CP-1-5154-E1-115 *	Control Package for 1-5154-E1, Explosion-Proof	20 Amp	1-Phase 115V 60Hz	20 RPM	Liquid Load: 1000 Lb. (455 kg) Dry Load: 300 Lb. (136 kg)
CP-1-5154SS-E1-115 *	Control Package for 1-5154SS-E1, Explosion-Proof	20 Amp	1-Phase 115V 60Hz		
CP-1-5154-E1-208 *	Control Package for 1-5154-E1, Explosion-Proof	15 Amp	1-Phase 208V 60Hz		
CP-1-5154SS-E1-208 *	Control Package for 1-5154SS-E1, Explosion-Proof	15 Amp	1-Phase 208V 60Hz		
CP-1-5154-E1-230 *	Control Package for 1-5154-E1, Explosion-Proof	15 Amp	1-Phase 230V 60Hz		
CP-1-5154SS-E1-230 *	Control Package for 1-5154SS-E1, Explosion-Proof	15 Amp	1-Phase 230V 60Hz		
CP-1-5154-E3-208 *	Control Package for 1-5154-E3, Explosion-Proof	15 Amp	3-Phase 208V 60Hz		
CP-1-5154SS-E3-208 *	Control Package for 1-5154SS-E3, Explosion-Proof	15 Amp	3-Phase 208V 60Hz		
CP-1-5154-E3-230 *	Control Package for 1-5154-E3, Explosion-Proof	15 Amp	3-Phase 230V 60Hz		
CP-1-5154SS-E3-230 *	Control Package for 1-5154SS-E3, Explosion-Proof	15 Amp	3-Phase 230V 60Hz		
CP-1-5154-E3-575 *	Control Package for 1-5154-E3-575, Explosion-Proof	10 Amp	3-Phase 575V 60Hz		
CP-1-5154SS-E3-575 *	Control Package for 1-5154SS-E3-575, Explosion-Proof	10 Amp	3-Phase 575V 60Hz		
CP-1-5154-E1-220-50 *	Control Package for 1-5154-E1-50, Explosion-Proof	15 Amp	1-Phase 220V 50Hz	16 RPM	
CP-1-5154SS-E1-220-50 *	Control Package for 1-5154SS-E1-50, Explosion-Proof	15 Amp	1-Phase 220V 50Hz		
CP-1-5154-E3-230-50 *	Control Package for 1-5154-E3-50, Explosion-Proof	15 Amp	3-Phase 230V 50Hz		
CP-1-5154-E3-230-50 *	Control Package for 1-5154-E3-50, Explosion-Proof	15 Amp	3-Phase 230V 50Hz		

Guard Enclosure Kits with Safety Interlock (Sold Separately)

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

Guard Enclosures for Morse Stationary 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. Control Package options provide controls and connections for AC models.

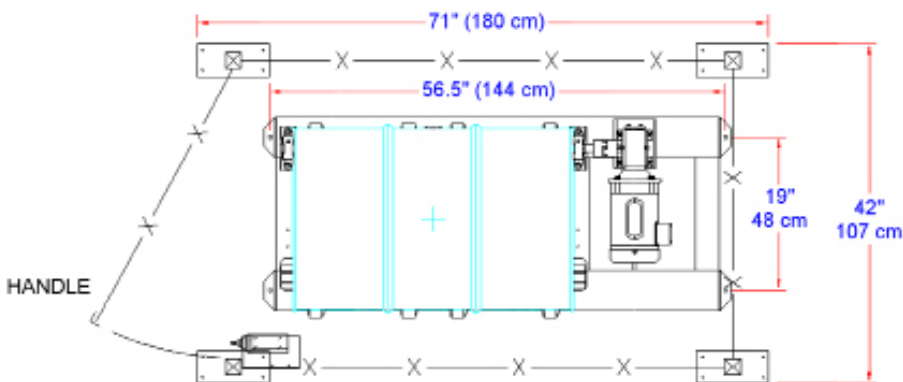
Install all Morse Rotators in accordance with local requirements for enclosure and safety interlock, etc. One way to accomplish this is with a Morse enclosure with safety interlock, so the rotator automatically turns off when enclosure

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."

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.

Guard Enclosure Kit #	Description	Gate Switch
GEK-1-5154-1	Fits Single Stationary Drum Roller with 1-phase electric motor	AC
GEK-1-5154-3	Fits Single Stationary Drum Roller with 3-phase electric motor	AC
GEK-1-5154-E1	Fits Single Stationary Drum Roller with Explosion-proof 1-phase electric motor	AC
GEK-1-5154-E3	Fits Single Stationary Drum Roller with Explosion-proof 3-phase electric motor	AC
GEK-1-5154-A	Fits Single Stationary Drum Roller with Air motor	Air



Outside post-to-post Dimensions

L64" x W40" x H63.25" (163 x 102 x 161 cm)

