

# TQ Review

Formerly known as "Jacks Journal"



from Trans-Quip Inc.

## Joyce/Dayton Releases New Line of Electric Cylinders



*Standard, Motor Mount and ComDRIVE®  
Electric Cylinders*

Joyce/Dayton, the premier manufacturer of screw jacks, actuators and speed reduction equipment, recently announced the release of a new line of electrically operated cylinders.

Joyce/Dayton Electric Cylinders are designed for use in industrial environments where protection of the lifting screw mechanism is essential and low maintenance is desirable. Requiring the mere support of electric power, Joyce® Electric Cylinders can be used in place of hydraulic cylinders, eliminating the cost and potential leaks associated with hydraulic systems.

Joyce offers three Electric Cylinder models: Standard, Motor Mount and ComDRIVE®, which utilize the same drive housings presently offered with the rugged Acme (machine) Screw and Ball Screw Jacks.

### Standard

The Joyce Standard Electric Cylinder is intended for applications where the customer provides their own drive motor and coupling. This design can also be used where one or more Electric Cylinders are being

driven by one common drive motor or in combination with the Motor Mount or ComDRIVE models.

### Motor Mount

Joyce Motor Mount Electric Cylinders are intended for higher-speed applications. Motor Mount models can be used in conjunction with the Standard Electric Cylinder.

### ComDRIVE®

ComDRIVE models include a right angle gear motor mounted to the right or left hand side of the standard model. ComDRIVEs are intended for applications requiring heavy lifting capacities at speeds up to 34 inches per minute (acme screw) and 104 IPM (ball screw). ComDRIVE models can be used in conjunction with one or more of the standard models.

All Joyce Electric Cylinders incorporate the following features and benefits:

- Ground and hard-chrome plated inner cylinder tube resists harsh contaminants while providing smooth cylinder translation
- Dual lip tube seals retain lubrication while preventing dirt and grime from entering the internal cavity and contaminating the lifting screw
- Durable enamel coated exterior surfaces
- Rigid cylinder tube guide bearings provide resistance to buckling
- Heat treated alloy steel input shafts riding on tapered roller bearings provide proper worm-gear alignment for increase service life
- Spring-loaded input shaft seals prevent the loss of lubrication
- Aluminum-bronze worm-gear rides on high quality tapered roller or ball thrust bearings.

For more detailed model information, please visit [www.trans-quip.com/products/electric\\_cylinders.html](http://www.trans-quip.com/products/electric_cylinders.html) or, contact Robert Mussell at 1-866-261-0251/905-945-4480 or via email at [info@trans-quip.com](mailto:info@trans-quip.com).

# FEATURED APPLICATIONS

## PalletPal® Mobile Pallet Truck Used to Move Gondolas

HOCO Entertainment and Resorts located in Niagara Falls, ON is a leading edge tourism company which owns and operates many hotels, restaurants and other attractions in the area. HOCO recently constructed a new feature attraction: a 175' diameter ferris wheel located in the center of Clifton Hill, complete with climate-controlled gondolas.



The company approached Trans-Quip Inc. to provide the construction team with a solution for the installation and maintenance of the gondolas for the ferris wheel. Trans-Quip determined that the PalletPal® PT-33-E mobile pallet truck would be



appropriate for their requirements. With a capacity of 3,300 lbs., the PT-33-E was chosen for the low height of 3 1/2" so that the forks can be inserted under each gondola

to lift it onto or down from the wheel. As well, the pallet truck can easily transport the gondola if required.

### PalletPal® SPECIFICATIONS:

Model: PT-33-E

Capacity: 3,300 lbs. max

Low Height: 3 1/2" Raised Height: 31 1/2"

Fork Length: 48" Fork Width: 21 1/4" or 27"

*A special thanks to HOCO and Cooper Standard for allowing us to feature their stories.*

## Custom Bellow Protects Component

Cooper Standard Ltd. of Mitchell, ON, is a tier 2 manufacturer of molded EPDM (ethylene propylene diene monomer) rubber products for the automotive industry. The company was experiencing difficulties with their injection moulding machines and turned to Trans-Quip Inc. for a solution. An arm on the machine was rubbing against a vital component causing it to wear down quickly.



Trans-Quip provided a very low-cost but effective answer. A specially designed bellow "cap" was

produced from 16 oz VNP material to cover the top of the component thus prolonging the wear. The bellow comes complete with 1/16" backup flange.

## Joyce/Dayton O&M Manuals Now Available Online

Operation and Maintenance Manuals for selected Joyce/Dayton products are now available at [www.trans-quip.com/literature/products.html](http://www.trans-quip.com/literature/products.html).

Currently, O&M Manuals for can be downloaded in Adobe Acrobat pdf format for any of the following products:

- Machine Screw Jacks
- Machine Screw ComDrive
- Ball Screw Jacks
- Metric Screw Jacks
- Bevel Gear Jacks
- Bevel Ball Jacks
- Miter Gear Box
- Limit Switch LS8 402
- Limit Switch LS8 404

Joyce is planning on adding manuals for their entire product line, including Linear Actuators, in the future.



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