



Trans-Quip Inc.'s Jacks Journal

September 2004

Introducing New Joyce Linear Actuators

Joyce / Dayton has launched yet another addition to their extensive line of linear actuators and accessories. The newest heavy-duty actuator additions include both motorized and integrated linear models in machine and ball screw designs.

Joyce Motorized Actuators are available in both 500 and 1,500 lb. capacities and 115-volt AC or 12-volt DC designs. The 500 lb. actuators are available in 3", 6", 12", and 18" travels and speeds up to 42 inches per minute (AC models) and 70 IPM (DC models). The 1,500 lb. actuators come in 3", 6", 12", 18" and 24" travels and speeds up to 52 IPM (AC models) and 36 IPM (DC models). Both the AC and DC models offer a limit switch for positive travel limits. Additionally, the DC models offer a free running clutch over-travel option. All motors have thermal overload protection and can operate up to 104° F. Joyce motorized actuators incorporate a bi-directional spring type brake and state of the art gearing for quiet operation and long service life. All AC models have been designed with heavy-duty capacitors for unmatched reliability in high stop-start applications. Additional features include a limit switch / potentiometer option for applications requiring position feedback.

Joyce Integrated Actuators are worm gear driven designs that incorporate an integrated NEMA 56C motor flange for easy motor adaptation. Versatile Integrated Actuators are

offered in both machine and ball screw models for maximum design flexibility. Four Integrated Actuator models are available including two traveling nut (rotating screw) models and two translating stainless steel tube models.

Integrated Actuators are available in capacities up to 2,000 lbs. and Joyce will provide standard AC, DC, or air motors at the customer's request. Joyce Integrated Actuators come in your choice of 5:1 and 20:1 worm gear ratios for speeds from 14 to 345 inches per minute. Standard Integrated Actuators are available in travel lengths up to 24" and come equipped with an output shaft, which can be used to couple two actuators for synchronous operation. Joyce also offers optional clevis and limit switch mounting options.



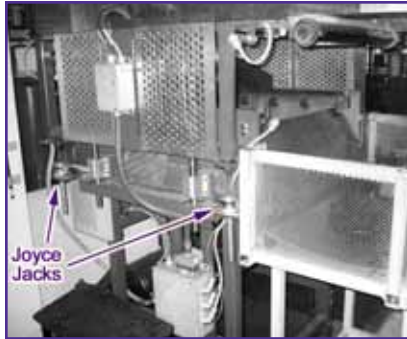
All Joyce Motorized and Integrated Actuators are designed for long service life and have been tested at full capacity for thousands of cycles to ensure trouble free operation. The lifting mechanisms consist of either a high tensile aluminum-bronze lifting nut or heat-treated ball nut connected to a heavy wall stainless steel lifting tube. The actuator housings are cast from rugged yet lightweight aluminum and include a cast mounting clevis or clevis option.

For detailed model information please contact Trans-Quip Inc. or download the information from our website. www.trans-quip.com

Featured Application

Jacks Used to Adapt Table to Receive Moulds of Various Sizes

Goodyear Canada, located in Quebec City, manufactures a variety of moulded rubber components for the automotive industry. When the company took on new contracts for moulded rubber goods for several new vehicles, they were faced with a material handling problem in the heating machine area: Goodyear's existing stationary receiving table, designed to receive a single size of mould for a single type of vehicle, needed to be redesigned to accommodate moulds of various sizes.



This particular receiving table catches each mould as it is ejected from the heating machine and presents it to a second machine for the rubber products to be extracted. Rather than purchasing new equipment, the company consulted with Trans-Quip Inc. and opted to add four WJ250-6-UP-TZ Joyce machine screw jacks to their receiving table along with a small motor and other powertrain accessories. The screw jacks allow the platform to automatically rise and lower to accommodate the variety of mould sizes being processed — a successful and cost effective solution.

JACK SPECIFICATIONS:

Model: WJ250-6-UP-TZ

Capacity: 250 lb.

Ratio: 5:1 Rise: 6"

Screw Type: Machine

A special thanks to Goodyear Canada in Quebec City for allowing us to feature them in this case study!

Q & A

Q: I received my screw jack order and it isn't what I require for my application. What should I do?

A: Everyone makes mistakes. Whether we have shipped the wrong unit or you have selected the wrong jack model, we'll do our utmost to help make your project a success. **If the error is yours**, returns are possible in most cases with a 25% restocking fee applied to your account. When jacks have been special-ordered or customized, a return may not be possible. If you need a different model, please issue us a corrected Purchase Order as soon as possible so that we can get the correct unit(s) to you. **If the mistake is ours**, the bottom line is that we will fix things as quickly as possible at no additional cost to you.

Regardless of the source of the error, please be sure to contact us for a Returned Goods Authorization (RGA) before returning any order. Account credits will be issued for all returned jacks with RGAs.

Q: I have another brand of screw jack and am having trouble getting repair parts. Are Joyce Dayton screw jack parts interchangeable?

A: Although screw jack components may be similar in appearance, Joyce Dayton and Trans-Quip strongly advise against this practice. We will not knowingly sell parts for use as repair / replacement parts for other screw jack brands. We are, however, happy to supply complete screw jacks as replacements for other brands.

We've Moved!

We're pleased to announce that we have moved to better facilities just around the corner from our old office. Our new address is located at the bottom of this newsletter. Phone and fax numbers remain the same.



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