

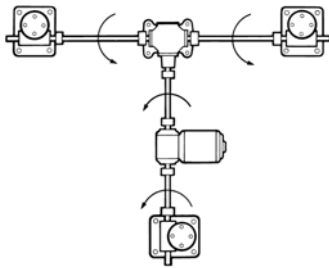


Trans-Quip Inc.'s Jacks Journal

October 2005

Complete Powertrain Systems - "One Stop Shopping"

Joyce/Dayton Corp., known throughout the industry for its custom design expertise, offers "one-stop-shopping" with its complete line of powertrain components. By combining Joyce jacks with miter boxes, couplings, and shafting, you can configure a number of jack systems to suit your application. Because jacks



T System

selected for such systems have uniform lifting speeds and are fully synchronized, unevenly distributed loads can be raised, lowered and positioned in unison. Jacks of differing capacities may be used in the same

system as long as driven shaft turns per 1" of travel are the same.

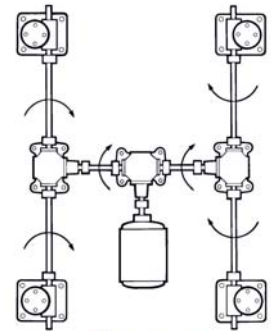
Joyce ComDRIVES motorized jack/actuators are particularly effective in multiple jack systems. Because ComDRIVE combines motor, jack and reducer into a single unit, the number of gear boxes, shafts and couplings in most arrangements can be reduced. A key benefit of using ComDRIVES in jack systems is lower installation costs since the only mounting that is required is one plate for the jack body.



I System
Features ComDRIVE®

Joyce miter gear boxes are specifically engineered for use with Joyce jacks and actuators in multiple jacking systems. Miter gear boxes used in such systems effectively transfer drive to unevenly distributed loads.

A full line of flexible couplings, as well as shafting, match perfectly with Joyce jacks to meet a wide range of system requirements.



H System

Trans-Quip Inc. is available to assist you in configuring the right system for your lifting, positioning or holding requirements. Contact us at 1-866-261-0251 / 905-945-4480 or email us at info@trans-quip.com with any questions you may have.

Featured Application SERAPID Rigid Chain used as Actuators for Lift Tables

A major automotive plant in Windsor, Ontario discovered the benefits of using a SERAPID Rigid Chain actuator instead of pneumatic actuation on scissor lift tables. Two pneumatic lifts had been installed several years earlier as part of a pallet conveyor transfer system. Over time, the pneumatic actuators began to lose pressure whenever they were not in use between



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shifts. This loss of pressure left the tables at a lower elevation than was required to match the surrounding conveyors. As a result, pallets became stuck causing serious downtime on the line.

Dual SERAPID HD Lift 60 actuators were selected to replace the pneumatics on the two lifts. Loss of elevation worries were eliminated due to the mechanical nature of the rigid chain actuator and positioning accuracy was increased allowing for the continuous smooth conveyance of the pallets. Considerable time and cost savings relating to both maintenance and downtime were key factors in the client's decision to replace the original pneumatic units with SERAPID rigid chain lifts.



SERAPID SPECIFICATIONS:

Model: HD Lift 60

Capacity: 4,000 lbs.

Cycles: 1.5 cycles per minute

Rise Time: 24 fpm Vertical Travel: 23.5"

Q & A

Q: I want to lift a 10,000 lb. load a distance of 31 inches. This load is a compression load. Why does the jacks Software choose a 10 Ton Jack when I'm only lifting 5 Tons?

A: Although you are lifting 5 Tons, the Jacks Software takes into consideration a number of factors. The program selected the 10 Ton jack due to the slender column supporting the load. A 5 Ton jack has a 1-1/2" dia. screw supporting the load where a 10 Ton jack has a 2" dia. screw supporting the load.

Q: What is a Keyed For Traveling Nut (KFTN) screw jack?

A: A keyed for traveling nut jack (sometimes referred to as a rotating screw jack) features a lifting screw keyed to the worm gear as a single unit, forcing the lifting screw to rotate, but not translate. A flanged traveling nut, attached to the load, is driven by the rotation of the lifting screw. This type of jack is ideal for applications that cannot accommodate a screw protection tube or require a flush mount. Refer to the keyed for traveling nut dimensional drawing for each jack model. You can view a keyed for traveling nut jack in the Engineering Overview - Jack Designs on the Jack Designs page.

FREE CATALOGUE



The new Joyce/Dayton 156-page Jacks & Actuators catalogue is now available. In addition to complete engineering data and ordering information, the catalogue includes new products, such as Joyce Ball Screw ComDRIVE® and Linear Actuators. The catalogue also features new accessories, such as Trunnions, Handwheels, Counters and Geared Potentiometers.

The catalogue is free and is available upon request. Please call us at 1-866-261-0251 / 905-945-4480 or email us at info@trans-quip.com.



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