

# Trans-Quip Inc.'s Jacks Journal

June 2002

## New and Improved Website Launched

Trans-Quip Inc. is proud to announce the launch of its new website. Trans-Quip Inc. serves as the Canadian Master Distributor of Joyce/Dayton brand linear actuation products. Previously housed within the Handling Specialty website ([www.handling.com](http://www.handling.com)), this product line now has its own independent website at [www.trans-quip.com](http://www.trans-quip.com) with plenty of detailed information.

Of particular interest to visitors will be the **Products** area which contains detailed information on all product offerings plus excerpts from the Joyce catalogue in Adobe Acrobat® PDF format. Featured products include screw jacks, miter gear boxes, speed reducers, and various linear actuation accessories.

Other significant features are the **Request For Quotation form**, which guides the visitor through the product specification process and the **Request for Information form**, which allows

visitors to request catalogs, CDs and other marketing literature.

Under the **Customer Service** area of the site, visitors can learn about Trans-Quip's in-house machine shop services, fast delivery times and technical support resources.

They will also be able to access **Frequently Asked Questions (FAQ)** lists – one with product-related questions and another with common questions about the company.



## New Ball Screws Added to Product Line-up

Joyce/Dayton Corporation recently announced the addition of four sizes of ball screw jacks to its standard line of products. The expansion includes a second model of the company's 10-ton unit, along with the addition of a 20-ton unit, a 30-ton unit and a 50-ton unit.

Joyce/Dayton ball screw jacks offer high efficiency with up to two-thirds less input torque required to move a load than similarly rated machine screw jacks. Unlike ordinary ball screw jacks, Joyce/Dayton's unique Timken bearing arrangement fully captures the gear, giving superior radial support for consistent work gear alignment, increased thrust capacity, longer gear life and reduced screw oscillation.

The redesigned 10-ton ball screw jack has a longer life ball nut and screw than the previous model. The new 10-ton ball screw jack provides superior column length and ballnut life when compared to the industry's typical 10-ton ball screw jack. These accomplishments are achieved thanks to a 2" diameter ball screw design, whereas the industry's typical 10-ton ball screw jack utilizes a 1.5" diameter ball screw.

Whether the application requires leveling log homes to lifting a ship out of dry-dock, Joyce/Dayton has the engineering experience and expertise to precisely lift and position loads from 250 pounds to 250 tons.



# New Metric Machine Screw Jacks

A new line of metric machine screw jacks has been introduced by Joyce/Dayton Corporation. The metric line includes models for 10, 25, 50 and 100 kilonewtons, which are roughly equivalent to 1, 2.5, 5 and 10 metric tonnes. All external dimensions are metric. Internally, screws and bearings are metric. These models should be useful especially for North American OEMs that serve European and other overseas customers.

## Joyce Metric Screw Jack Specifications

Model Number	MWJ 51 MWJ 201	MWJ 62.5 MWJ 122.5 MWJ 242.5	MWJ 65 MWH 125 MWJ 245	MWJ 810 MWJ 2410
Capacity	10 kN	25 kN	50 kN	100 kN
Screw Tr	20x5	30x6	40x9	55x12
Worm Gear Ratio	5:1 20:1	6:1 12:1 24:1	6:1 12:1 24:1	8:1 24:1
Worm Shaft Turns for 1mm	1 4	1 2 4	0.67 1.33 2.67	0.67 2
Maximum Power (kWatts) at Worm RPM	0.60 0.22	1.39 0.93 0.51	1.9 1.23 0.41	3.31 1.24
Operating Torque***(Nm) at Worm RPM	0.70 (W)* 0.23 (W)* At 500 RPM	0.81 (W)* 0.45 (W)* 0.27 (W)* At 500 RPM	1.14 (W)* 0.64 (W)* 0.39 (W)* At 300 RPM	1.18 (W)* 0.49 (W)* At 200 RPM
Screw Torque**(Nm)	2 (W)*	3 (W)*	4 (W)*	5 (W)*
Efficiency Rating % Approx.	22.7 17	19.6 17.8 14.7	20.9 18.7 15.2	20.2 16.1
Basic Jack Weight (Kg)	2.7	6.8	14.5	19.5
Add to Basic Jack Weight (Kg) for each additional 25mm of Travel	0.11	0.14	0.36	0.64

\* W = Load in kN    \*\*Screw Torque is the force required to keep the screw from rotating  
 \*\*\*Operating Torque for a given load increases as speed decreases



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