

TQ Review



from Trans-Quip Inc.

Mechanical Screw Jacks Replace Hydraulic Cylinders

SPECIFICATIONS

Model	Capacity	Ratio	Rise	Screw Type
WJT3250-30-UP-T4	50 Ton	32:1	30" travel	Machine Screw Jack with Boot

FEATURES

- Front and rear jacks move independently
- Screw jacks replaced hydraulic cylinders for safety reasons
- Virtually maintenance-free

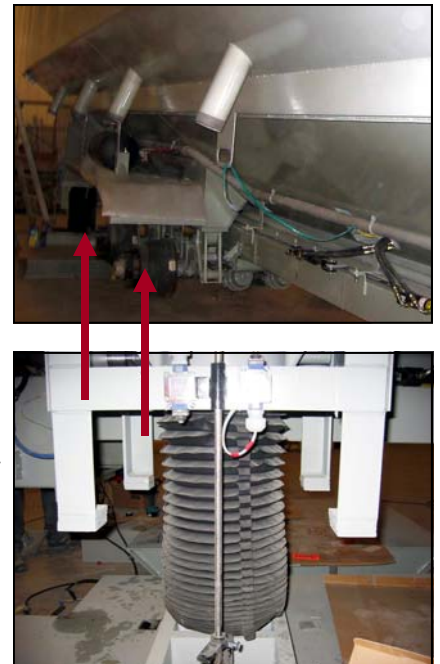
Manitoba based Convey-All Industries Inc. designs and manufactures a complete line of material handling conveyors to suit any need for transporting bulk products. One product in particular, the sand delivery trailer, is designed for sand-fracturing down-holes in old oil wells.

The trailer needed to be jacked up on an angle to allow a conveyor to run underneath the trailer so that the sand could be delivered to the mixer before being pressurized for the actual fracturing operation.

Originally using hydraulic cylinders, the design was altered with a safety upgrade by replacing the cylinders with screw jacks. Using four 50-ton Joyce® mechanical screw jacks (model WJT3250-30-UP-T4 Keyed with boot) the trailer can be raised and lowered to the appropriate level, as the front and rear screw jacks can be moved independently of one another. This allows the trailer to empty out the sand onto the conveyor safely and efficiently.

**A special thank-you to Convey-All Industries for allowing us to use their story.*

If you would like your application featured in the TQ Review please contact us at info@trans-quip.com



Q & A

Replacement Components

Q: Are encoders available for Joyce screw jacks?

A: Trans-Quip Inc. does supply encoders.

- Machine screw jack models between 2 and 150 ton capacity can also be equipped with an encoder to allow for accurate position sensing within increments of .001".
- The encoder combines with your control system to monitor screw travel, number of revolutions and travel limits.
- Joyce's shaft-mounted encoder offers easy installation, proven reliability and virtually maintenance-free operation.
- Included is a six-pin electrical connector, worm shaft coupling and mounting adapter.
- Standard encoders are 200 pulses per revolution.

As Canadian Master Distributor of Joyce/Dayton products, Trans-Quip Inc. can get you the replacement components you need.

You can also get advice on model substitutions for other jack brands, get a quote, learn more about jack modification services and get the engineering support you seek.

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Visit our new website www.trans-quip.com



Positioning Container Bins to Eliminate Excessive Bending

SPECIFICATIONS

Model	Capacity	Lowered Height	Raised Height
PalletPal® Fully Automatic Pneumatic-Actuated Level Loader (SW-APP)	4,500 lbs with as little as 80 psi	9 1/2"	30 1/2"

FEATURES

- ◆ A fully guarded, easily accessible air outlet and gauge
- ◆ A rugged lift table type frame for loads of up to 4,500 lbs

Summo Manufacturing is a leader in the North American market for seating and safety restraint tubular automotive components. On the production line, workers were feeling the strain when having to bend to place finished parts into container bins. Repeated bending can cause damage to a persons musculoskeletal system and Summo Manufacturing decided to find a solution to eliminate the need for bending.

Trans-Quip Inc. suggested the PalletPal Fully Automatic Pneumatic-Actuated Level Loader (SW-APP). Since Summo Manufacturing uses pneumatic air throughout the plant, the equipment was a perfect match. Adjusted via a valve according to the payload, the unit is raised to the desired height. A container is placed on the unit and parts are then added to the bin. When workers want to lower the unit they simply adjust the valve. The scissor set then lowers the container, eliminating the need for repetitive bending.

The PalletPal Pneumatic Level Loader is designed for use where pallet load weights vary widely and change frequently. The airbag spring combination provides virtually linear response, and the spring provides a measure of safety by supporting the unloaded turntable in the event of accidental air loss from the airbag. Fittings and tubing are simple with only two connections and the unit is equipped with fork pockets for easy relocation and provides a stable base that does not require lagging.



PalletPal Fully-Automatic Pneumatic-Actuated Level Loader

Other features include: a fully guarded, easily accessible air outlet and gauge, an air bag that is fully protected in the down position, a rugged lift table type frame for loads of up to 4,500 lbs and a low-friction, bearing supported turntable for near-side loading and unloading.

**A special thank-you to Summo Manufacturing for allowing us to use their story.*

Try-Buy Program

The PalletPal Mechanical Level Loader

Revolutionizing the way we load and unload pallets

Our TRY-BUY program enables you to try the PalletPal Mechanical Level Loader in your facility for up to two weeks without having to purchase.

We can have a demo unit in your facility in no-time. Contact our product specialist to make it happen.



Contact: **Jim Gibson**
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Q & A

Q: Does Trans-Quip Inc. carry any mobile pallet positioners?

A: Yes we do. The PalletPal Mobile Leveler performs multiple functions with one versatile machine. Use it by itself as a mobile pallet positioner or as the perfect companion to feed your other PalletPals. As a transporter it moves effortlessly throughout the plant. It's a lot less expensive than a ride on a fork lift and it doesn't require special training or certification to use.



For more information visit www.trans-quip.com



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