

Power Cylinder

Worm series

Thrust : 49kN to 294kN {5000kgf to 30000kgf}

Introducing the new LPWB Power Cylinder, the perfect replacement for hydraulic cylinders.

Tsubaki's Worm Series features our time-tested high efficiency ball screw and high precision worm gear.

It's the ideal replacement for hydraulic cylinders.

● Compact

An in-house manufactured high precision worm gear is used in the reducer. The integrated ball screw and gear supporting structure eliminate the need for a bracket and greatly reduces total unit length.

Uses clevises on both ends, which is the most widely used hydraulic cylinder mounting method.

● High load capacity

The special copper allows the LPWB Series to handle the same heavy loads as jacks.

The maximum load capacity is 50 tons in the high thrust zone (with higher loads being considered).

● Low cost

The simple structure vastly reduces the number of parts and keeps costs down.

● Quiet

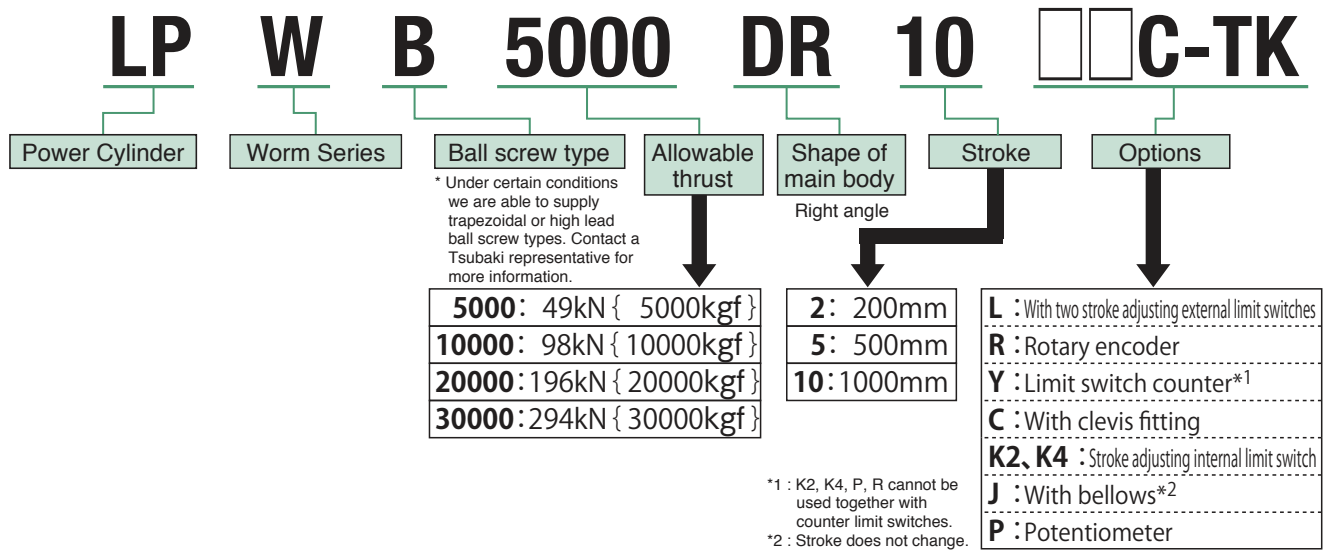
Replacing the helical gear with a worm gear reduces noise.

● Wide variety of options

C (clevis fittings) can be combined with Y, K2, K4, P, and R (position detecting units).



Model No. designation



Standard model list

Model No.	Allowable thrust kN {kgf}	Nominal speed 50/60Hz mm/s	Nominal stroke mm
LPWB5000	49 {5000}	12/14.4	200 to 1000
LPWB10000	98 {10000}	10/12	500 to 1500
LPWB20000	196 {20000}	12/14.4	500 to 2000
LPWB30000	294 {30000}	12/14.4	500 to 2000

*Above chart is for reference. Values are subject to change.

*We can supply models exceeding 294kN (30000kgf). Contact Tsubaki for more information.

Motor specifications

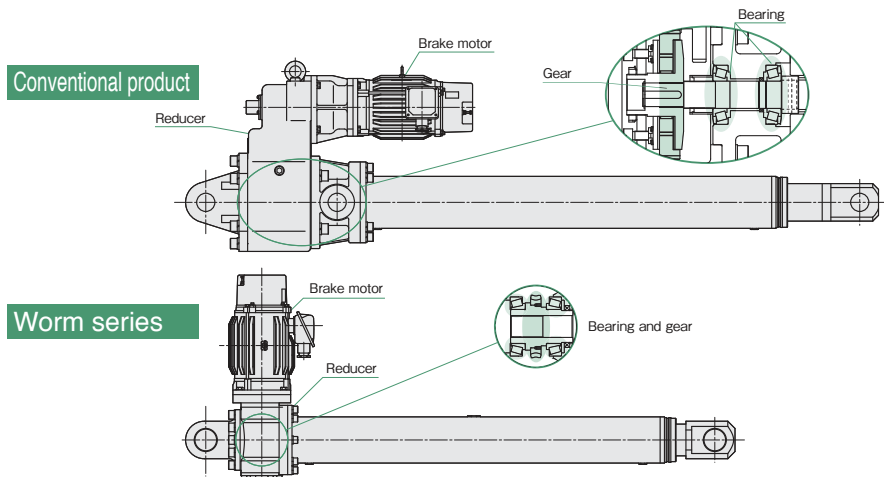
With nonexcitation-operated electromagnetic brake Three-phase induction motor IP55 equivalent

Construction

An in-house manufactured high precision worm gear is used in the reducer.

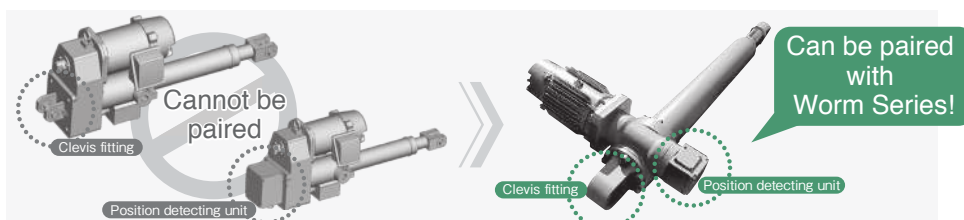
The integrated ball screw and gear supporting structure eliminate the need for a bracket and greatly reduces total unit length.

Uses clevises on both ends, which is the most widely used hydraulic cylinder mounting method.



Option

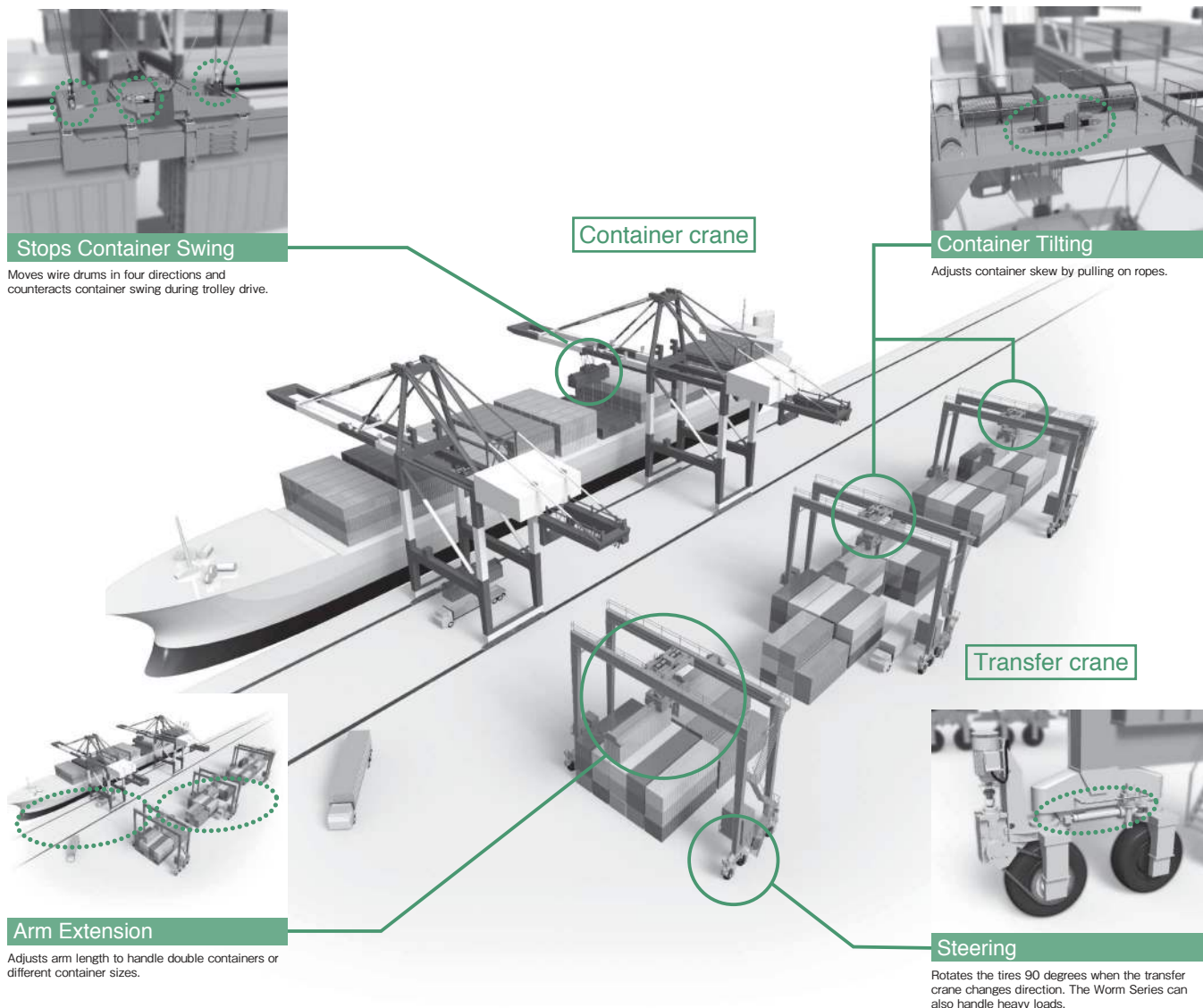
C (clevis fittings) can be combined with Y, K2, K4, P, and R (position detecting units).



Example of use

Shipping & Port Industries

Nowadays, in shipping and port industries worldwide, the promotion of energy savings and the prevention of marine pollution are driving the shift from hydraulic to electric hybrid or all electric cylinders.

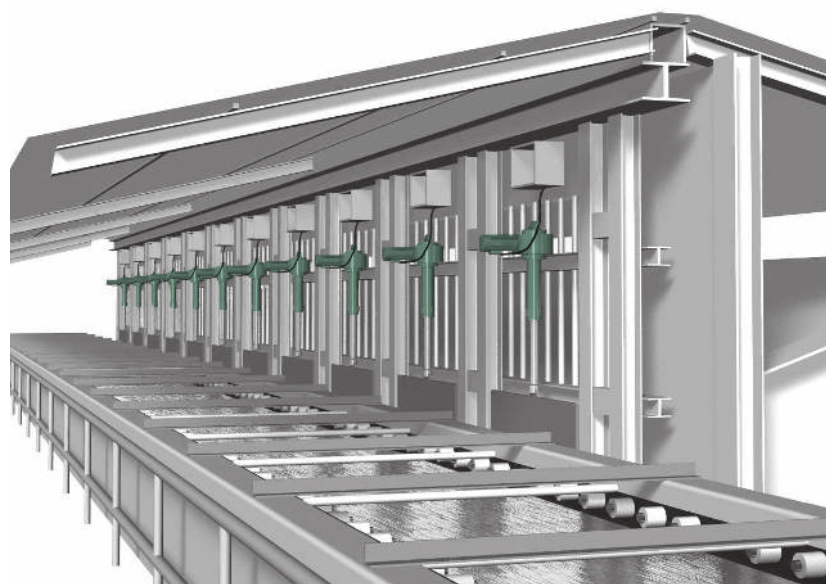


Palm Oil Mill

Loading ramp gate

Point

- **Low energy costs**
Can reduce standby power.
- **Clean**
Can prevent contamination of conveyed goods and peripheral equipment from oil leaks.
- **Simply handling**
Can reduce installation work hours.
- **Accurate speed and position control**
Helps maintain consistent quality.
- **Accurate load holding**
Brake motor ensures accurate load holding during power failures.



Example of use

■ Lifter

Elevates tables or workbenches.

Point

- Worm gear and brake motor ensure accurate load holding when stopped.

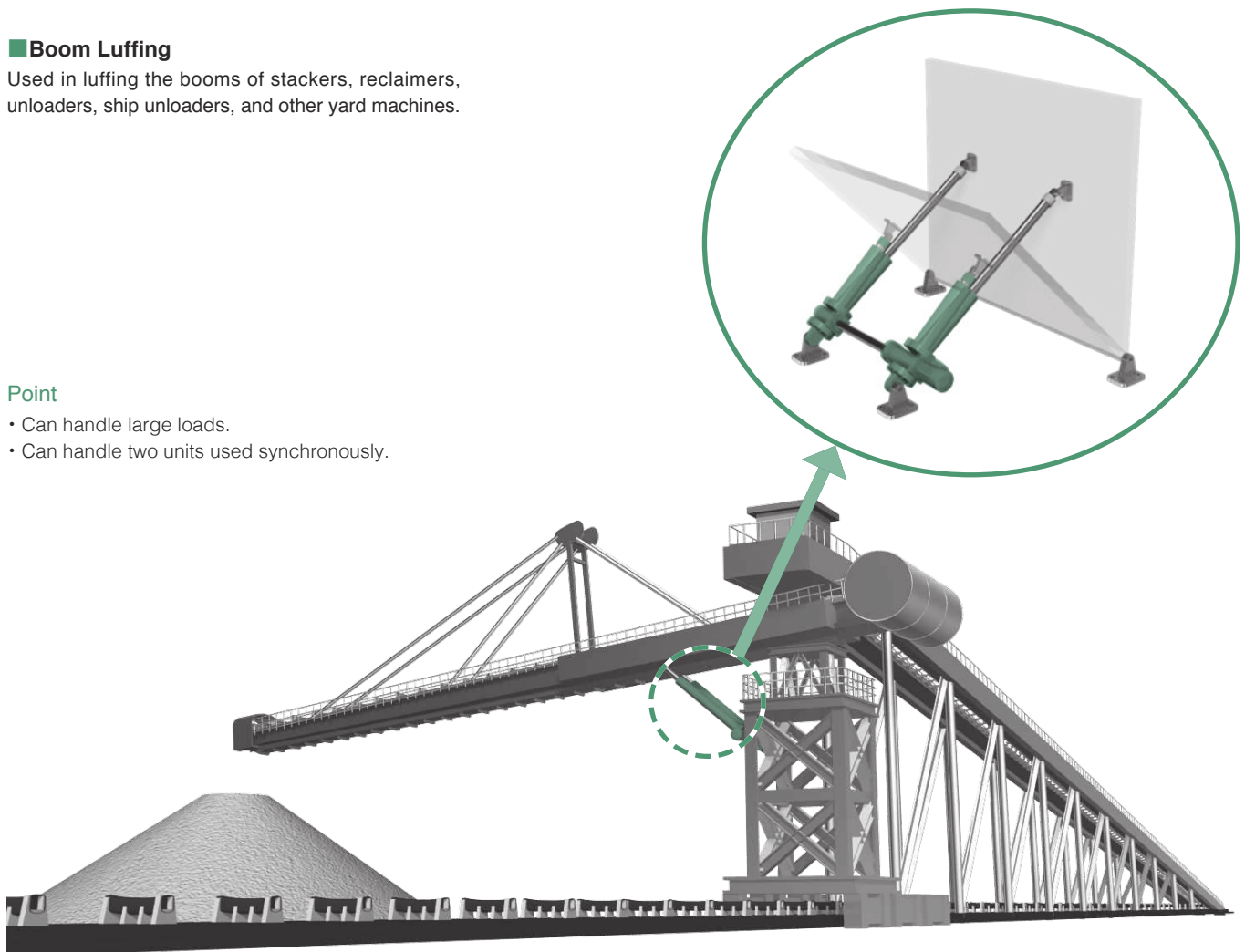


■ Boom Luffing

Used in luffing the booms of stackers, reclaimers, unloaders, ship unloaders, and other yard machines.

Point

- Can handle large loads.
- Can handle two units used synchronously.





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