TB-50 specifications

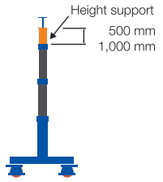
Lifter Main Unit

Jack	
Lifting capacity	5.0 t (load center of gravity at beam center and jack span 1/3 area)
Jack stroke	1,700 mm
Lifting height	Minimum 1,450 mm - maximum 3,150 mm (from carrier wheel lower surface to hanger bearing surface)
Jack telescoping speed (no load, at 60 Hz)	Extending: 2nd stage = Approx. 580 mm/min, 3rd stage = Approx. 690 mm/min; Retracting: 2nd stage = Approx. 1,190 mm/min, 3rd stage = Approx. 1,320 mm/min
Jack structure	Box-type, 3-stage hydraulic telescoping type
Jack telescoping device	Double-acting hydraulic cylinder, direct pushing type × 2
Beam	
Beam	Steel H-beam × 1 (H294 mm × W200 mm)
Beam length	Approx. 4,283 mm (jack span 4,000 mm or less)
Hangers	2
Carrier frame	
Carrier type	Hand-pushed type (no motor system)
Carrier wheels	Urethane free-moving caster wheels (with brake, with 45° turn locking function, with foot guard)
Hydraulic unit	
Hydraulic generator	Electric motor (2.2 kW) × 1 + Double gear pump × 1
Installation	Separate type (with caster wheels)
Hydraulic hoses	Length 15 m (from hydraulic unit to each jack) × 4
Power supply	
Primary power supply	200/220 V AC (12 A or higher × 1 system)
Power cable	Length 20 m × 1 (equivalent to VCT, with M8 round terminal (primary power supply side))
Control switch	
Operating type	Wired remote control pendant switch (cable length 10 m, equivalent to VCTF, connecting type)
Mass	
Total mass	Approx. 1,200 kg
Mass of individual parts	Beam: Approx. 270 kg × 1 (including hangers: Approx. 10 kg × 2) Jack: Approx. 310 kg × 2 (including carrier frame) Hydraulic unit: Approx. 300 kg × 1 (including control panel, control switch, power cable, and hydraulic hoses)

Others	
Paint color	Tadano standard color (dark blue)
Safety devices	
Cylinder hydraulic lock device, motor reverse-turn prevention relay Low-voltage shut-off circuit, hydraulic safety valve, ground fault interrupter, thermal relay Auxiliary legs for overturn prevention (for disassembly/assembly and transport of the jack)	

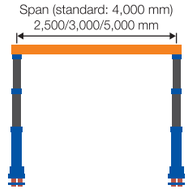
Options

(1) Height support

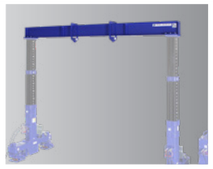


Height	Mass
500 mm	Approx. 35 kg/support
1,000 mm	Approx. 80 kg/support

(2) Various beam lengths

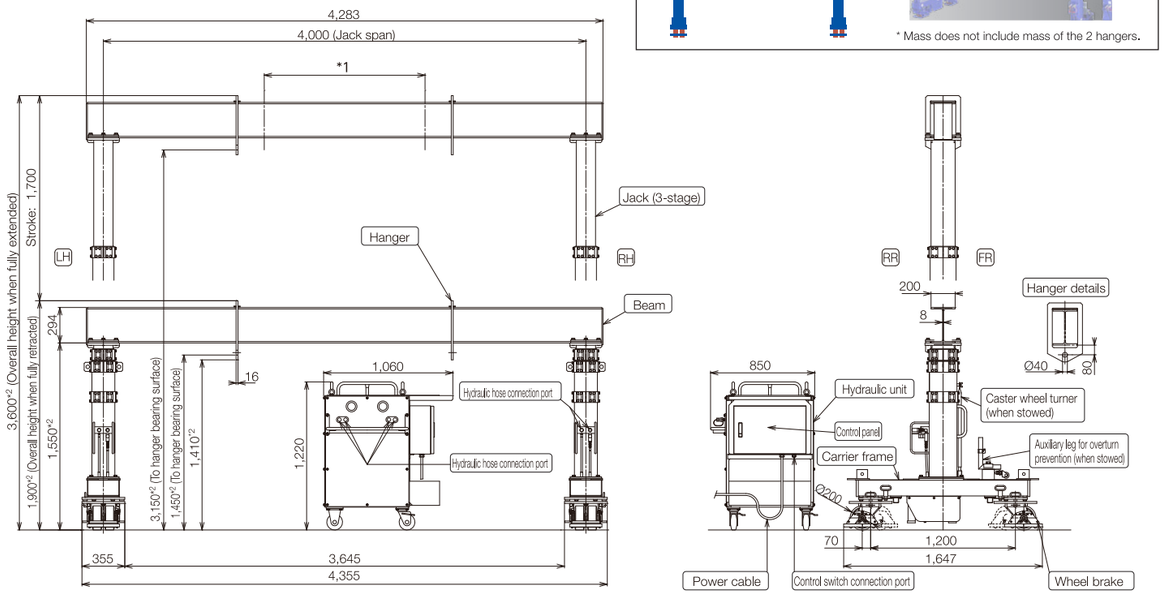


Span	Mass*
2,500 mm	Approx. 165 kg/beam
3,000 mm	Approx. 195 kg/beam
5,000 mm	Approx. 310 kg/beam



* Mass does not include mass of the 2 hangers.

External view (mm)



*1: Rated lifting capacity is with the load center of gravity at the beam center and within the 1/3 jack span area.

- Dimensions in the drawings are design values. (Unit: mm)
- Dimensions in the drawings are those when the height supports (option) are not used. When the height supports are used, the dimension of *2 is increased by the height of the height support (500 or 1,000 mm).

Be aware that specifications may be changed without notice for the purpose of improvements.

⚠ Safety precautions	For safe and correct use of the product	· This product should be operated by personnel who have completed the operating instruction and safety course conducted by our company. · Be sure to carefully read the Instruction Manual before use. · Be aware that excessive extension of the power cable may result in damage to equipment. · These are Japan specifications. Check the laws and regulations in each country before use.

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· For inquiries regarding this product:

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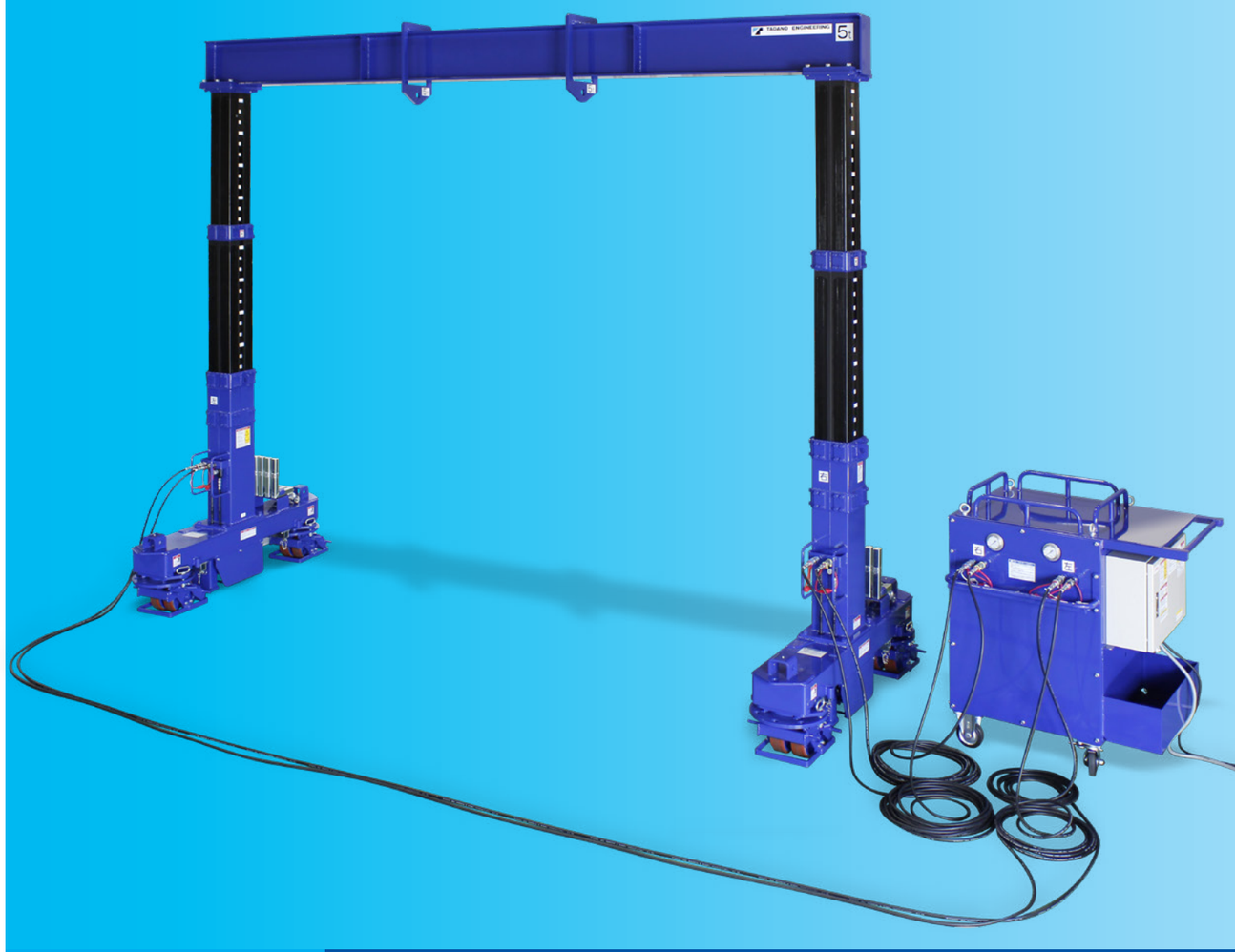
TADANO TADANO ENGINEERING

Lifting capacity 5.0 t

MINI LIFTER TB-50

Constant performance throughout the entire stroke! Compact structure that allows the lifter to be transported while assembled in gantry form.



MINI LIFTER

TB-50

Stable movement delivered by powerful 3-stage jacks

- Lifting capacity 5.0 t
- Constant performance throughout the entire stroke
- The jack with internal hydraulic cylinder is capable of stepless operation.
- Can easily be disassembled and transported for installation into confined spaces.

Previous usage examples

Transport and installation work

- Transport and installation of control panels and distribution panels which overturn easily
- Work in clean rooms where no lifting equipment is available
- Assembly and installation of precision devices for printing, food products, medicine, and other purposes

Maintenance work

- Replacement of aging plant equipment
- Maintenance work for various machines

Installation/removal work

- Transport, installation, and removal of dies for molding machines, presses, and other machines

Loading and unloading work

- Loading and unloading to/from vehicles

Lifting work

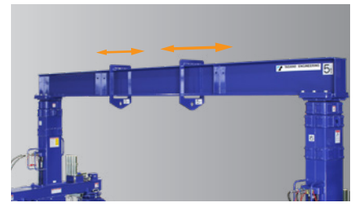
- Lifting of heavy objects

Hangers

2 hangers are installed.

* Use with total load on the 2 hangers of not more than 5.0 t.

Lifting of 5.0 t with 1 hanger is possible.



Manual sliding is possible when no load is applied.
Hangers can be set in any positions.

The beam is mounted by a holding plate system. As a result, the span can be fixed in any position.

Hydraulic unit (separate type)

Movement is easy thanks to the compact and lightweight design.

Control panel

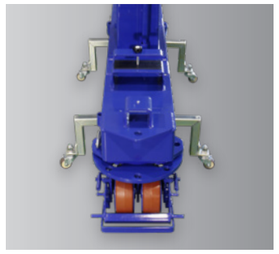
The control panel is installed on the hydraulic unit.

Cable connector ports
The pendant type control switch is connected by a connector. The power cable and operating cable can be stored under the control panel.

Control switch

An easy-to-operate pendant-type control switch

Auxiliary legs for overturn prevention (caster wheels for jack transport)



When installed

Install so that the jack main body can stand independently when the beam is removed.

When stowed

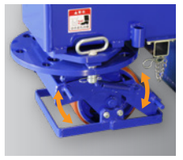
Stowed in the carrier frame during lifter work (gantry configuration).

Caster wheels (with brakes and turn-locking function in steps of 45°)

Locked at 0°

Locked at 45°

Locked at 90°



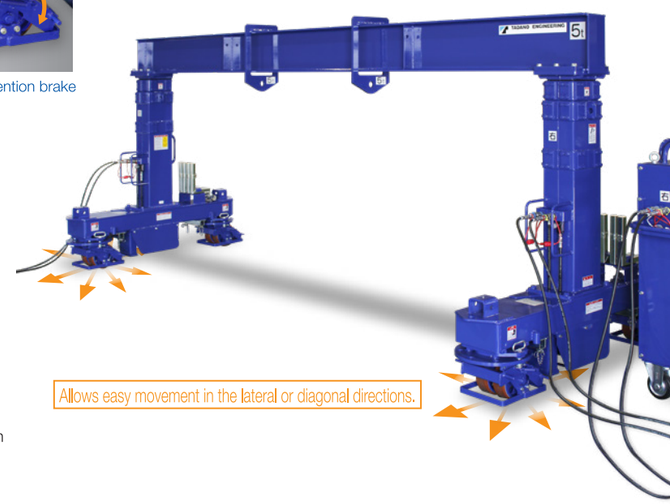
Runaway prevention brake

A runaway prevention brake is installed on each caster wheel.
The travel direction can be fixed in increments of 45° with a pin.

Caster wheel turner

Install to change the direction of the caster wheels.

Ordinarily it is stowed on the side of the jack.



Allows easy movement in the lateral or diagonal directions.