Functionality

Pump Operated Toe Jacks

Made in Germany

Distributed by
Toolwell
North America

Avoid confusion

We carry two types of jacks
that look almost identical.

To avoid confusion, we will
first explain the difference.

G-plus
Model Jacks

EX
Model Jacks

The difference between

G-plus
Model Jacks

EX
Model Jacks

The G-plus and EX type jacks share the same design.

The difference is that one has an attached tank with pumping mechanism and the other has just a connection nipple.

G-plus
Model Jacks

Hand operated

EX
Model Jacks

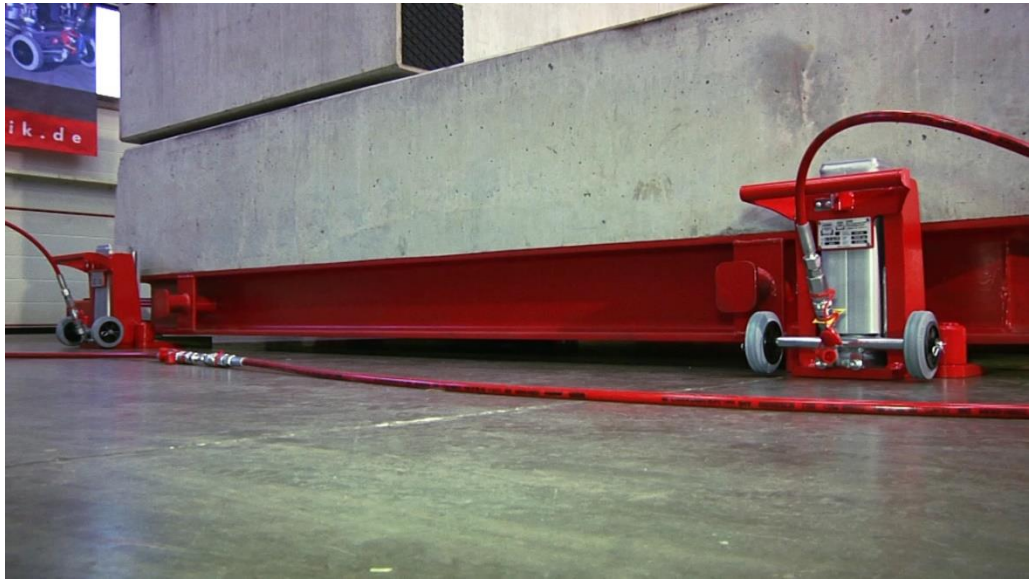
Pump operated

The ‘G-plus’ model jacks are made to be operated by hand using the attached pumping handle.

The ‘EX’ model jack must be operated with an external hydraulic pump.

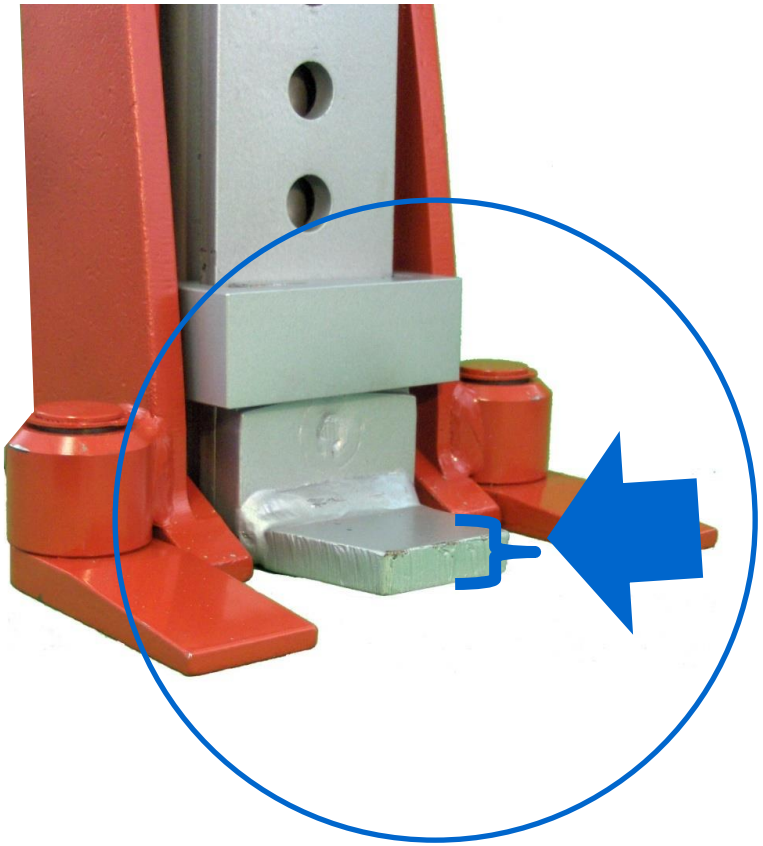
EX jack

This slideshow explains the functionality of the ‘EX’ model jacks which have to be operated with an external hydraulic pump.



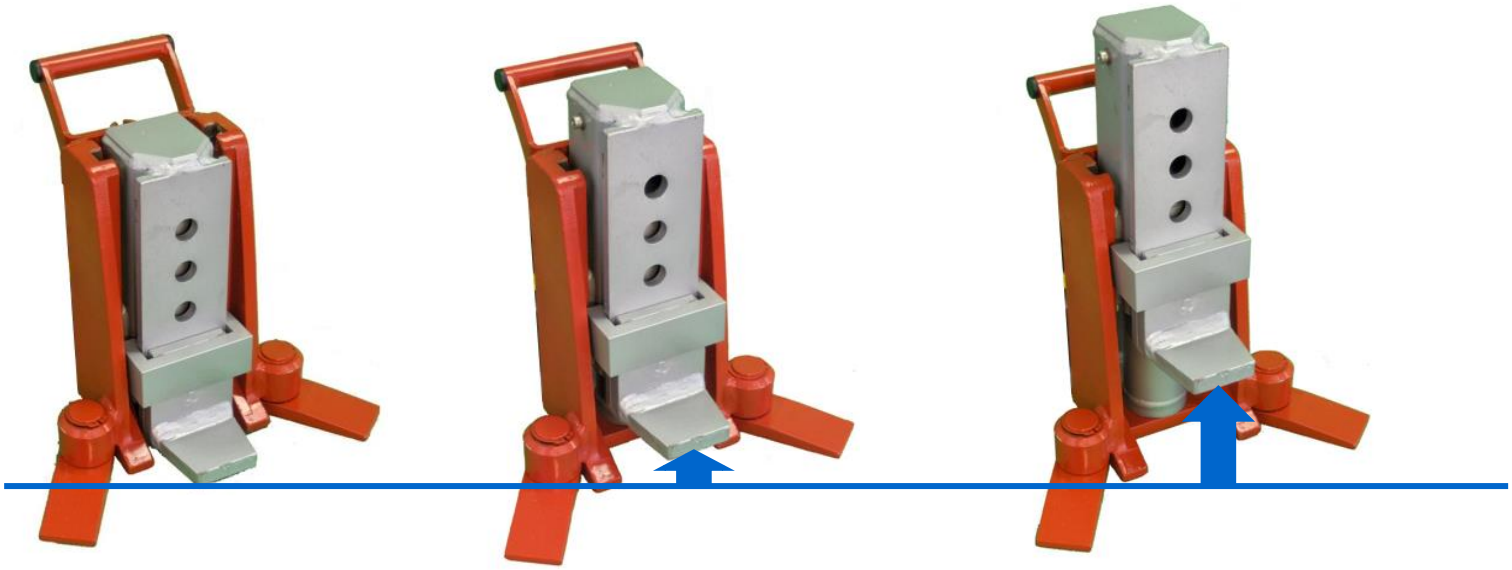
These ***toe jacks*** are made in Germany and have been engineered in cooperation with professional riggers for ease of use and safety.

Functionality



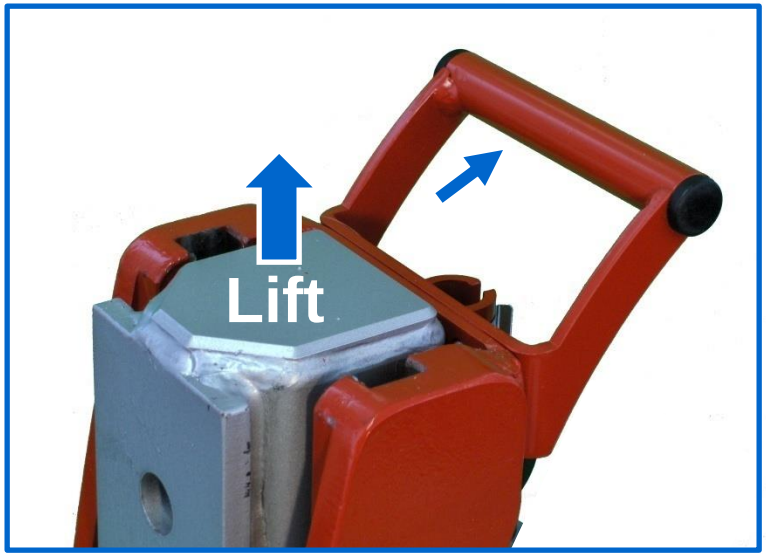
The lifting toe provides a very low profile for loads with low clearance between the bottom of the load and the ground.

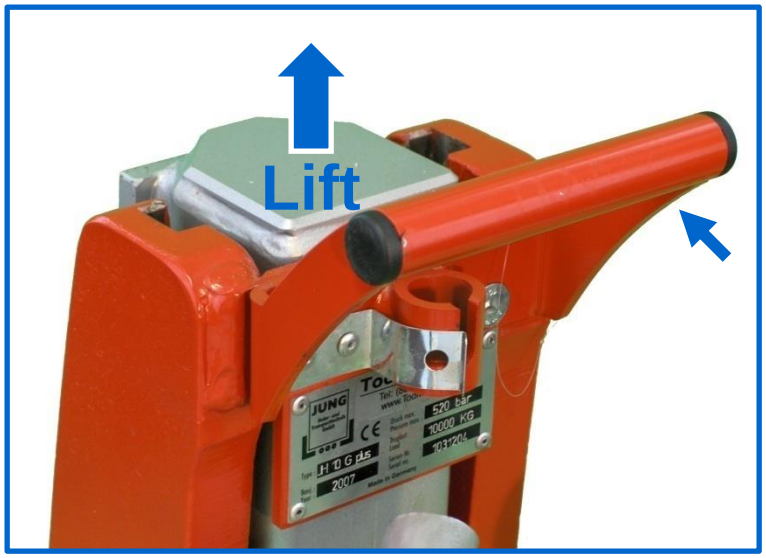
This toe can be locked into different starting positions …so, if the load sits on 5-inch legs, you can immediately position the toe at 5 inches, rather than having to pump up to this height.



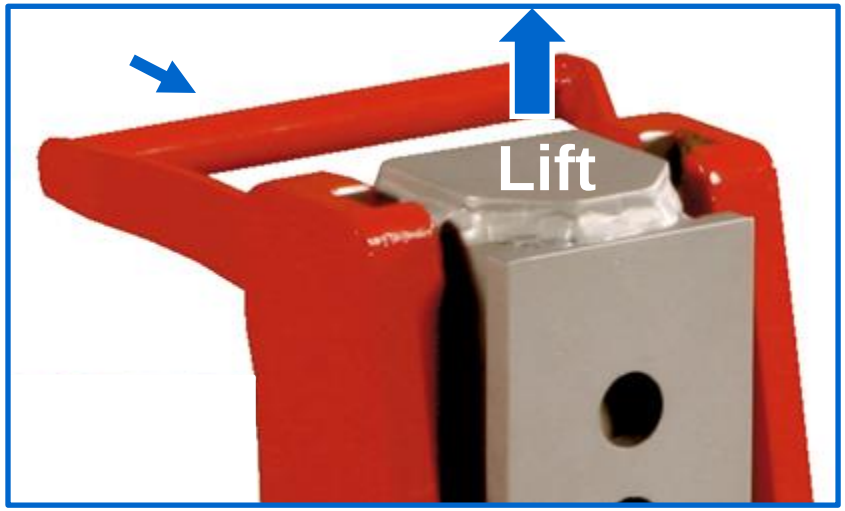
When jacking up the load, the silver lift travels upwards, guided inside the red shaft. The toe is firmly held in a vertical path so the jack does not tip forward.

You can either lift with the toe (1), or the top loading plate (2)





The handle is also detachable on the 10-ton jacks if more clearance is needed for lifting with the top loading plate.

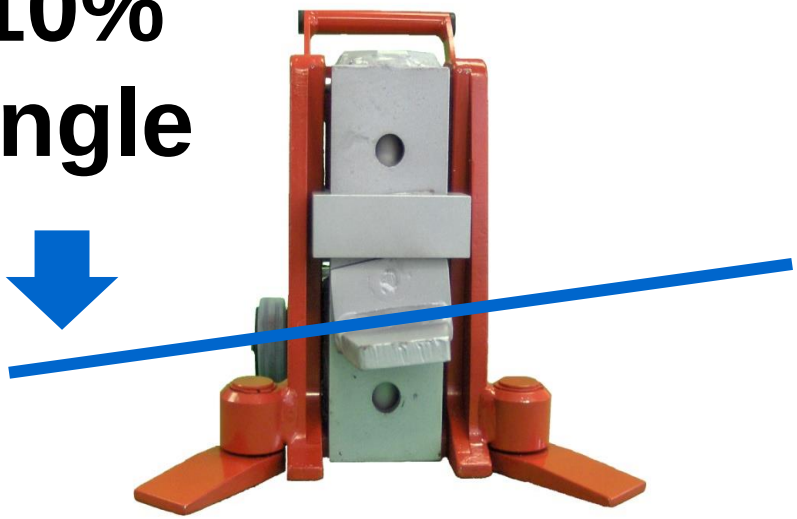


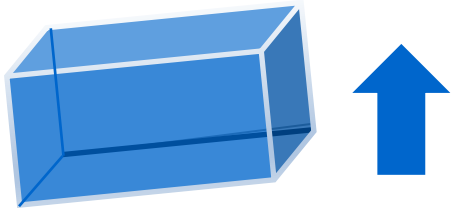
The larger 20 and 30 ton jacks have horizontal carrying handles that provide clearance to the top loading plate.

The jack comes with swivel feet to adjust to any available clearance under the load.

The toe will teeter to compensate for the leaning of loads.

10% angle





As the load travels upwards, it starts to lean. The toe leans with the load while the jack stays upright.

The jack can also be used on inclining ground. As the jack leans, the toe provides horizontal support for the load.

10 tons	20 tons	30 tons
		
	+ Wheels for transport	+ Wheels for transport + Extra side carrying handles

The 10-ton jacks have no wheels.

The 20- and 30-ton jacks have wheels.

The 30-ton jacks have additional carrying handles.

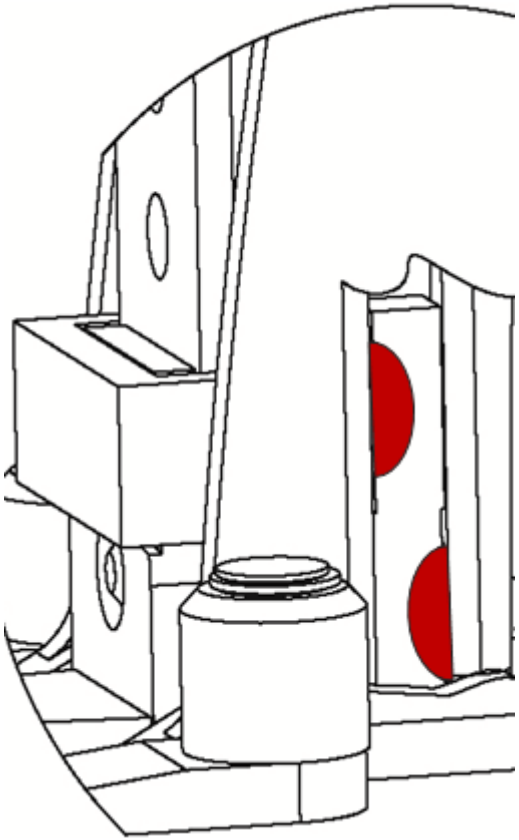
Wheels on 20 and 30 tons jack only

You can also lock the included handle in an upright position.

Wheels on 20 and 30 tons jack only

Tip the jack back onto its rollers…
and roll it like a vacuum cleaner

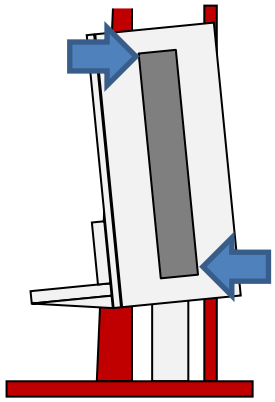
The most important feature of the jack is a slide shoe design.



Most important feature

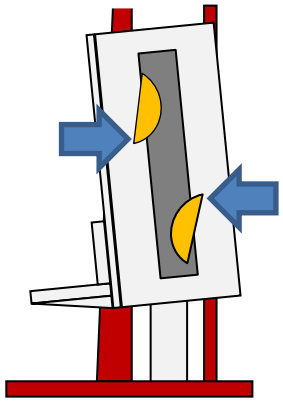
1

Slide leans & grinds



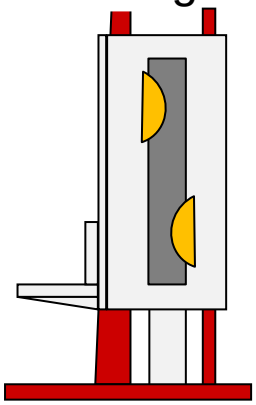
2

Slide shoes engage



3

Slide remains straight

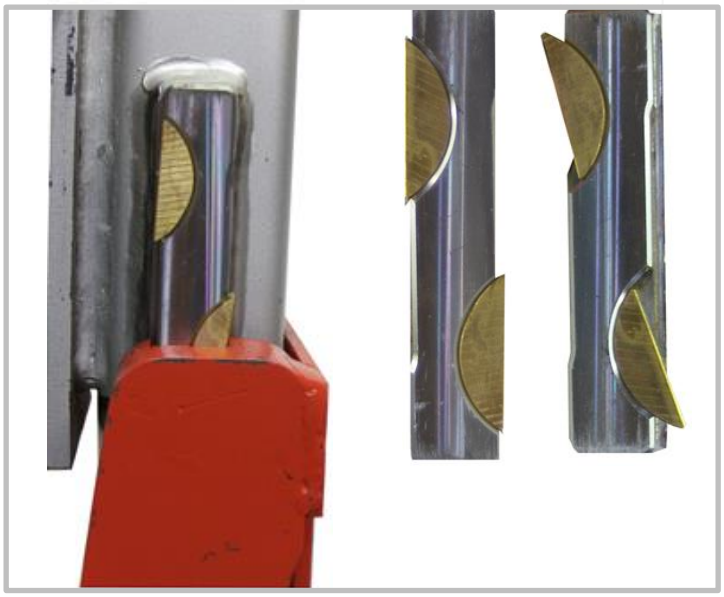


Toe jacks lean towards the weight (**1**).

The slide shoes compensate (**2**)

and keep the lifting mechanism upright (**3**).

This unique design results in unsurpassed performance. It is patented and exclusively built-into JUNG toe jacks.



Advantages of Slide Shoes

- No twisting of piston
- No grinding of steel
- No total failure under impact loading
- Less wear
- Better performance
- Longer life
- Repairable
- Higher safety

Internal spring return. Not visible from the outside.

The larger 20- and 30-tons jacks are also outfitted with spring return. That means the toe will retract by itself. The smaller 10-ton jack must be pushed back by hand.

Hand Pump for 10 tons jack

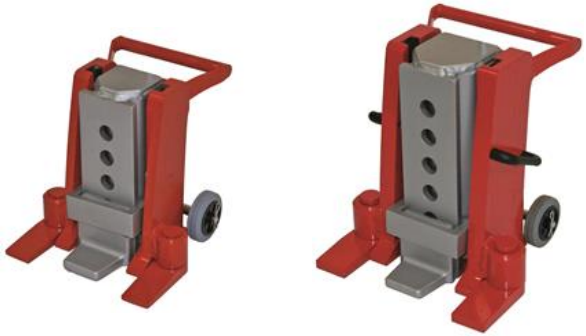
The 10 tons jack is easily operated with a hand pump.

An electric pump can also be used for effortless push-button operation

Alternative: Electric Pump

Using a hand pump for the larger jacks is not user friendly as it requires more than 250 hand strokes to lift the jack.

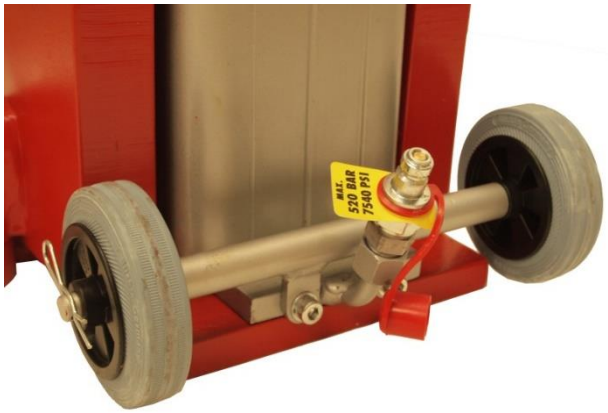
Hand Pump for 20- and 30-tons jack **not** recommended



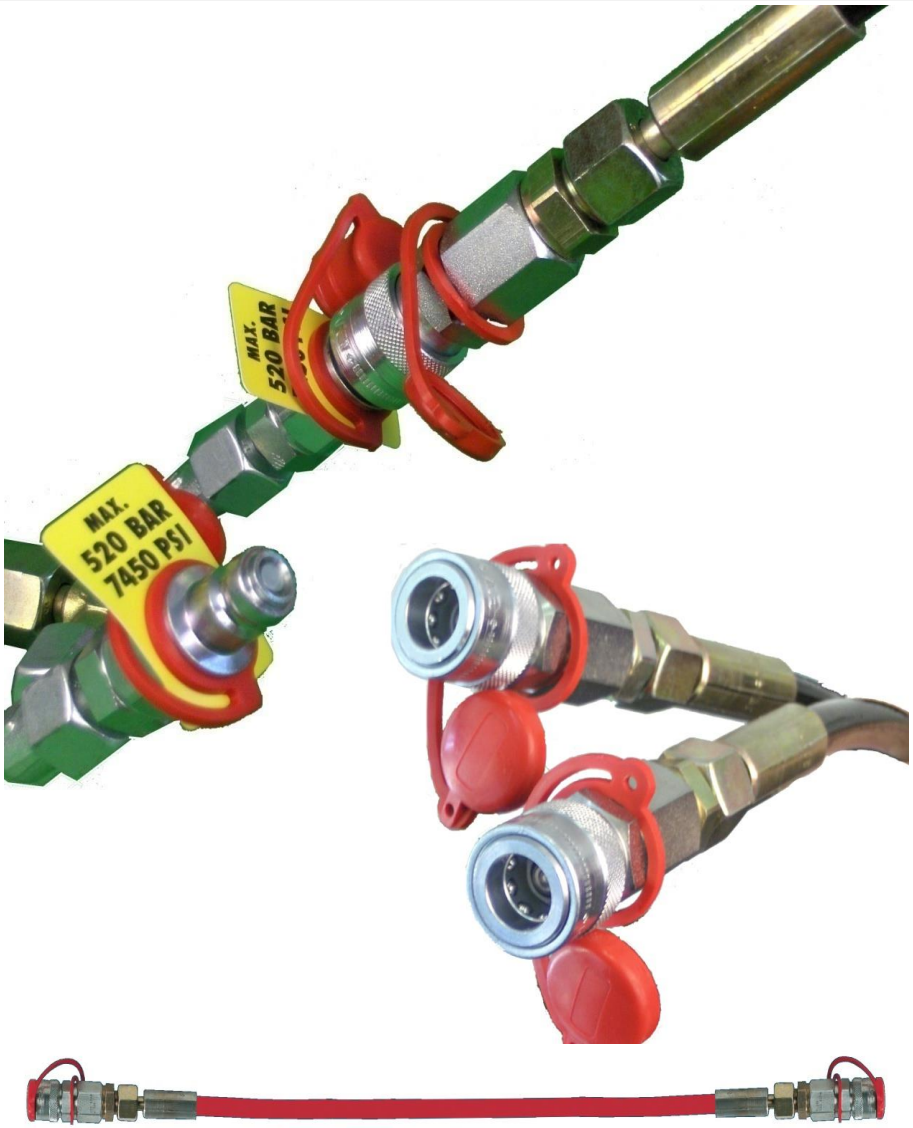
Electric Pump required for 20- and 30-tons jack

Consequently, an electric pump is recommended to use with the larger jacks.

All pumps have 2 connection nipples to operate 2 jacks simultaneously.



All hydraulic jacks, pumps and hoses are outfitted with no-drip quick connectors.

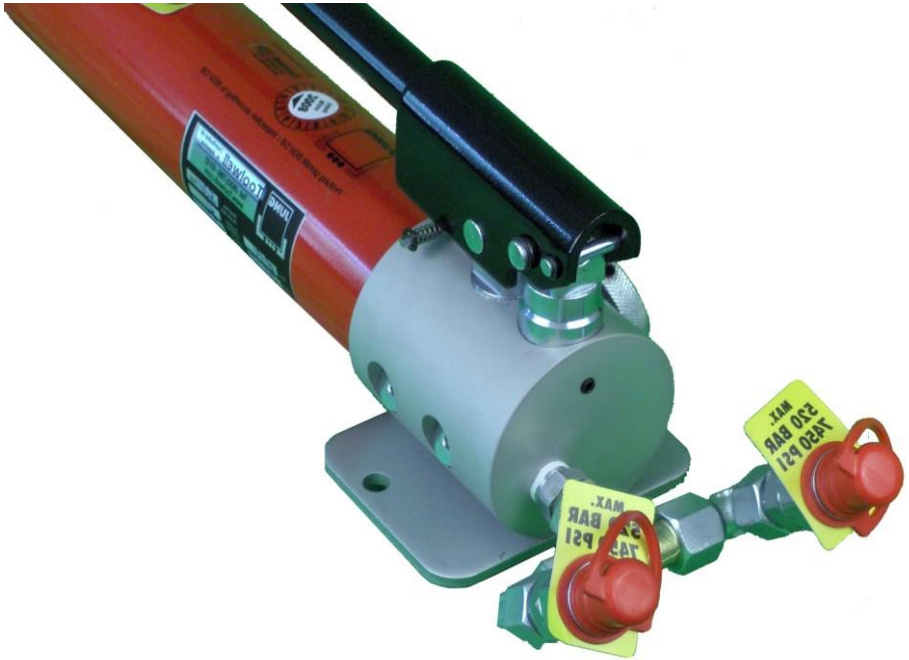


The connecting hydraulic hoses are available in various lengths to match your needs.

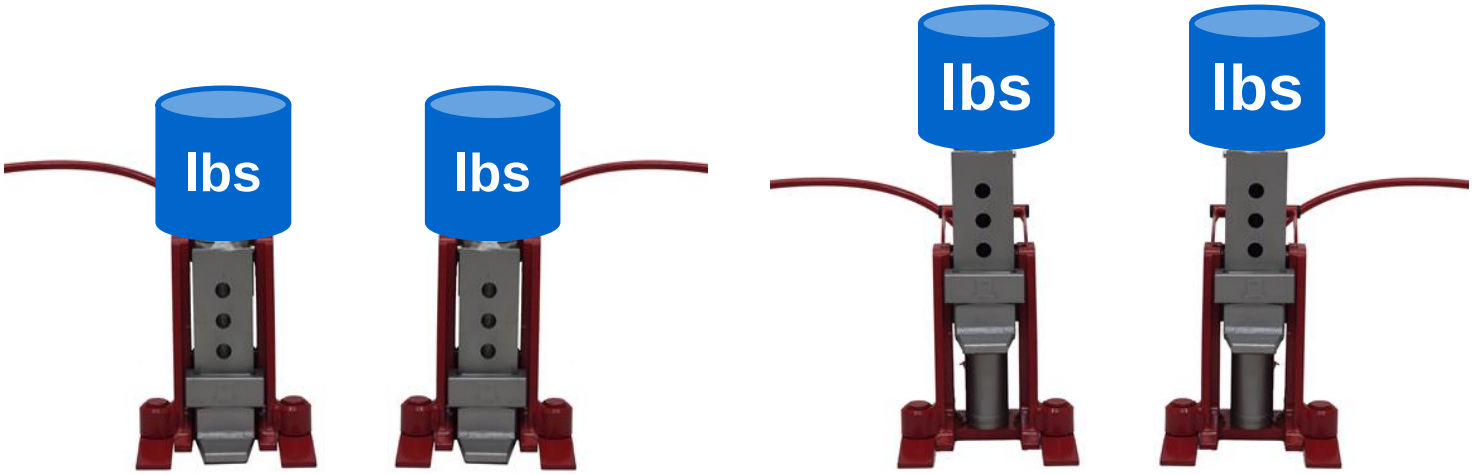
Operating Pressure 7540 psi

If you are using your own pump, please make sure it operates on the matching pressure. Do not use with common 10,000 psi pumps!
Use with hydraulic pumps operating at 7540 psi only.

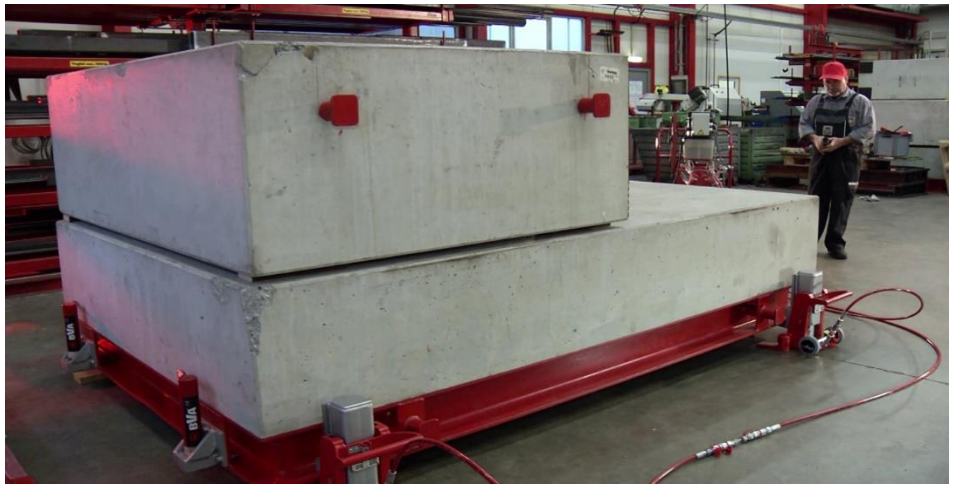
ATTENTION !
It is important to understand the following concept if you plan to operate multiple jacks with one pump:



Each pump has two nozzles and can operate 2 jacks simultaneously. However: <u>The pump supplies the same pressure to each jack via one oil supply.</u>

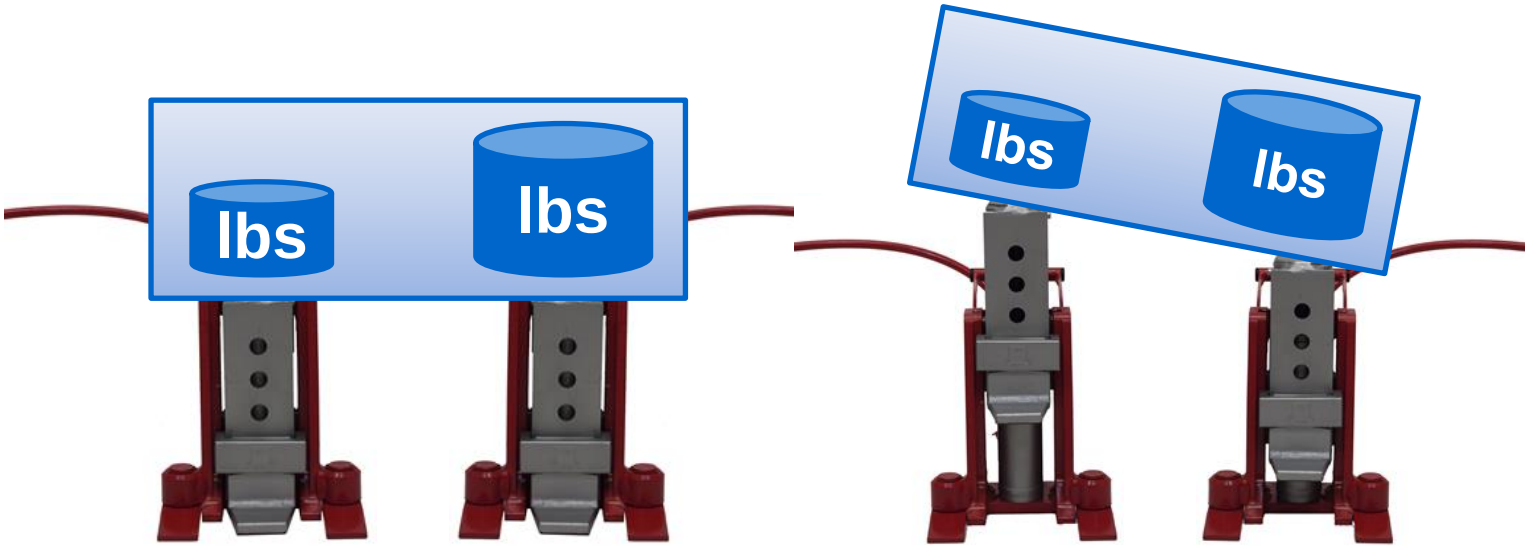


This means that both jacks will lift at the same rate when each jack carries the same weight.



BUT…if your weight is unevenly distributed across your load, each jack will be loaded with a different amount of weight.

As a result, the jack with less weight will lift faster, causing the load to tilt.

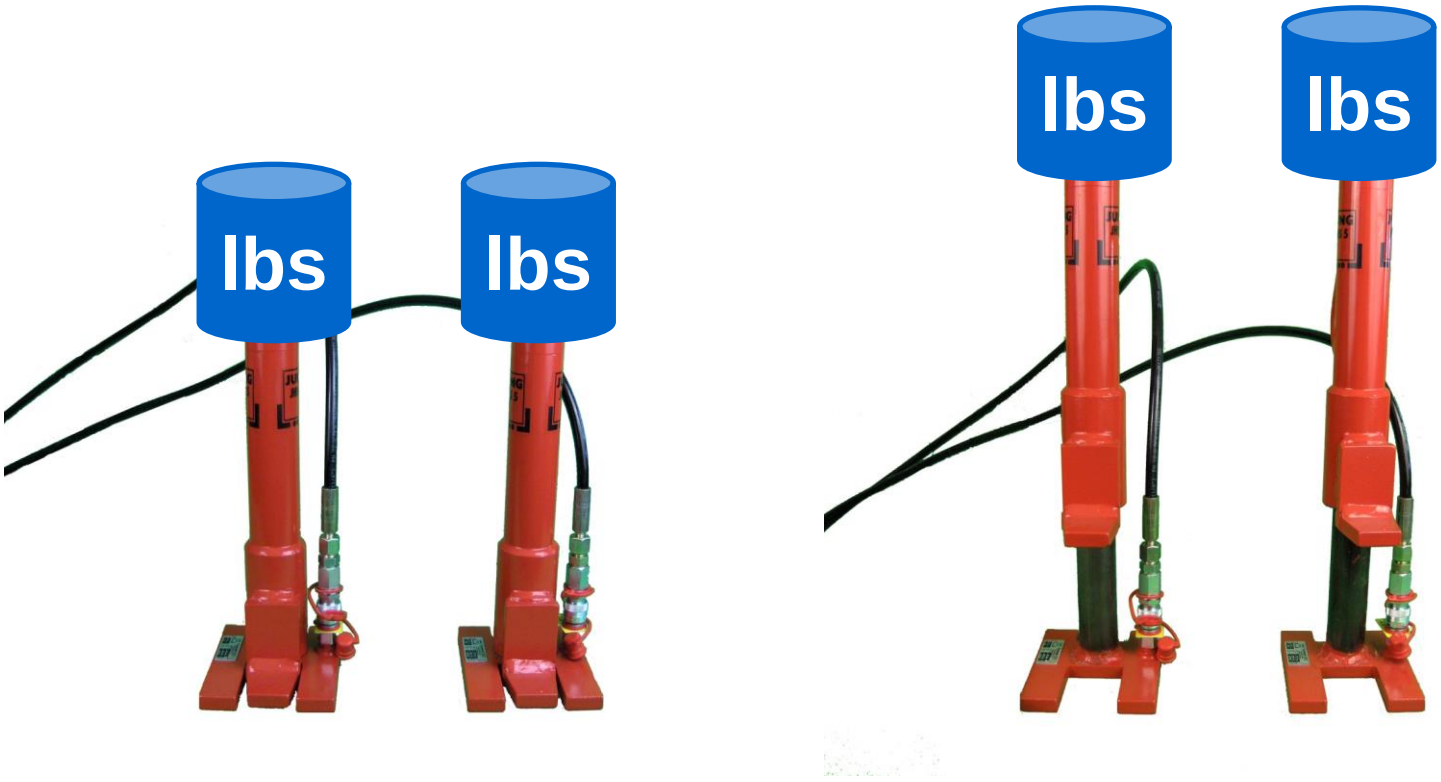


If you have uneven weight distribution, please operate each jack independently with separate pumps. This lets you manually synchronize the lifting process.

G-plus series Toe Jack

Alternatively, please compare the ***EX pump operated toe jacks*** to our ***G-plus toe jacks*** which can be operated without the external pump for independent control.

Which jack?
at
What capacity?



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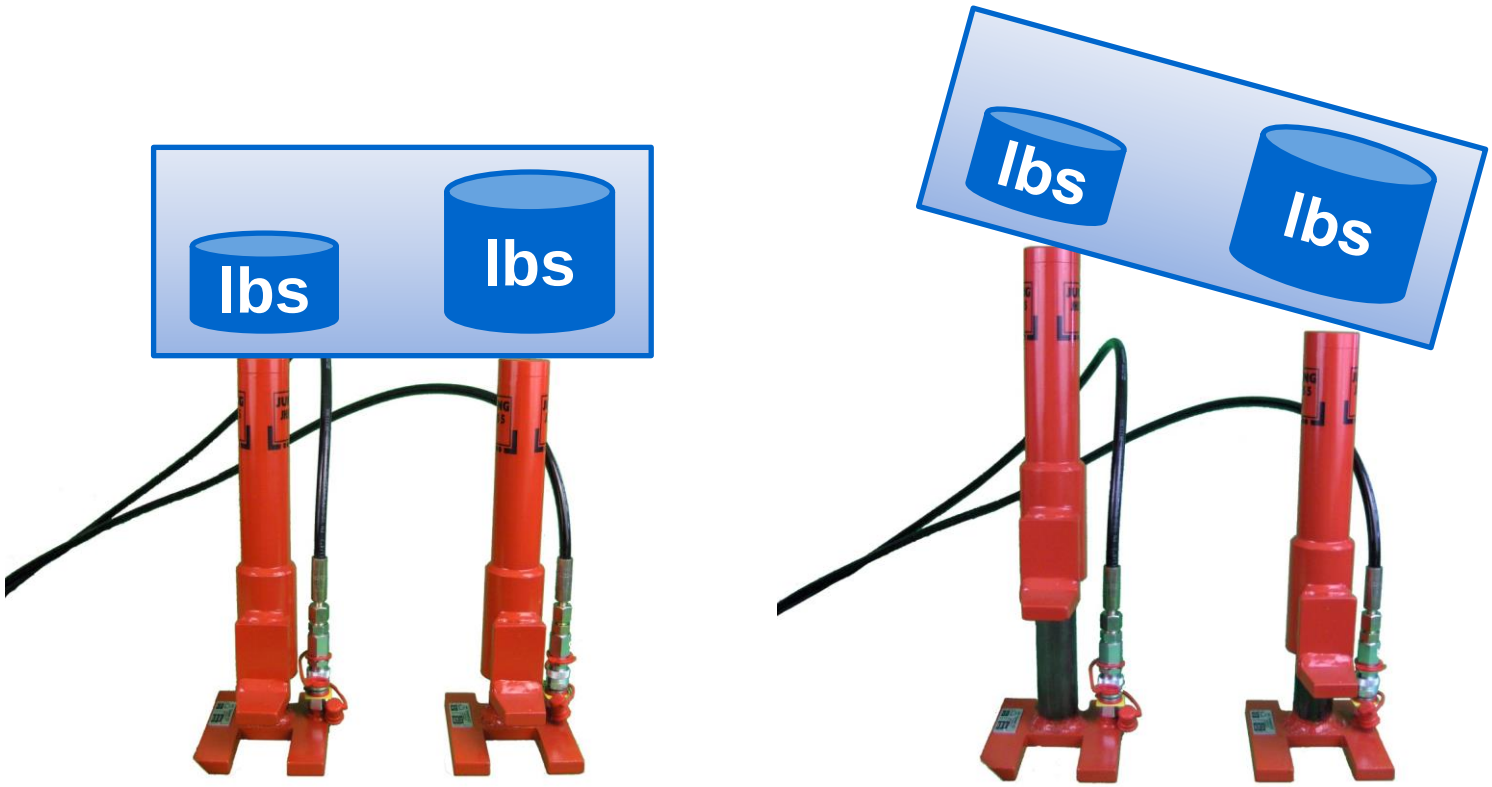


As a result, the jack with less weight will lift faster, causing the load to tilt.

If you have uneven weight distribution, please operate each jack independently with separate pumps. This lets you manually synchronize the lifting process.

Alternatively, please compare the ***confined space toe jacks*** to our ***G-series toe jacks*** which can be operated without the external pump for independent control.

G-plus series Toe Jack

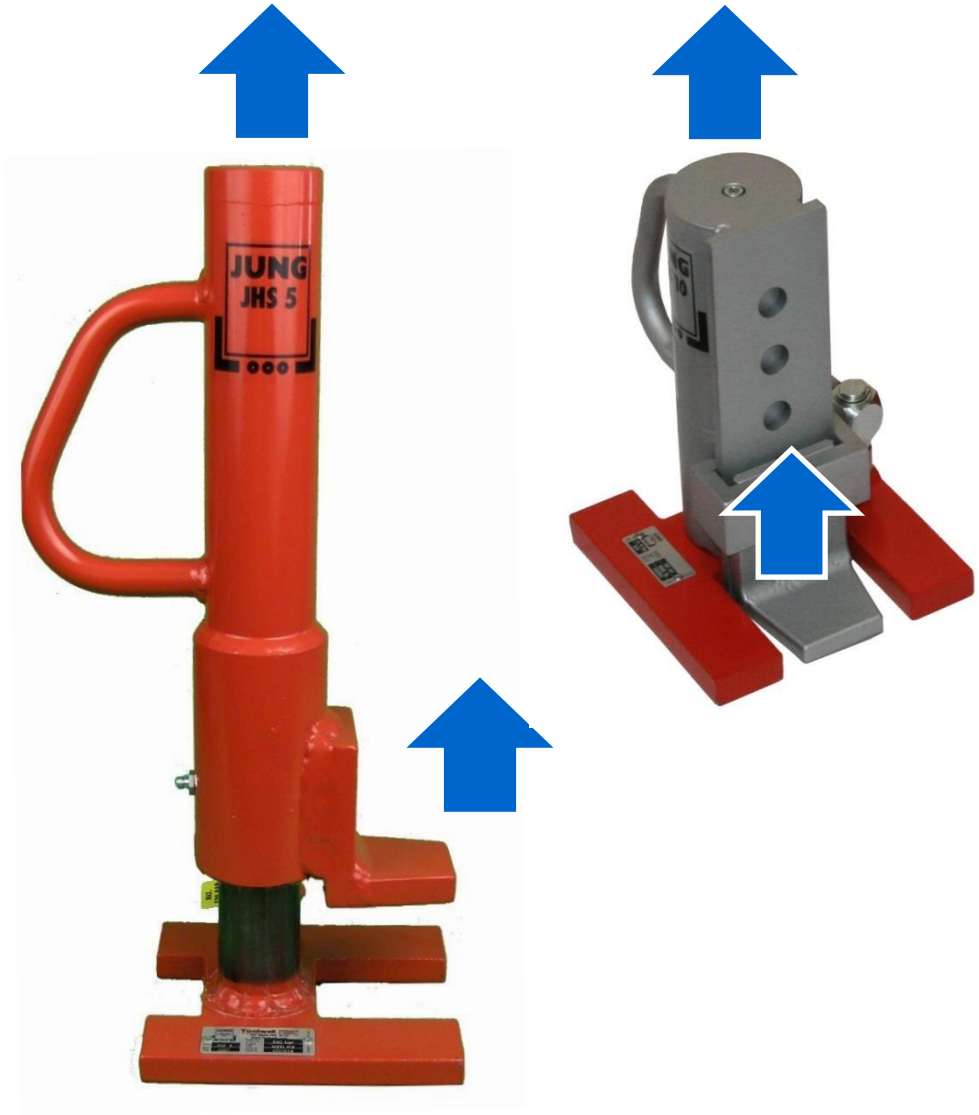
Features:

Each manual pump comes with a foot plate, which holds the pump down as you operate its handle.

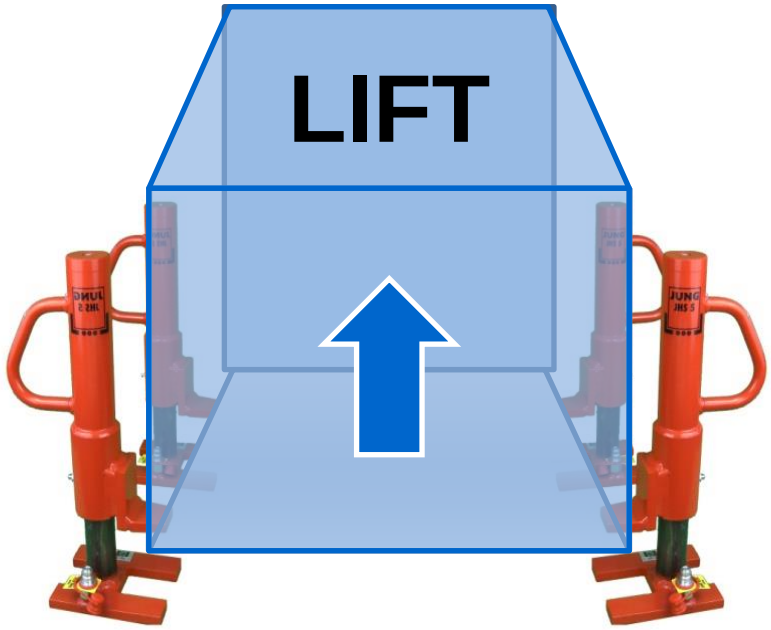
The lowering knob gives you precise control over gently lowering the load to the ground.

Overload protection

The hand pumps are also outfitted with an overload protection mechanism which safeguards the jack from breaking when overloaded.

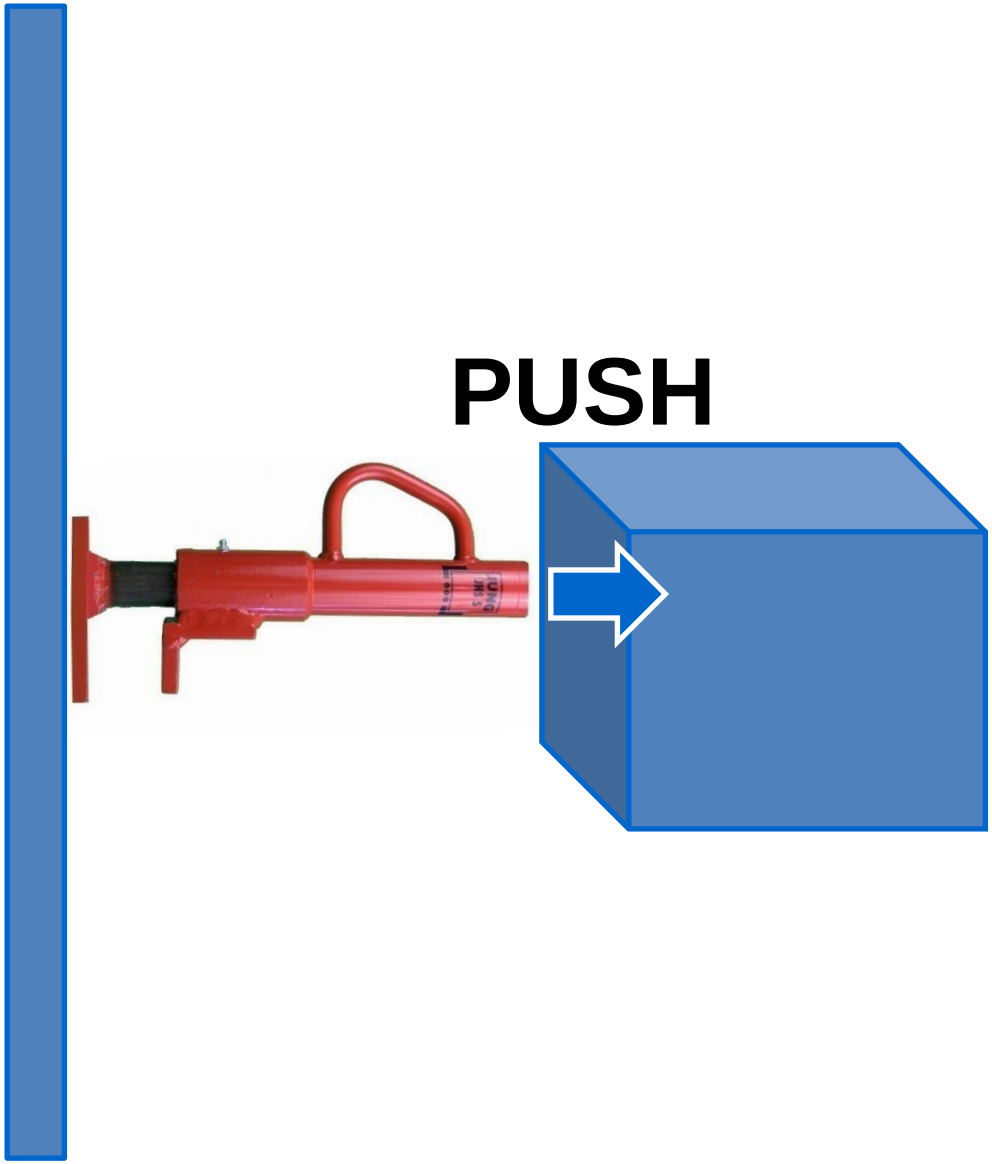


You can use the toe or the top loading plate to lift.

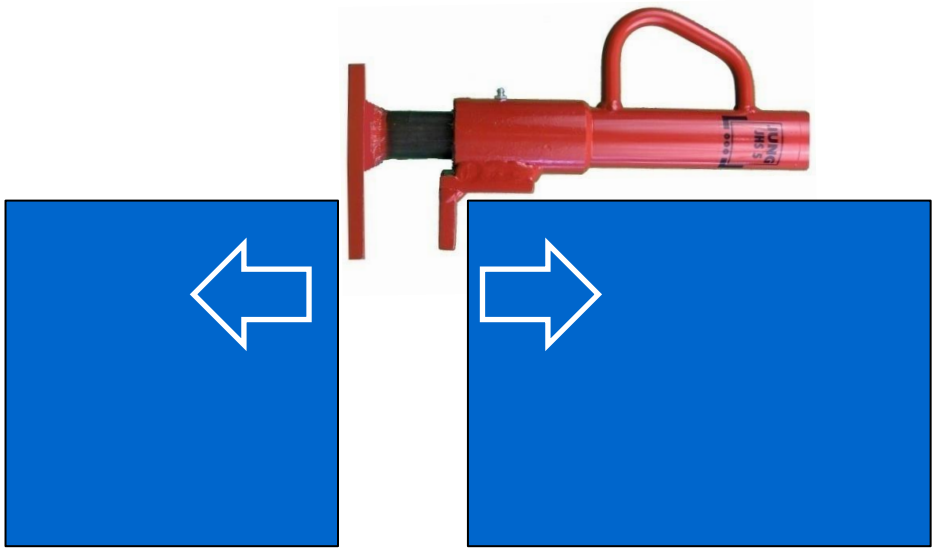


The jack can be used to lift heavy loads…

PUSH



…or to horizontally push.



Because of the fixed toe, the C5 and C10 can be also used to separate loads.

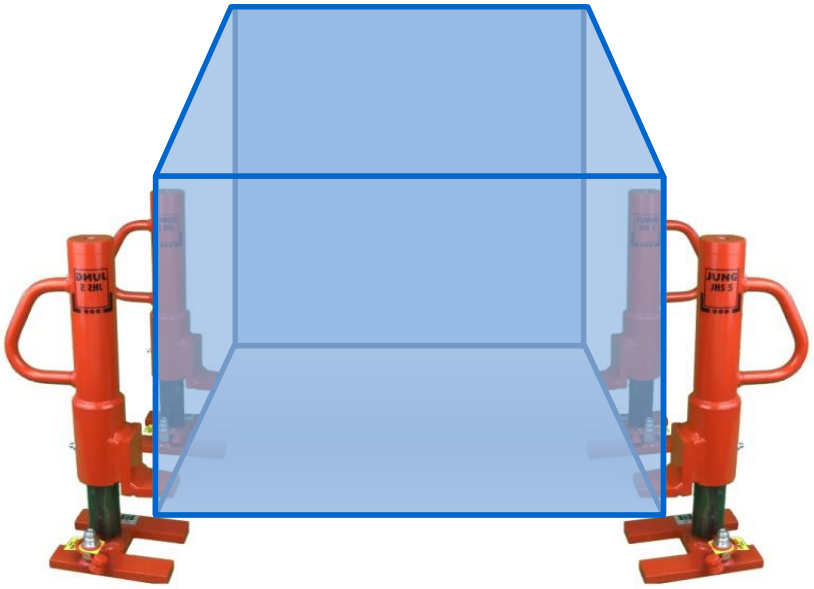
❌ The S10 has a removable toe and consequently is not ideal for this use.

Which jack?
at
What capacity?

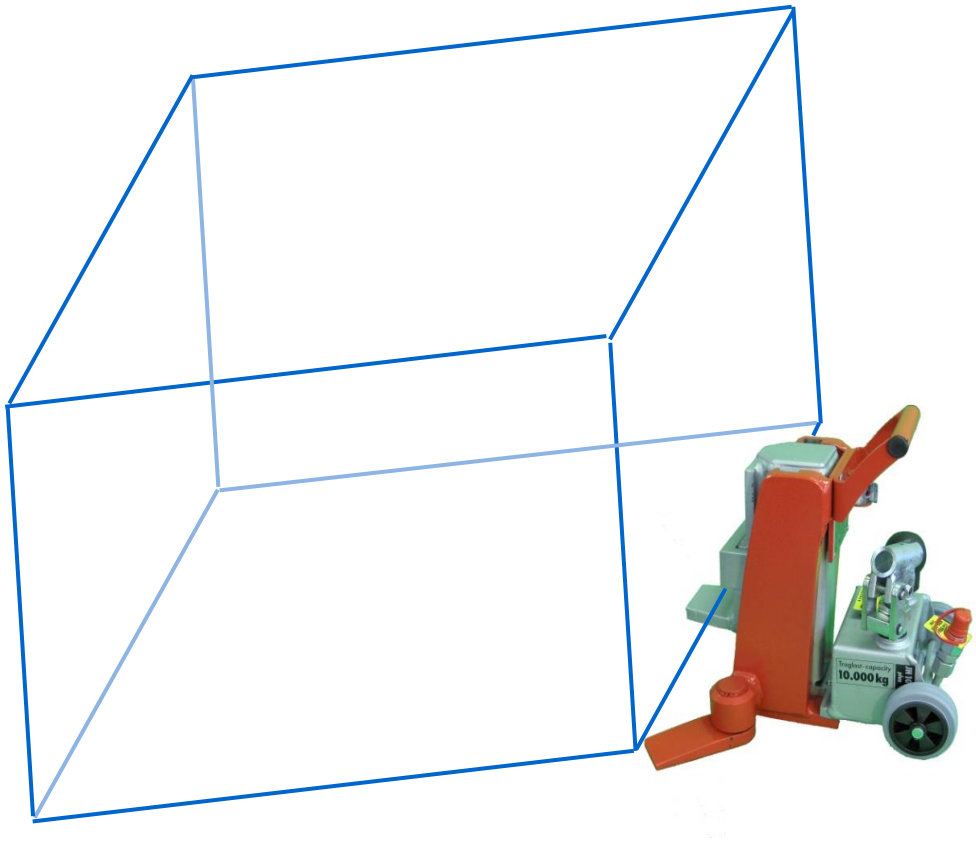
10 tons ???

or

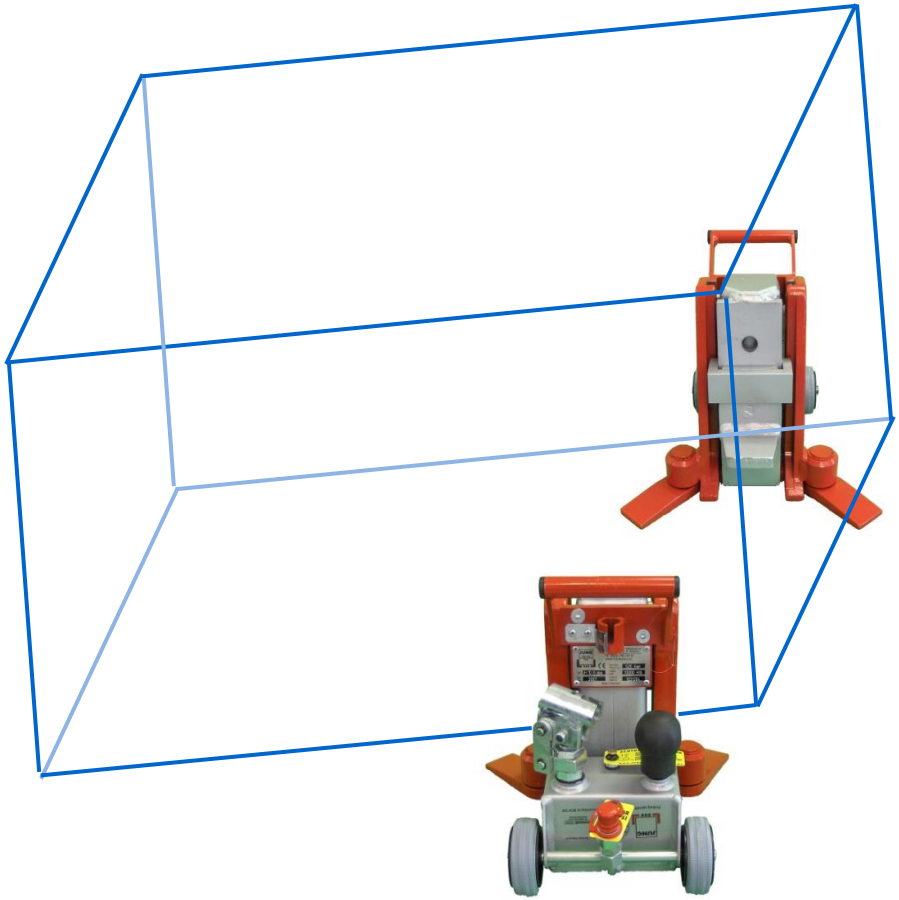
20 tons ???



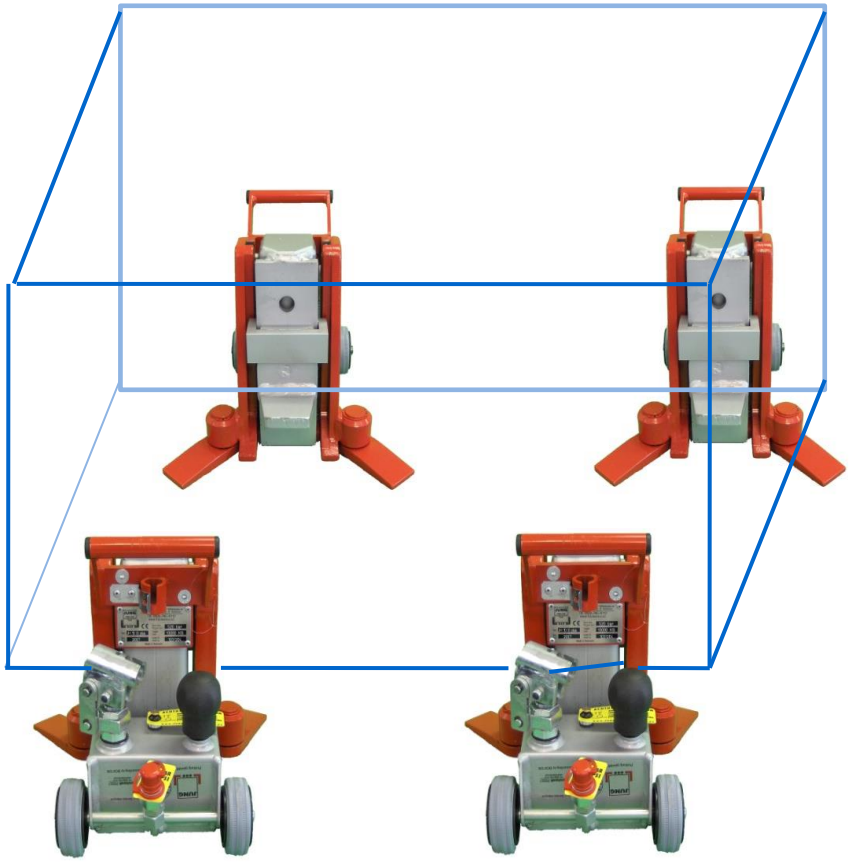
Before you choose a jack, you should understand how the weight of a load is divided across each jack.



First, determine how many jacks you are going to use. The most economical solution is to use one jack to lift up one end of the load at a time.



Or use 2 jacks simultaneously to lift up one end of the load. This is often more convenient because it provides more usable clearance underneath the load.



To lift up all four corners of the load, simultaneously use 4 jacks.

Lifting Capacity

5 tons

10 tons

15 tons

20 tons

5 tons

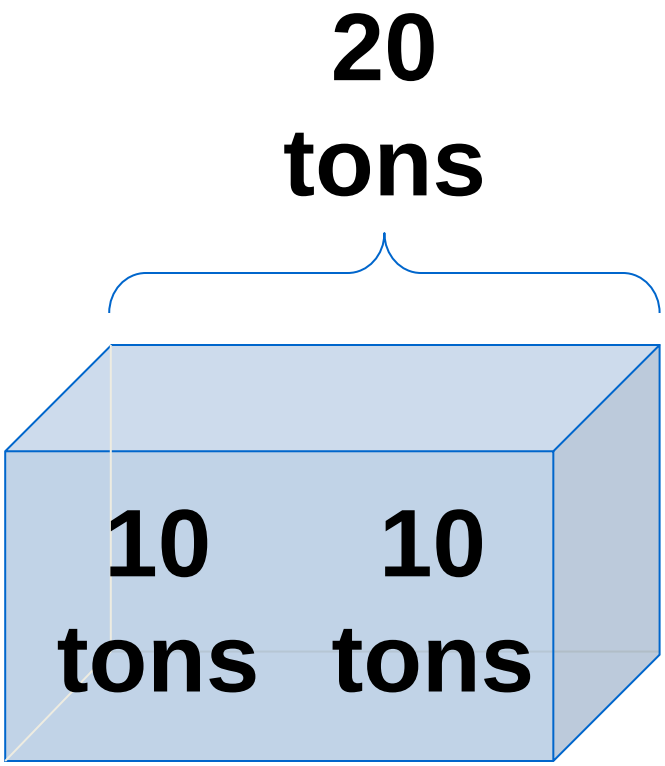
10 tons

10 tons

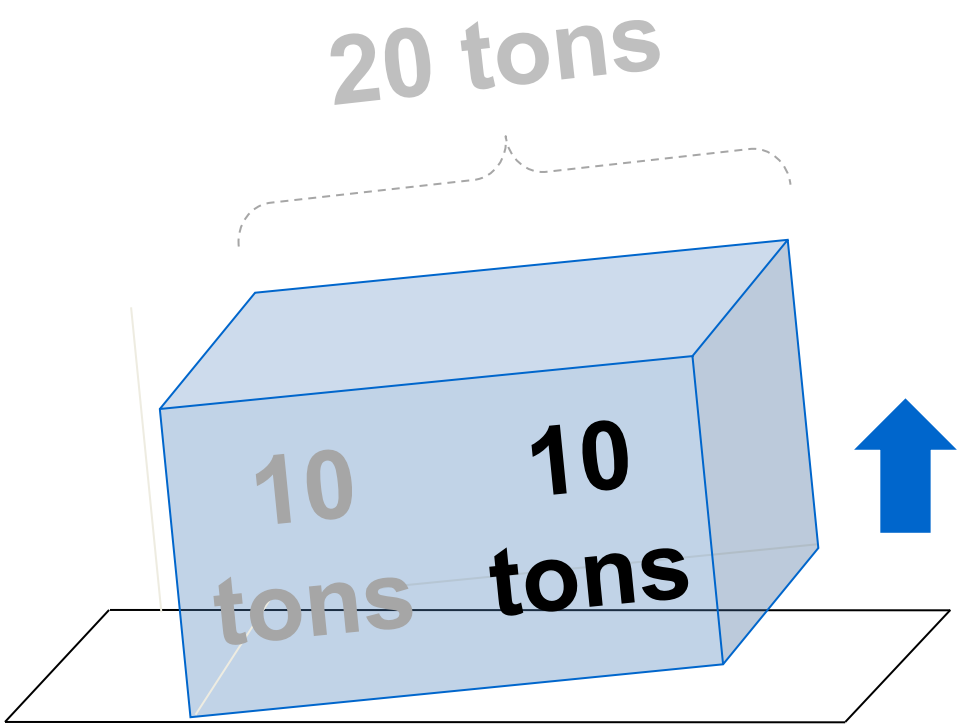
How much load capacity does each jack need for your application?

Example:

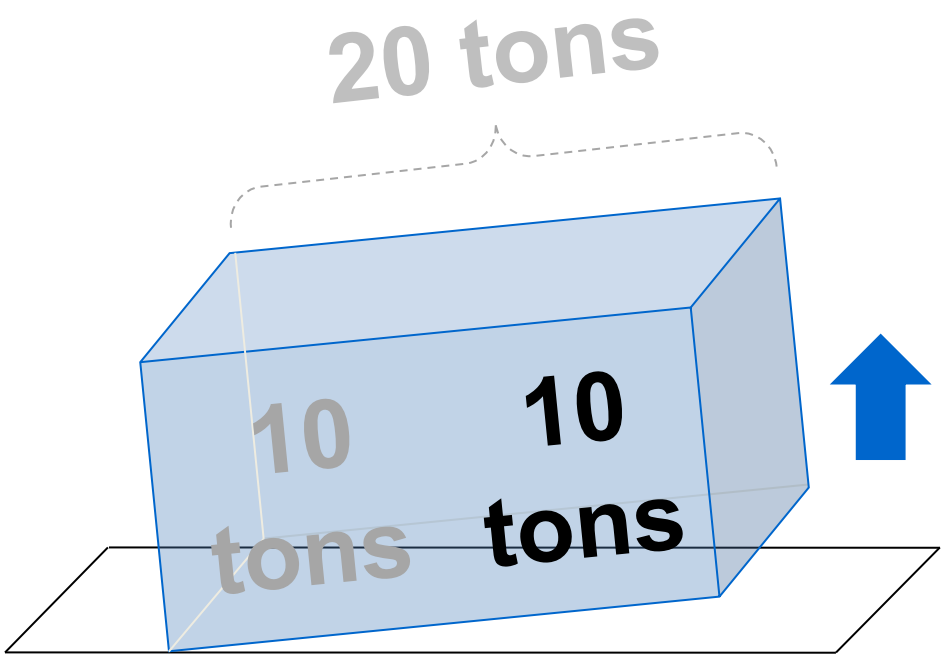
Assume you have a
20-ton load.



Then divide the weight equally into 10 tons on each end of the load.

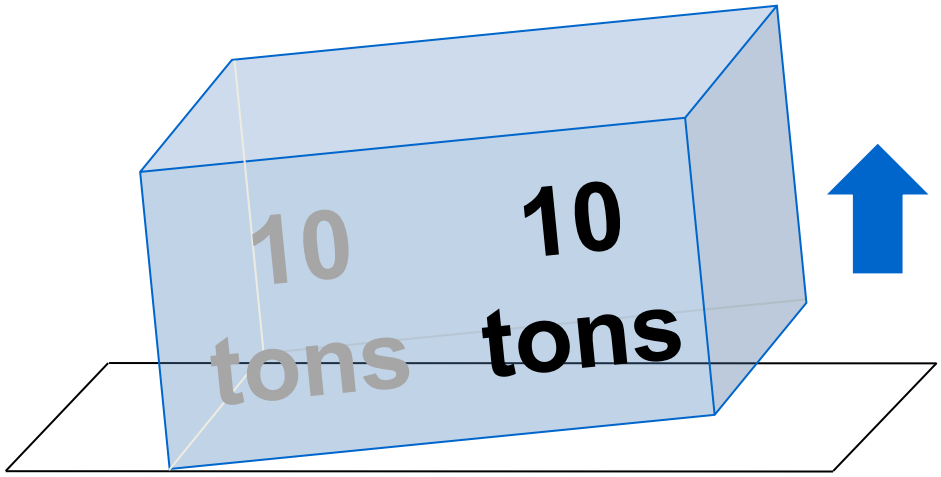


The weight to be lifted on each end is therefore 10 tons - or half the total load weight.



So if you are planning on using one single jack, use a jack with 10 tons of lifting capacity.

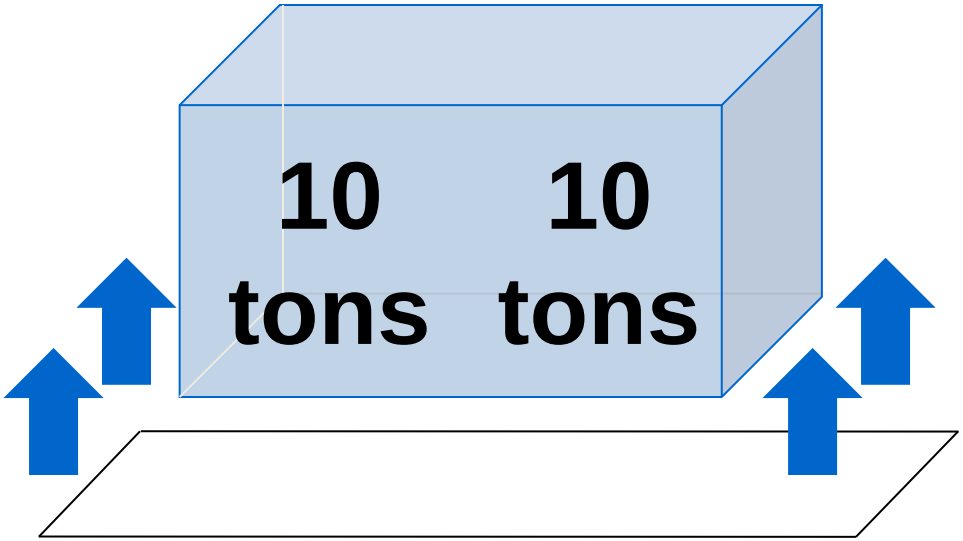
10 tons



5 tons + 5 tons

= 10 tons combined

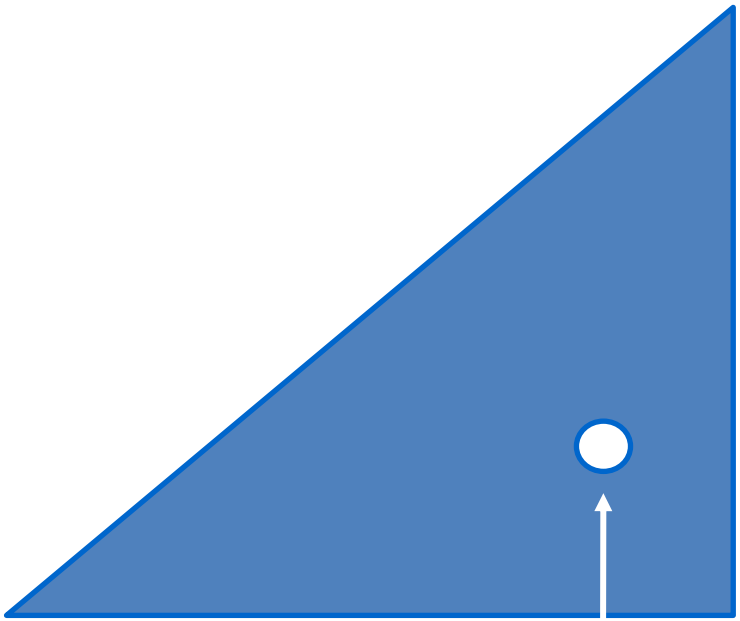
Or you can use 2, 5 ton jacks, as the 10 ton weight is divided across 2 jacks.



5 tons each

= 10 tons each side

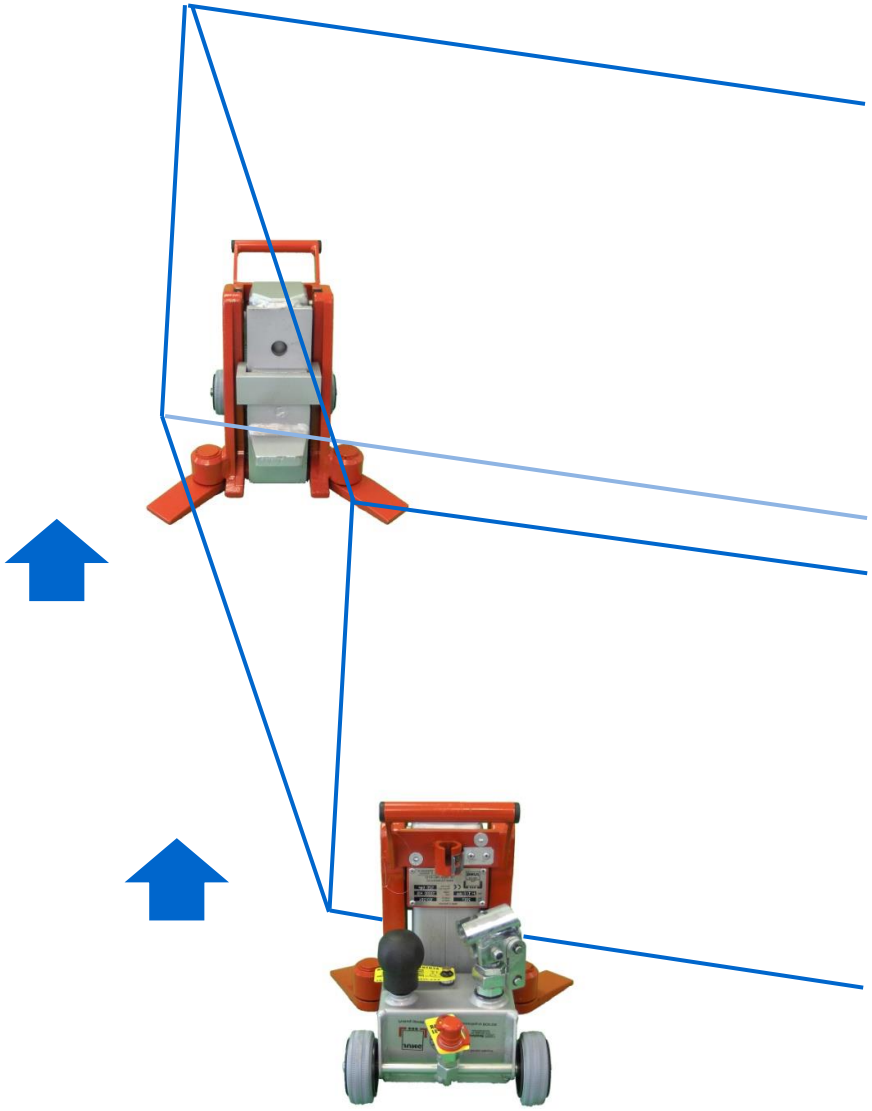
And if you are going to lift-up all 4 corners at the same time, each jack must carry 5 tons. So, use four 5-ton jacks to carry the total weight of 20 tons.



Center of Gravity

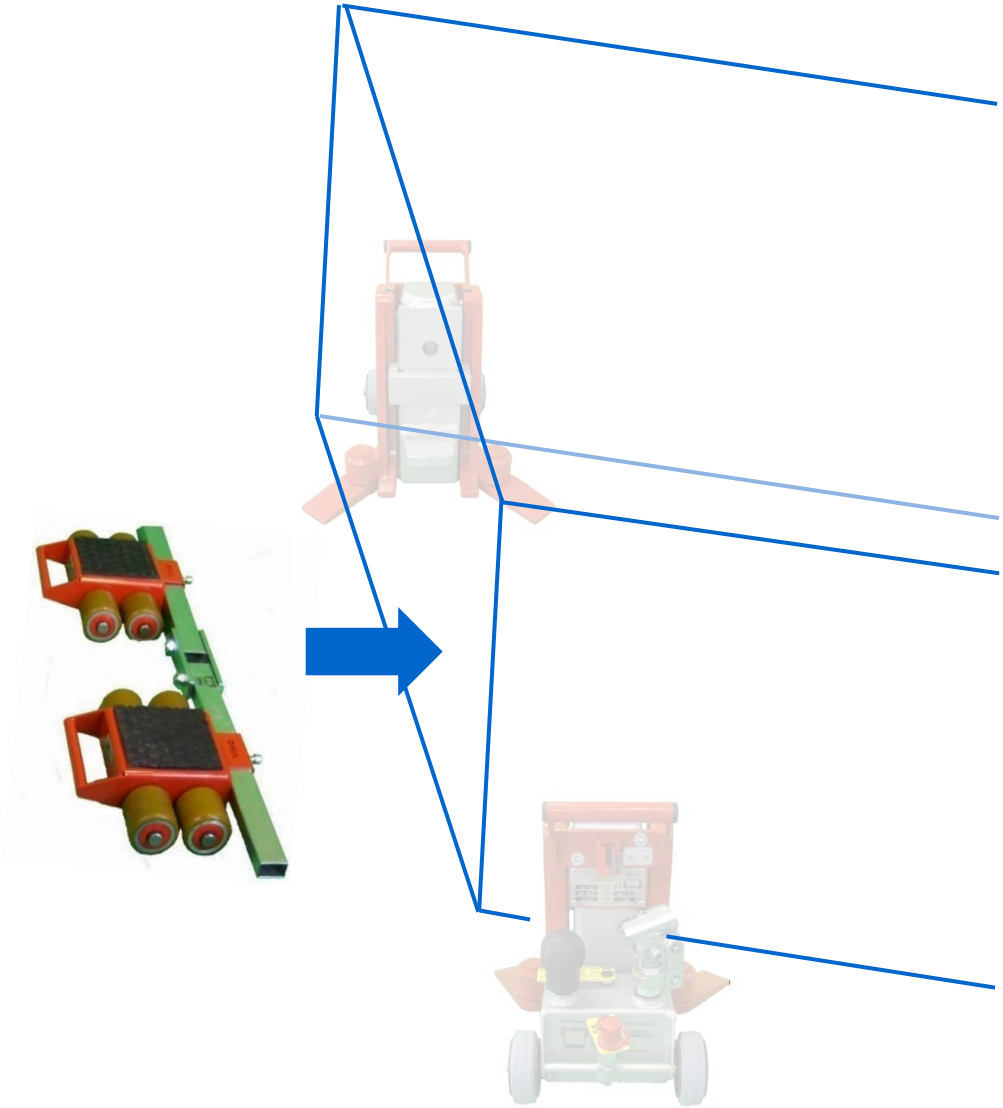
If you have an oddly shaped load with an uneven weight distribution, please call us. We will advise you which jack is suitable to use.

How to use



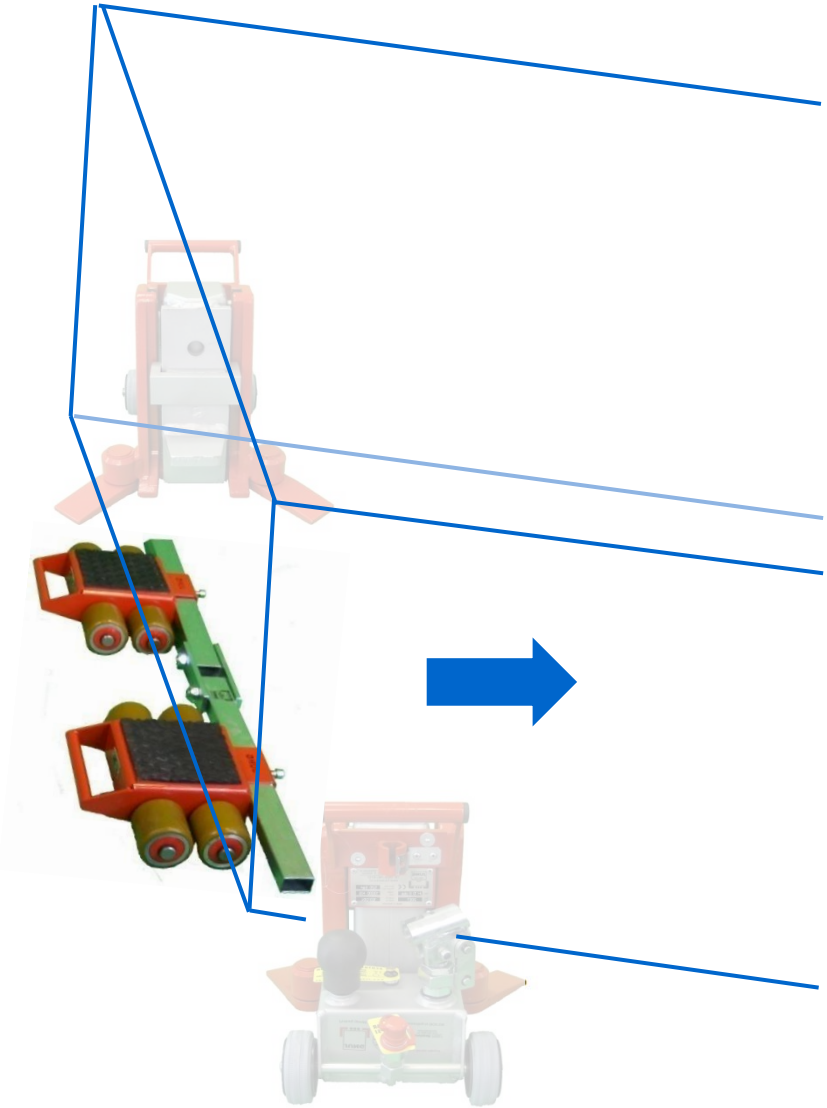
Step 1:

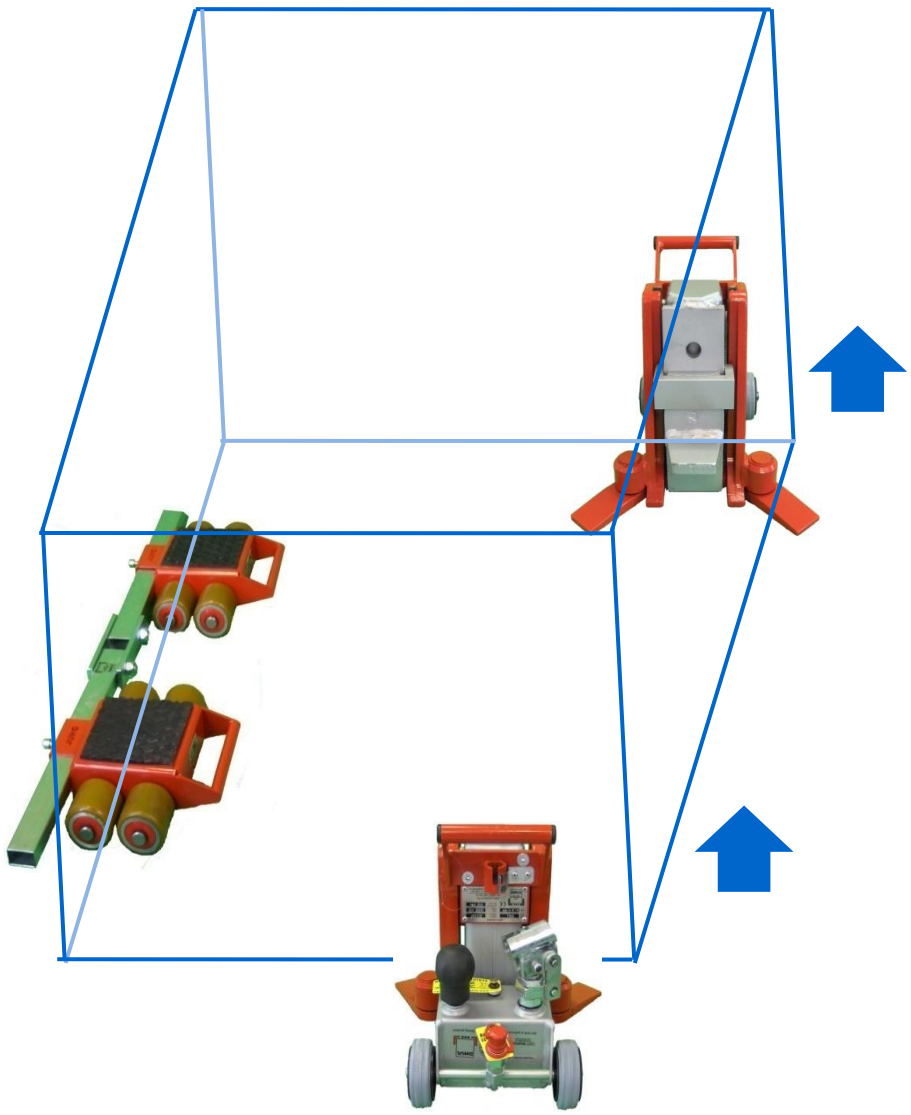
Lift-up the back end of the load first. You can use one or two jacks simultaneously.



Step 2:

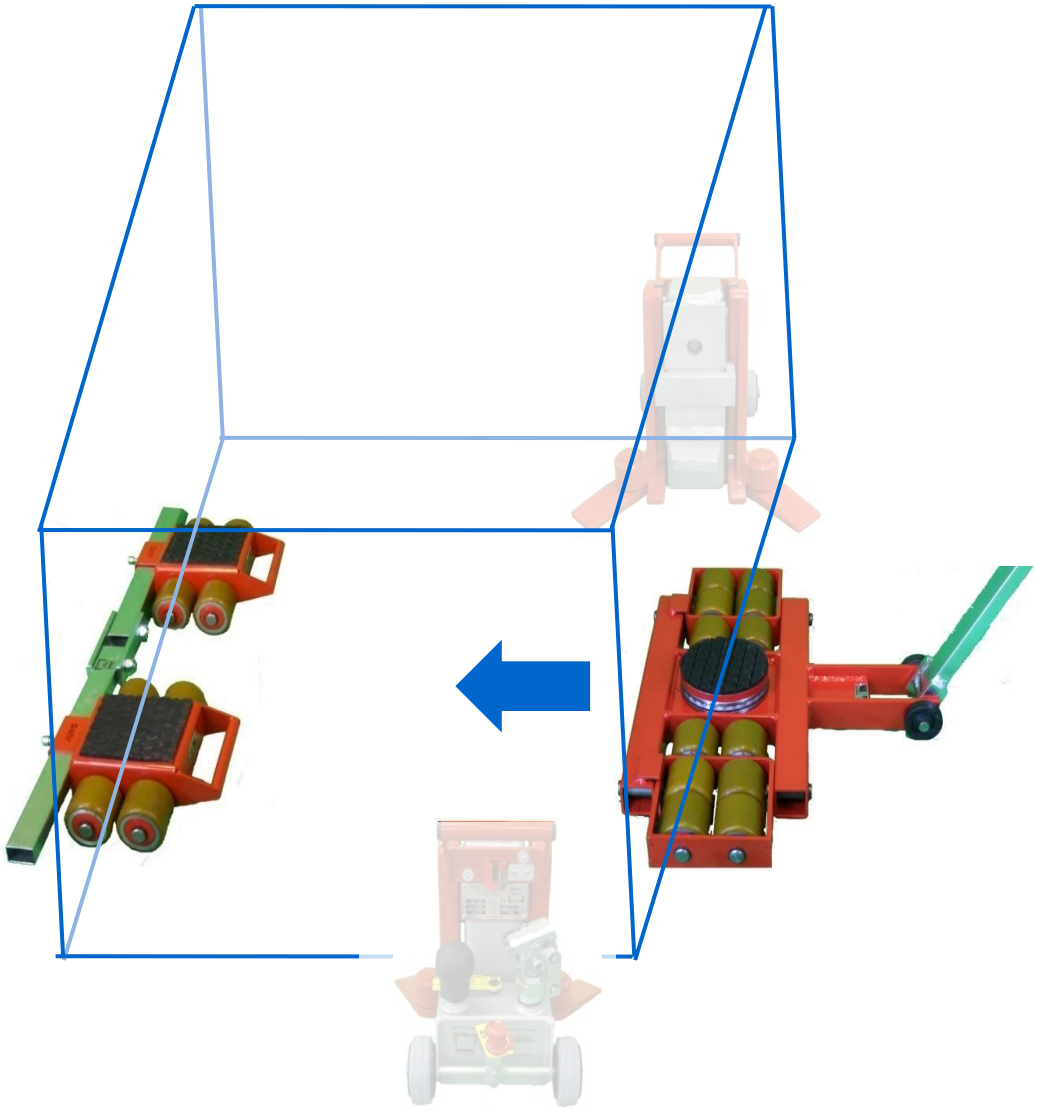
Slide the rear dollies underneath the load, then lower it onto the dollies.





Step 3:

Now lift-up the other end of the load.



Step 4:

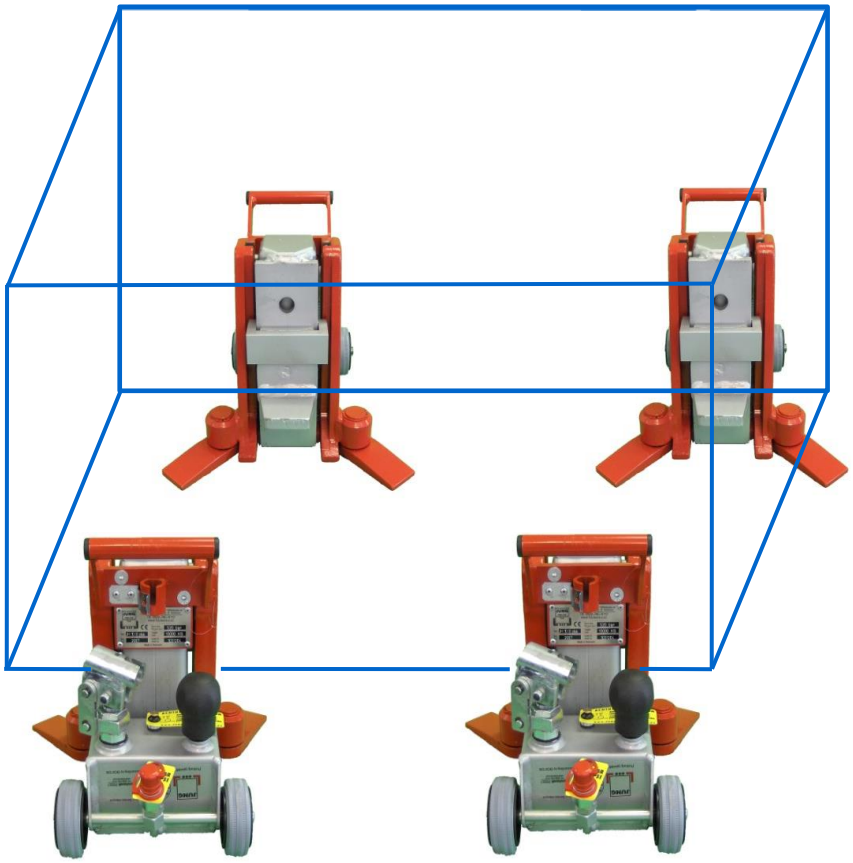
Slide the single dolly underneath.

Lower the load onto the dolly.

Step 5:

Now push the load. The pulling handle can also be hooked to a forklift for towing.

If you have just one jack, lift the load directly next to the single front dolly.



You can also use 4 jacks simultaneously to lift-up all four corners so you can position all dollies at the same time.

Made in Germany

Toolwell

Distributed by

Toolwell
North America