

# Functionality

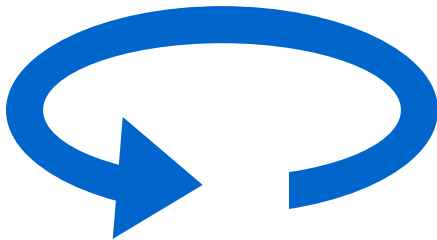
## Rotating Dollies



Made in Germany

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North America

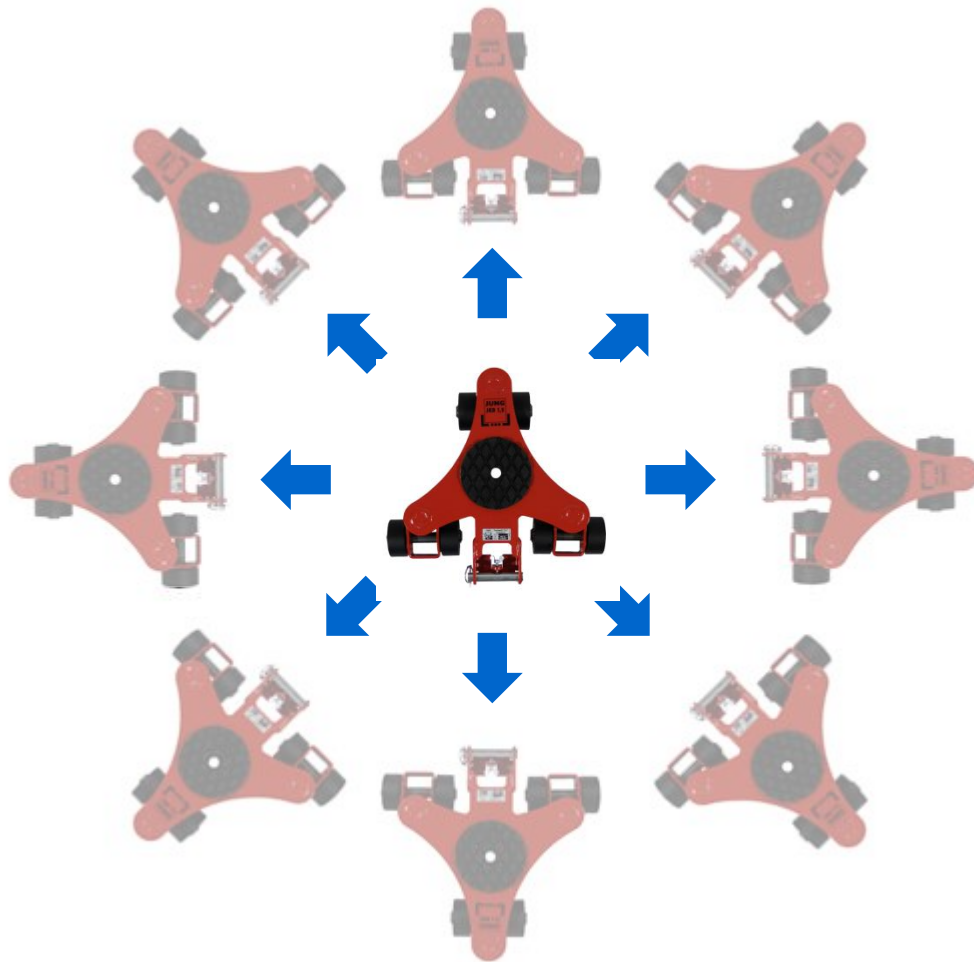


Rotating dollies are made to maneuver loads in confined spaces.



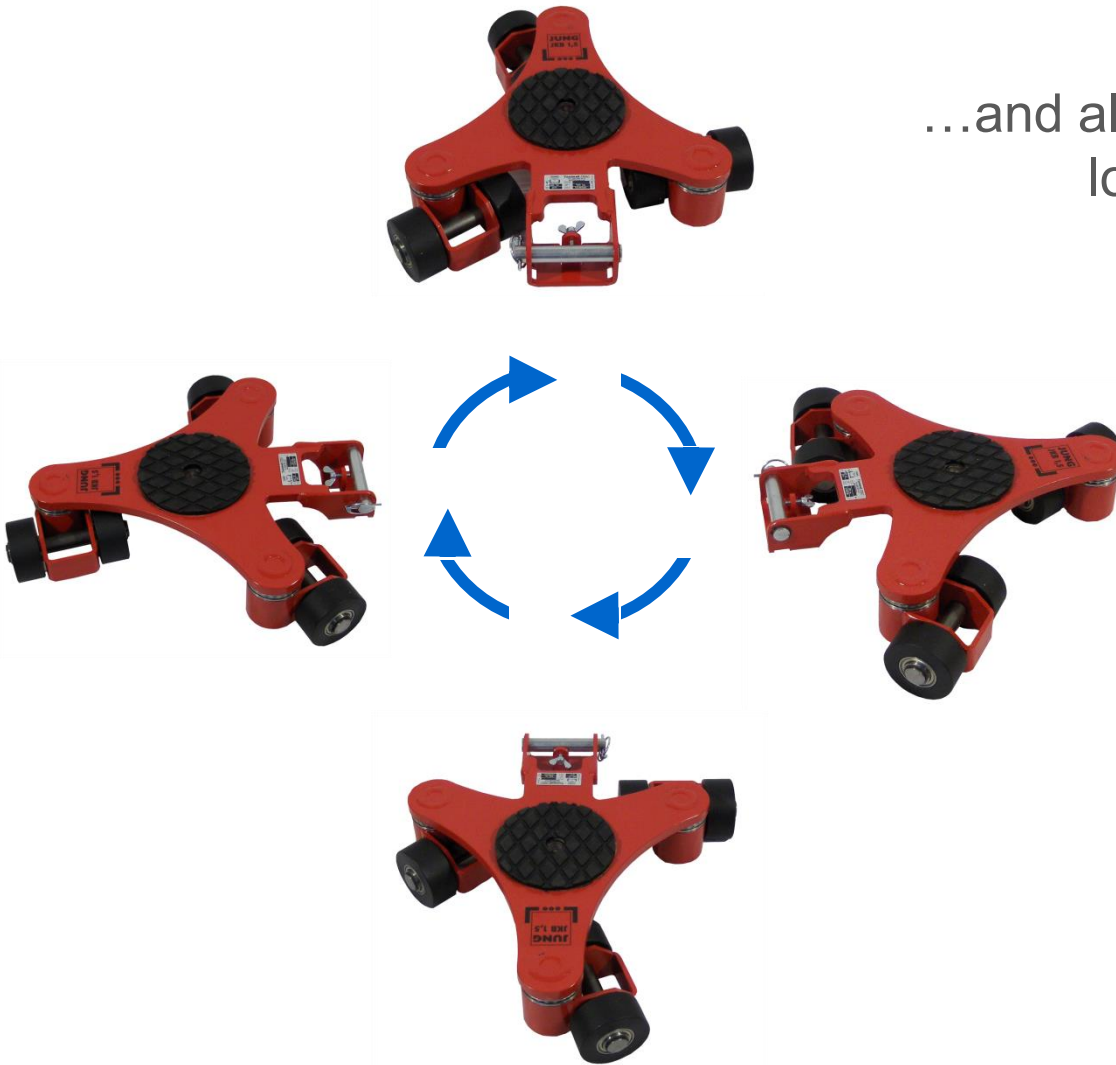
The rollers swivel individually 360 degrees and align themselves in the direction of movement by pushing on the load.



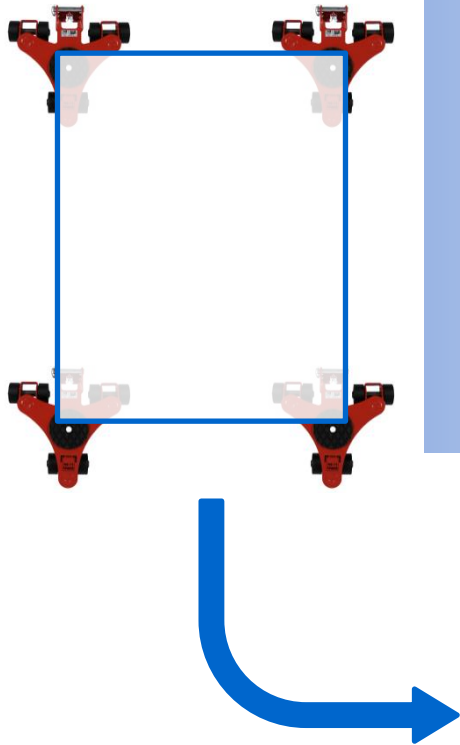


This gives the dolly  
omni-directional  
maneuverability..

...and also lets you turn the load in place.



This maneuverability lets you travel down a narrow corridor and turn around a tight 90-degree turn.



The dollies have a low-profile so the load stays very close to the ground, providing more safety and low head clearance.

**Up to R8**

**4.3 inches**



**R10 & up**

**7.1 inches**





Heavy loads exert such high pressure onto the rollers that traditional rollers have a difficult time turning into a new direction. Often crow bars must be used to turn the rollers.

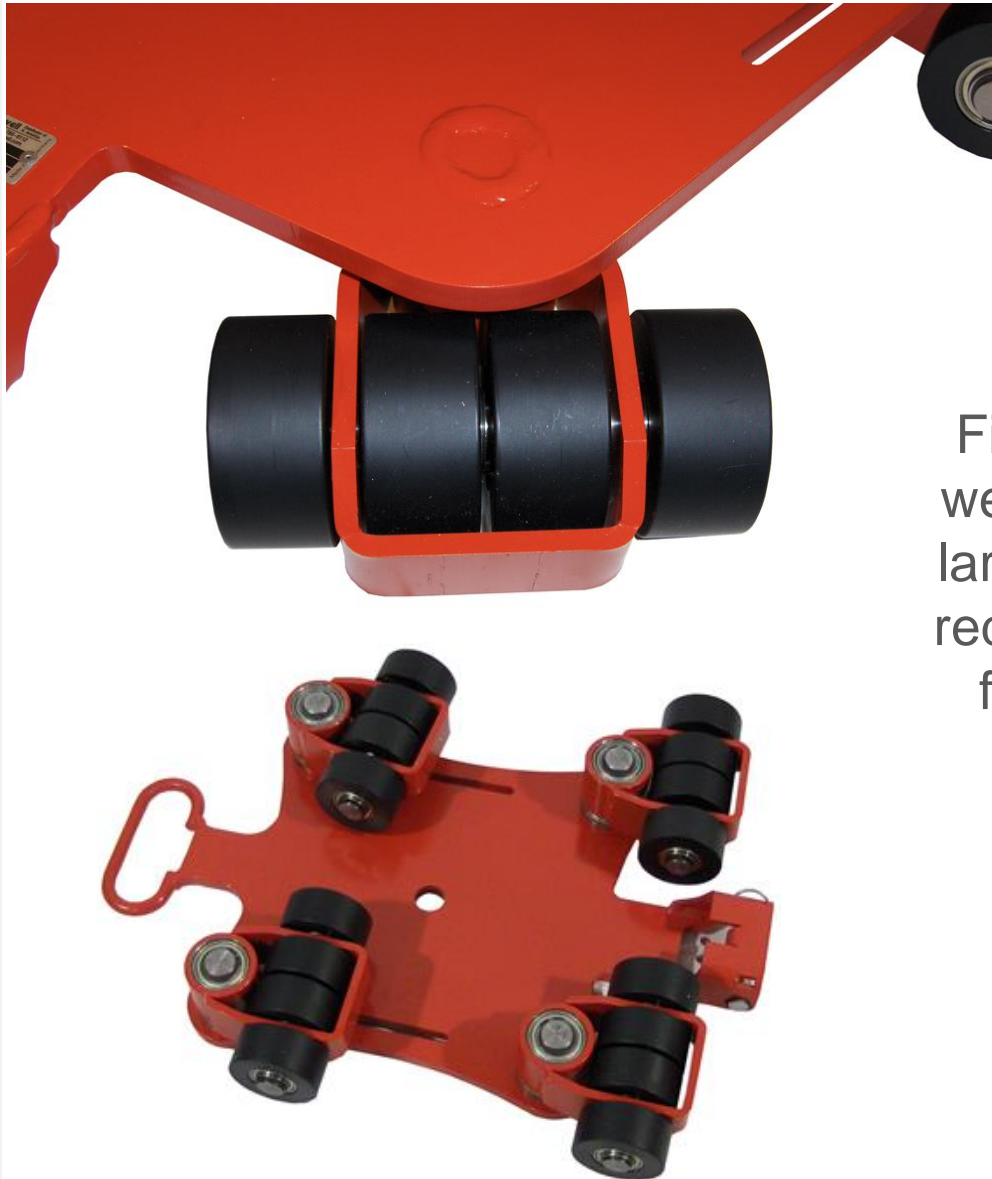


Our specially designed dollies are always easy to move and under full load will turn easily.

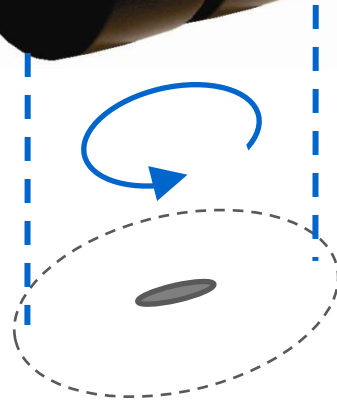
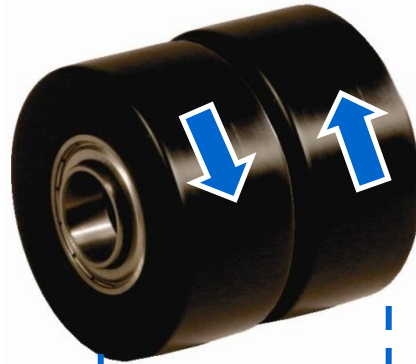
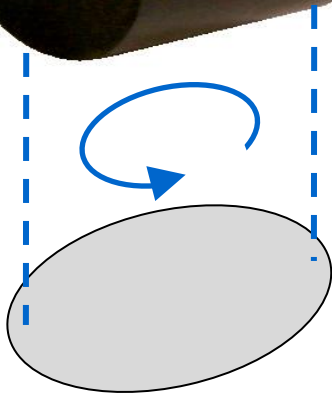
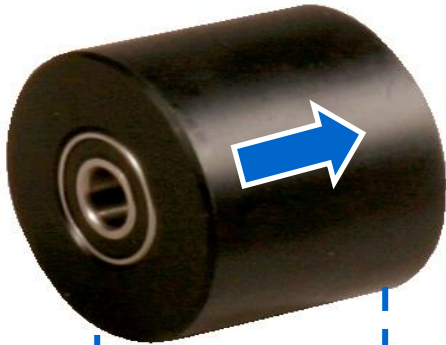
How?



**EASY**



First, the pressure of the weight is divided across a large number of wheels to reduce the friction with the floor and to assure the easy turning.



Unlike a traditional wide roller, our narrow rollers can turn in opposite directions when spinning in place. This eliminates the opposing friction forces and makes for easy turning.



Additionally, our specially formulated JUWAmid roller material has slick turning characteristics that reduces the “rubber effect” friction when spinning in place.

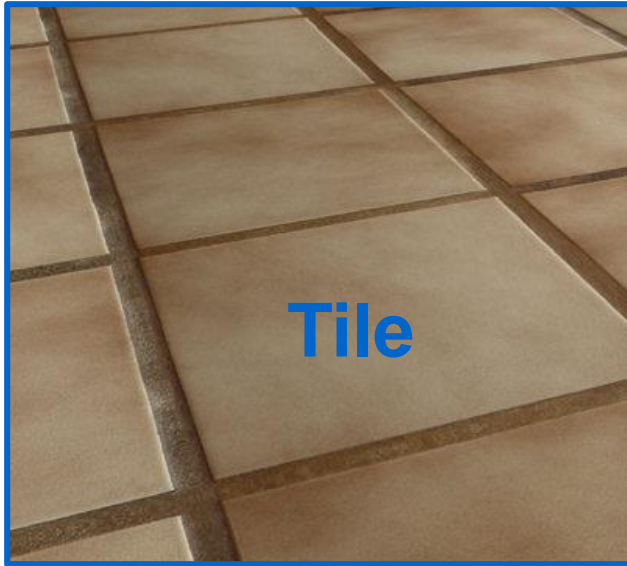
**Rollers  
follow**

**Turning  
point**



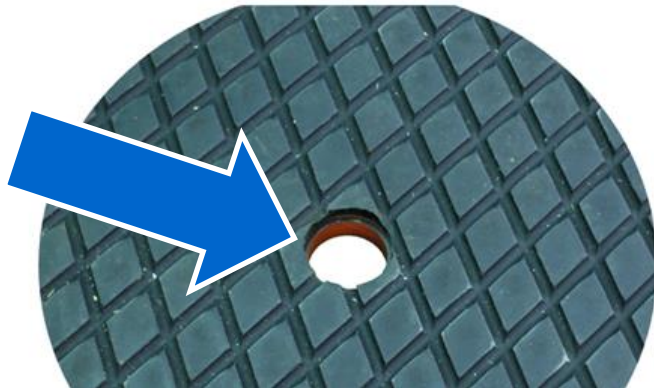
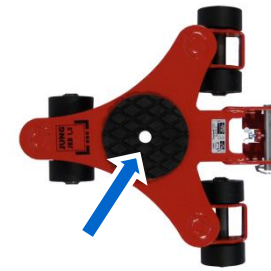
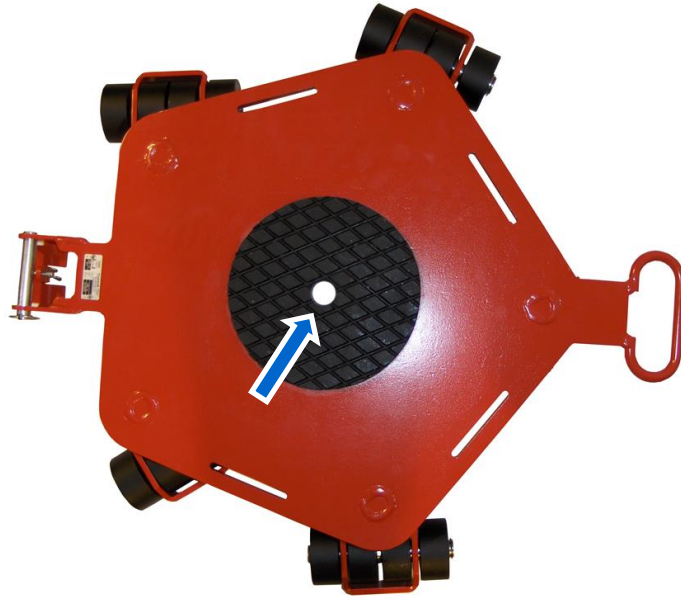
The rollers are mounted in rotating cassettes which lead the rollers into the turn.

This “follow-behind” design assists for easy turning of heavy weights.

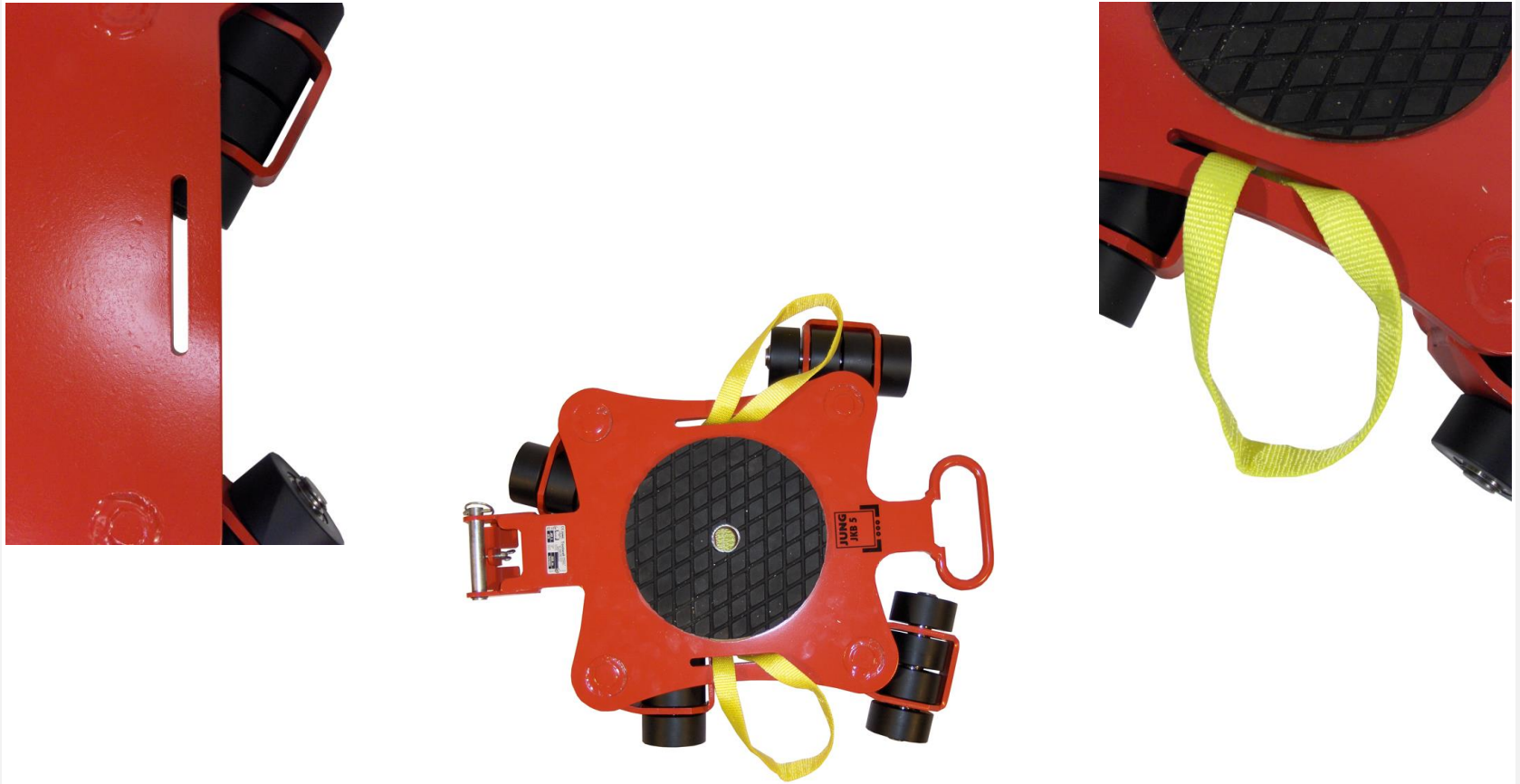


The rollers will also not damage or mark floors, even on tile or sensitive epoxy.





If you are worried about slippage, the dollies come with a center hole which allows you to use a holding bracket or tie down rope to affix the dolly to the load.



In addition, the dollies have side slots to accommodate tie down ropes.





The dollies have an extended bracket for connecting accessories.



The larger dollies have in addition a carrying handle.



Never grab in between the rollers. This can hurt your hand when the rollers swing.



Use the handles to carry the dolly.



In most applications, the dollies are used without handles and connecting bars.

These pulling handles and connecting bars  
sold as optional accessories.



**Optional  
accessories**





A pulling handle can be attached to the dolly via its extended bracket.





The pulling handle is used for 2 reasons:

1. For towing & turning
2. For directional and stopping control.



The pulling handle swivels up and down.

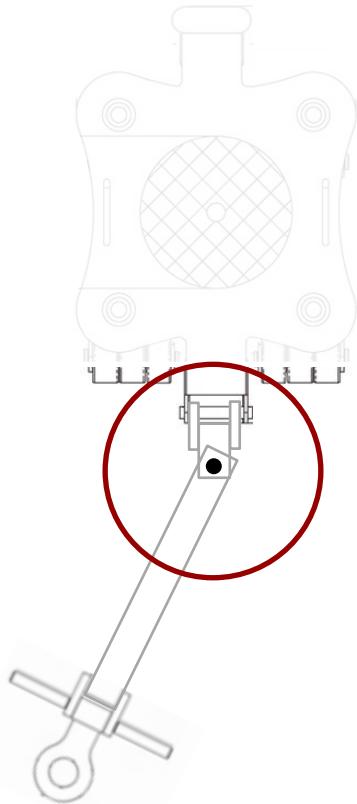


The towing eye allows for attachment to a forklift. The towing eye is detachable

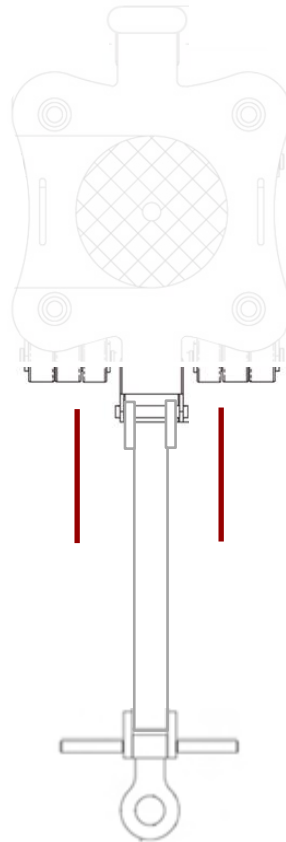




**NO**



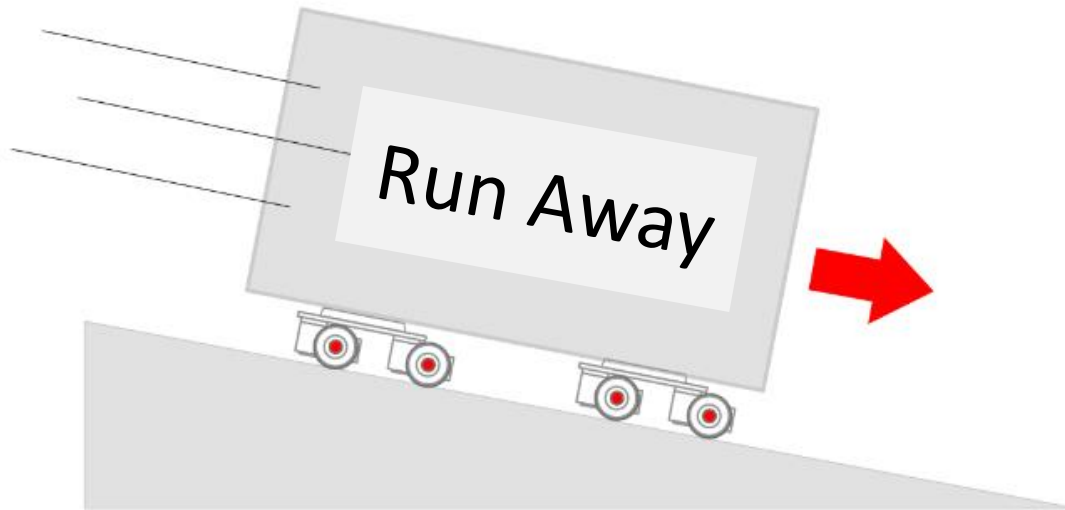
**YES**



The handle locks in a straight-forward position and intentionally does not pivot so operators have some control against fishtailing of the load.

# Warning!

Even with a pulling handle, do not use the dollies on uneven surfaces or declines. The dollies have such low rolling resistance that a load will run away even at declines of 1 degree.



The connecting bar is used primarily for a 4-dolly configuration. It will drag along any dolly that has lost contact with the load due to a recess in the ground.





The connecting bar slides into the extended bracket, then locks into place at any desired width.

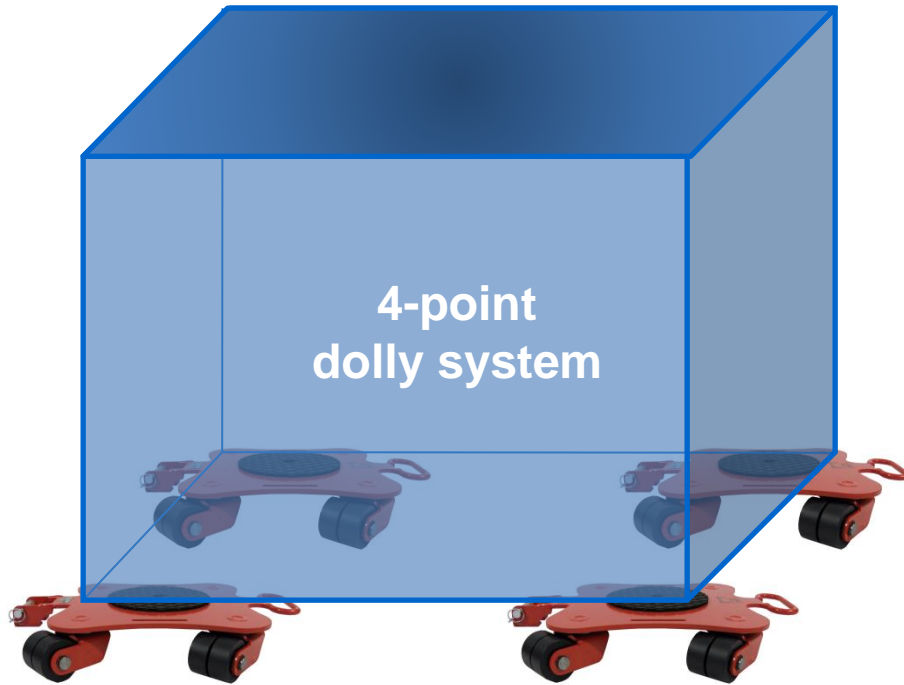
# 3-point



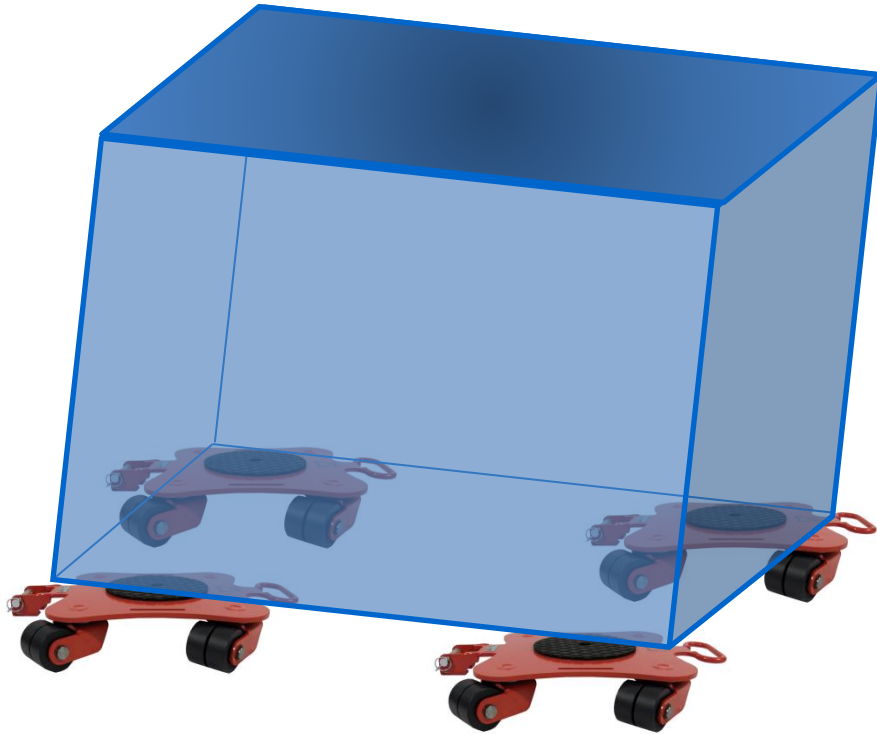
vs.

# 4-point

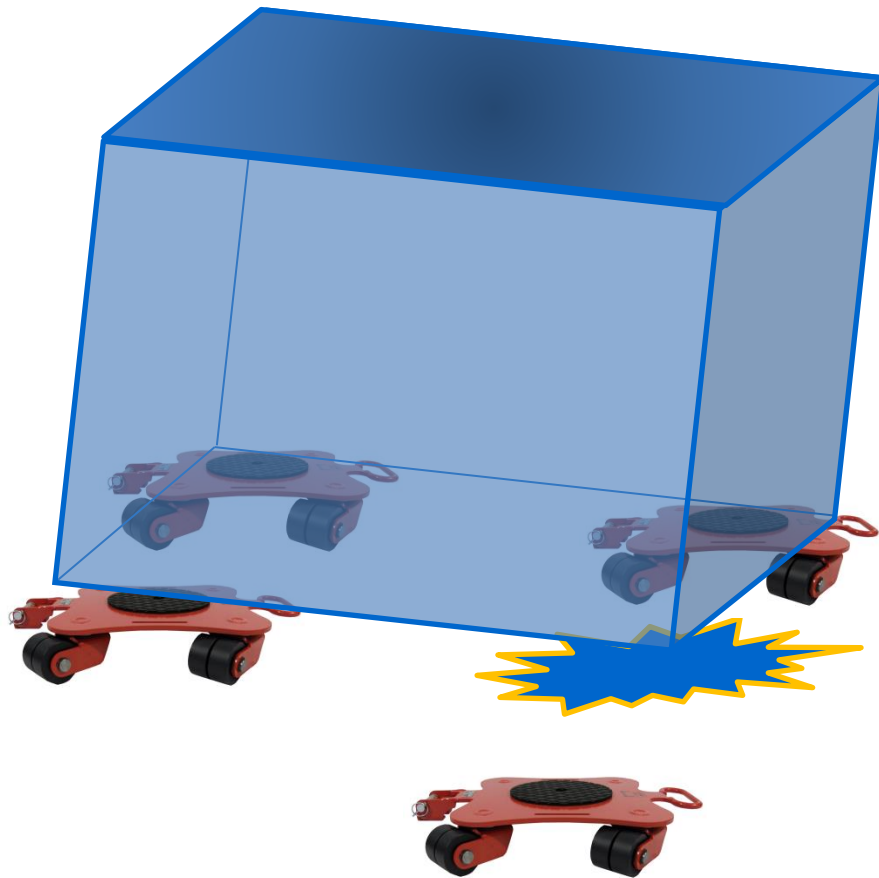




Most customers  
using rotating dollies  
use 4 dollies to  
support the load.



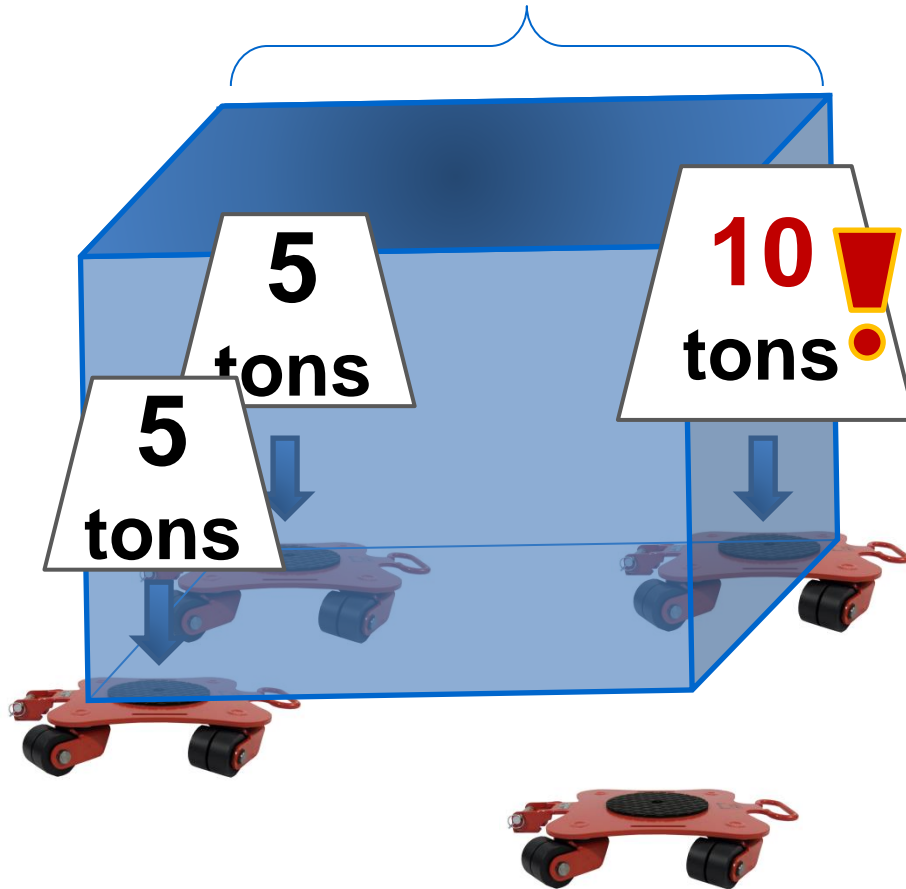
With 4 dollies please be aware that if you are traveling over an uneven surface, your load will rock just like a 4-legged chair on uneven ground.



When the load rocks on dollies that are not attached, the weight is lifted off one dolly and it slips out. The load can plummet to the floor - or worse, an operator can get hurt.



**20  
tons**

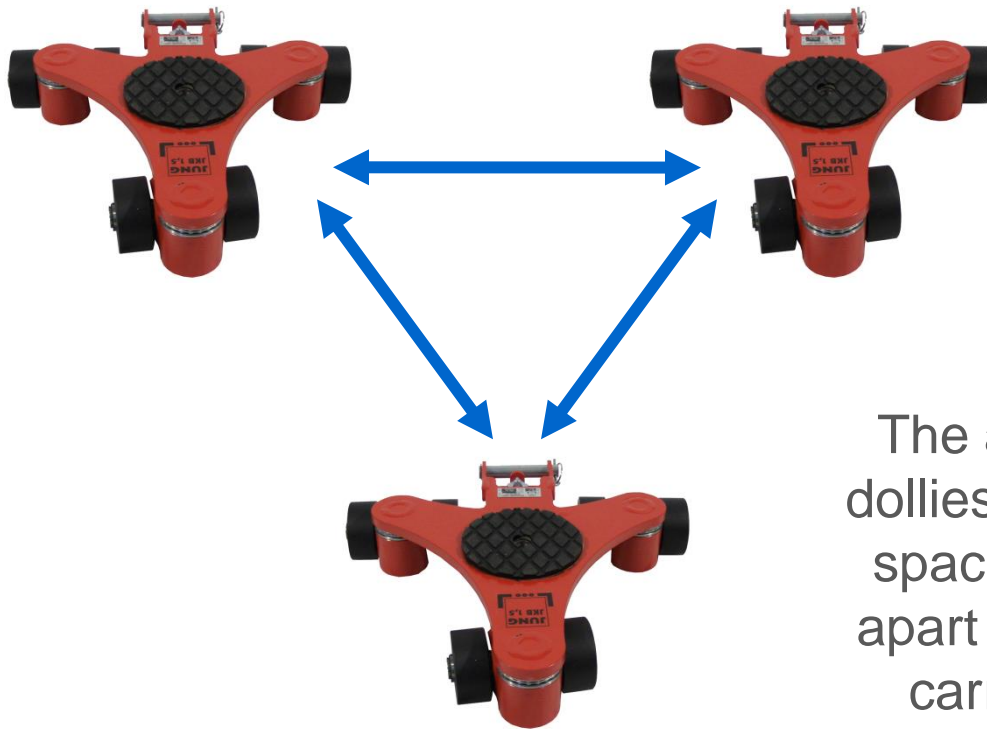


When the weight is lifted off one dolly, the weight is then added to the closest dolly.

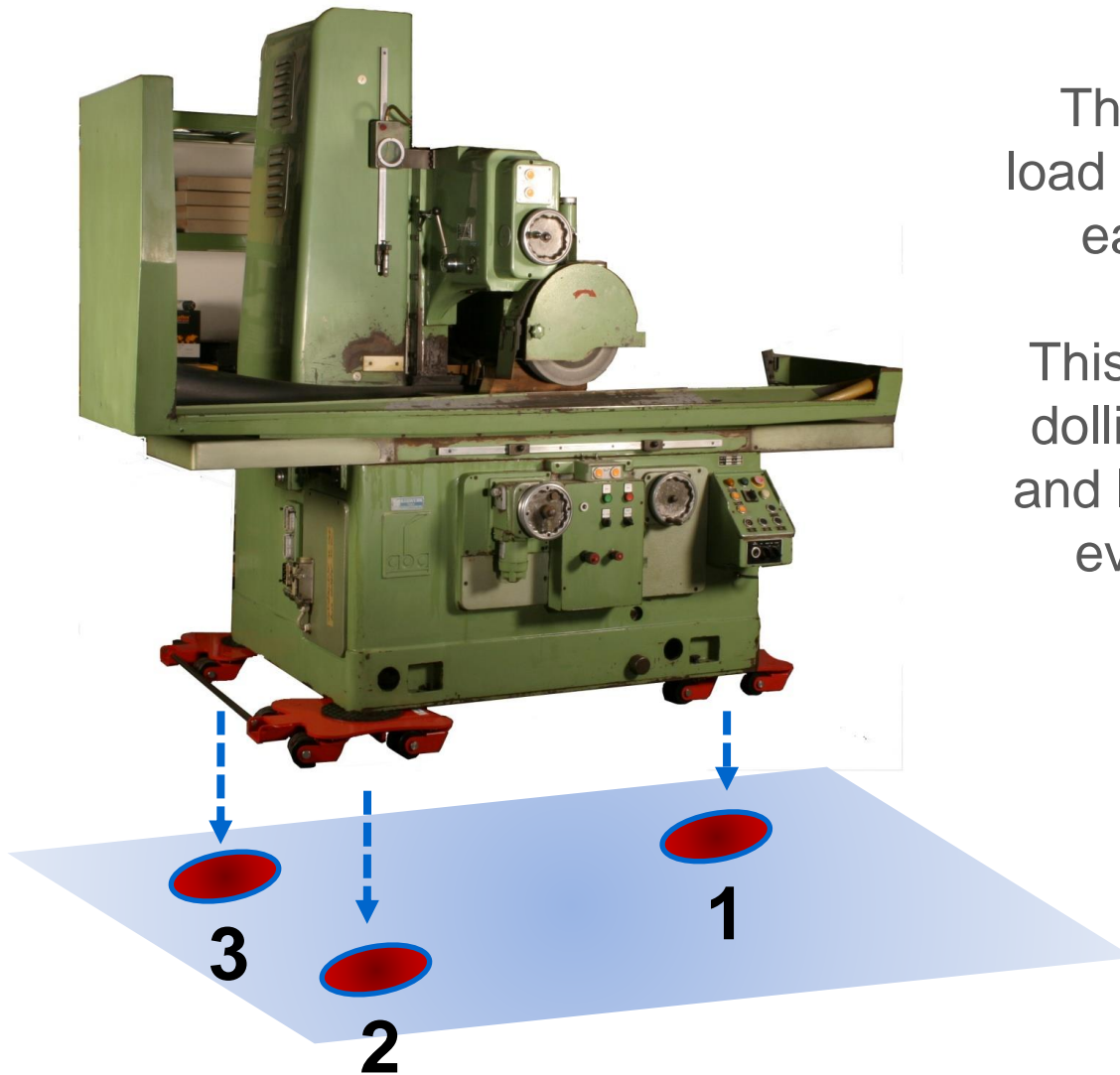
For safety make sure you have enough capacity on all dollies to carry any accidental weight transfer.



Loads almost never travel over perfectly level surfaces. Floors slant towards drains, concrete is often full of cracks, and there are often ledges to overcome. So, monitor all 4 dollies.



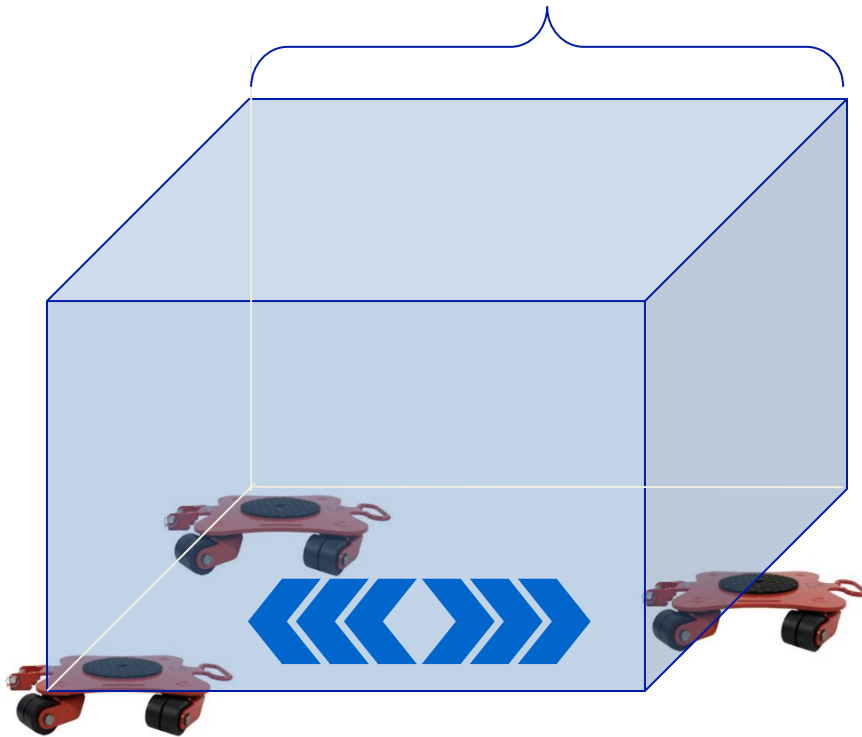
The alternative to using 4 dollies is using 3 dollies and spacing the dollies evenly apart so that each dolly will carry the same weight.



The weight of the load presses down on each dolly at all times.

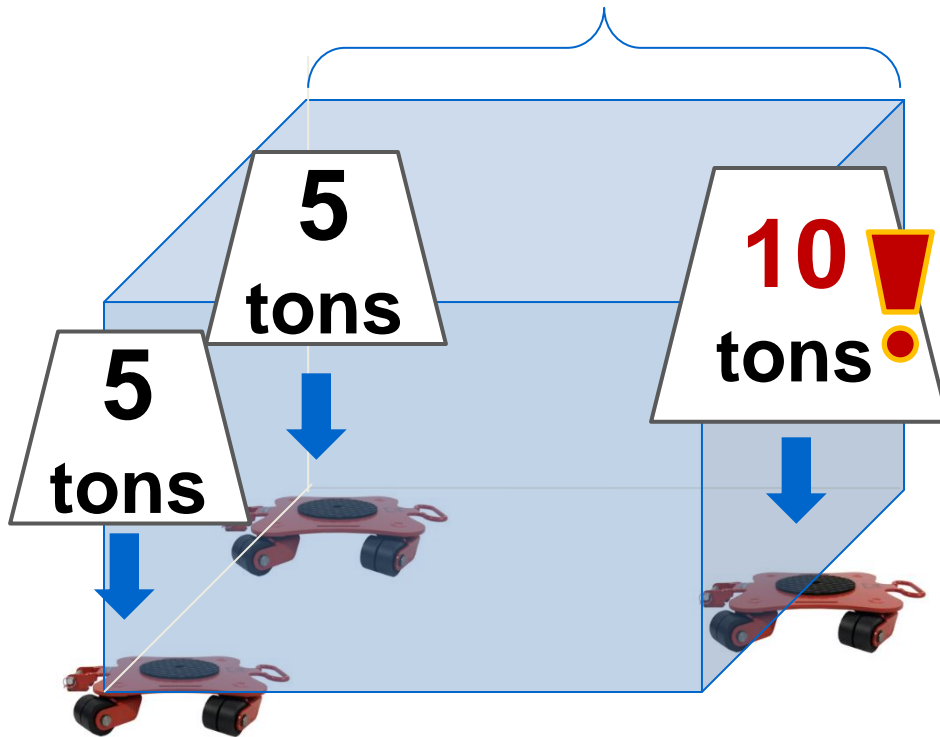
This will prevent the dollies from slipping and losing contact – even on uneven ground.

**20  
tons**



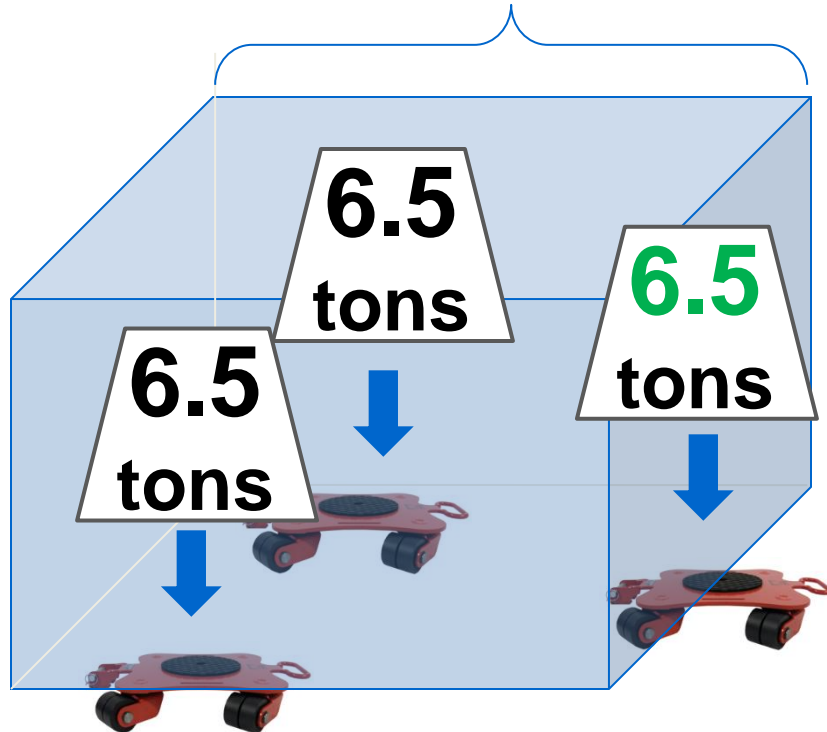
But instead of spreading the dollies apart between the front and back end of the load...

**20  
tons**

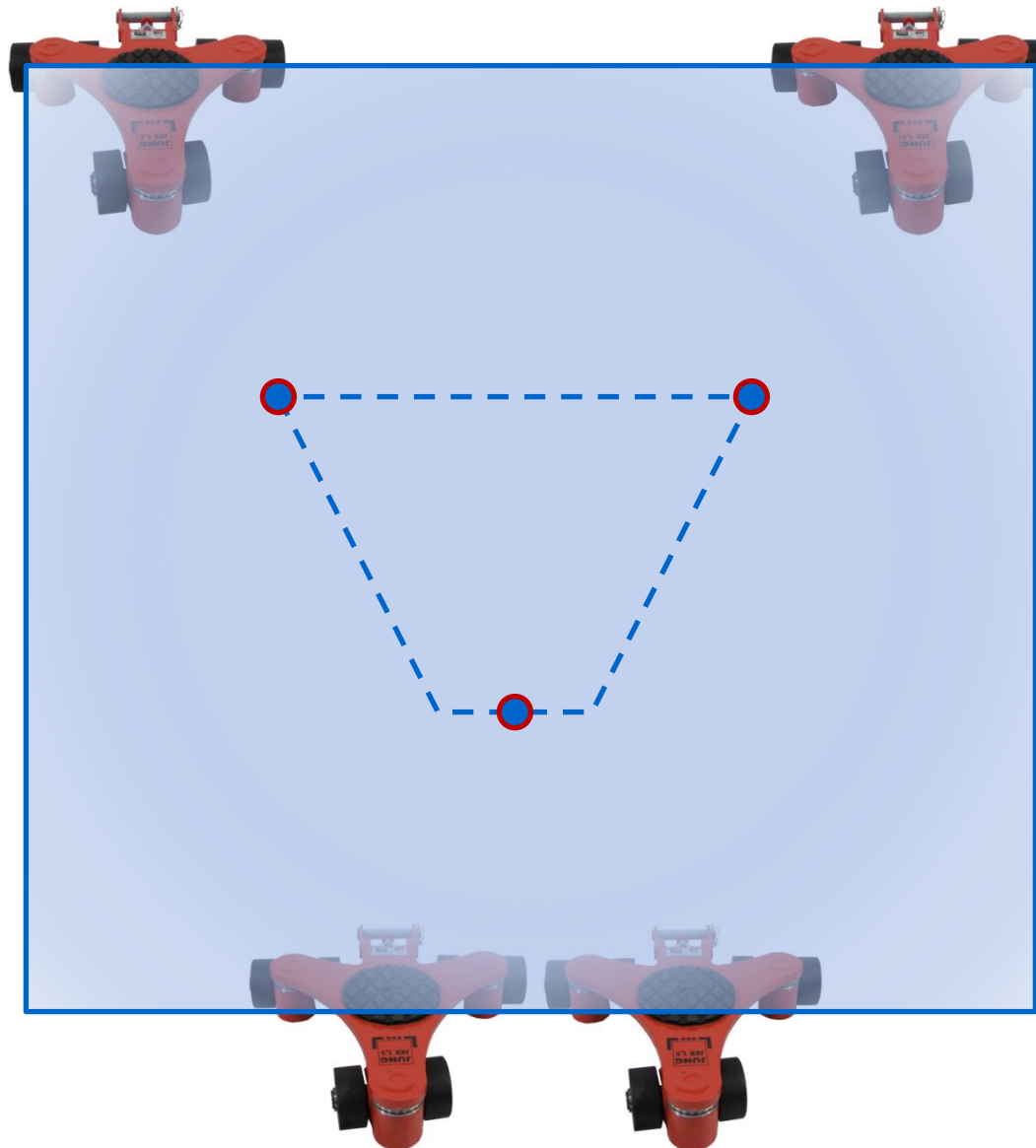


...which places more weight on the single removed dolly ...

**20  
tons**



...you may consider placing the rear dollies further into the load to distribute the weight more evenly.



If you must spread the dollies apart, you can alternatively place two dollies as close as possible to simulate a single contact point. The weight is now more evenly divided between the dollies.



# Mix & Match



# Rotating Dollies



# Transport Dollies



If you do not need as much maneuverability, please compare the rotating dollies to our steerable & straight-line transport dollies which are more economically priced.

# Load Capacity

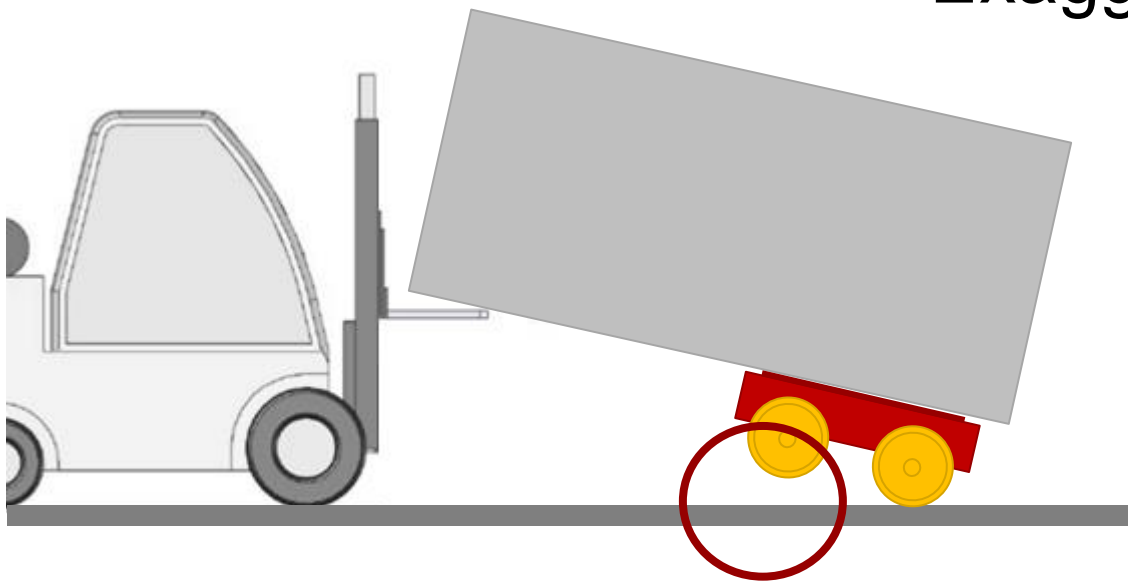


## SAFETY FACTOR

All our dollies have a significant safety capacity above and beyond the rated load bearing capacity. So even if you max out the allowed weight, you will maintain maneuverability and the dollies will not break.

Please use caution when using the dollies to support one end of a load with a forklift on the other. The height difference will tilt the dollies and lift-up one row of rollers, overloading the remaining ones.

**Exaggeration**





**Made in Germany**

**Toolwell**

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