



OPERATOR'S MANUAL

STT50-**

50 TONNE FIXED HEIGHT HEAVY EQUIPMENT SUPPORT STAND EXTENSION DOLLY SYSTEM

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STT50-**



1	Load Cap
2	Transport Trunnion
3	Logo Sticker
4	Warning Sticker
5	Compliance Sticker
6	Compliance Plate
7	Manufacturers I.D. Sticker
8	Part No. & Capacity Hard Stamping
9	High Vis Tonnage Sticker
10	Dolly Colour Code Sticker
11	Dolly Colour Code Header

Specifications

Capacity	50 tonnes
Max. Certified Height	1473mm (58")
Base Plate Diameter	495mm (19.5")
Column Material	CDS Tube
Stand Heights	500,600,762,914,1067,1220,1372mm (20,24,30,36,42,48,54")
Extension Dolly Heights	102,152,203,254,304,381,457mm (4,6,8,10,12,15,18")
Standard Reference	AS/2538:2016

Safe Operating Procedures

Before Use:

- **Visual Check.** Check the stand for obvious signs of damage prior to use. (See maintenance schedule Pg.6 for specific items).

To move this stand with a HT50 Scorpion Hand Truck:



Figure 2 HT50 Hand Truck



Figure 1 HT50 Engaged with STT50 Stand

- First adjust the handle, on the hand truck (optional, but recommended accessory) using the Turnbuckle, to a convenient height for the operator.
- Lift the handle of the hand truck to lower the engagement surface to below the level of the trunnion pins on the selected stand.
- Roll the hand truck forward until the engagement surface has passed under the trunnion pins of the selected stand and then by pushing down on the handle, the stand will be lifted clear of the floor for easy movement.

Other methods of movement:

- Other methods of movement are subject to on-site safety assessments by the relative site authority.

Positioning the stand:

- Select a solid level area (ideally concrete – see image) on which to place the stand. Position the stand using the correct load cap, **(1)** or extension dolly for the job.



Figure 3 Stands are being used on a concrete pad

NOTE: Failure to use a load cap will result in non-compliance to Australian Standard AS2538:2016 and potentially create an unsafe workplace situation.

- Stands should only be used in pairs.
- Ensure the dolly or load cap cannot slip on the surface to be jacked.
- Whilst Scorpion Jacks have designed this range of stands for use with consideration to AS2538:2016, specific mine site applications can ultimately be determined as fit for purpose through specific on-site risk assessment.

CAUTION:

DO NOT STACK DOLLIES. Scorpion Jacks International has designed their range with the intention that **only one dolly be used at a time with a stand**. SJI believes this represents the highest level of safety achievable whilst supporting a load.

Using STT50-LC-CLC777 Clevis Caps with STT50 stands:



Figure 4 STT50-LC-CLC777 in use

- The STT50-LC-CLC777 is a specialty load cap designed for use on the front tow lugs of Caterpillar 777 series truck front tow lugs.
- They allow for stands to be placed safely in a forward location, providing additional access under these machines.
- The use of these caps will make the stand very top heavy.
- Scorpion Jacks recommend placing the stand in place first and then inserting the clevis cap last or ensuring a second person is present to stabilise the stand/cap assembly while being carefully moved into place.
- Other methods of movement are subject to on-site safety assessments by the relative site authority

Stand and Dolly Selection –50T

- Scorpion Jacks manufacture a range of heavy equipment support stands, in varying heights, which feature a common size base plate. With the use of various extension dolly sizes, height adjustment can be achieved for specific applications.

Maximum Permitted Height:

- The maximum permitted height (excluding STT50-58) that any Scorpion Jacks 50T stand, (and dolly) can achieve is 1473mm (58").
- Therefore, all stand heights up to and including the STT50-36 (914mm) stands can use any extension dolly from the Scorpion range without exceeding the maximum permitted safe working height.



Figure 5 STT50-30 Stand & STE50-15
Extension. = 1143mm (Compliant)

- However, for stand heights above 36" (**42", 48", 54"**) **these are restricted in the range of dollies that can be used** to not exceed the maximum permitted safe working height.

e.g. STT50-42, 42" stand + 18" dolly = *60", which exceeds 58" maximum permitted height*, therefore 15" dolly is maximum height dolly permitted with this stand.

- To further assist with dolly selection, colour-coded striped stickers have been added to the base of all extensions. These stickers perform a secondary role in providing a high visibility reference to their usage and tonnage.



Figure 6 STE50-15. Note pink ID
Label indicating tonnage, and use

- These colours are referenced against a colour code chart on the stand itself (see below).

4" 100mm	6" 150mm	8" 200mm
✓	✓	✓
10" 250mm	12" 300mm	15" 380mm
✓	✓	✓
18" 450mm	20" 500mm	22" 550mm
✗	✗	✗

NEVER STACK DOLLIES!

Figure 8 Colour Code Sticker for STT50-42 noting Dolly Compatibility



Figure 7 STT50-42 Stand

- If the color is ticked on the stand label, the dolly is permitted for use with that stand height.

Maximum Dolly Heights Reference Guide for Taller Stands

- Maximum dolly height for stands is listed below*:
- 42" stand – 15" dolly
- 48" stand – 10" dolly
- 54" stand – 4" dolly
- 58" stand – no dolly

Assembly

- Stands are transported in enclosed wooden cases (where possible) with the load cap and extension dollies included. Once goods are unpacked, ensure load cap is replaced onto the top of the stand.
- Hand trucks are freighted with their handles folded up. Refit by removing pins A, position turnbuckle and refit pin. Adjust the handle to suit the operator once this has been completed.

Maintenance

- Visual Check of structural integrity. Damage can occur through misuse; always check your stand before use. Areas to review are:
 - Load Cap. Over time will “bruise” through use. Ensure the load cap is still able to retain a 100mm bar at 5 5-degree orientation from perpendicular.
 - Base Plate. If used on soft surfaces for prolonged periods, the base plate can “cup”, bowing in the middle and reducing the surface contact area of the base plate. If this occurs, immediately remove the stands from use and return to Scorpion Jacks for further assessment.
 - Gussets. Can be subject to external damage from the workplace. If gusset plates are damaged. Remove from use.
 - Support Column. Can be subject to external damage from the workplace. If column is damaged tag out and contact Scorpion Jacks.
 - Replace Sticker/I.D. kits as required.
 - Ensure tyre pressure is maintained at 50PSI on the optional hand-truck.
 - Ensure turnbuckle is greased on hand-truck.
 - Grease optional tilting load caps every 6 months or as required.
 - Ensure base plate is free of dirt and mud paying particular attention to the area of the base plate which is stamped with the stands part number of SWL.
 - Optional off-site NDT weld testing is also an optional maintenance measure. Scorpion Jacks do not specify this, rather leave it to individual customers to follow their preferred maintenance routines.

SCORPION JACKS INTERNATIONAL - WARRANTY

- Scorpion Jacks International guarantees for 12 months from date of purchase, to correct by repair or parts replacement, without charge, any defects arising from faulty workmanship or material.
- Contact Scorpion Jacks immediately should a potential warranty matter arise to receive approval from an authorised company representative to return the item for inspection.
- A Scorpion Heavy Equipment Support Stand or Extension dolly subject to claim under this guarantee should be returned as a complete unit to:

Scorpion Jacks International
7/66 Pilkington Street,
Garbutt, Q Australia 4814.

- The Scorpions Jacks International Warranty set forth in the previous paragraph above does not apply...
- To any defect of failure attributable to accident, misuse, abuse, negligence, or non-observance of local regulations on the part of the user.
- If the Stand/Extension Dolly has been serviced by a person not authorised by Scorpion Jacks International to do so, or with non-approved parts.
- To freight costs to and from Scorpion Jacks International.

