



Super Mega to Mega Adaptors



Important Notes

All excavation work must be thoroughly planned before work commences on site to identify hazards and assess risk.

These instructions form guidance for Super Mega to Mega Adaptors. Non-standard applications should be approved by a suitably qualified engineer.

Ensure all personnel engaged in installation operations are properly briefed and adequately supervised by a competent person.

THIS USER GUIDE IS NOT CONTROLLED WHEN PRINTED

You can also access this User Guide to [download as a pdf](#) from the Groundforce Technical Library.



A 3D animation showing the Mega Brace is available to [watch now](#) on our YouTube channel.

**IF IN ANY DOUBT SEEK FURTHER ADVICE:
ON FREEPHONE - 0800 000 345**



Certification Number 14419
ISO 9001 • ISO14001 • ISO45001

Rev	Date	Comments	Initial
1.2	23/02/23	Amended item code	DSW

Introduction

The Super Mega to Mega Brace adapters are ancillary items that allow the Mega Brace to be pinned to the Super Mega Brace, facilitating its use in long and narrow excavations. The adapters allow a Mega Brace leg to be pinned at a corner with a Super Mega Brace leg. This is intended to help the designer achieve longer clear span tanks that would otherwise be limited by the bending capacity of the Mega Brace. The adapters consist of three distinct components as shown below in 'Equipment Identification'.

Equipment Identification



Super Mega Rough Adjuster End Adaptor (**SMG.RAD**)
Weight: 94kg



Super Mega Rough Adjuster End Adaptor Plinth (**SMG.RADP**)
Weight: 35kg

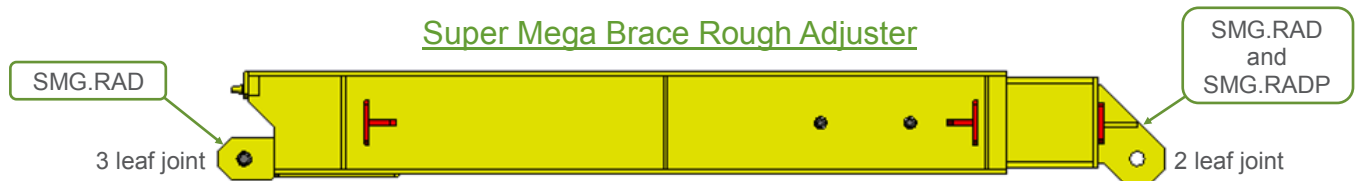


Super Mega Hydraulic End Adaptor (**SMG.HAD**)
Weight: 86kg

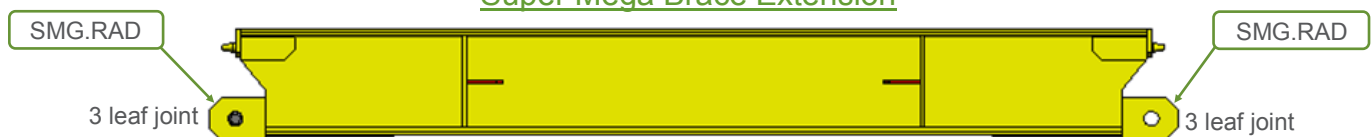
Super Mega Brace Hydraulic Unit



Super Mega Brace Rough Adjuster



Super Mega Brace Extension



SMG.RAD is used to connect a Mega hydraulic unit to:

- A Super Mega Brace Hydraulic unit (3 leaf joint end)
- A Super Mega Extension (3 leaf joint)



SMG.RAD + SMG.RADP is used to connect a Mega Hydraulic unit to:

- A Super Mega Brace Rough Adjuster (2 leaf joint end)



+



Note: The Rough Adjuster Plinth (**SMG.RADP**) is only required to connect the Rough Adjuster Adapter to a Rough Adjuster unit, it is not required for fixed length extensions or the hydraulic unit unless the Mega frame is inverted.

Assembly Procedures

Safety Notes: Extreme care and adequate precautions must be taken to prevent trapping fingers during assembly.



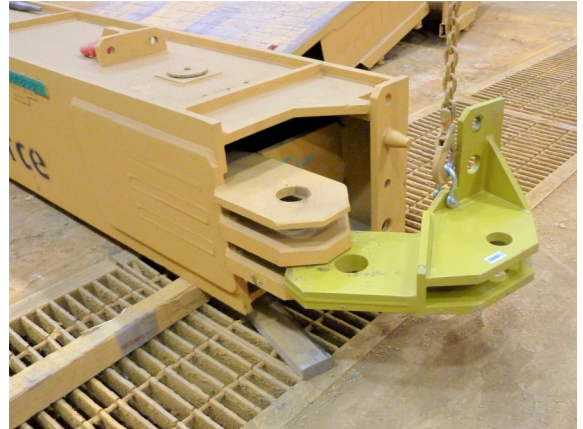
Components must be lifted from the correct red lifting points provided. All slings, shackles and any other lifting equipment must have current test certificates and the Working Load Limit (WLL) clearly marked.



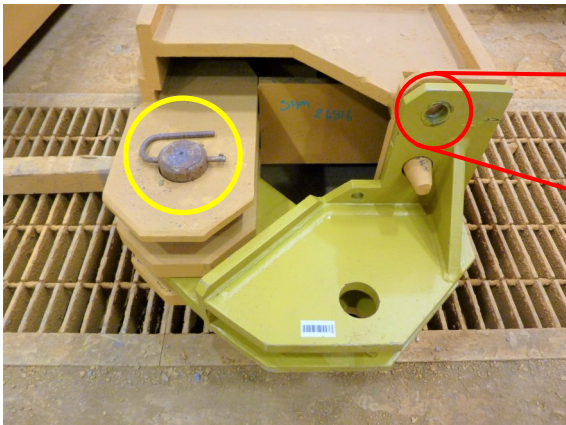
1. Using a Rough Adjuster Adaptor (SMG.RAD)



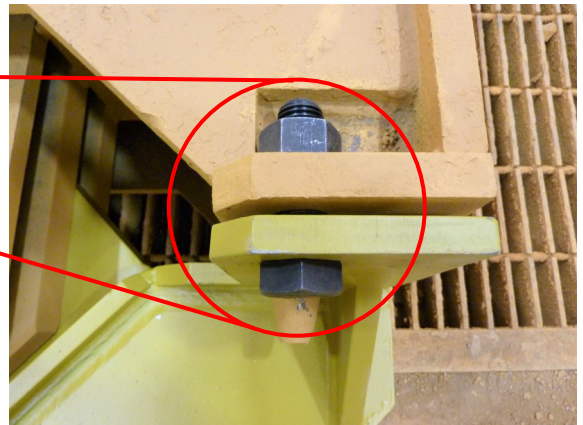
Super Mega Rough Adjuster End Adaptor (SMG.RAD)



1. A Rough Adjuster End Adaptor shown being connected to Super Mega Brace Rough Adjuster.



2. The Rough Adjuster End Adaptor and Super Mega Rough Adjuster is connected using a Ref 6 - 60mm diameter pin and secured with a clip (circled yellow)



3. Insert 2 No. M30 nuts, bolts and washers top and bottom. (top shown left circled red)



4. Once assembled, the Mega Brace hydraulic ram unit can then be connected to the Rough Adjuster End Adaptor.



5. Secure using a Ref 6 - 60mm dia pin and R Clip. (see next page for complete connection)



Image showing a Mega Brace hydraulic ram unit connected to a Super Mega Rough Adjuster.

2. Using a Rough Adjuster Adaptor (SMG.RAD) with a Rough Adjuster Adapter Plinth (SMG.RADP)



Super Mega Rough Adjuster Adapter Plinth (SMG.RADP)



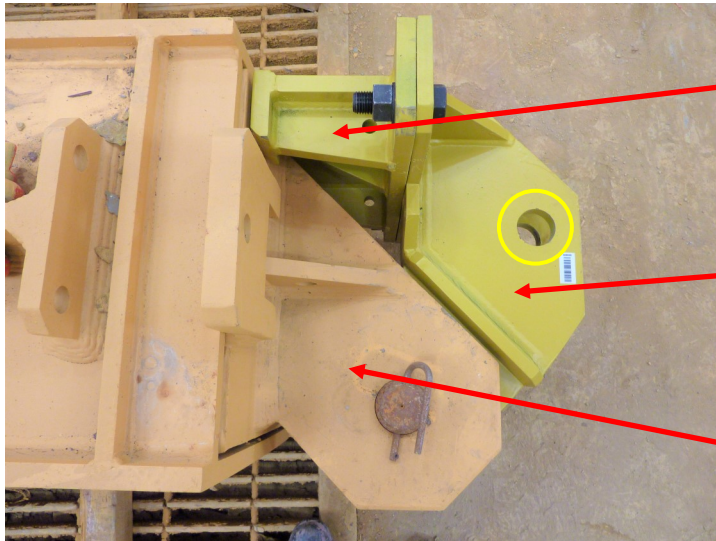
The Rough Adjuster Adapter Plinth (shown left) is used in conjunction with a Super Mega Rough Adjuster End Adaptor (SMG.RAD) (shown above) to connect a Super Mega Rough Adjuster to a Mega hydraulic unit.



1. The Rough Adjuster Adaptor and Plinth is connected using 2 No. M30 nuts, bolts and washers.



2. Image showing the Rough Adjuster Adaptor and Plinth assembled (as shown left but in plan view).



Super Mega Rough Adjuster
Adaptor Plinth (SMG.RADP)

Super Mega Rough Adjuster
End Adaptor (SMG.RMD)

Super Mega Brace Rough
Adjuster

Image showing a Super Mega Brace Rough Adjuster connected to a Super Mega Rough Adjuster End Adaptor / Super Mega Rough Adjuster Adaptor Plinth assembly.

The whole arrangement above can then be connected to a Mega Brace hydraulic unit using a Ref 6 - 60mm dia pin and R-Clip where circled yellow.

Note: If the Mega frame is inverted, a Super Mega Rough Adjuster End Adaptor / Super Mega Rough Adjuster Adaptor Plinth assembly can also connect to the two leaf end of a Super Mega Brace Hydraulic Unit.

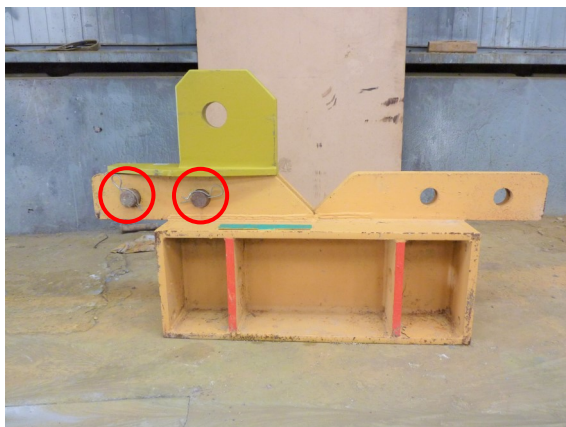
3. Using a Hydraulic End Adaptor (SMG.HAD)



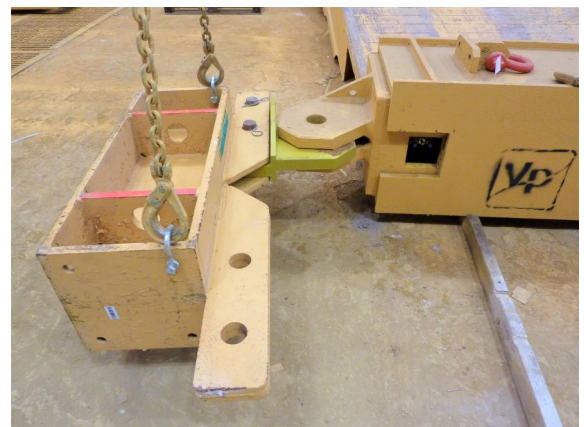
Hydraulic End Adaptor (SMG.HAD)



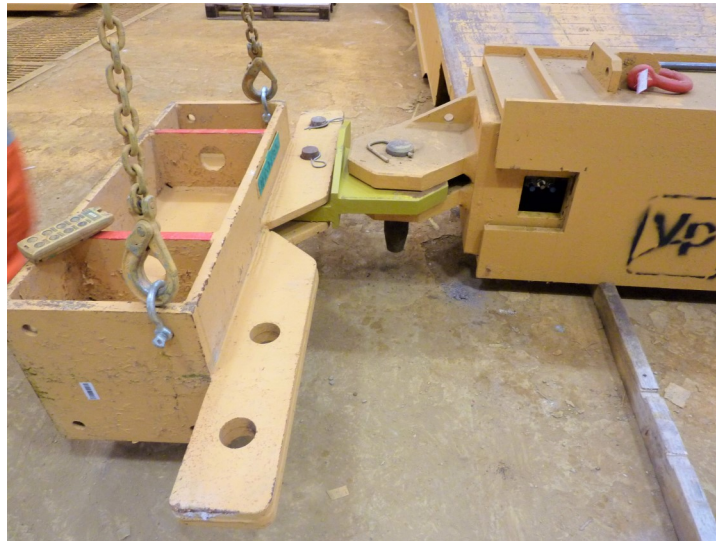
1. Ref 6 pins - 60mm dia and R-Clips are used to connect the Hydraulic End Adaptor to the Mega Brace Extension (shown circled red, bottom left)



2. Image showing the Hydraulic end Adaptor connected to a Mega Brace Extension.



3. A Mega Brace Extension can then connect to a Super Mega Brace hydraulic unit via the Hydraulic End Adaptor.

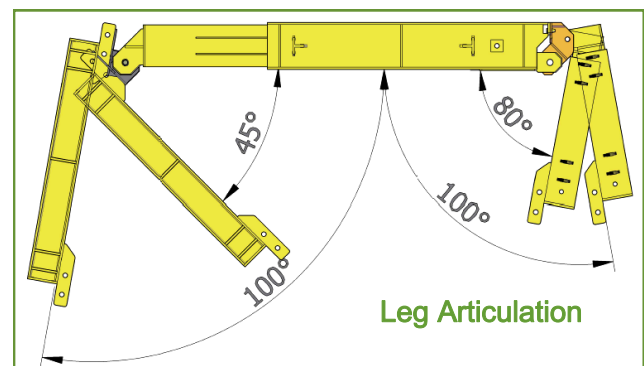


4. Image showing a Mega Brace Extension connected to a Super Mega Brace hydraulic unit via the Hydraulic End Adaptor.

Operating Range

When using the Super Mega to Mega adapters in a typical 4-sided frame configuration, the overall operating ranges of the bracing systems will be affected as follows;

- Mega Brace: operating range reduces by 510mm (i.e. Mega Brace Leg 4 becomes 2.49m - 3.49m instead of 3.0m - 4.0m)
- Super Mega Brace: operating range increases by 410mm (i.e. Super Mega Brace Leg 0 becomes 5.125m - 6.625m instead of 4.715m - 6.215m).



Do

- ✓ Inspect all components at the start of every shift
- ✓ Prepare a lifting plan, assess weights correctly and use appropriately certified lifting equipment during installation and removal
- ✓ Ensure all pins, clips and bolts are correctly fitted
- ✓ Use only lifting points for chain attachment
- ✓ Keep personnel clear of excavator slewing zone
- ✓ Always use a banksman
- ✓ Locate underground services before excavating
- ✓ Take care to avoid trapping fingers at all stages of work

Do Not

- ✗ Use pins and bolts other than those supplied by Groundforce
- ✗ Allow excessive amounts of spoil to collect on top of the frame members
- ✗ Use excessive force during installation/removal
- ✗ Stand directly under any elevated equipment
- ✗ Strike the equipment during excavation

EXCAVATION TRAINING AVAILABLE

Train your team with **Groundforce Training Services**

- Nationwide training locations
- EUSR accredited
- Flexible courses

☎ 0800 023 2663