MEEVER & MEEVER

BRACE 300 RENTAL

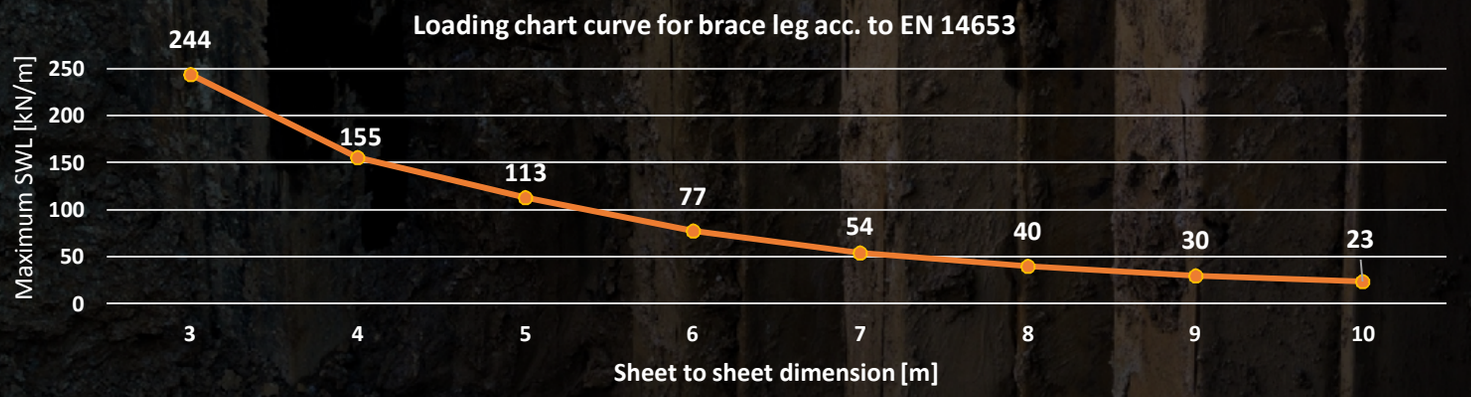
WATCH VIDEO

WATCH VIDEO

Hydraulic jack MULTIPLICATION in its first commercial application is used in excavation shoring technology in telescopic legs of prefabricated braces. Braces are installed inside the excavation on its perimeter on sheet piles or any other pilled wall. The system combines brace extensions made of H beams in length 0.5m, 1m, 2m, 3m, and 6m and brace telescopic legs with a 700mm stroke and a 30 tons axial SWL in every corner. All elements have lugs on both ends and are connected together within minutes by connector pins. Compared to the traditional way the job is done few times faster as we avoid welding and cutting of steel elements on the jobsite. It is safer as the system elements are fabricated certified acc. to EN 1090 in indoor conditions. Compared to other hydraulic shoring solutions it is safer and cheaper as putting hydraulic cylinder into every brace leg is avoided.

SPECIFICATION:

BEAM – HE300B | STEEL GRADE – S355 | DESIGN acc. to – EC3 and EN14653
MANUFACTURED acc. to – EN1090 | MAX. CHARACTERISTIC BENDING MOMENT CAPACITY – 595 kNm
AXIAL SWL acc. to EN14653 – 300 kN | MOMENT SWL acc. to EN14653 – 361 kNm



COMING SOON

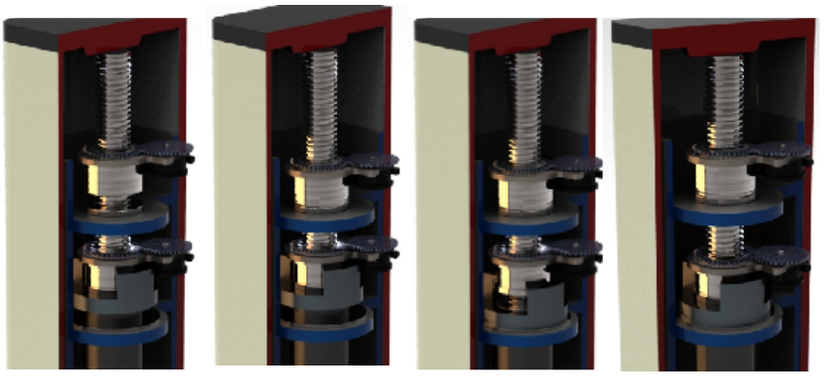
BRACE 400 – SWL moment 911 kNm

STRUT 100 – axial SWL 1000 kN

PRINCIPLES OF HYDRAULIC JACK **MULTIPLICATION** TECHNOLOGY

HYDRAULIC JACK MULTIPLICATION is a technology that combines advantages of hydraulic jack high load lifting capacity and screw jack low price. The principles of work of the stroke multiplicator are shown on the example of high load big stroke jack shown on the left. The idea is explained on adjacent pictures.

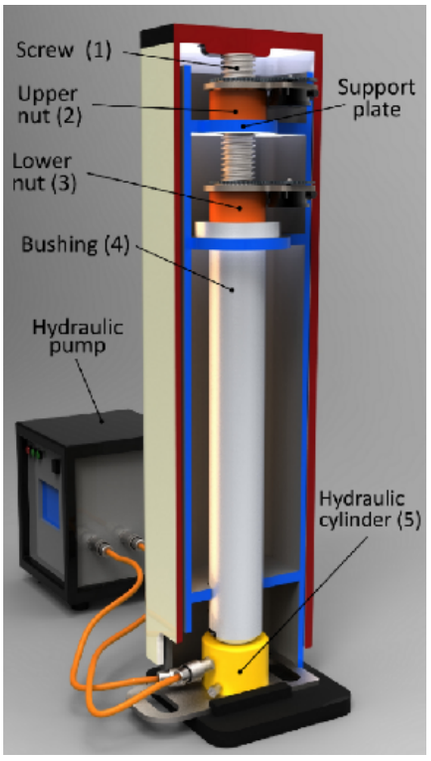
Main advantage is that the multiplicator supports load at all time so the hydraulic cylinder could be removed from it and placed in other multiplicator.



STEP-1.1 during lifting hydraulic cylinder (5) pushes bushing (4) that pushes lower nut (3) that pushes screw (1).	**STEP 1.2.** During hydraulic cylinder (5) extraction the upper nut (2) is not under load so it could be easily turned down	**STEP 2.1** begins when hydraulic cylinder (5) start to collapse after reaching full stroke.	**STEP 2.2** the upper nut (2) supports load so lower nut (3) might be easily turned down.

These steps are repeated until the load will be lifted to the required height

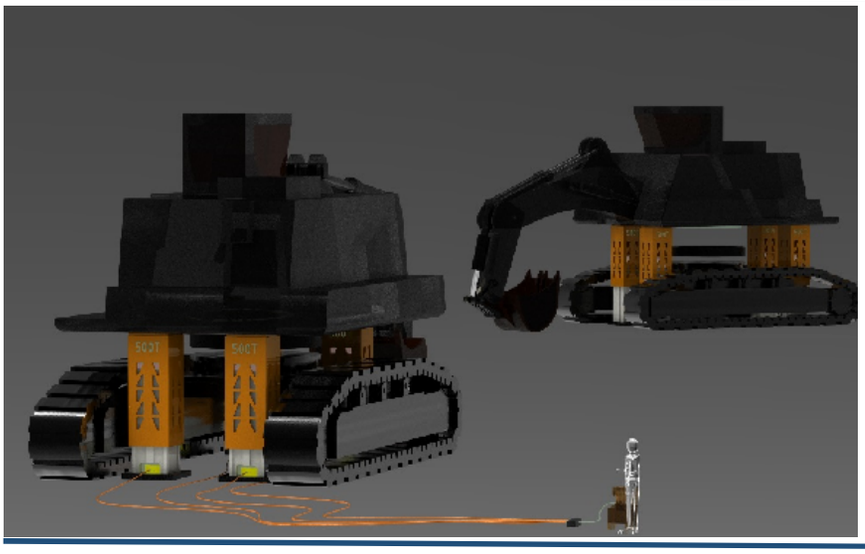
The hydraulic jack multiplicator consist of a screw (1) with two nuts on it – the upper (2) and the lower (3). These nuts are in fact lock nuts with gears meshed with motors that turn them. The screw (1) goes into the bushing (4). Onto the base of the stroke multiplicator small stroke hydraulic cylinder (5) is installed.



WATCH ANIMATION

WATCH VIDEO

PATENT



HYDRAULIC JACK MULTIPLICATION technology has very vast number of potential applications. It might be used to lift big loads to a big height. Here on this picture we show one example – a heavy excavator is being lifted with 4 multiplicators. Each has a 500 tons lifting capacity and 2 m stroke. Inside each multiplicator there is a 10mm stroke 500 t hydraulic jack. The same hydraulic jacks yesterday lifted another excavator that stands currently in the background (picture). When the excavator body will be lifted the jack will be removed from multiplicators and could be used to lift or lower other excavator or to lift, push or pull other heavy machines, parts and elements. This example shows a huge VERSATILITY of our system.

GORINCHEMSESTRAAT 37 | 4231 BE MEERKERK | THE NETHERLANDS

T: +31 183 358 383 | F: +31 183 358 380 | E: INFO@MEEVER.NL | WWW.MEEVER.NL