

**NZStirrers**

Custom Designed and Built Stirrers

# ULTIMATE 500 HYDRAULIC TORQUE CONVERTER

300 | 400 | 500 SERIES

**NEW**





# ULTIMATE 500 HYDRAULIC TORQUE CONVERTER

**NEW**

An amazing new attachment that gives you greater flexibility on the job.

Imagine having the ability to increase the torque of your main drive unit from 125,000Nm (88,909-ft-lbs) to 525,000Nm (373,417-ft-lbs) with an easy-to-fit attachment that takes under five minutes to connect up.

NZ Stirrers, an innovative company based in Auckland, New Zealand, developed this concept for those companies specifically in the business of driving in “screw anchors” and “pile drilling”.





**THE ULTIMATE 500 TORQUE CONVERTER  
ATTACHMENT IS CONVENIENT AND  
COST EFFECTIVE FOR THOSE AWKWARD  
PROJECTS WITH LIMITED ACCESS**



## ULTIMATE 500 TORQUE CONVERTER – PILE DRILLING

For smaller, more shallow screw anchor or smaller pile hole projects, you can simply use NZ Stirrers attachment without the Torque Converter on. With its powerful 125,000Nm (88,909-ft-lbs) 2-speed drive motor, you still have plenty of power, even if it's just to start off your screw anchors and then attaching and finishing them off, using the Ultimate 500 Torque Converter.

Without the Ultimate 500 Torque Converter Attachment on, you can still drill holes up to 2.3 metres (7ft 6.5in) in diameter (depending upon ground conditions and excluding rock).

If you are drilling large diameter foundation holes, we recommend using a 50 ton or larger, standard boom excavator to gain that extra reach, allowing drilling to depths up to 15 metres (50 feet) or more, pending ground conditions.

This makes the Ultimate 500 Torque Converter attachment, convenient and cost effective for those awkward projects with limited access, or those smaller projects without the budgets for larger, more expensive equipment – not forgetting the convenience of not having to wait for those specialized pieces of equipment to become available. No need to be using setups weighing 120 ton or more with big transport and set up costs.

**For extremely large holes, you will need to ensure that the excavator is capable of handling the weight of the drilling equipment plus the weight of the soil/spoil to be lifted out.**

## ULTIMATE 500 TORQUE CONVERTER

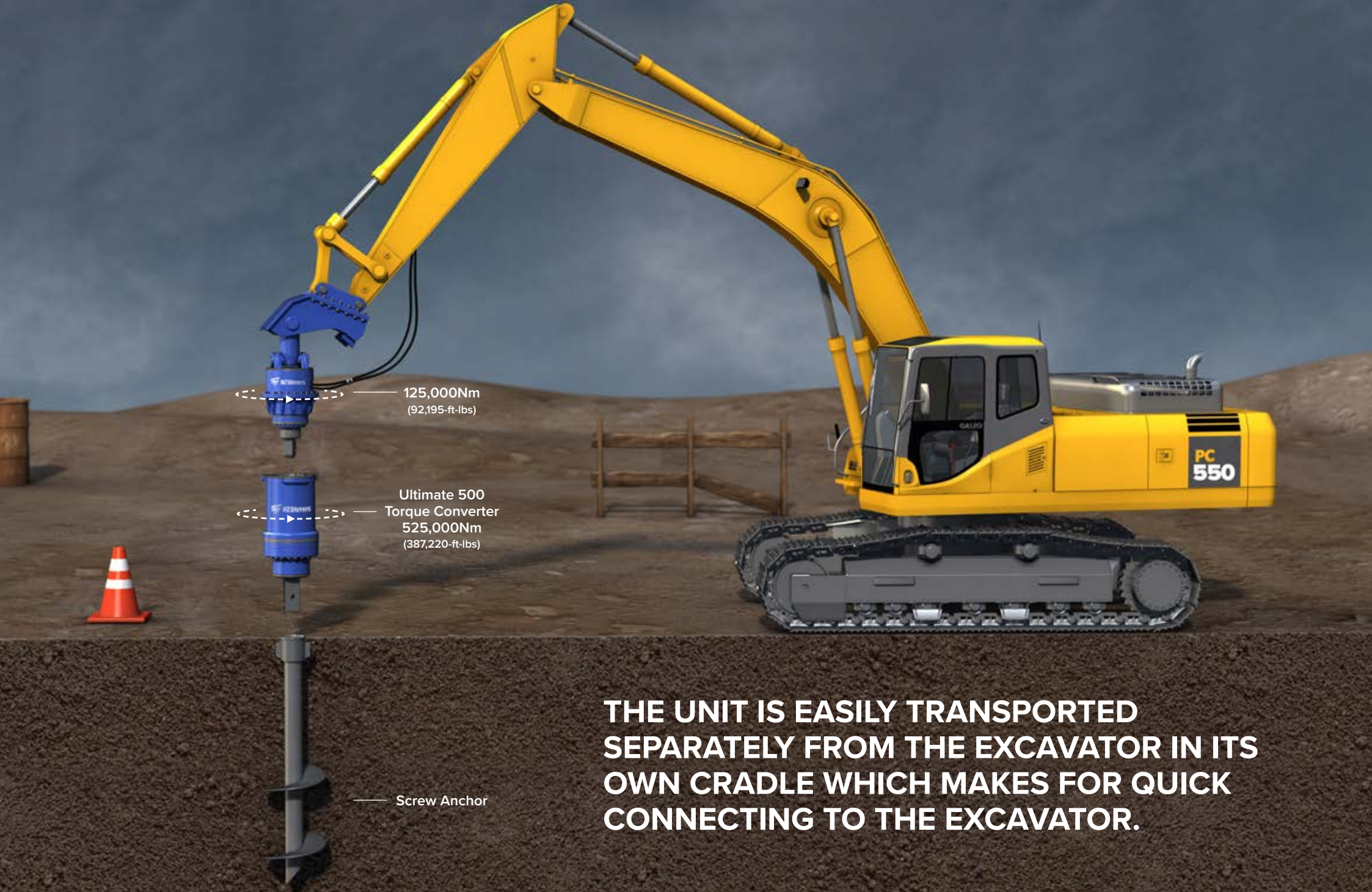
If your project requires some real power to screw in screw anchors, or for drilling holes up to 3.2 metres (10ft 5in) in diameter, you can quickly and simply attach the Ultimate 500 Torque Converter, increasing torque straight to 525,000Nm (387,220-ft-lbs) – 2 speed, rotational torque. We do recommend when using the Ultimate 500 Torque Converter Attachment, using a short boom, 50 ton excavator (minimum) for “screw anchor work”.

The Ultimate 500 Torque Converter takes under five minutes to attach using three special bolts. No extra hydraulic hosing is needed either. The Ultimate 500 Torque Converter comes in its own specially designed cradle, that holds it upright for easy, safe connecting – disconnecting as well as for safe transporting.

The whole unit is easily transported separately from the excavator in its own cradle which makes for quick connecting to the excavator. There is no need for a specially built / modified excavator unit to drive the Ultimate 500 Torque Converter attachment, just an everyday excavator.



**THE ULTIMATE 500 TORQUE CONVERTER TAKES UNDER FIVE MINUTES TO ATTACH USING THREE SPECIAL BOLTS.**



125,000Nm  
(92,195-ft-lbs)

Ultimate 500  
Torque Converter  
525,000Nm  
(387,220-ft-lbs)

Screw Anchor

**THE UNIT IS EASILY TRANSPORTED SEPARATELY FROM THE EXCAVATOR IN ITS OWN CRADLE WHICH MAKES FOR QUICK CONNECTING TO THE EXCAVATOR.**

# 5 MODELS AVAILABLE

## Ultimate 100

Drive Motor 25,000Nm  
Converter to 105,000Nm

## Ultimate 200

Drive Motor 50,000Nm  
Converter to 210,000Nm

## Ultimate 300

Drive Motor 75,000Nm  
Converter to 315,000Nm

## Ultimate 400

Drive Motor 100,000Nm  
Converter to 420,000Nm

## Ultimate 500

Drive Motor 125,000Nm  
Converter to 525,000Nm



Developed in  
New Zealand  
and exported  
to the world.

## SPECIFICATIONS

### ULTIMATE 500 TORQUE CONVERTER ATTACHMENT

- » Main Drive motor – 125,000Nm (88,909-ft-lbs) Maximum Torque  
2-speed drive system
- » Pressure relief valve
- » Built-in “energy control relief valve”
- » Anti-kickback valve
- » Recommended excavator size  
50 to 65 ton (short boom)  
For screw anchor work and large diameter holes.
- » Max pressure 250 bar @ 380 lpm or  
3650 psi @ 100 gpm
- » Max flow 380 lpm @ 250 bar or  
100 gpm @ 3650 psi
- » Main drive motor output shaft  
130mm – square  
Changes with different models.
- » Ultimate 500 Torque Converter  
output shaft 200mm – square  
Changes with different models.
- » Hydraulic hosing to attach to the  
excavators boom piping – with  
screw in connections
- » Hydraulic hose size 1 ½ inch  
case drain ½ inch required.  
May change with different models.
- » Interchangeable hitch plate for  
different size, models and makes of  
excavators
- » Hitch – loose pin arrangement

Approximate total weight  
3600kgs\*

With both attachments, changes with  
different models

Approximate overall length,  
3000mm long + hitch\*

With both attachments, changes with  
different models

Delivered in one custom  
steel cradle, hoist and  
forklift friendly

Full insurance cover while  
in transit to your home  
country / workshop\*\*

## WARRANTY

Standard 12 months factory warranty on motor, gearbox and bearings – cover is on parts and labour worldwide.

Any importing or duty taxes, local taxes at the port or state border/s or any other taxes NZ Stirrers Limited are unaware of in your particular country, the client is to cover any additional cost, if incurred.

NZ Stirrers Limited “Terms and Conditions of Sale – Internationally” can be viewed and printed off at [www.nzstirrers.com](http://www.nzstirrers.com)

\* Approximate measurement.

\*\* May not be insurable from some ports.





# NZStirrers ULTIMATE 500 TORQUE CONVERTER

Table Chart	NZ125 STD		Ultimate 500 Torque Converter	
Flow Rate (LPM)	Low Speed (Rpm)	High Speed (Rpm)	Low Speed (Rpm)	High Speed (Rpm)
380	13	25	3	6
360	12	24	3	6
340	11	22	3	5
320	11	21	3	5
300	10	20	2	5

Table Chart	NZ125 STD		Ultimate 500 Torque Converter	
Flow Rate (Gpm)	Low Speed (Rpm)	High Speed (Rpm)	Low Speed (Rpm)	High Speed (Rpm)
100	13	25	3	6
95	12	24	3	6
90	11	22	3	5
85	11	21	3	5
79	10	20	2	5

Pressure (Bar)	Low Speed (Nm)	High Speed (Nm)	Low Speed (Nm)	High Speed (Nm)
250	125,544	65,272	525,286	274,143
230	115,901	60,450	486,783	253,891
210	106,257	55,629	446,280	233,640
190	96,614	50,807	405,777	213,389
170	86,970	45,985	365,274	193,137

Pressure (Psi)	Low Speed (Ft.Lbs)	High Speed (Ft.Lbs)	Low Speed (Ft.Lbs)	High Speed (Ft.Lbs)
3,650	92,596	48,142	387,431	202,197
3,350	85,484	44,585	359,032	187,260
3,050	78,371	41,029	329,159	172,324
2,750	71,258	37,473	299,285	157,387
2,450	64,145	33,916	269,415	142,450

## CONTACT US

If you have any further questions,  
please don't hesitate in contacting your  
authorized dealer or NZ Stirrers Limited.

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Authorised  **NZ Stirrers** Dealer