



89R Screw Piles - Product Page

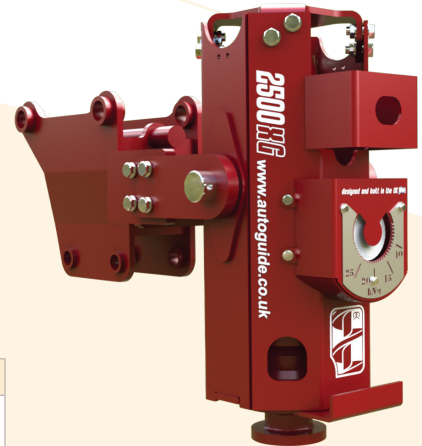
Specification	Definition	89R
Wall Thickness	Thickness of the screw pile tube wall	9.5mm
Torque Limited	The ability of the pile to transmit torque is always the limiting factor. This is therefore the ultimate practical pile install torque capacity.	22.5kNm
Empirical torque factor K_t $K_t \text{ m}^{-1}$	This is the 'Empirical Torque Factor' expressed in metric units when torque is measured in kNm and force in kN. Its value decreases as pile diameter and helix plate thickness increases. This is due to a combination of skin friction and the energy needed to displace the soil.	25m^{-1}

Installation Equipment

The 89R Anchors can be installed using the excavator mounted 2500X.

The 2500X fits excavators from 5-10 tonne. A gimbal mount can also be offered for easier loading of piles and for sites with restricted head room.

This machine offers torque read outs, allowing the pile capacity to be calculated instantly.



	2500X (Excavator)
Ultimate pile capacity (un-factored) @ 22.5kNm torque	562kN
Safe working load (2.5 FOS) @ 22.5kNm torque	225kN

- **Un-factored load** - A maximum load that the pile will take before deflection exceeds standard limits
- **Factor Of Safety (FOS)** - The ratio between un-factored and working load
- **Safe Working Load (SWL)** - The actual load the pile is taking when the building is in place

Tube Specification	BS EN-10297 E355 HFS
Helix Specification	BS EN-10025 S275
Fasteners Specification	METRIC M22 GR8.8

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