



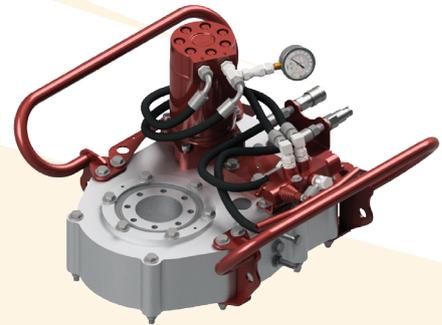
76R Screw Piles - Product Page

Specification	Definition	76R
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. For handheld installation the torque is limited to 6.5kNm.	16kNm
Empirical torque factor Kt Kt 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.	28m ⁻¹

Installation Equipment

The 76R Anchors can be installed using the hand held 700H or excavator mounted 1600X.

The 700H compact size allows it to fit through doorways therefore it is very useful on sites with limited access. It is driven from a hydraulic powerpack. The 1600X fits excavators from 5-8 tonne and offers torque read outs, allowing the pile capacity to be calculated instantly.



	700H (Handheld)	1600X (Excavator)
Ultimate pile capacity (un-factored) @ 16kNm torque		450kN
Ultimate pile capacity (un-factored) @ 7kNm torque	196kN	
Safe working load (2.5 FOS) @ 16kNm torque		180kN
Safe working load (2.5 FOS) @ 7kNm torque	78kN	



- **Un-factored load** - A maximum load that the pile will take before deflection exceeds standard limits
- **Factor Of Safety (FOS)** - The ratio between unfactored 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 M20 GR8.8

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