

# STEEL PILING GROUP | Job Reports



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## THAMES PILE EXTRACTION

CANARY WHARF, LONDON, ENGLAND (2005)

Contractor Dawson-WAM selected the X1000 pile extractor to remove more than 1500 sheet piles at the prestigious Canary Wharf development in central London. The 22m (72') long Corus LX25 piles had been driven as pairs to refusal with a 7t hydraulic drop hammer some 6 years earlier. Extraction had to be undertaken safely, without vibration and at low noise levels.

WAM's knew the 1000 metric tonnes of extraction force would ensure the piles came out first and every time. Production was impressive, with a pile being fully extracted in 30-35 minutes.

With the additional challenge of the piles sitting in 10m (33') of dock water a pre-fabricated

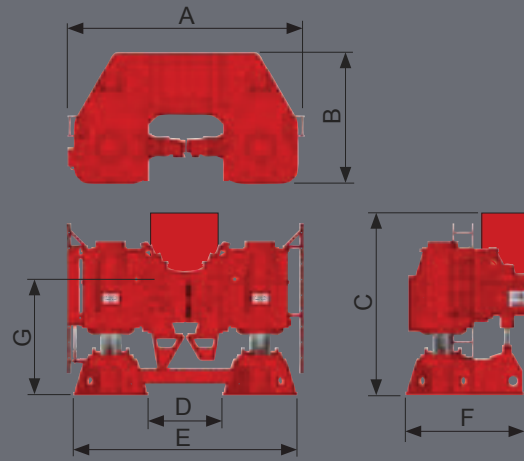
frame was utilised, sitting on the dock bed, to enable the X1000 to work above water level.

WAM's enjoyed the benefit of silent and safe extraction, as did the local residents, businesses and authorities.

Technical Specifications

TEC. SPEC

	X1000	
MAXIMUM EXTRACTION FORCE	9700kN	1090t (US)
RAM SPEED	3m/min	118"/min
MAXIMUM HYDRAULIC OIL PRESSURE	350bar	5075psi
MAXIMUM HYDRAULIC OIL FLOW	400l/min	106gpm (US)
EXTRACTION DISTANCE (EACH STROKE)	500mm	19.7"
DIMENSION A	3780mm	148.8"
DIMENSION B	2100mm	82.7"
DIMENSION C - RETRACTED	2650mm	104"
DIMENSION C - EXTENDED	3150mm	124"
DIMENSION D	1180mm	46.5"
DIMENSION E	3580mm	14.1"
DIMENSION F	1900mm	74.8"
DIMENSION G	1524mm	60"
TOTAL WEIGHT	26500kg	58400lbs



ADVANTAGES OF USING X1000 EXTRACTOR

- . Quiet and vibration-less hydraulic pile extraction system
- . 400 tonne to 1000 tonne extraction force
- . Can extract 'H' piles, 'U' and 'Z' profile sheets. With modification it can be used to extract tubular piles.
- . Typical extraction rate: 3m/min (118"/min)
- . Uses the ground as reaction (as opposed to other piles) hence stand alone piles can be extracted.
- . Safer than extracting piles using a vibrator or pulling with a crane.



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