

The **FR10 Micro Piling Machine** is a compact and highly versatile drilling solution designed for micropile, foundation, and restricted-access construction applications. Combining powerful 10kN·m drilling performance with a lightweight 6.1-tonne transportable design, the FR10 delivers excellent mobility across urban sites, rural projects, low-capacity roads, and confined working environments.

All main components are manufactured by third party globally recognised vendors that allow for local supply to reduce down times in the field. The factory is located in Asia to take advantage manufacturing costs and is geographically closer to Australia to reduce shipping costs and delivery times. **Machines are covered by a 12 month or 2,000 hour warranty.**



Item	Manufacturer	Standard (Australian / European Equivalent)
Carrier Base	Yanmar	
Mast Steel Grade	Q355 / Q460	GB/T 1591-2018 (AS/NZS 3679.1)
Kelly Bar Steel Grade	Q355 / Q46 / 27SiMn	GB/T 8162 (AS/NZS 1163) / GB/T 3077-2018 (EN 10083)
Rotary Drive	Motor-Danfoss	ISO 4413 (AS 4024.3301)
Hydraulic Components	Rexroth / Kawasaki	ISO 4413 (AS 4024.3301)
Hydraulic Hoses	Gates / Continental	EN853-1SN / EN853-2SN / EN857-4SH
Bolt Grade	≥8.8 grade	GB/T 3098.1-2010 (AS/NZS ISO 898-1) / GB/T 18684-2002 (AS 1418)
Sheave Bearings	SKF / FAG	GB/T 10051 (AS 3775)
Hooks and Wire Rope	35WK7 grade	GB/T 19001-2016 (ISO 9001:2015)
Welding Standards		JB/T 5943-2018 (AS/NZS 1554.1)

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## SPECIFICATIONS

Description		Units
Engine	Model	YANMAR / Kubota
	Rated Power	20kW
	Rated Speed	2200rpm
Rotary Head	Maximum Output Torque	10kN·m
	Drilling Speed	0-40rpm
Rated Speed	2200rpm	1200 mm
Drilling Speed	0-40rpm	105 kN
Maximum Drilling Diameter		800mm
Maximum Drilling Depth		12m
Main Winch	Maximum Pressure	50kN
	Maximum Lifting Force	20kN
	Maximum Lifting Speed	40m/min
Auxiliary Winch	Rope Diameter	12mm
	Maximum Lifting Force	10kN
	Maximum Lifting Speed	40m/min
Mast Inclination	Rope Diameter	12mm
	Lateral Inclination	±4°
	Forward Inclination	5°
Interlocking Kelly Bar		12m
Chassis	Maximum Walking Speed	4.4km/h
	Maximum Slewing Speed	9rpm
	Chassis Width	1680mm
	Track Shoe Width	300mm
Hydraulic System	Working Pressure	28MPa
Operating Weight		6.1T
Overall Dimensions	Working State	3516 × 1963 × 4554 (3946) mm
	Transport State	3516 × 1720 × 2736 mm

