



The **FR45 Small Kelly Rig** is a compact and highly capable drilling solution **designed for foundation and piling applications** where transport efficiency, restricted access, and fast mobilisation are critical. **Engineered with a lightweight and compact structure**, the FR45 is ideal for low-headroom environments, confined job sites, and projects requiring rapid setup with minimal site preparation. **Delivered fully assembled and ready for immediate operation**, the rig helps reduce downtime while improving on-site productivity.

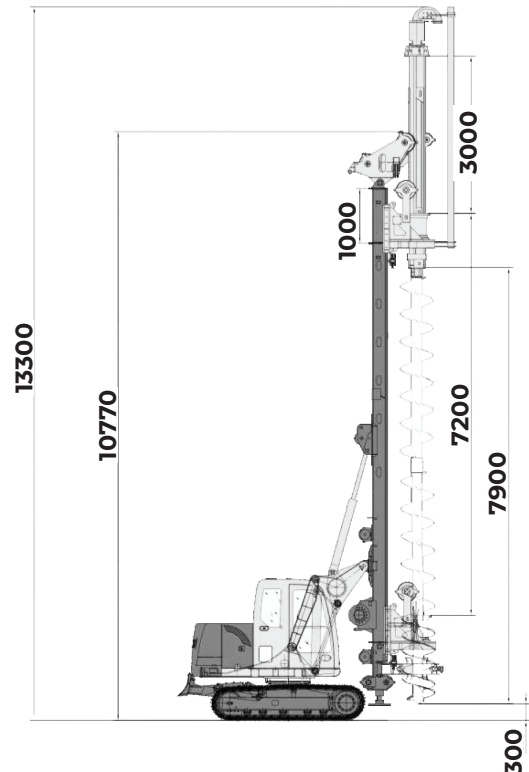
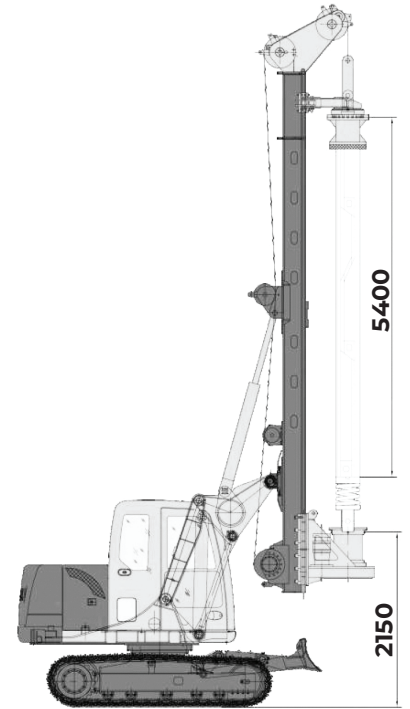
The FR45 offers **reliable performance, operational stability, and multiple integrated safety protection systems** for demanding construction environments. Manufactured in Asia for cost and delivery efficiency to Australia, the machine is supplied fully assembled and **backed by a 12-month / 2,000-hour 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	Rexroth	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)

SPECIFICATIONS

Description		Units
Engine	Model	YANMAR
	Rated Power	56.5kW
	Rated Speed	2200rpm
Rotary Head	Maximum Output Torque	45kN.m
	Drilling Speed	0-60rpm
Maximum Drilling Diameter		1000mm
Maximum Drilling Depth		15m
In CFA mode	Max. Drilling diameter	600mm
	Max. drilling depth	10(7+3)m
	Max.Pressure (Crowd winch)	30kN
Crowd Cylinder	Maximum Pressure	80kN
	Max. lifting force	60kN
	Stroke	2000mm
Main Winch	Maximum Lifting Force	60kN
	Maximum Lifting Speed	50m/min
	Rope Diameter	16mm
Auxiliary Winch	Maximum Lifting Force	15kN
	Maximum Lifting Speed	40m/min
	Rope Diameter	10mm
Mast Inclination		4°/4°/87°
Interlocking Kelly Bar		15m
Hydraulic System	Working Pressure	28MPa
Operating Weight		13000kg
Overall Dimensions	Working State	4560x2300 x8590mm
	Transport State	7200x2300 x3000mm



For more information about the FR45 Compact Rotary Drilling Rig or to discuss your drilling and foundation requirements, contact the team at CESCO Equipment. Our specialists can assist with attachment selection, technical advice, and tailored equipment solutions for restricted-access and foundation drilling applications.