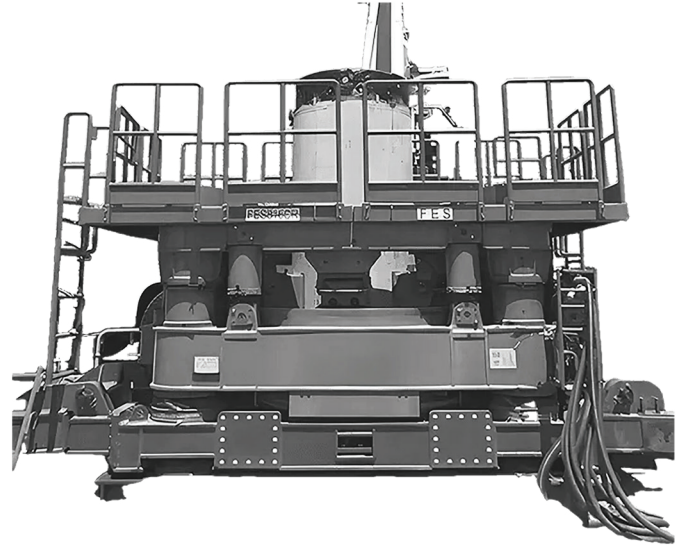


Casing Rotator

The casing rotator is a high-performance full-casing piling solution designed for demanding foundation and ground engineering applications. Suitable for dual wall segmental casing, it delivers reliable performance in difficult ground conditions including boulders and hard rock.

With low-noise, low-vibration operation, high torque output, and excellent borehole verticality, the casing rotator provides an efficient and environmentally friendly solution for urban construction, infrastructure, and restricted-access projects.



FEATURES

Low Noise & Vibration	Slurry-free operation provides environmentally friendly, low-noise, low-vibration performance with improved concrete bond strength.
360° Rotation	Full rotational capability improves drilling efficiency and site productivity.
Control Modes	Available with hydraulic or remote-control operation for flexible use.
Fast Drilling Speed	Capable of drilling speeds up to 14m/h in general soil conditions.
Large Drilling Depth	Suitable for drilling depths exceeding 100m depending on ground conditions.
High Borehole Verticality	Achieves borehole verticality up to 1/500 for accurate pile construction.
Efficient Concrete Usage	Small filling factor helps reduce concrete consumption and project costs.
High Torque & Push Force	Designed to perform effectively in hard strata up to 60MPa.
Hydraulic Power Pack	Can operate using a separate hydraulic power pack for remote or challenging job sites.

SPECIFICATIONS

Main Specification	Unit	FCR160	FCR260	FCR320
Drilling diameter	mm	1000–2100 2200–3200	1500–2600	2200–3200
Max. torque	kN·m	3100, instant 3525	5300, instant 6200	9100, instant 11000
Rotary speed	rpm	1.0/1.6/2.7	0.6/1.0/1.8	0.6/1.0/1.8
Max. pushing force	kN	680+280 (dead weight)	830+360 (dead weight)	1000+500 (dead weight)
Max. pulling force	kN	3760, instant 4300	4600, instant 5200	7250, instant 8350
Stroke of crowd	mm	600	750	650
Main machine weight	t	45	58	85
Power station weight	t	8	12	12
Engine model		Cummins QSM11-335	Cummins QSX15-500	Cummins QSM15-500
Engine power	kW/rpm	274/1800	398/1800	398/1800
Displacement	L	11	15	15
Control mode		Remote wired control	Remote wired control	Remote wired control

APPLICATIONS

Suitable for dual wall segmental casing, the casing rotator's high torque capability and excellent borehole stability make it suitable for projects involving boulders, hard rock, underground obstructions, and sensitive urban environments where low vibration and low noise operation are essential.

For more information about casing rotator systems or to discuss your project requirements, contact the team at CESCO Equipment. Our specialists can assist with equipment selection, technical advice, and tailored foundation solutions for demanding piling and ground engineering applications.