

JingAn Casing Oscillator

景安·全套管摇管机（搓管机）



JOC

全套管摇管机

Hydraulic Casing Oscillator

徐州景安重工机械制造有限公司

Xuzhou JingAn Heavy Industry Manufacture Co.,Ltd.

Company Profile

企業簡介

景安重工是集研發、制造、銷售以及技術服務于一體的基礎工程（樁工）裝備制造企業，具有長達15年的專業積澱。秉持創新發展理念，擁有高效的創新機制和研發團隊，取得專利技術近百項，獲得高新技術企業、國家級專精特新“小巨人”企業認定和第二十四屆中國專利銀獎。拳頭產品全回轉鑽機為國內首創，形成合理的產品系列，是複雜地質條件大樁徑、超深樁工程施工的先進裝備，已進入國際市場。深厚的技術積澱和對市場需求的關注，奠定了堅實的創新基礎。研制的JOC系列全套管搖管機對標國際知名品牌，適應多數地質情況，結合景安多種樁工機械研發制造經驗，專業制造高端系列全套管搖管機，滿足客戶大直徑、大深度樁基施工。

Jing'an Heavy Industry is a leading foundation engineering (pile engineering) equipment manufacturer integrating R&D, production, sales, and technical services, with 15 years of specialized expertise. Guided by the principle of innovation-driven development, the company possesses a highly efficient innovation mechanism and R&D team. It has secured nearly 100 patented technologies and earned prestigious recognitions including High-Tech Enterprise, Nationally Recognized "Little Giant" Enterprise (Specialized, Refined, Differential, and Innovative SME), and the Silver Award at the 24th China Patent Awards.

Its flagship product, the full-rotation drilling rig, pioneered in China, has evolved into a well-structured product series. It serves as advanced equipment for constructing large-diameter and ultra-deep piles in complex geological conditions and has successfully entered the international market.

Deep technological expertise and a strong focus on market demands form a solid foundation for continuous innovation.

The developed JOC series hydraulic casing oscillator is benchmarked against internationally renowned brands and is adaptable to most geological conditions. Leveraging Jingan's extensive experience in the development and manufacturing of various piling machinery, it is professionally engineered as a high-end series of casing oscillators to meet customers' needs for large-diameter and deep foundation pile construction.



產品簡介:

全套管搖管機是全套管鑽機的一種，該設備通過夾持機構帶動套管正反向來回扭動，以減小沉拔套管的阻力，并由油缸實現套管沉拔作業的套管驅動裝置。

設備應用:

1、全套管搖管機是主要應用於軟土層、砂礫層、含礫土層等不穩定地層（土層）施工的一種專用設備。該設備最大可以夾持直徑3300mm的大直徑套管，使之以正、反時針方向轉動或沿樁孔軸向上、下移動，配合抓鬥或螺旋鑽具的應用，實現跟管鑽進。廣泛應用在城市地鐵地基、深基坑圍護咬合樁、城市改造和清拔樁清障，鐵路、港口、道橋、江河、湖泊、高層建築、水電水利施工鑽孔灌注樁等特殊用途施工工程。

2、適合卵石、淤泥、流沙、粉細砂、破碎和溶洞發育、回填土、沼澤、湖泊、江河等泥漿無法正常護壁的複雜地層。

Product Introduction:

The casing oscillator is a type of full-casing drilling rig. This equipment uses a clamping mechanism to rotate the casing back and forth in both clockwise and counterclockwise directions, reducing the resistance during casing sinking and extraction. The driving of the casing for sinking and extraction operations is achieved through hydraulic cylinders.

Application of the Equipment:

1. The casing oscillator is specialized equipment primarily used in construction on unstable strata, such as soft soil layers, gravel layers, and gravelly soil layers. This equipment can hold large-diameter casings up to 3300 mm in diameter, rotating them clockwise or counterclockwise or moving them up and down along the pile axis. Used in combination with grab buckets or augers, it enables casing-following drilling. It is widely applied in urban metro foundations, deep excavation retaining walls, interlocking piles for urban redevelopment, pile obstruction removal, and specialized projects such as railway, port, bridge, river, lake, high-rise building, and hydropower construction.

2. It is suitable for complex formations where slurry cannot effectively stabilize the walls, such as cobbles, silt, quicksand, fine sand, fractured rock and karst formations, backfilled soil, swamps, lakes, and rivers.

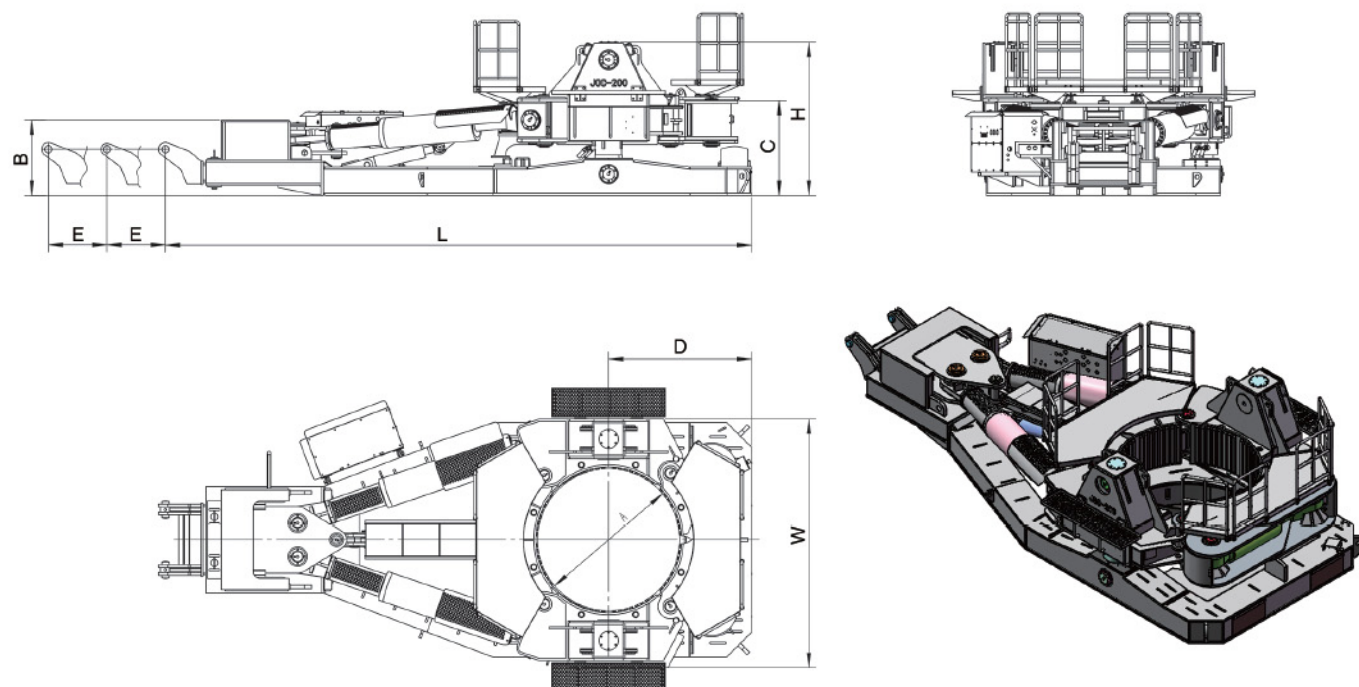


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全套管搖管機

Hydraulic Casing Oscillator

主機外形圖：



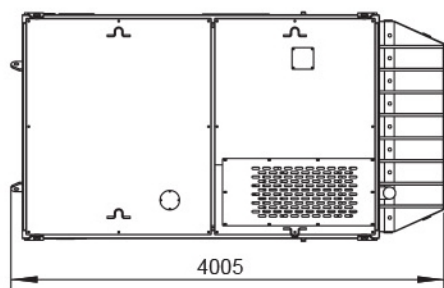
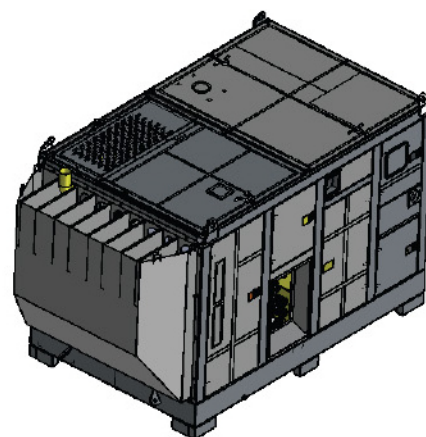
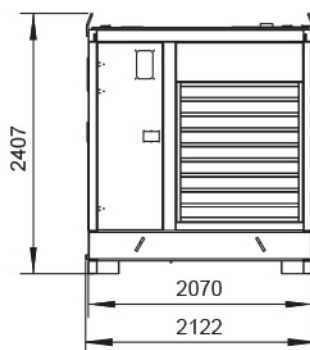
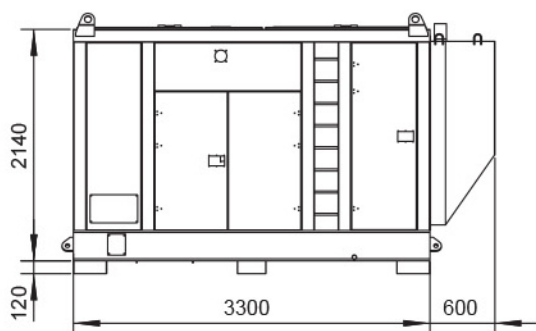
全套管搖管機外形尺寸 Casing Oscillator -overview and dimensions

型號 Type	A (mm)	B (mm)	C (mm)	D (mm)	L (mm)	W (mm)	H (mm)	E (mm)
JOC150H	1500	900	1200	1600	7900	2850	1950	550
JOC200	2000	900	1300	2015	8260	3200	1980	550
JOC200H	2000	1060	1335	2015	8260	3500	2157	550
JOC250	2500	1130	1400	2450	8800	4000	2580	
JOC300	3000	1225	1480	2670	9800	4700	2610	

全套管搖管機技術參數 Casing Oscillator -overview and technical data

型號 Type	施工範圍 (mm) Max./min. casing dia	舉升行程(mm) Lifting stroke	舉升力(kN) Lifting force	搓管角度(°) Totation angle	扭矩(kNm) Torque	上夾緊力(kN) Clamping force	下夾緊力(kN) Retaining force	自重(t) Weight
JOC150H	600-1500	600	2945	25	3800	2410	1200	27
JOC200	1000-2000	600	2945	25	4110	2410	1200	27
JOC200H	1000-2000	600	3695	25	5800	3050	1200	38
JOC250	1500-2500	650	4830	25	9500	3770	1205	50
JOC300	2000-3000	580	8300	24	13500	4770	2280	63

動力站外形圖：

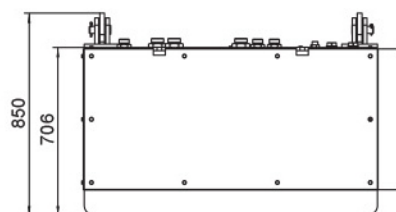
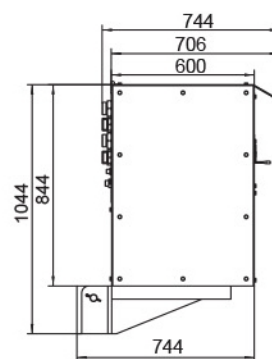
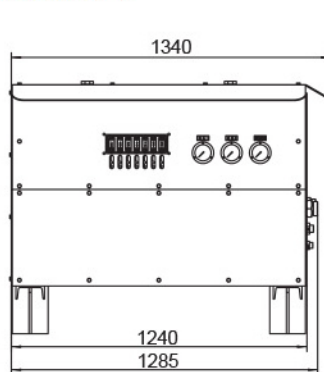
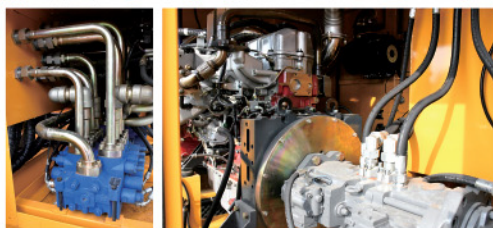
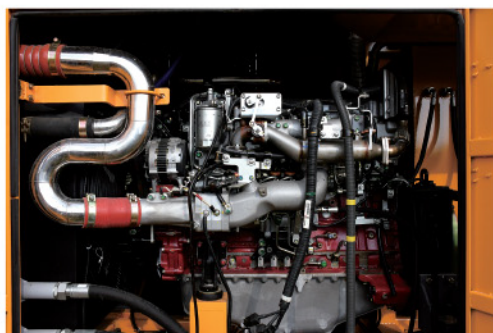


動力站參數表

型號	發動機	功率 KW(ps)	流量 (L/min)	額定壓力 (MPa)	排放	適用機型
JPK640/325	Cummins QSL8.9-C325	242(325)	320×2	30	T3	JOC150-200H
JPK800/420	Cummins QSM11-C400	298(400)	400×2	30	T3	JOC250-300

備注：以上設備標配日本川崎液壓泵

操作箱外形圖：



標配無線遙控器，可無線遠程操控機器，也可插綫遙控操作機器，還可以使用操作箱上應急操作手柄操作機器。

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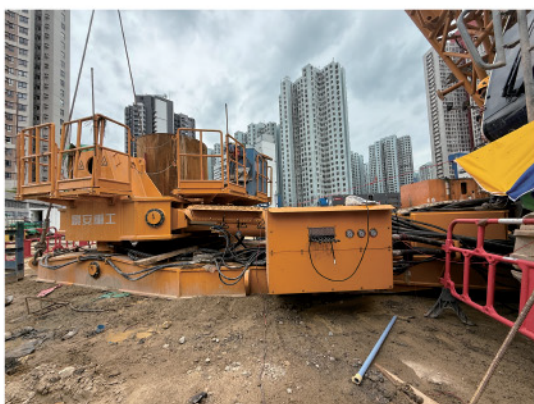
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香港工地



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香港屯門河工地



香港屯門河工地



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