GEAX

POWER & SPEED
high performance
in compact size

LIMITED ACCESS
go everywhere,
nothing is off limits

VERSATILITY
change in plans?
one machine many
applications

COMPACT PILING RIGS

GENERAL CATALOGUE

GÁNDARA
SU EQUIPO EN CIMENTACIÓN
www.gandara.com.mx

ABOUT US

Since 2006, Geax s.r.l has operated in the fields of design and construction of drilling machinery and equipment for piles. It was founded by Adriano Pesaresi, who has worked as a design engineer since the 1980s for other notable drilling design companies.

The new business project was established with the aim of producing drilling machines that were structurally innovative, compact, reliable, simple to use, and extremely productive and efficient.
These machines represent a big step forward in a market that for years has been static and conservative.
In 2003 he began operating in the field of drilling in order to focus on the needs of the operators and to test his new designs and solutions.
Coupling many years of design experience along with on-site testing gave way to the current models in production at Geax.
While on the jobs, Geax machines show top-level performance and flexibility; adapting rapidly to the increasingly stringent requirements of the operators.
Geax has a streamlined and efficient organizational structure that allows us to offer machines at competitive costs and to quickly adapt to market needs by developing new applications and special machines on customer request.

GEAX is revolutionizing the foundation drilling machine market by offering innovative products with reliable support and quality.
All GEAX production is characterized by the constant search for improvement of the drilling operations, site safety, and reduction of operating costs.

WHY GEAX

To work where others dare not go: narrow spaces, slopes, interiors of buildings, proximity to power lines.

To optimize every aspect of production by adapting the equipment to meet all jobsite needs.

For the compactness of the machine: saving on transport, fuel, maintenance.

To avoid wasting time and resources with an oversized machine.

For ease of use and speed of set up.

INNOVATION

Geax drilling machines are distinguished by their compact size ideal for working in tight spaces and easily transported without special permits. But they are not the simple copy on a reduced scale of the largest traditional machines; they are carefully designed to brilliantly solve all the limitations that the reduction of size and the weight involves.
The machines' particular articulation structure is similar to a normal excavator with a long boom supporting the mast. This allows a wide range of mast positioning and independent adjustment of the vertical position of the mast. Wire rope positions are not dependent on the position of the mast as the winches are mounted on the mast itself.
This design, compared to other machines, usually with parallelogram type mast supports, ensures excellent rigidity and lightness, more precise movements, fast setup time, wide range of tool positioning, simpler maintenance, and finally better visibility for the operator.
The excavator base carrier, constructed to GEAX specifications, ensures excellent reliability and maintenance, with superior cabin quality in terms of ergonomics, comfort, and quietness generally not available on proprietary machines. Geax also retains the warranty of the carrier manufacturer worldwide.

The patents are evidence of a constant search for innovative solutions to allow our machines to achieve best results on the jobsites.

NETWORK

GEAX is represented worldwide by a wide network of exclusive dealers and authorized service centres.
Find the one nearest to you!

DTC SERIES

The DTC series was designed in 2006 in order to satisfy the growing market of compact piling rigs which stand out in maneuverability, ease of transport, and low maintenance and running costs.

The DTC design choices ensure an overall lighter structure (at equivalent robustness) which permit the assembly on medium-small size excavators, leading to a significant reduction in costs. Furthermore, its compact size guarantees a superior agility in the jobsites, which results in high productivity comparable with much larger piling rigs.

Its innovative architecture consists of a steel boom which support a monolithic mast capable of independent vertical translation. The new concept of a boxed steel mast, which interally contains the telescopic Kelly bar, allowing for a higher rigidity, better stability (the Kelly bar is closer to the crawler base compared to an external Kelly configuration), and a reduction of noise during the tool discharge.

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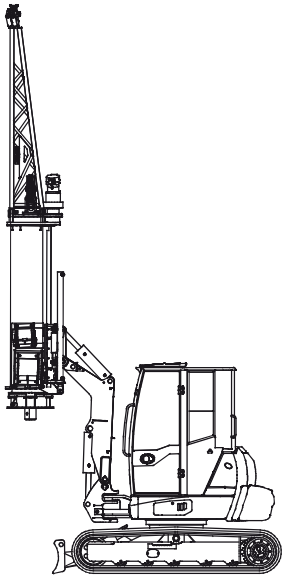
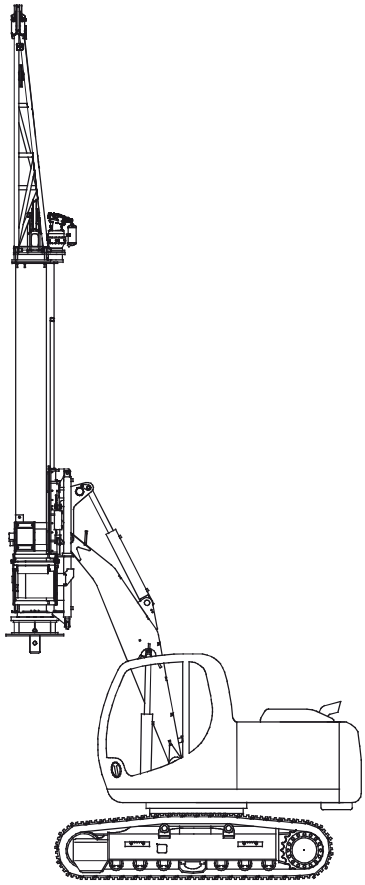
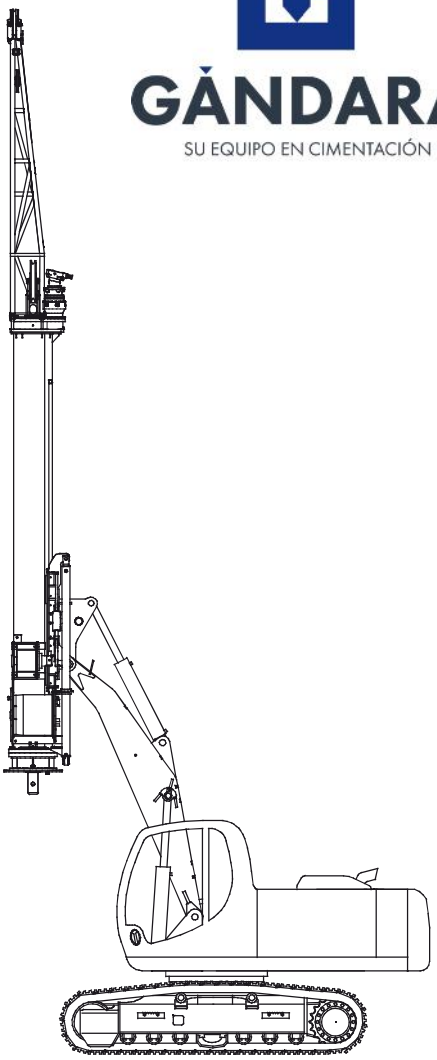






DTC30

Engine power	JCB 38.4 kW - 51 hp Kubota 36 kW - 49 hp
Width over tracks	1980 mm - 6.49 ft
Nominal torque	27 kNm - 19.900 lbf ft
Main winch line pull	35 kN - 7.800 lbf
Max pile diameter	800 mm - 32 in
Max pile depth	14.5 m - 47.5 ft
Min working height	4.000 mm - 13.1 ft
Weight (w/o tool)	9.000 kg - 19.800 lb

DTC50

Engine power	JCB 81 kW - 109 hp Hitachi 73.4 kW - 98 hp
Width over tracks	2.490 mm - 8.17 ft
Nominal torque	47 kNm - 31.000 lbf ft
Main winch line pull	80 kN - 18.000 lbf
Max pile diameter	1.200 mm - 48 in
Max pile depth	up to 25 m - 82 ft
Min working height	from 6.200 mm - 20.3 ft
Weight (w/o tool)	from 16.000 kg - 35.300 lb

DTC80

Engine power	JCB 93 kW - 125 hp Hitachi 90.2 kW - 121 hp
Width over tracks	2.490 mm - 8.17 ft
Nominal torque	82 kNm - 60.500 lbf ft
Main winch line pull	120 kN - 26.980 lbf
Max pile diameter	1.500 mm - 60 in
Max pile depth	up to 31 m - 101.70 ft
Min working height	8.130 mm – 26.6 ft
Weight (w/o tool)	24.000 kg - 52.900 lb

Other unique features include the possibility of a wide range of mast positions, with longer reach compared to a traditional machine, along with better visibility of the working area. The winches, mounted directly on the mast, make the rope movements independent from the mast positioning, improving the easiness of operation and cables' durability.

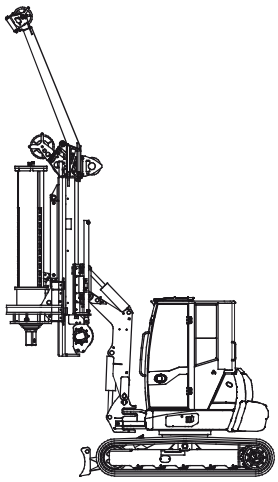
EK SERIES

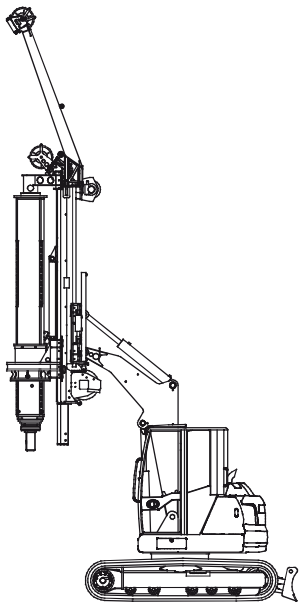
The EK series machines are multi-purpose rigs able to operate in various different drilling modes:
telescopic Kelly piling (**P**), **CFA**, diaphragm walls (**D**), soil mixing (**SM**), soil displacement (**SD**), hydraulic hammer (**HH**), vibro-hammer (**VH**), jet grouting (**JG**)

	P	CFA	D	SM	SD	HH	VH	JG
EK30	✓							
EK40	✓	✓				✓		
EK60	✓	✓	✓			✓		
EK90	✓	✓	✓	✓	✓	✓		✓
EK110	✓	✓	✓	✓	✓	✓	✓	

Designed to maintain the compactness and agility of the DTC series, they enhance the versatility which is needed when each project requires a specific drilling mode to achieve the best results.

For each drilling mode a special kit is designed to optimize the performance. However, the modularity of the components makes the conversion among the different kits extremely easy, fast, and low-cost. The EK series range starts at weights of 9.5 tons up to 35 tons machines, which are able to cover the vast majority of jobsites. When a compact, high-performance, and multi-purpose rig is needed as a core machine of the fleet, the EK series is the best solution.





EK30 P

Engine power	JCB 38.4 kW - 51 hp Kubota 36 kW - 49 hp
Width over tracks	1980 mm - 6.49 ft
Nominal torque	27 kNm - 19.900 lbf ft
Main winch line pull	35 kN - 7.800 lbf
Max pile diameter	800 mm - 32 in
Max pile depth	16 m - 52.5 ft
Min working height	3.700 mm - 12.14 ft
Weight (w/o tool)	9.500 kg - 19.850 lb

EK40 P

Engine power	Yanmar 46,5 kW - 63,2 hp 56.6 kW - 77 hp
Width over tracks	2320/2920 mm - 7.6/9.6 ft
Nominal torque	34 kNm – 25.000 lbf ft
Main winch line pull	48 kN - 10.800 lbf
Max pile diameter	1.000 mm - 40 in
Max pile depth	20/28 m – 65.5/92 ft
Min working height	5.480 mm - 18 ft
Weight (w/o tool)	from 12.500 kg - 27.600 lb

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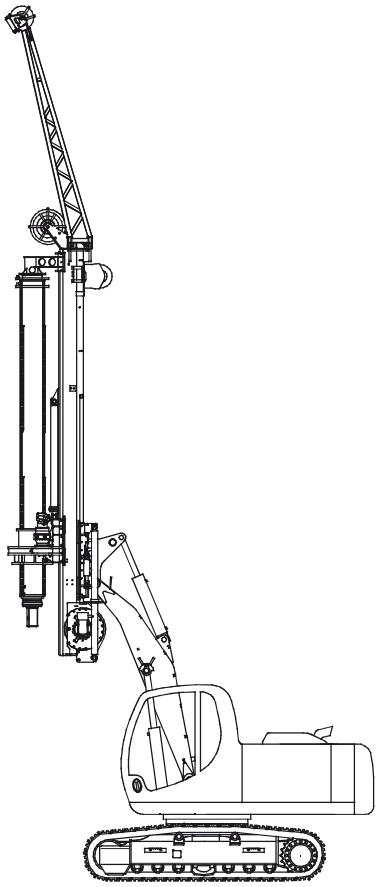
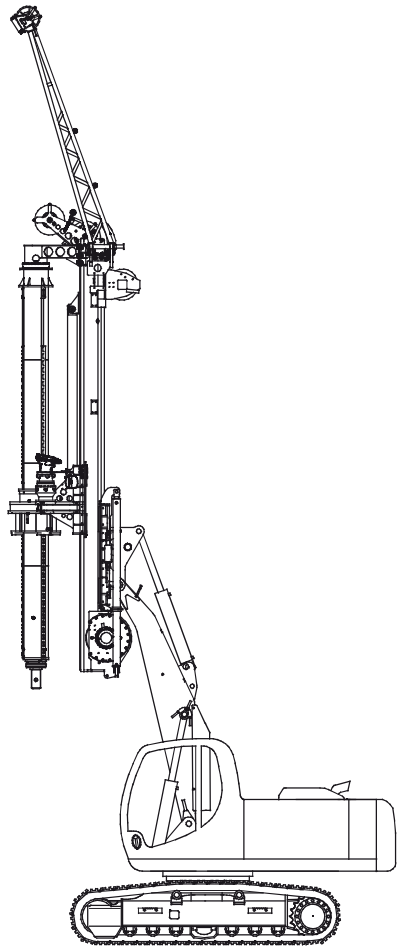


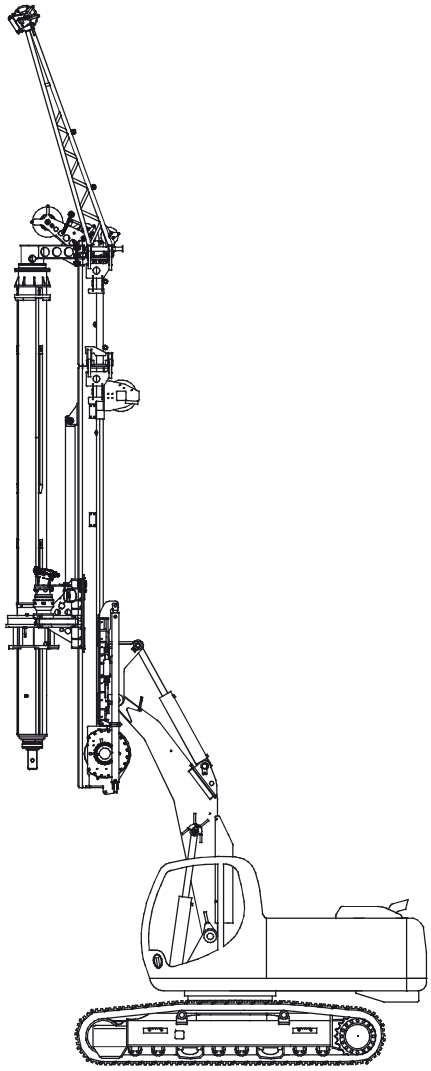
EK60 P

Engine power	JCB 81 kW - 109 hp Hitachi 73.4 kW - 98 hp
Width over tracks	2.490 mm - 8.17 ft
Nominal torque	53 kNm - 38.400 lbfft
Main winch line pull	80 kN - 18.000 lbf
Max pile diameter	1.200 mm - 48 in
Max pile depth	up to 25 m - 82 ft
Min working height	6.450 mm – 21.2 ft
Weight (w/o tool)	19.000 kg - 42.400 lb



EK90 P

Engine power	JCB 93 kW - 125 hp Hitachi 90.2 kW - 121 hp
Width over tracks	2.490 mm - 8.17 ft
Nominal torque	90 kNm - 66.380 lbf ft
Main winch line pull	120 kN - 26.980 lbf
Max pile diameter	1.500 mm - 60 in
Max pile depth	up to 31 m - 101.70 ft
Min working height	8.250 mm - 27 ft
Weight (w/o tool)	26.000 kg - 57.300 lb



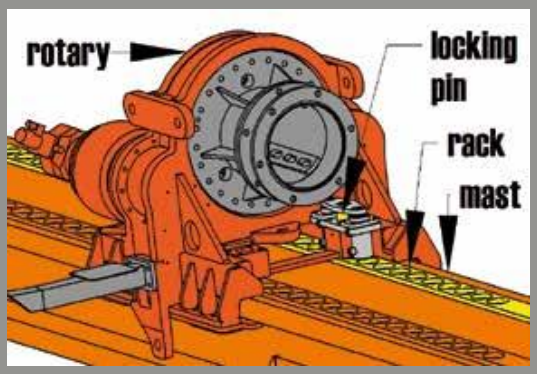
EK110 P

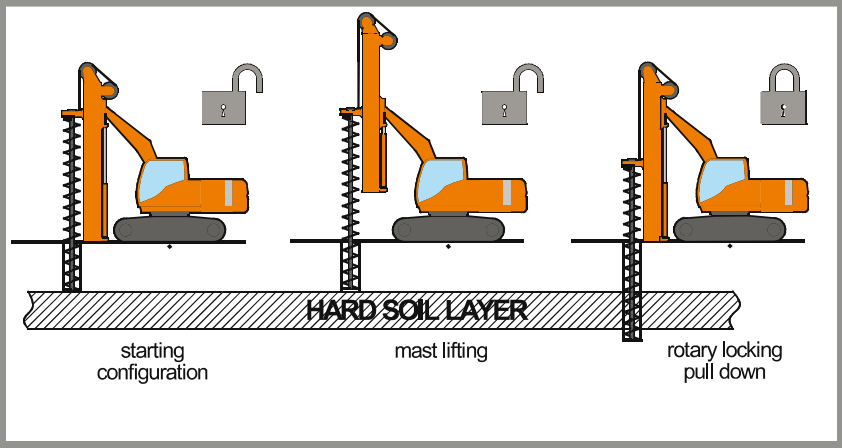
Engine power	JCB 126 kW - 172 hp Hitachi 122 kW - 164 hp
Width over tracks	2.490/3.490 mm - 8.2/11.4 ft
Nominal torque	110 kNm – 81.130 lbf ft
Main winch line pull	120 kN - 26.980 lbf
Max pile diameter	1.800 mm - 70 in
Max pile depth	up to 40 m - 131 ft
Min working height	8.250 mm - 27 ft
Weight (w/o tool)	from 30.000 kg - 66.090 lb

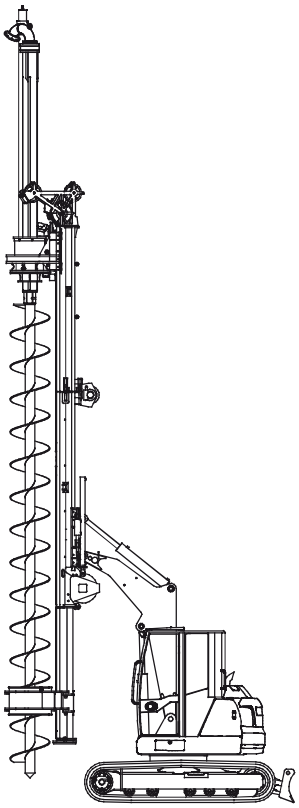
BPS
patented crowd system for CFA piling

The pull-down system type BPS is GEAX's patented crowd system for CFA piling.
Providing a mechanical locking system between the rotary head and the mast, it creates a crowd force on the auger by the hydraulic cylinders that move the mast vertically and the crowd force is available along the entire length of the mast.

The pull-down system is activated only when needed by the operator and requires no pulleys or ropes.







EK40 CFA

Pull down force	60 kN - 13.400 lbf
Extraction force	144 kN – 32.400 lbf
Total rotary stroke	7.200 mm - 23.6 ft
Max pile diameter	500 mm - 20 in
Max pile depth	10/11.5 m – 33/38 ft
Weight (w/o tool)	from 12.000 kg – 26.500 lb

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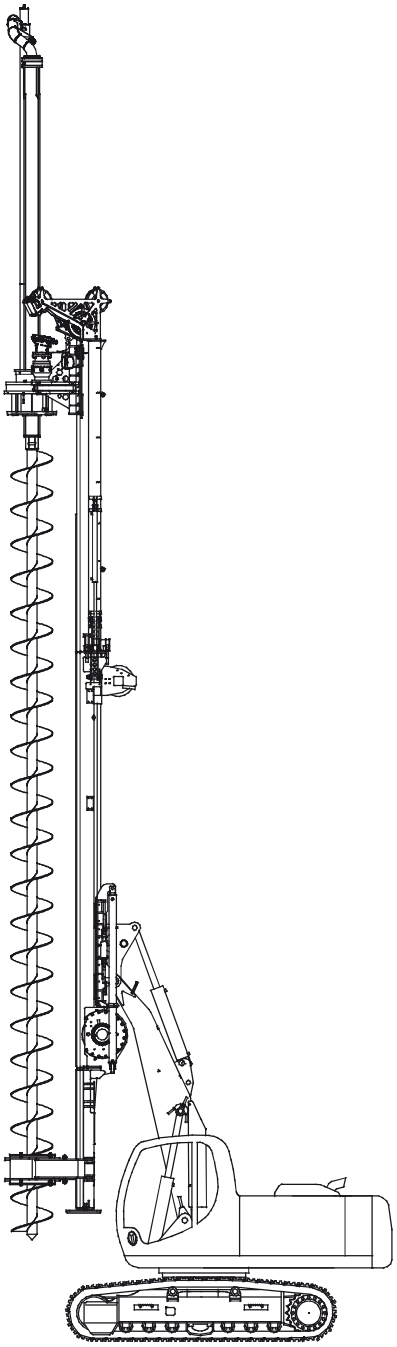
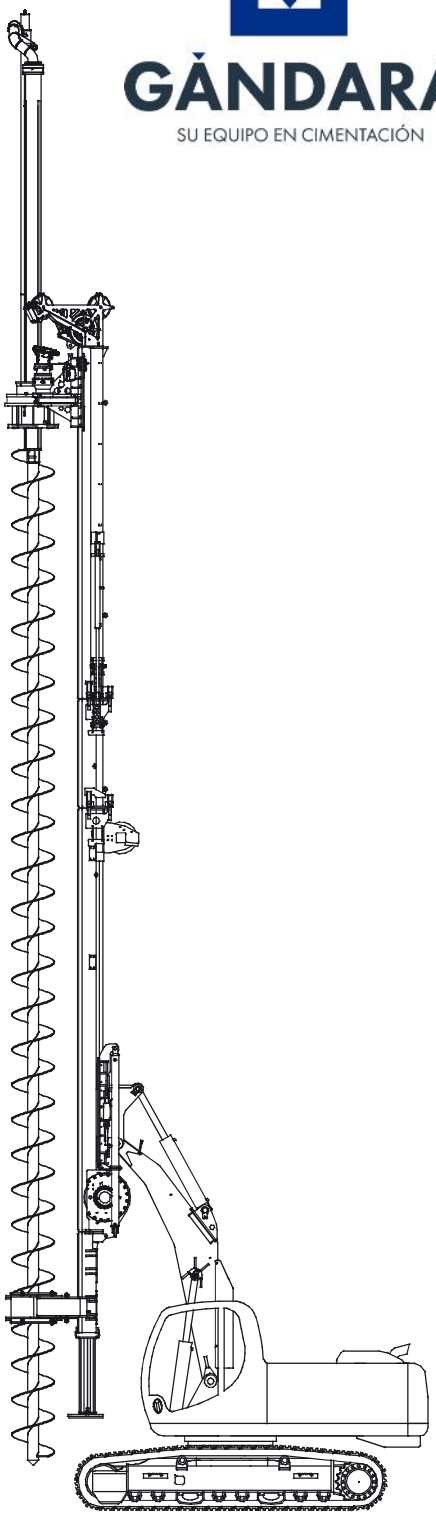
EK60 CFA

Pull down force	80 kN - 18.000 lbf
Extraction force	160 kN - 35.973 lbf
Total rotary stroke	11.100 mm - 36.4 ft
Max pile diameter	600 mm - 24 in
Max pile depth	13.5 m - 44.3 ft
Weight (w/o tool)	17.500 kg – 38.560 lb



EK90 CFA

Pull down force	100 kN - 22.480 lbf
Extraction force	360 kN – 80.940 lbf
Total rotary stroke	12.750 mm - 41.8 ft
Max pile diameter	750 mm - 30 in
Max pile depth	16.5 m - 54.1 ft
Weight (w/o tool)	25.000 kg – 55.100 lb



EK110 CFA

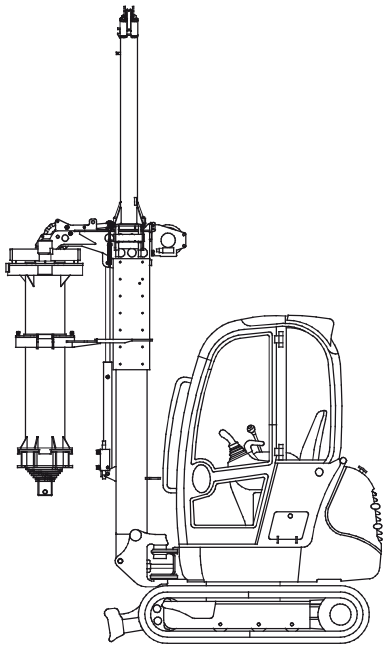
Pull down force	150 kN – 33.750 lbf
Extraction force	360 kN – 80.940 lbf
Total rotary stroke	min 12.750 mm - 41.8 ft
Max pile diameter	800 mm - 30 in
Max pile depth	up to 20 m - 65.6 ft
Weight (w/o tool)	from 29.000 kg – 63.930 lb

XD SERIES

XD series machines are the smallest hydraulic piling rigs in the world.

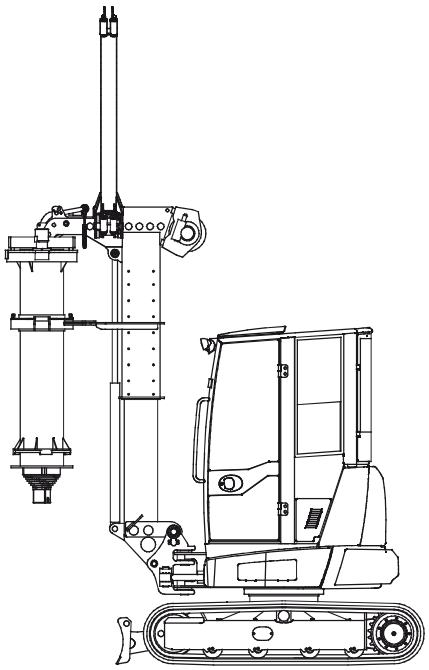
They are designed to work in extremely tight spaces, limited headroom, and jobsites difficult to access for any other standard piling rig. The minimum working height is 2.6 m (8.5') and the minimum width 1 m (3.28').

Despite the compact size, the XD series is equipped with all the features of larger rigs, such as auxiliary winch, depth meter, spin off speed and winch limit switches.



XD 5

Engine power	JCB 14.7 kW - 19.7 hp
Width over tracks	1.002/1362 mm - 3.3/4.5 ft
Nominal torque	6 kNm – 4.400 lbf ft
Main winch line pull	8 kN - 1.800 lbf
Max pile diameter	500 mm - 20 in
Max pile depth	9.5/11 m - 31/36 ft
Min working height	2.600 mm - 8.5 ft
Weight (w/o tool)	2.400 kg – 5.300 lb



XD 8

Engine power	Kubota 24.9 kW - 33.4 hp
Width over tracks	1.550 mm - 5 ft
Nominal torque	8 kNm – 5.900 lbf ft
Main winch line pull	15 kN - 3.370 lbf
Max pile diameter	600 mm - 24 in
Max pile depth	12 m - 39.5 ft
Min working height	2.800 mm -9 ft
Weight (w/o tool)	3.800 kg – 8.350 lb

The patented drilling attachments include a rotary system along with a telescopic Kelly bar, mounted on the mast with a gimbal joint, which guarantees always a perfect verticality. A hydraulic cylinder and the interlocking Kelly bar provide the crowd force necessary to overcome harder soils.
In addition, the XD series machines are designed to allow for a full conversion back to the original excavator functionalities in less than 30 minutes.

AT WORK

GEAX

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