



**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

# ABOUT US

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**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.

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**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

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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

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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.

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

# NETWORK

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

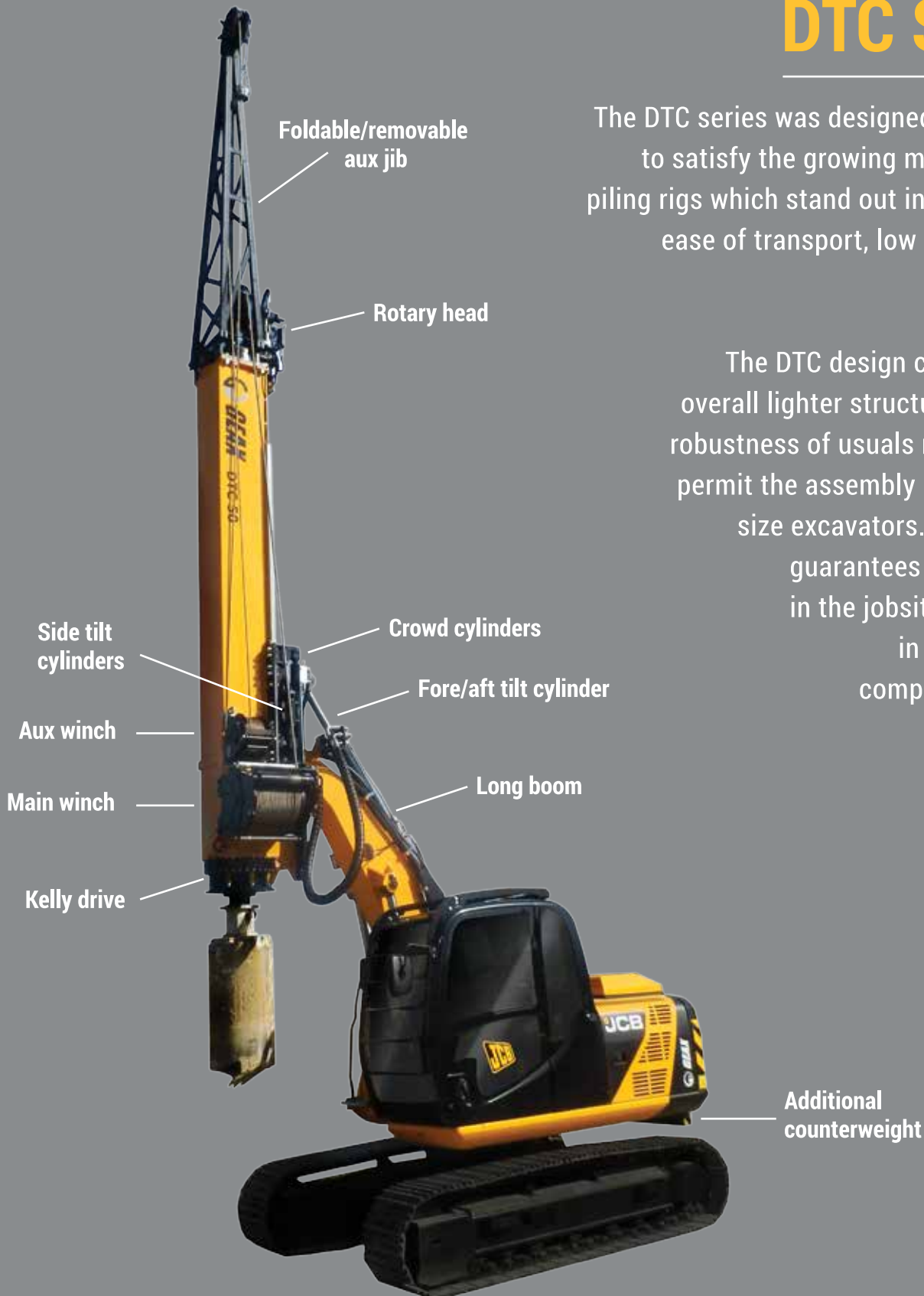




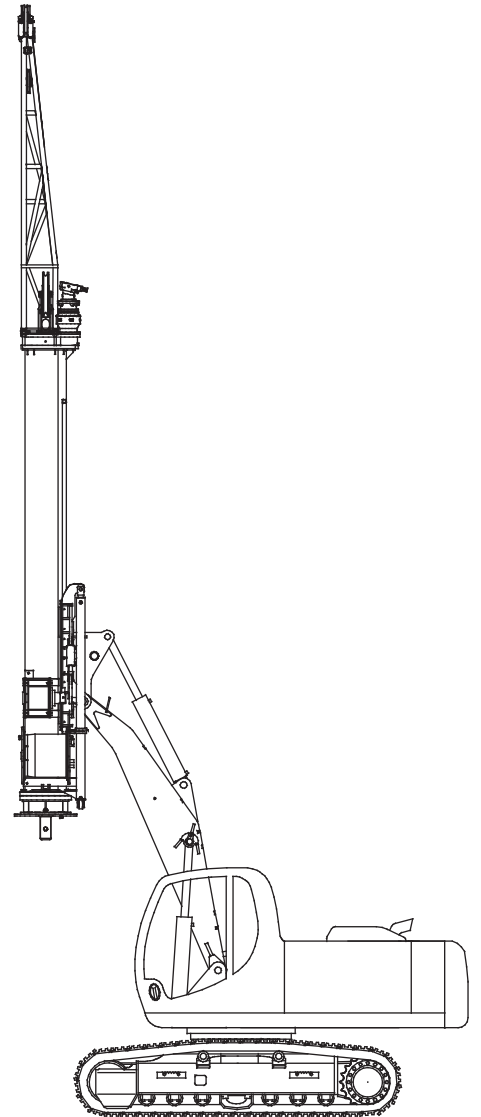
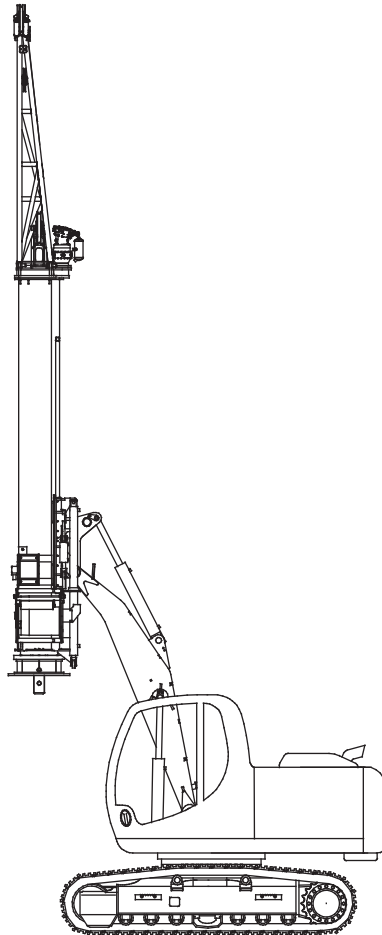
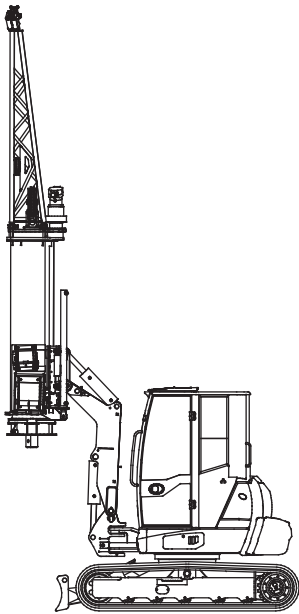
# DTC SERIES

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, low maintenance and running costs.

The DTC design choices ensure an overall lighter structure (at equivalent robustness of usuals machines), which permit the assembly on medium-small size excavators. Its compact size guarantees a superior agility in the jobsites, which results in high productivity comparable with much larger piling rigs.



The 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.



## DTC30

<b>Engine power</b>	Kohler 38.4 kW - 51 hp Kubota 36 kW - 49 hp
<b>Width over tracks</b>	1980 mm - 6.49 ft
<b>Nominal torque</b>	27 kNm - 19.900 lbf ft
<b>Main winch line pull</b>	35 kN - 7.800 lbf
<b>Max pile diameter</b>	800 mm - 32 in
<b>Max pile depth</b>	14.5/16 m - 47.5/52.5 ft
<b>Min working height</b>	4.000 mm - 13.1 ft
<b>Weight (w/o tool)</b>	9.000 kg - 19.800 lb

## DTC50

<b>Engine power</b>	JCB 81 kW - 109 hp Isuzu 78.5 kW - 105 hp
<b>Width over tracks</b>	2.490 mm - 8.17 ft
<b>Nominal torque</b>	47 kNm - 34.700 lbf ft
<b>Main winch line pull</b>	80 kN - 18.000 lbf
<b>Max pile diameter</b>	1.200 mm - 48 in
<b>Max pile depth</b>	up to 25 m - 82 ft
<b>Min working height</b>	from 6.200 mm - 20.3 ft
<b>Weight (w/o tool)</b>	from 17.000 kg - 37.500 lb

## DTC80

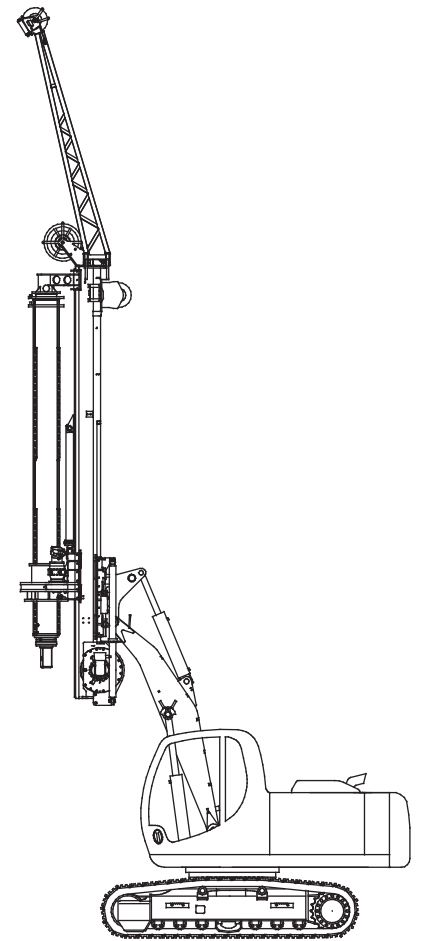
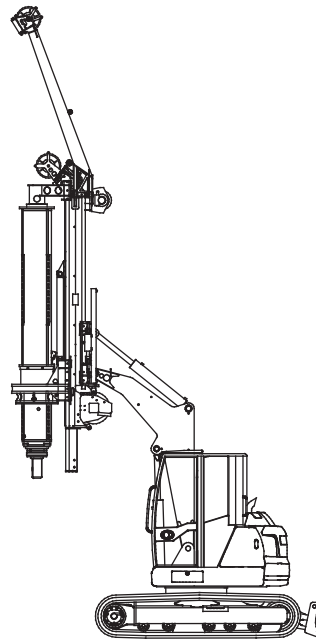
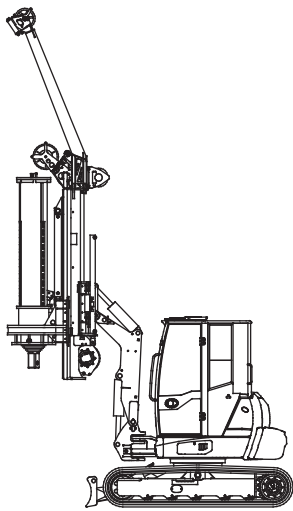
<b>Engine power</b>	JCB 93 kW - 125 hp Isuzu 86 kW - 115 hp
<b>Width over tracks</b>	2.490 mm - 8.17 ft
<b>Nominal torque</b>	82 kNm - 60.500 lbf ft
<b>Main winch line pull</b>	120 kN - 26.980 lbf
<b>Max pile diameter</b>	1.500 mm - 60 in
<b>Max pile depth</b>	up to 31 m - 101.70 ft
<b>Min working height</b>	7.840 mm - 25.7 ft
<b>Weight (w/o tool)</b>	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	✓	✓	✓			✓		
EK75	✓	✓	✓	✓	✓	✓		✓
EK90	✓	✓	✓	✓	✓	✓		✓
EK110	✓	✓	✓	✓	✓	✓	✓	



## EK30 P

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

## EK40 P

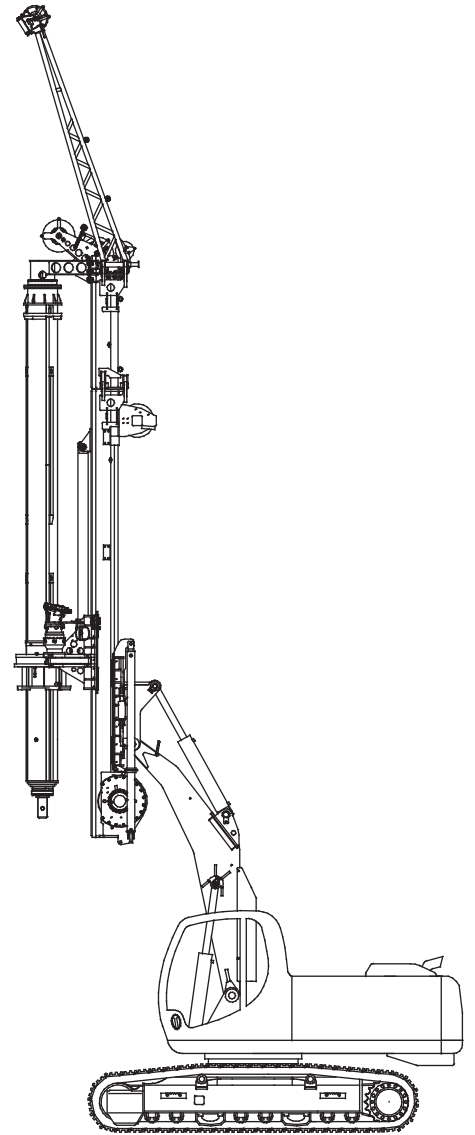
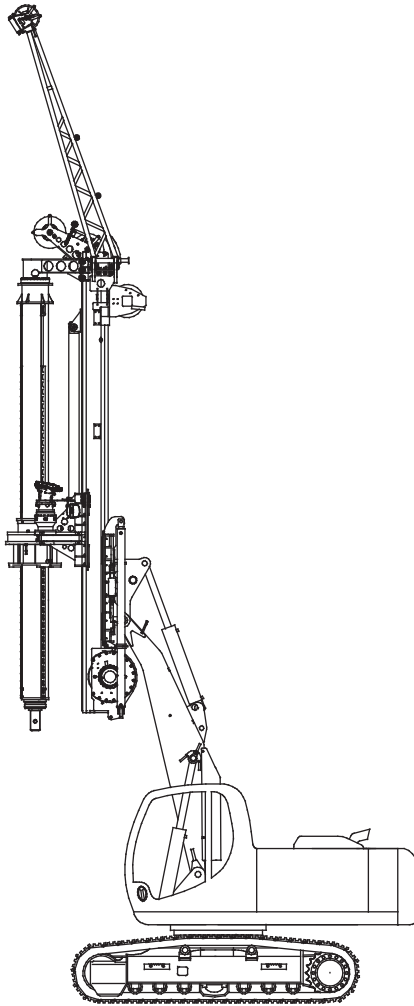
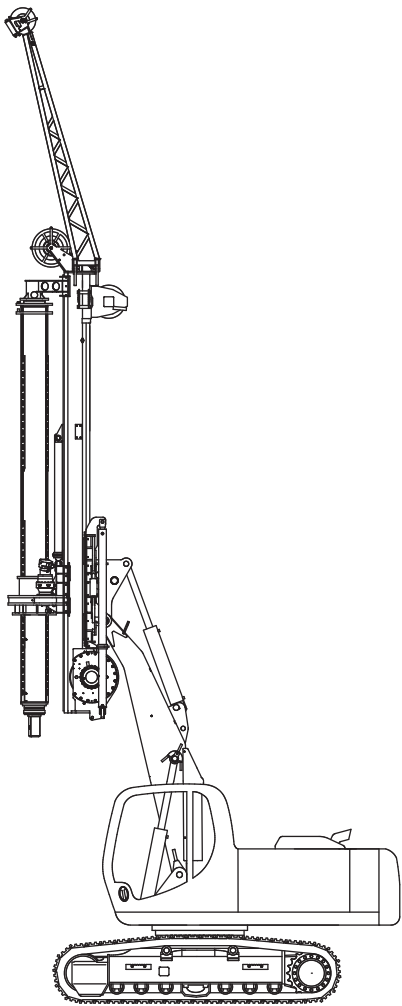
<b>Engine power</b>	Yanmar 46,5 kW - 63,2 hp 56.6 kW - 77 hp
<b>Width over tracks</b>	2320/2920 mm - 7.6/9.6 ft
<b>Nominal torque</b>	34 kNm - 25.000 lbf ft
<b>Main winch line pull</b>	55 kN - 12.350 lbf
<b>Max pile diameter</b>	1.000 mm - 40 in
<b>Max pile depth</b>	up to 27 m - 88.6 ft
<b>Min working height</b>	5.480 mm - 18 ft
<b>Weight (w/o tool)</b>	from 12.500 kg - 27.600 lb

## EK60 P

<b>Engine power</b>	JCB 81 kW - 109 hp Isuzu 78.5 kW - 105 hp
<b>Width over tracks</b>	2.490 mm - 8.17 ft
<b>Nominal torque</b>	56 kNm - 41.300 lbf ft
<b>Main winch line pull</b>	80 kN - 18.000 lbf
<b>Max pile diameter</b>	1.200 mm - 48 in
<b>Max pile depth</b>	up to 28.5 m - 93.5 ft
<b>Min working height</b>	6.950 mm - 22.8 ft
<b>Weight (w/o tool)</b>	19.000 kg - 42.400 lb

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.



## EK75 P

<b>Engine power</b>	JCB 93 kW - 125 hp Isuzu 86 kW - 115 hp
<b>Width over tracks</b>	2.490 mm - 8.17 ft
<b>Nominal torque</b>	73 kNm - 53.800 lbf ft
<b>Main winch line pull</b>	120 kN - 26.980 lbf
<b>Max pile diameter</b>	1.500 mm - 60 in
<b>Max pile depth</b>	up to 36 m - 118 ft
<b>Min working height</b>	7.000 mm - 23 ft
<b>Weight (w/o tool)</b>	26.000 kg - 57.300 lb

## EK90 P

<b>Engine power</b>	JCB 93 kW - 125 hp Isuzu 86 kW - 115 hp
<b>Width over tracks</b>	2.490 mm - 8.17 ft
<b>Nominal torque</b>	90 kNm - 66.380 lbf ft
<b>Main winch line pull</b>	120 kN - 26.980 lbf
<b>Max pile diameter</b>	1.500 mm - 60 in
<b>Max pile depth</b>	up to 31 m - 101.70 ft
<b>Min working height</b>	7.000 mm - 23 ft
<b>Weight (w/o tool)</b>	27.000 kg - 59.500 lb

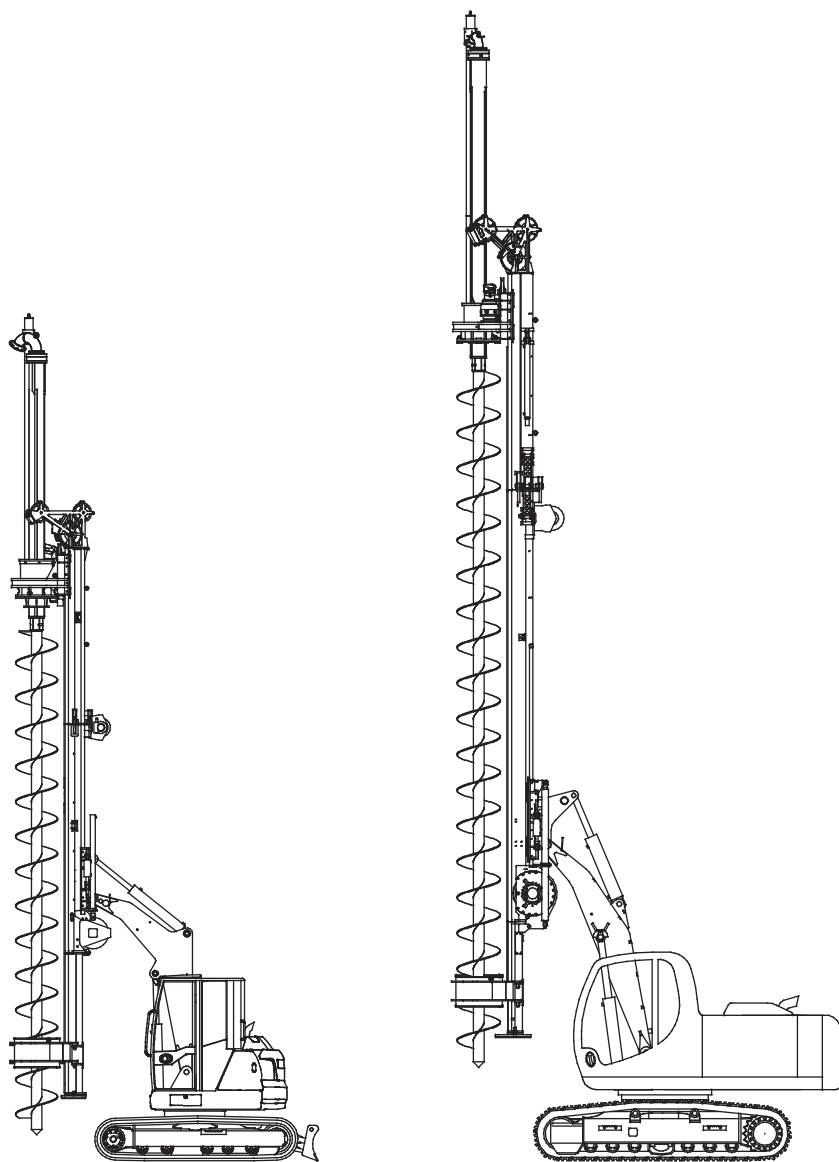
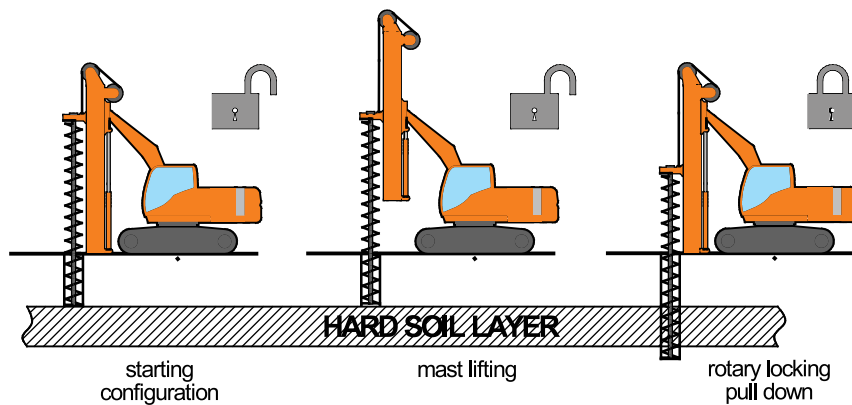
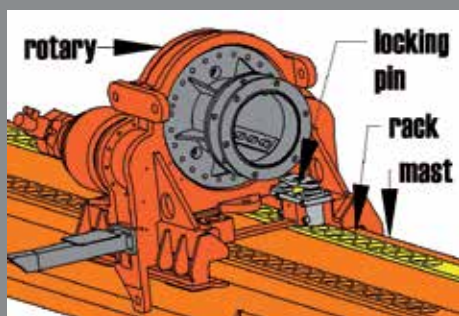
## EK110 P

<b>Engine power</b>	JCB 126 kW - 172 hp Isuzu 122 kW - 164 hp
<b>Width over tracks</b>	2.490/3.490 mm - 8.2/11.4 ft
<b>Nominal torque</b>	110 kNm - 81.130 lbf ft
<b>Main winch line pull</b>	120 kN - 26.980 lbf
<b>Max pile diameter</b>	1.800 mm - 70 in
<b>Max pile depth</b>	up to 40 m - 131 ft
<b>Min working height</b>	8.500 mm - 27.9 ft
<b>Weight (w/o tool)</b>	from 30.000 kg - 66.090 lb

# BPS 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.



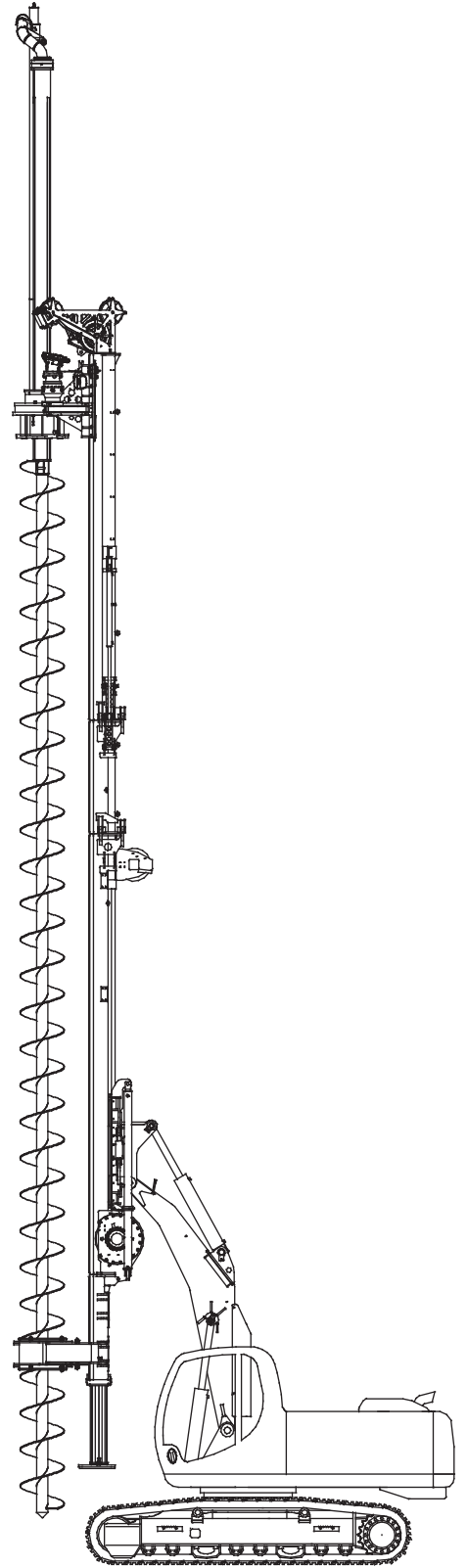
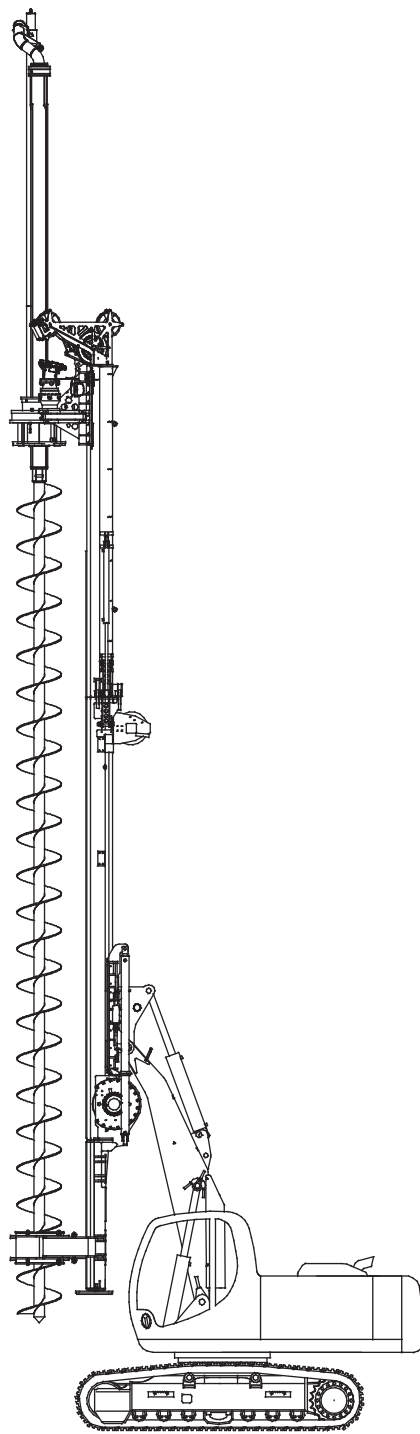
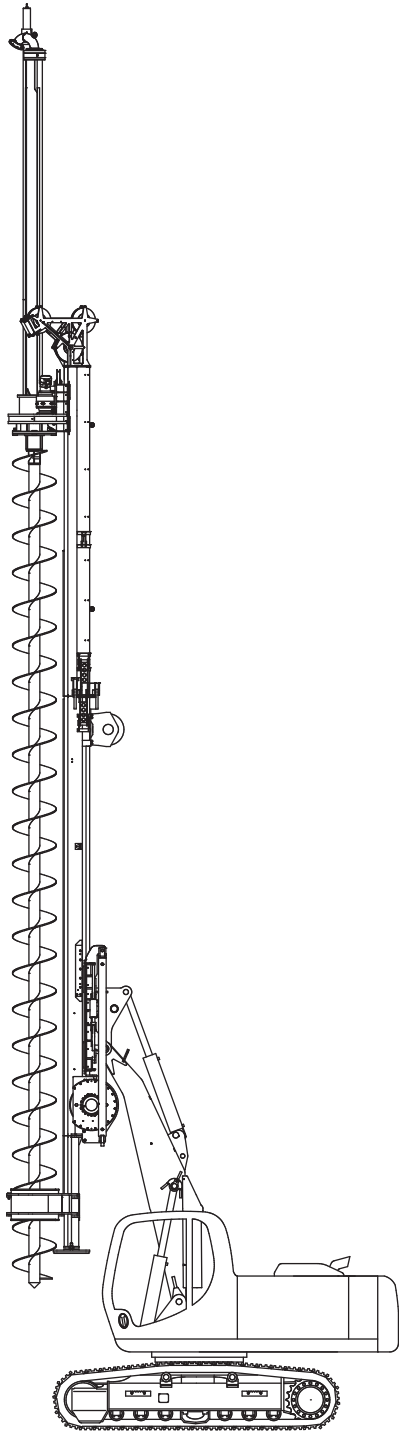
## EK40 CFA

<b>Pull down force</b>	60 kN - 13.400 lbf
<b>Extraction force</b>	165 kN - 37.100 lbf
<b>Total rotary stroke</b>	7.500 mm - 24.6 ft
<b>Max pile diameter</b>	500 mm - 20 in
<b>Max pile depth</b>	10/11.5 m - 33/38 ft
<b>Weight (w/o tool)</b>	from 12.000 kg - 26.500 lb

## EK60 CFA

<b>Pull down force</b>	80 kN - 18.000 lbf
<b>Extraction force</b>	240 kN - 54.000 lbf
<b>Total rotary stroke</b>	11.100 mm - 36.4 ft
<b>Max pile diameter</b>	600 mm - 24 in
<b>Max pile depth</b>	13.5 m - 44.3 ft
<b>Weight (w/o tool)</b>	17.500 kg - 38.560 lb





## EK75 CFA

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

## EK90 CFA

<b>Pull down force</b>	100 kN - 22.480 lbf
<b>Extraction force</b>	360 kN - 80.940 lbf
<b>Total rotary stroke</b>	12.750 mm - 41.8 ft
<b>Max pile diameter</b>	750 mm - 30 in
<b>Max pile depth</b>	16.5 m - 54.1 ft
<b>Weight (w/o tool)</b>	26.000 kg - 57.300 lb

## EK110 CFA

<b>Pull down force</b>	150 kN - 33.750 lbf
<b>Extraction force</b>	360 kN - 80.940 lbf
<b>Total rotary stroke</b>	14.000 mm - 45.9 ft
<b>Max pile diameter</b>	800 mm - 32 in
<b>Max pile depth</b>	up to 20 m - 65.6 ft
<b>Weight (w/o tool)</b>	from 29.000 kg - 63.930 lb

# XD SERIES

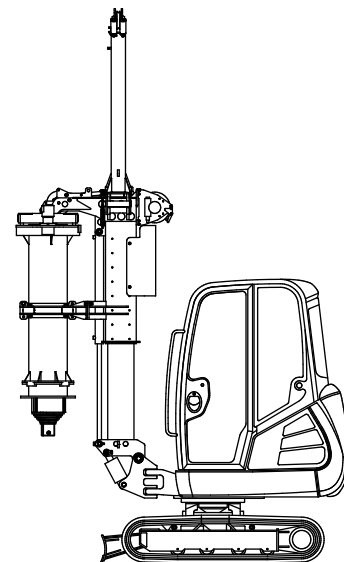
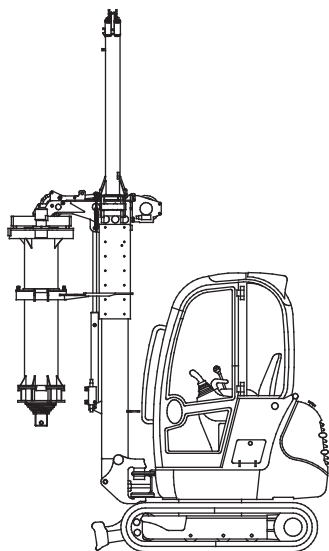
**XD series machines are the smallest hydraulic piling rigs in the world.**

They are designed to work in extremely tight spaces, limited headroom, and jobsites difficult to access for any other standard piling rig.

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

In the XD5 and XD8 the vertical alignment is guaranteed by the force of gravity. The patented drilling system include a rotary along with a telescopic kelly bar, mounted on the mast with a gimbal joint, which guarantees always a perfect verticality.

In the XD6 and XD9 the vertical alignment is guaranteed by hydraulic cylinders. One on the mast for longitudinal tilt and one under the turret for transverse tilt (VDS Vertical Digging System)



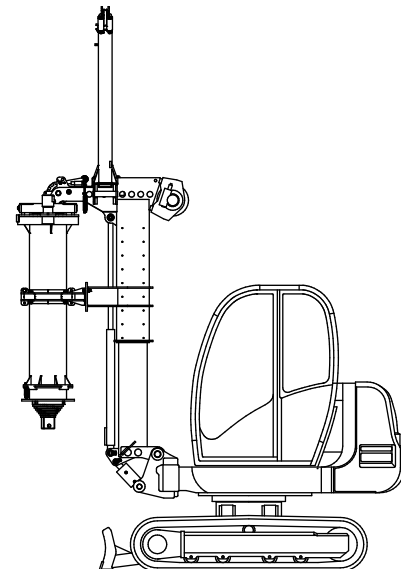
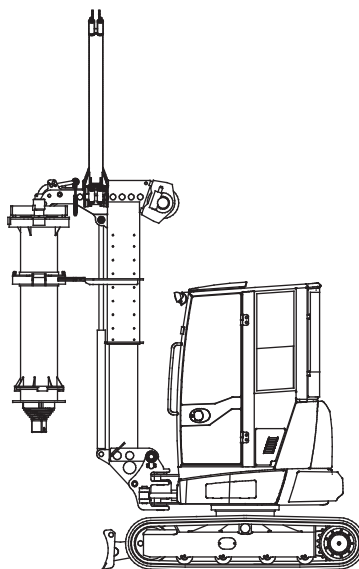
## XD 5

<b>Engine power</b>	Perkins 14.7 kW - 19.7 hp
<b>Width over tracks</b>	1002/1362 mm - 3.3/4.5 ft
<b>Nominal torque</b>	6 kNm - 4.420 lbf ft
<b>Main winch line pull</b>	8 kN - 1.800 lbf
<b>Max pile diameter</b>	500 mm - 20 in
<b>Max pile depth</b>	9.5/11 m - 31/36 ft
<b>Min working height</b>	2.600 mm - 8.5 ft
<b>Weight (w/o tool)</b>	2.400 kg - 5.300 lb

## XD 6



<b>Engine power</b>	Yanmar 13.4 kW - 18.2 hp
<b>Width over tracks</b>	990/1300 mm - 3.25/4.3 ft
<b>Nominal torque</b>	6 kNm - 4.420 lbf ft
<b>Main winch line pull</b>	12 kN - 2.700 lbf
<b>Max pile diameter</b>	500 mm - 20 in
<b>Max pile depth</b>	11 m - 36 ft
<b>Min working height</b>	2.600 mm - 8.5 ft
<b>Weight (w/o tool)</b>	2.900 kg - 6.390 lb



## XD 8

<b>Engine power</b>	Kubota 24.9 kW - 33.4 hp
<b>Width over tracks</b>	1.550 mm - 5 ft
<b>Nominal torque</b>	8 kNm - 5.900 lbf ft
<b>Main winch line pull</b>	15 kN - 3.400 lbf
<b>Max pile diameter</b>	600 mm - 24 in
<b>Max pile depth</b>	12 m - 40 ft
<b>Min working height</b>	2.800 mm - 9 ft
<b>Weight (w/o tool)</b>	3.800 kg - 8.350 lb

## XD 9



<b>Engine power</b>	Perkins 29.8 kW - 39.9 hp
<b>Width over tracks</b>	1.620 mm - 5.3 ft
<b>Nominal torque</b>	8 kNm - 5.900 lbf ft
<b>Main winch line pull</b>	15 kN - 3.400 lbf
<b>Max pile diameter</b>	600 mm - 24 in
<b>Max pile depth</b>	12 m - 40 ft
<b>Min working height</b>	2.800 mm - 9 ft
<b>Weight (w/o tool)</b>	4.300 kg - 9.480 lb





# AT WORK







Via Campoceraso 13 - 60027 OSIMO (AN) ITALY

Tel: +39 0717131953 - Fax: +39 071715199  
www.geax.it - info@geax.it

Technical Specifications are subject to change without prior notice.