



**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 2022/1

# 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

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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!



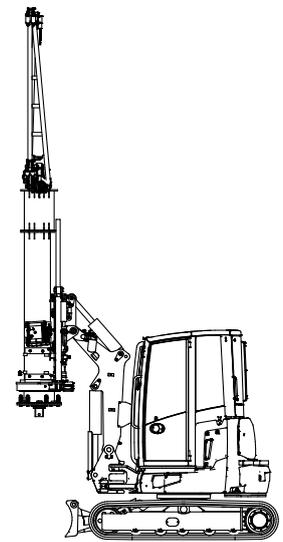
# DTC SERIES

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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 usual 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 boom which supports a monolithic steel mast capable of independent vertical translation.



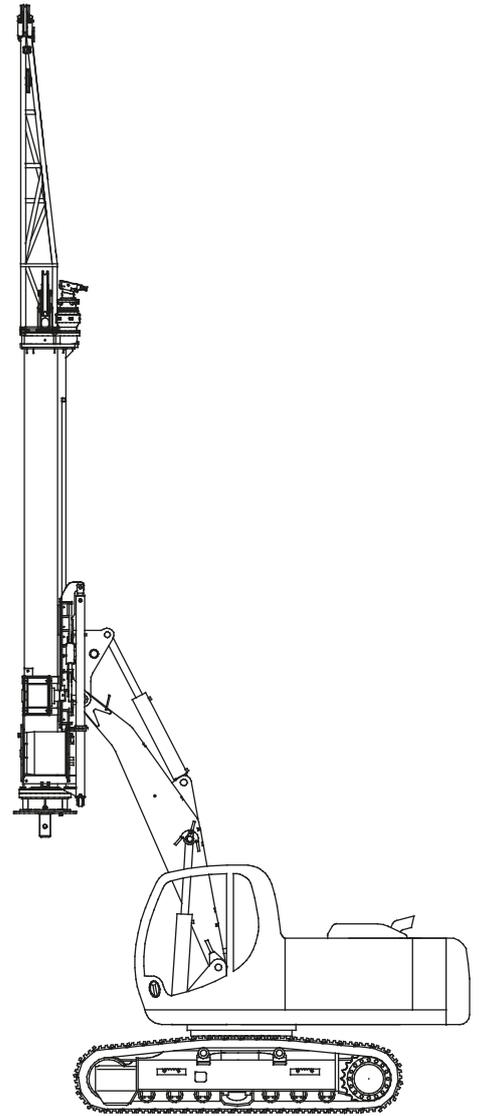
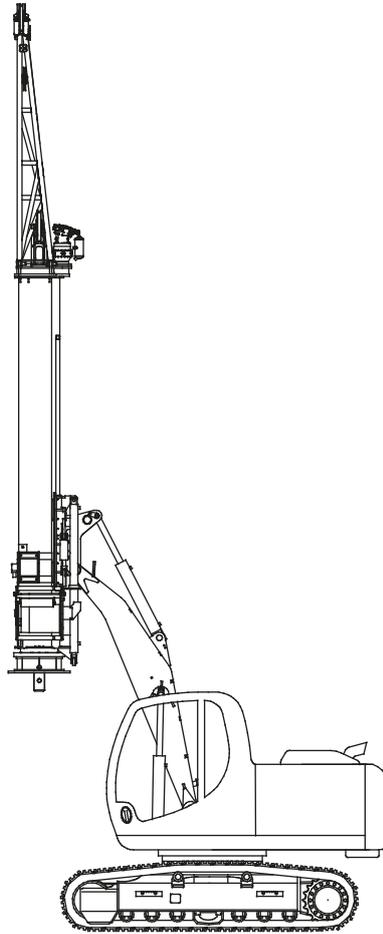
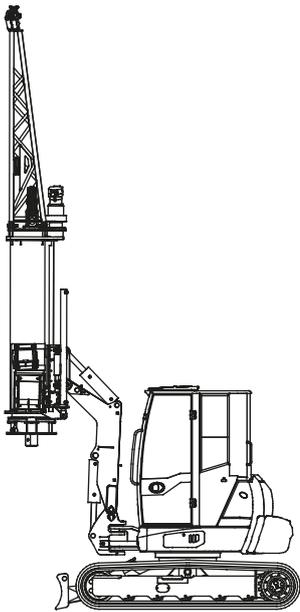
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## DTC20

<b>Engine power</b>	32.3 kW - 43.3 hp
<b>Width over tracks</b>	1.750 mm - 5.75 ft
<b>Nominal torque</b>	17 kNm - 12.500 lbf ft
<b>Main winch line pull</b>	30 kN - 6.750 lbf
<b>Max pile diameter</b>	800 mm - 32 in
<b>Max pile depth</b>	up to 21.5 m - 70.5 ft
<b>Min working height</b>	from 3.220 mm - 8.26 ft
<b>Weight (w/o tool)</b>	6.200 kg - 13.670 lb

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The new concept of a boxed steel mast, which internally 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>	36.2 kW - 48.5 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>	4.340 mm - 14.2 ft
<b>Weight (w/o tool)</b>	9.500 kg - 20.950 lb

## DTC50

<b>Engine power</b>	86 kW - 115 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>	82 kN - 18.440 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 6.400 mm - 21 ft
<b>Weight (w/o tool)</b>	from 18.000 kg - 39.680 lb

## DTC80

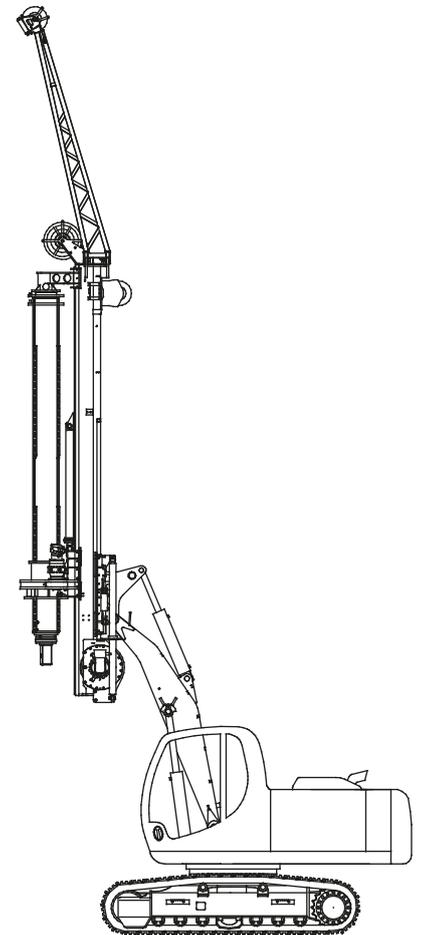
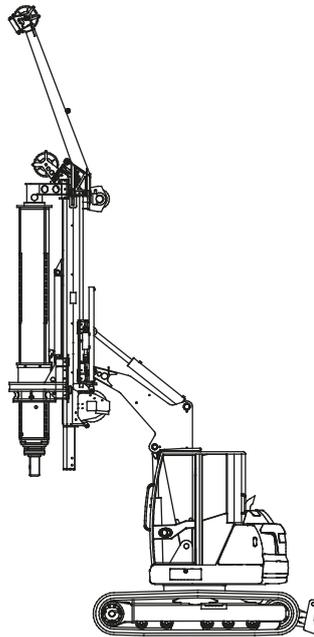
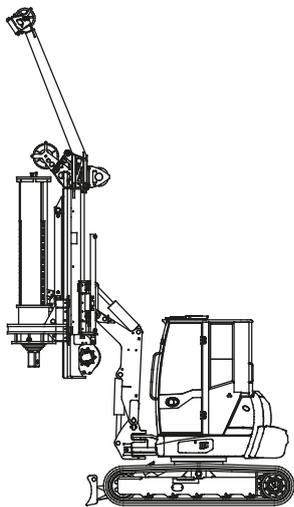
<b>Engine power</b>	97.4 kW - 131 hp
<b>Width over tracks</b>	2.490 mm - 8.17 ft
<b>Nominal torque</b>	82 kNm - 60.500 lbf ft
<b>Main winch line pull</b>	110 kN - 24.730 lbf
<b>Max pile diameter</b>	1.500 mm - 60 in
<b>Max pile depth</b>	up to 31 m - 101.70 ft
<b>Min working height</b>	7.750 mm - 25.4 ft
<b>Weight (w/o tool)</b>	25.000kg - 55.100 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

<b>Engine power</b>	36.2 kW - 48.5 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>	3.930 mm - 12.9 ft
<b>Weight (w/o tool)</b>	9.500 kg - 19.850 lb

## EK40

<b>Engine power</b>	53.7 kW - 73 hp
<b>Width over tracks</b>	2320/2920 mm - 7.6/9.6 ft
<b>Nominal torque</b>	34 kNm - 25.080 lbf ft
<b>Main winch line pull</b>	58 kN - 13.040 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>	4.050/4.900 mm - 16/13.3 ft
<b>Weight (w/o tool)</b>	from 12.800 kg - 28.220 lb

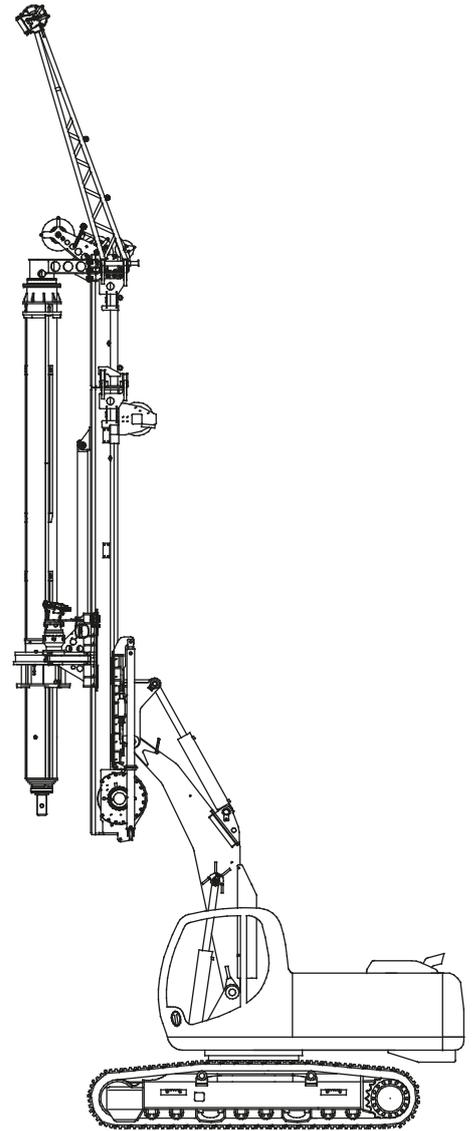
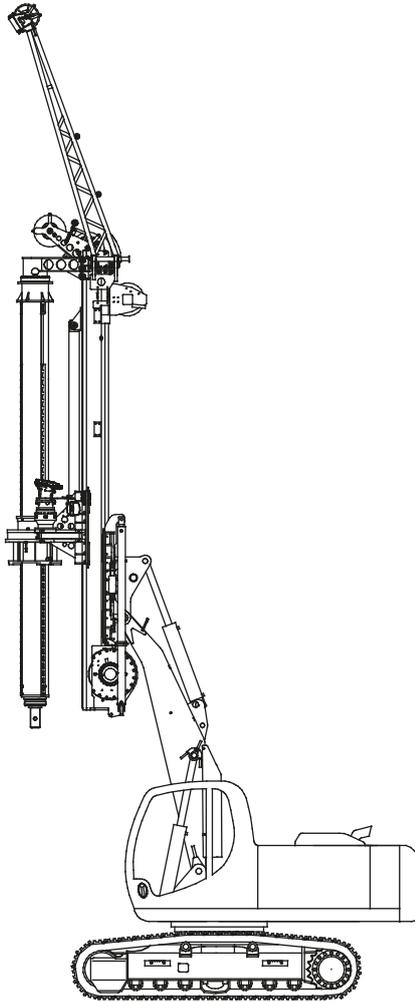
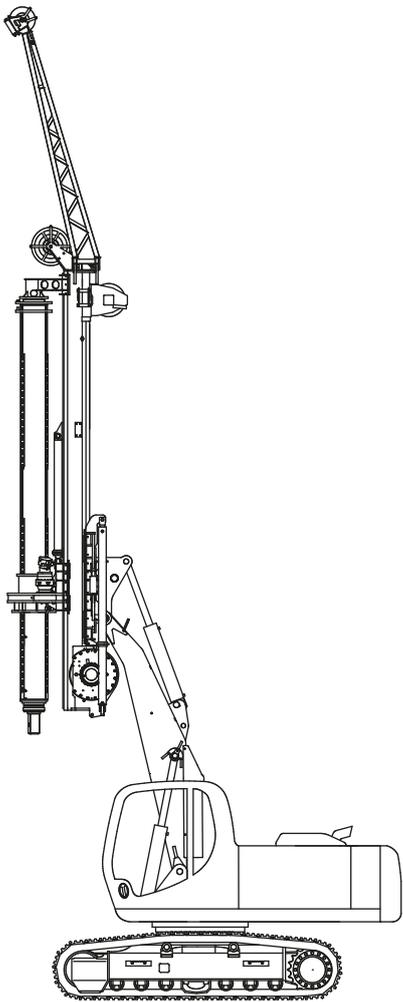
## EK60

<b>Engine power</b>	86 kW - 115 hp
<b>Width over tracks</b>	2.490 mm - 8.17 ft
<b>Nominal torque</b>	55 kNm - 40.565 lbfft
<b>Main winch line pull</b>	82 kN - 18.440 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>	5.300/6.650 mm - 17.4/21.8 ft
<b>Weight (w/o tool)</b>	from 21.000 kg - 46.300 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

<b>Engine power</b>	97.4 kW - 131hp
<b>Width over tracks</b>	2.490 mm - 8.17 ft
<b>Nominal torque</b>	70 kNm - 51.600 lbf ft
<b>Main winch line pull</b>	110 kN - 24.730 lbf
<b>Max pile diameter</b>	1.500 mm - 60 in
<b>Max pile depth</b>	up to 37 m - 121.4 ft
<b>Min working height</b>	6.900 mm - 22.6 ft
<b>Weight (w/o tool)</b>	27.000 kg - 59.500 lb

## EK90

<b>Engine power</b>	97.4 kW - 131 hp
<b>Width over tracks</b>	2.490 mm - 8.17 ft
<b>Nominal torque</b>	87 kNm - 64.170 lbf ft
<b>Main winch line pull</b>	110 kN - 24.730 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>	6.900 mm - 22.6 ft
<b>Weight (w/o tool)</b>	28.000 kg - 61.700 lb

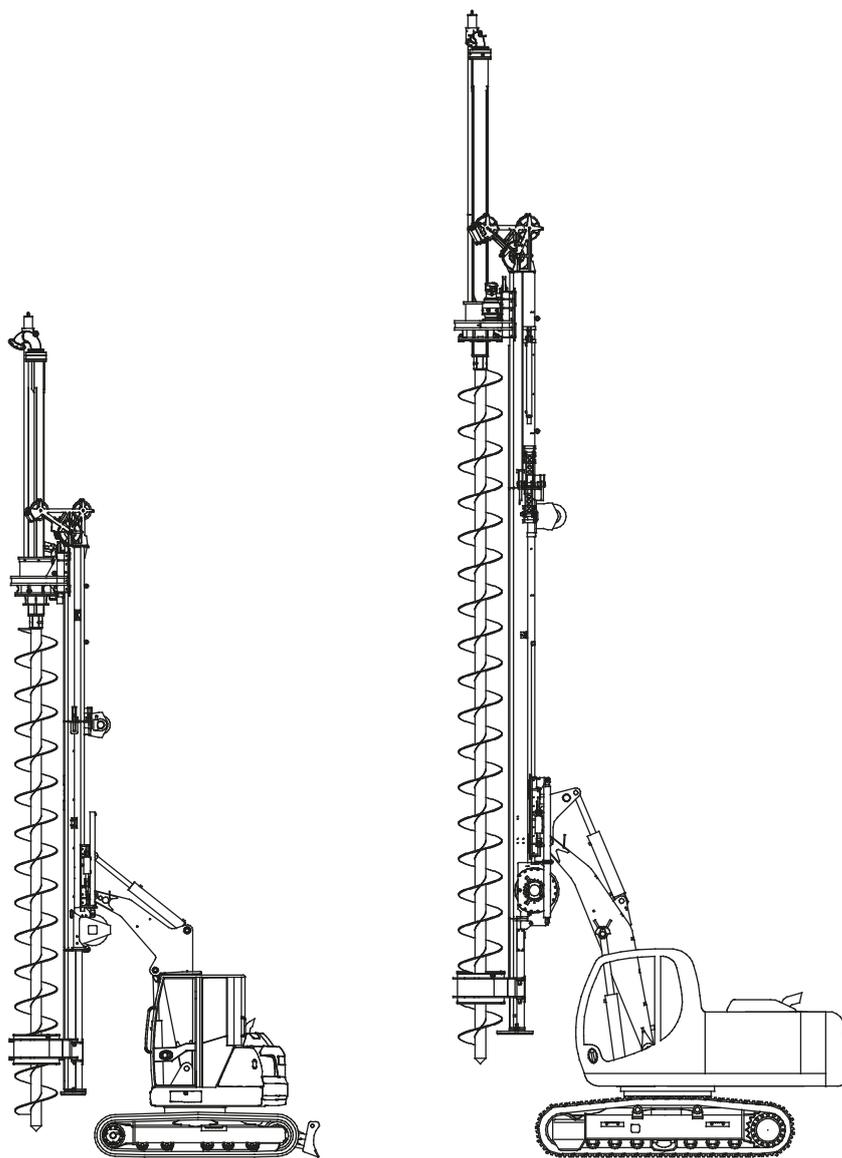
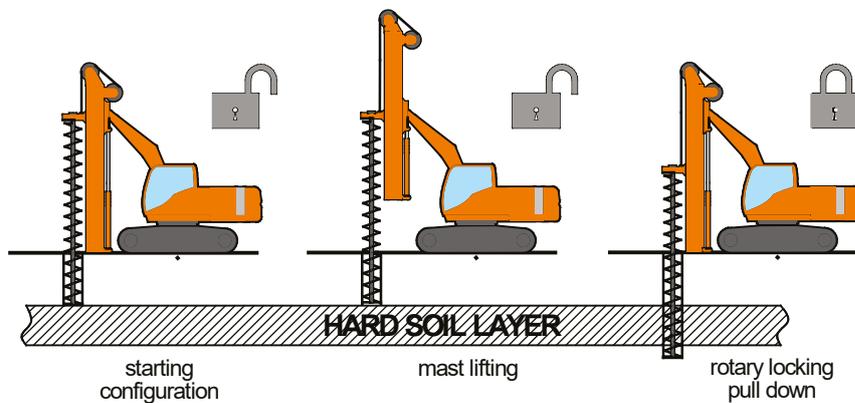
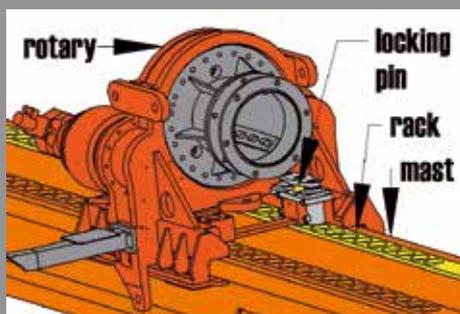
## EK110

<b>Engine power</b>	124 kW - 166 hp
<b>Width over tracks</b>	2.540/3.700 mm - 8.3/12.1 ft
<b>Nominal torque</b>	107 kNm - 78.920 lbf ft
<b>Main winch line pull</b>	120 kN - 27.000 lbf
<b>Max pile diameter</b>	1.800 mm - 70 in
<b>Max pile depth</b>	up to 46 m - 150 ft
<b>Min working height</b>	6.900 mm - 22.6 ft
<b>Weight (w/o tool)</b>	from 29.800 kg - 65.700 lb

# BPS crowd system for CFA piling

BPS is the Geax patented crowd system for CFA piling providing a mechanical locking system between the rotary head and the mast which creates a crowd force on the auger available along the entire length of the mast.

The system is activated only when needed by the operator and requires no pulleys or rope

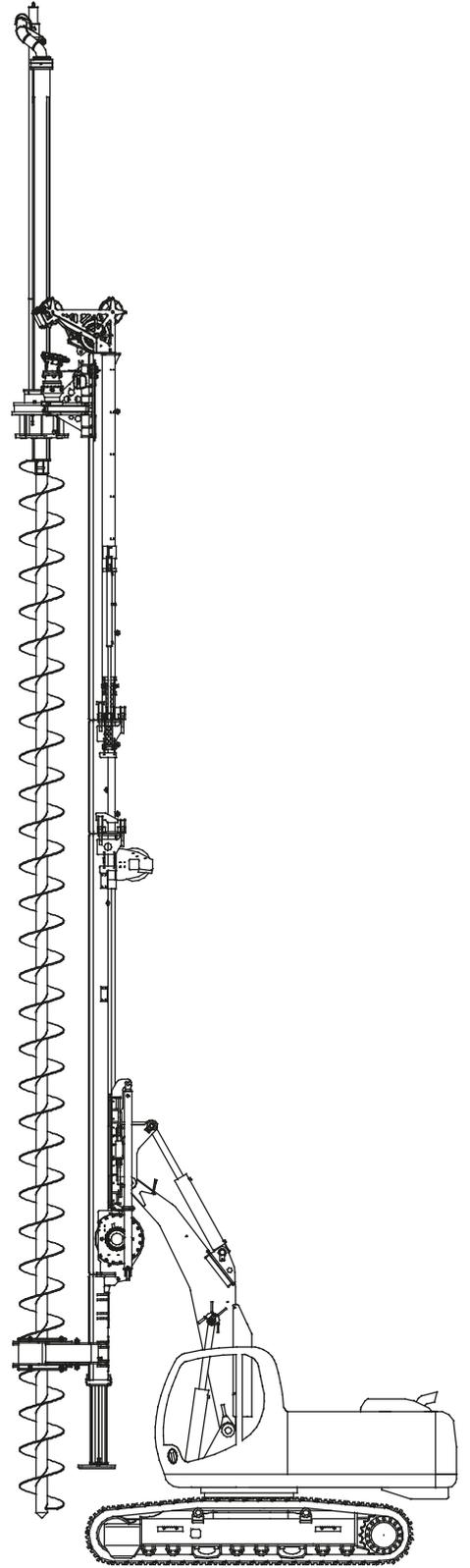
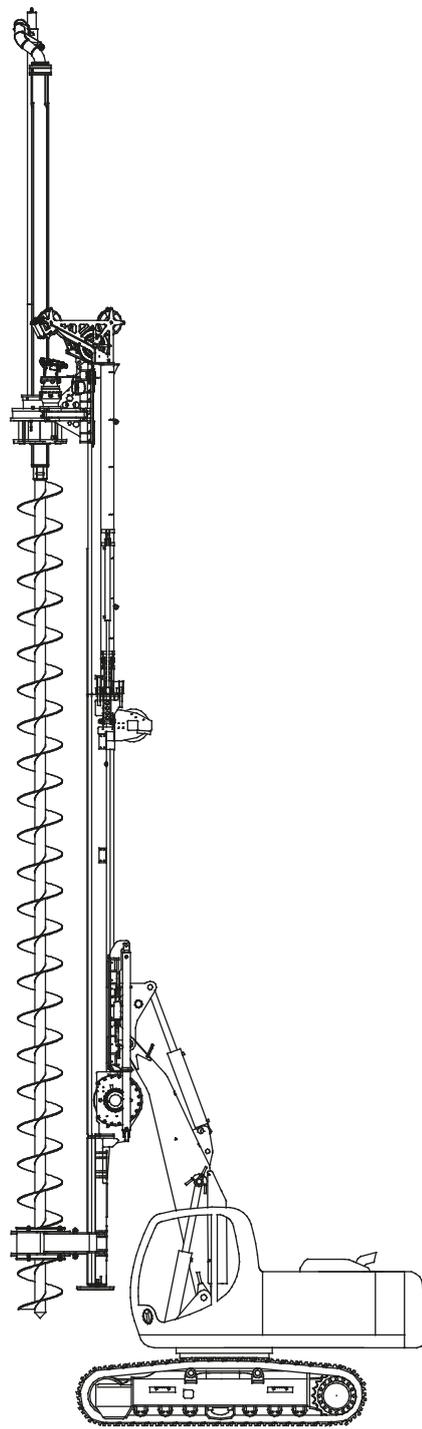
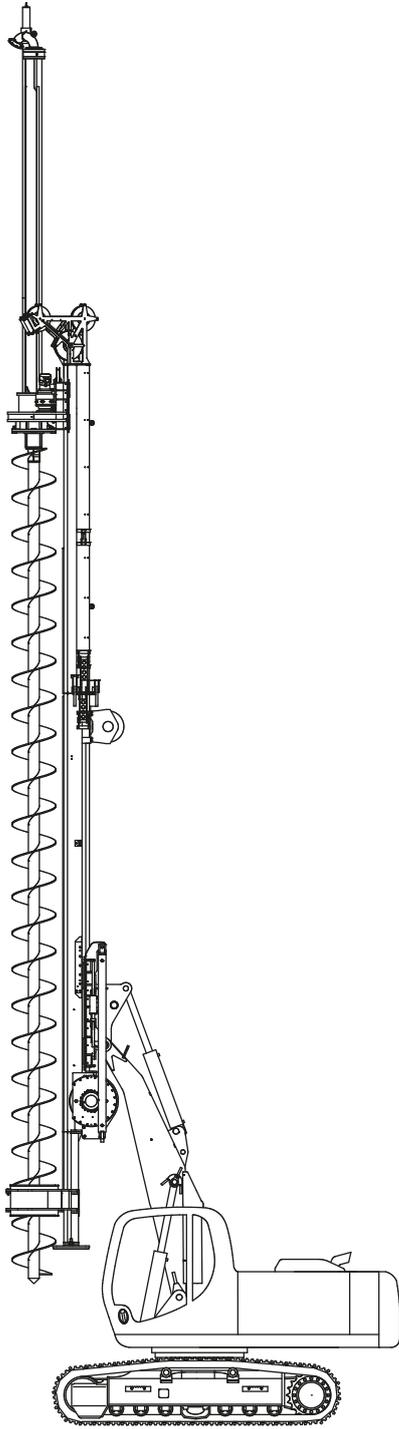


## EK40 CFA

<b>Pull down force</b>	85 kN - 19.100 lbf
<b>Extraction force</b>	150 kN - 33.720 lbf
<b>Total rotary stroke</b>	7.900/9.200 mm - 25.9/30.2 ft
<b>Max pile diameter</b>	500 mm - 20 in
<b>Max pile depth</b>	11.2/12.5 m - 36.7/41 ft
<b>Weight (w/o tool)</b>	from 13.000 kg - 28.650 lb

## EK60 CFA

<b>Pull down force</b>	120 kN - 27.000 lbf
<b>Extraction force</b>	215 kN - 48.340 lbf
<b>Total rotary stroke</b>	11.230 mm - 36.8 ft
<b>Max pile diameter</b>	600 mm - 24 in
<b>Max pile depth</b>	14.3 m - 47 ft
<b>Weight (w/o tool)</b>	21.000 kg - 46.300 lb



## EK75 CFA

<b>Pull down force</b>	160 kN - 36.000 lbf
<b>Extraction force</b>	290 kN - 65.200 lbf
<b>Total rotary stroke</b>	13.250 mm - 43.5 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>	27.500 kg - 60.600 lb

## EK90 CFA

<b>Pull down force</b>	165 kN - 37.100 lbf
<b>Extraction force</b>	290 kN - 65.200 lbf
<b>Total rotary stroke</b>	13.250 mm - 43.5 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>	28.500 kg - 62.800 lb

## EK110 CFA

<b>Pull down force</b>	170 kN - 38.200 lbf
<b>Extraction force</b>	310 kN - 69.700 lbf
<b>Total rotary stroke</b>	16.250 mm - 53.3 ft
<b>Max pile diameter</b>	800 mm - 32 in
<b>Max pile depth</b>	up to 20.5 m - 67 ft
<b>Weight (w/o tool)</b>	from 30.300 kg - 66.800 lb

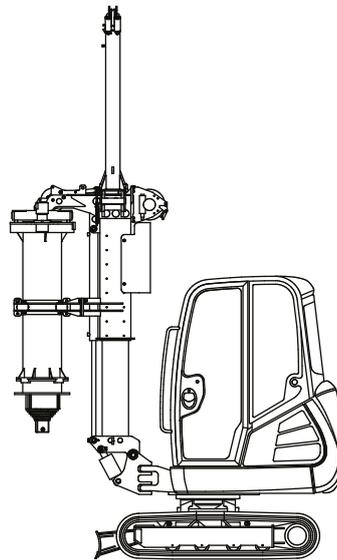
# XD SERIES

**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.

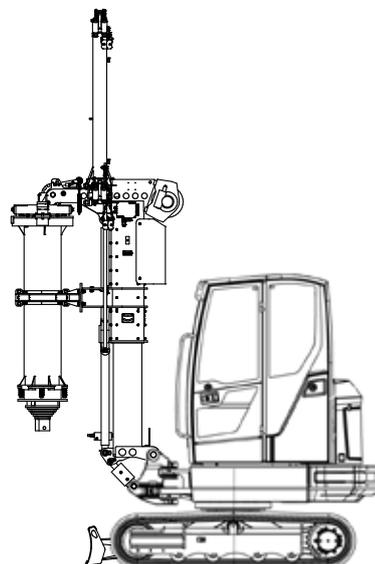
The vertical alignment is guaranteed by hydraulic cylinders. One on the mast for longitudinal tilt and one under the turret for transverse tilt (VDS Vertical Digging System)



## XD 6



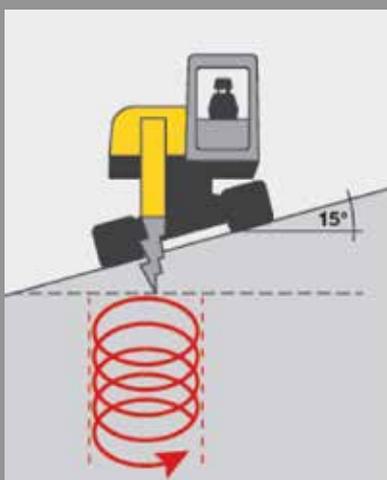
<b>Engine power</b>	13.4 kW - 18.2 hp
<b>Width over tracks</b>	990/1300 mm - 3.25/4.3 ft
<b>Nominal torque</b>	6 kNm - 4.420 lbf ft
<b>Main winch line pull</b>	12 kN - 2.700 lbf
<b>Max pile diameter</b>	500 mm - 20 in
<b>Max pile depth</b>	11 m - 36 ft
<b>Min working height</b>	2.600 mm - 8.5 ft
<b>Weight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



## XD 9



<b>Engine power</b>	18.2 kW - 24.4 hp
<b>Width over tracks</b>	1.630 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>	4.500 kg - 9.920 lb



# AT WORK





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Technical Specifications are subject to change without prior notice.