

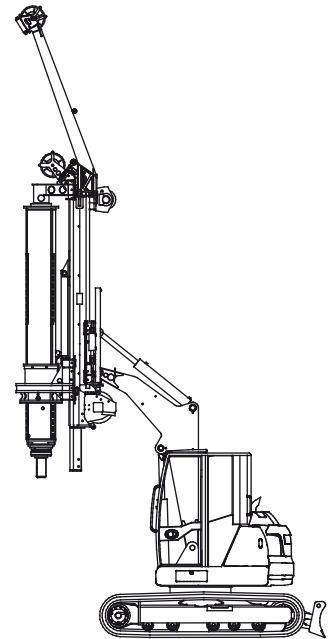
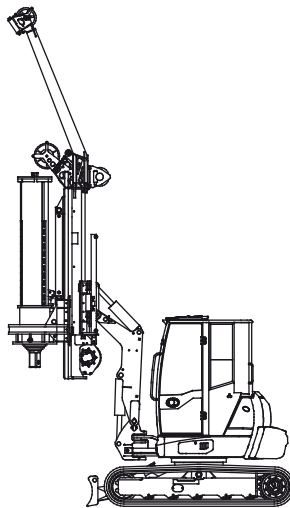
# EK SERIES

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.

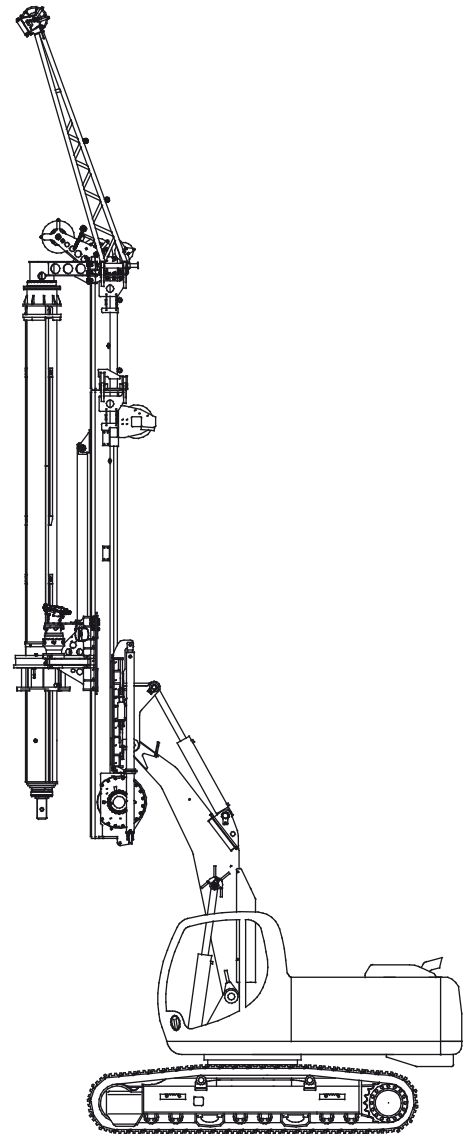
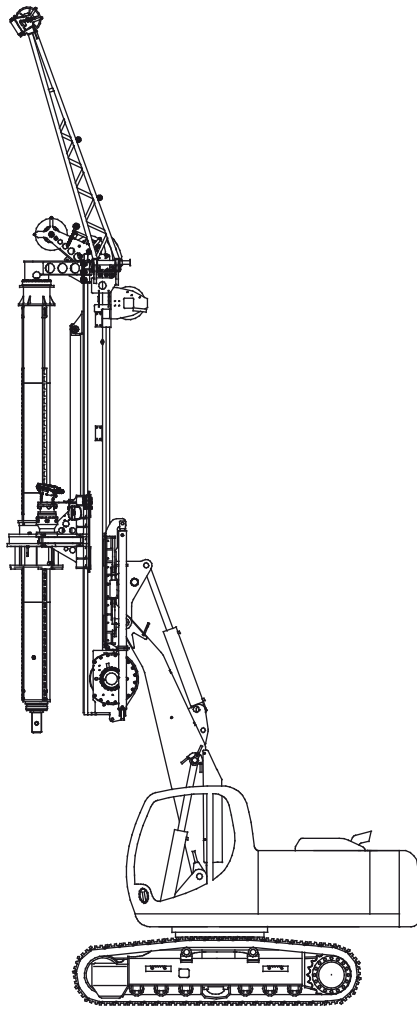
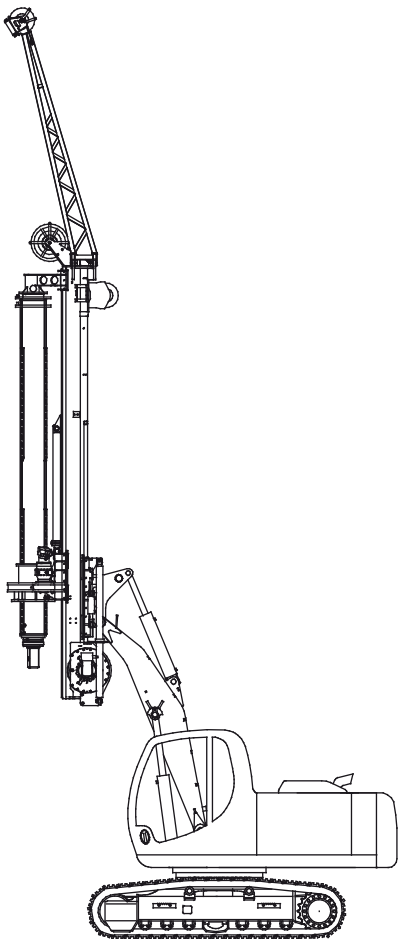


## EK30 P

<b>Engine power</b>	JCB 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>	48 kN - 10.800 lbf
<b>Max pile diameter</b>	1.000 mm - 40 in
<b>Max pile depth</b>	20/28 m - 65.5/92 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 Hitachi 73.4 kW - 98 hp
<b>Width over tracks</b>	2.490 mm - 8.17 ft
<b>Nominal torque</b>	53 kNm - 38.400 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>	6.450 mm - 21.2 ft
<b>Weight (w/o tool)</b>	19.000 kg - 42.400 lb

## EK90 P

<b>Engine power</b>	JCB 93 kW - 125 hp Hitachi 90.2 kW - 121 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>	8.250 mm - 27 ft
<b>Weight (w/o tool)</b>	26.000 kg - 57.300 lb

## EK110 P

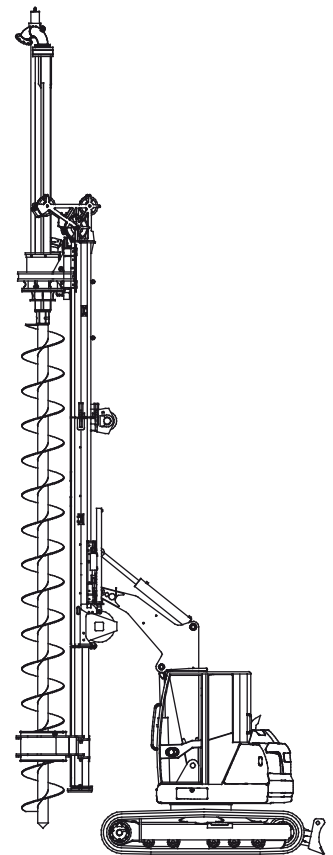
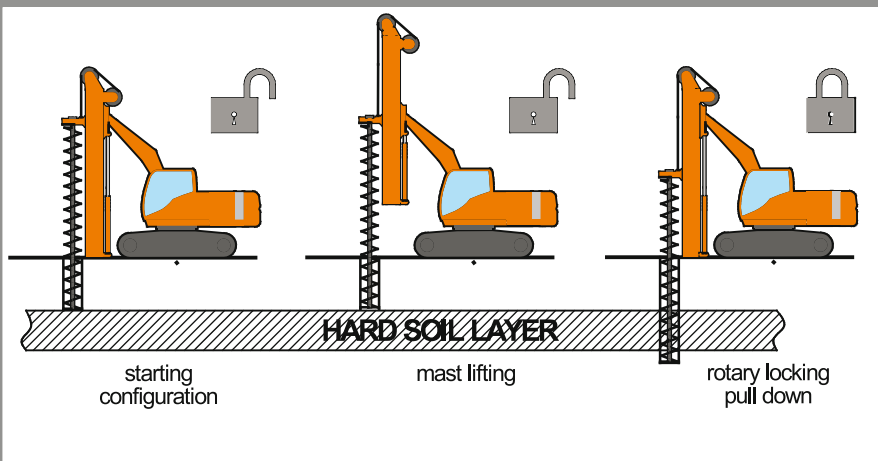
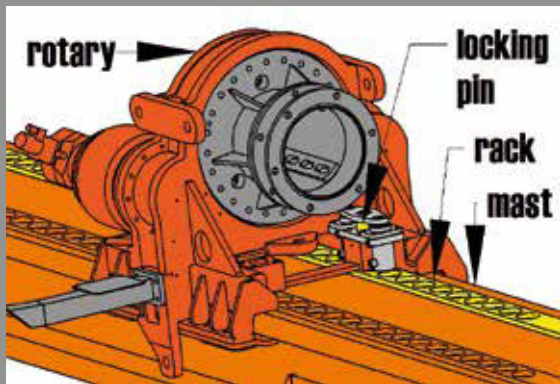
<b>Engine power</b>	JCB 126 kW - 172 hp Hitachi 122 kW - 164 hp
<b>Width over tracks</b>	2.490/3.490 mm - 8.2/11.4 ft
<b>Nominal torque</b>	110 kNm - 81.130 lbf ft
<b>Main winch line pull</b>	120 kN - 26.980 lbf
<b>Max pile diameter</b>	1.800 mm - 70 in
<b>Max pile depth</b>	up to 40 m - 131 ft
<b>Min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

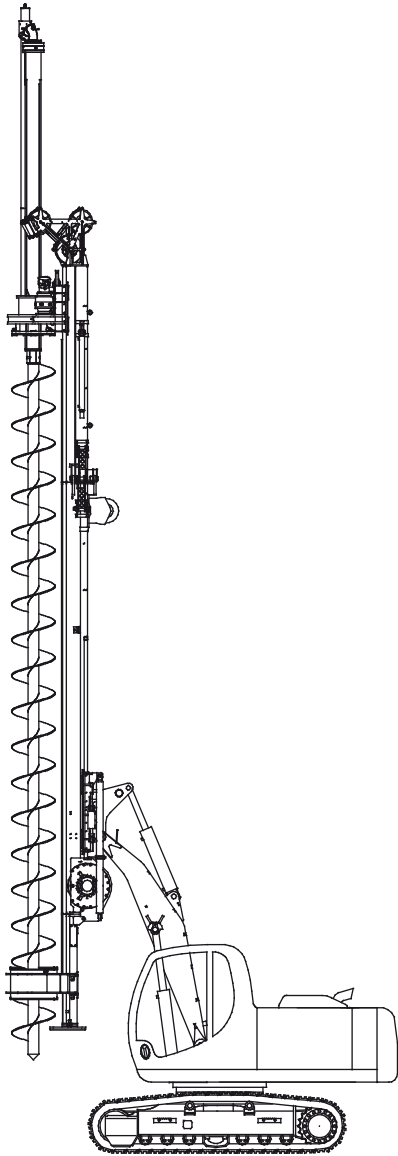
Providing a mechanical locking system between the rotary head and the mast, it creates a crowd force on the auger by the hydraulic cylinders that move the mast vertically and the crowd force is available along the entire length of the mast.

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



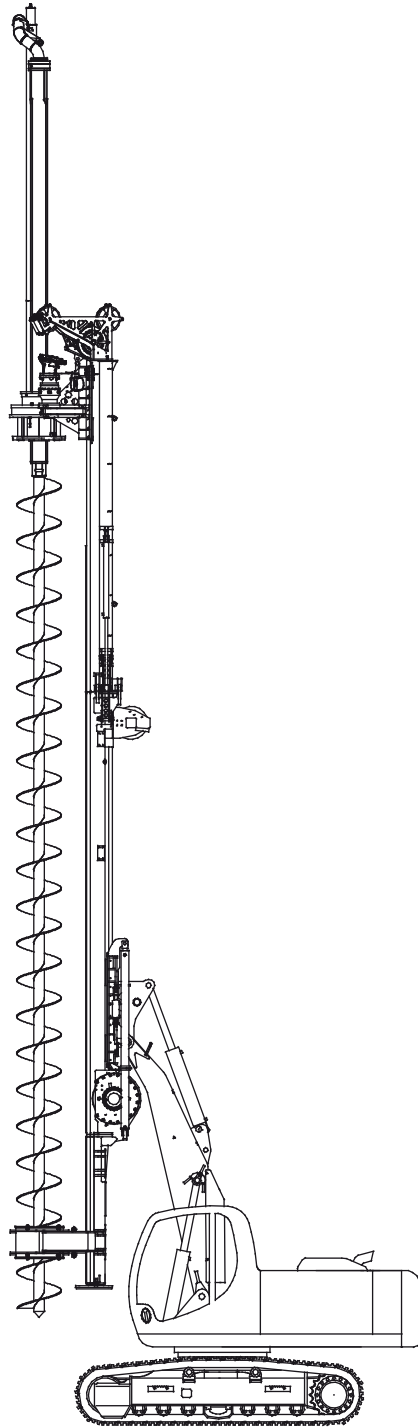
## EK40 CFA

<b>Pull down force</b>	60 kN - 13.400 lbf
<b>Extraction force</b>	144 kN - 32.400 lbf
<b>Total rotary stroke</b>	7.200 mm - 23.6 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



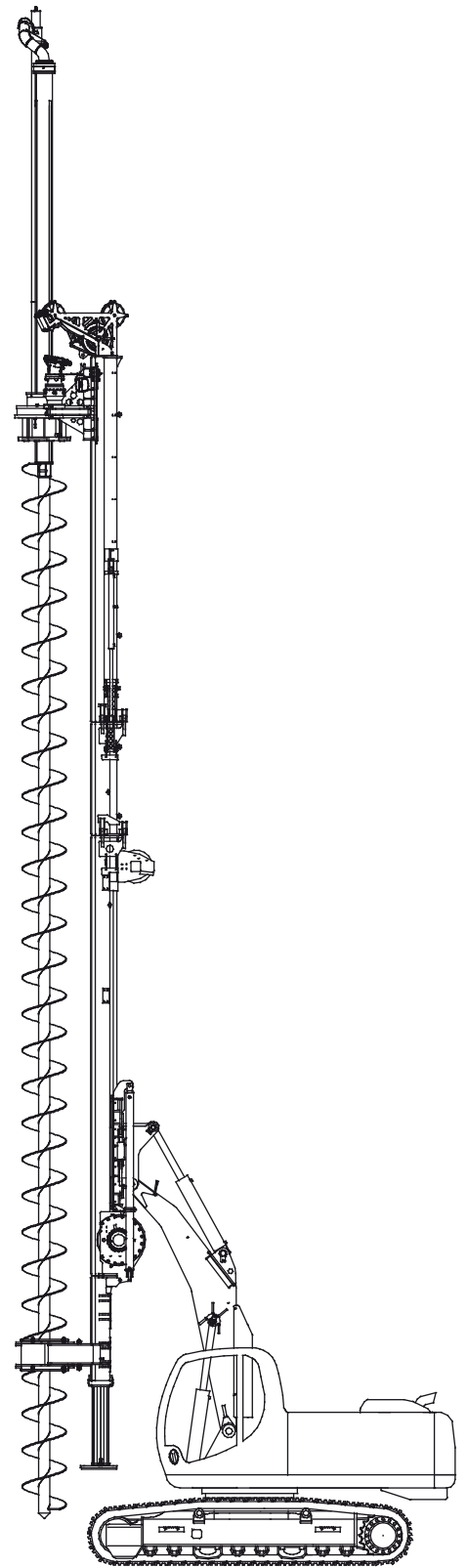
## EK60 CFA

<b>Pull down force</b>	80 kN - 18.000 lbf
<b>Extraction force</b>	160 kN - 35.973 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



## 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>	25.000 kg - 55.100 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>	min 12.750 mm - 41.8 ft
<b>Max pile diameter</b>	800 mm - 30 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