

EK60

HYDRAULIC PILING RIG





www.geax.it
Drilling machines

GEAX

EK60



GEAX EK60 **NO COMPROMISE**

HIGH PRODUCTIVITY

Thanks to an efficiently engineered hydraulics with high quality components and a powerful last generation engine, the EK60 offers superior performance relative to the size, while keeping very low running costs.

UNIQUE ARCHITECTURE

Like all Geax machines, the EK60 has a long supporting boom and a sliding mast.

This allows a great variety of tool positioning for drilling like: long reach drilling, low headroom and maximized tool height for casing.

MANEUVERABILITY

With its compact architecture and a proverbial stability, the EK60 can drill in any site including slopes, uneven terrains and tight spaces.

The higher maneuverability allows fast movements compared to a traditional rig.

VERSATILITY

The EK60 can easily be converted in other drilling modes with modular kits.

Common set-ups are kelly drilling and CFA, but many others are possible like diaphragm walls, soil mixing, soil displacement hydraulic hammer and customized set-up.

LARGE DIAMETER PILES

Version S - short mast

Version L - long mast



KELLY DRILLING

Max pile diameter ¹	mm - in	1200 - 48
Pull down force	kN - lbf	105 - 23.600
Extraction force	kN - lbf	110 - 24.730
Mast stroke	mm - ft	1.600 - 5.25
Rotary stroke on mast	mm - ft	1.400 - 4.6
Total rotary stroke	mm - ft	3.000 - 9.85
Min working height S version ²	mm - ft	5.300 - 17.4
Min working height L version ²	mm - ft	6.650 - 21.8

NOTES: 1. Recommended
2. With a short kelly bar

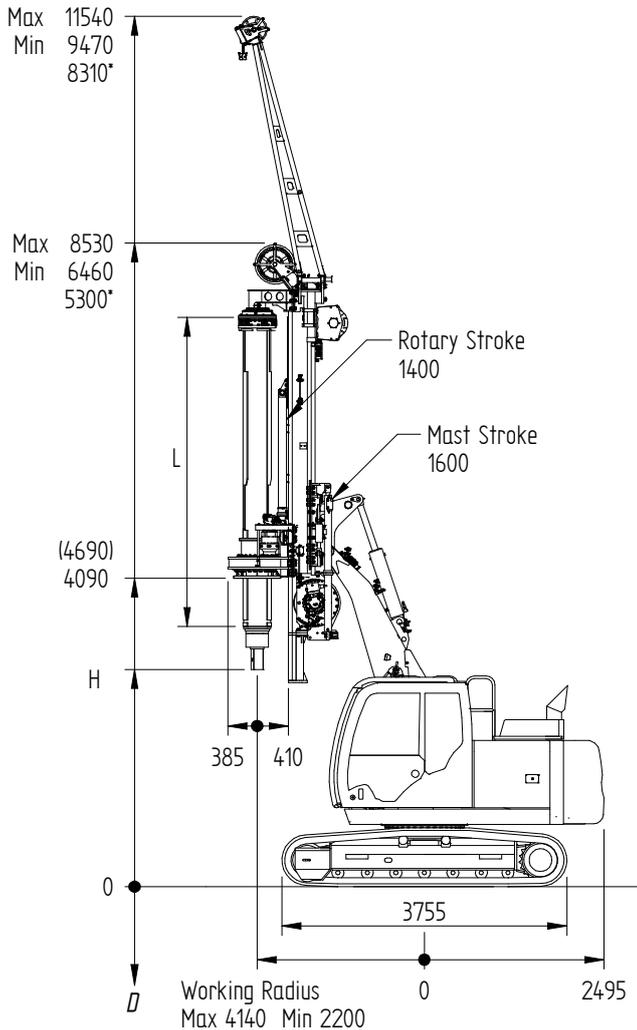


KELLY BAR OPTIONS

n° elements x m	Depth	H		
		S version	L version	
6 x 4 (standard S)	m - ft	21 - 69	2.95 - 9.7	4.45 - 14.6
6 x 4.6 (standard L)	m - ft	25 - 82	-	3.85 - 12.6
5 x 4 Heavy Duty	m - ft	18 - 59	2.95 - 9.7	4.45 - 14.6
5 x 4.6 Heavy Duty	m - ft	21 - 69	-	3.85 - 12.6
6 x 5	m - ft	28 - 92	-	3.45 - 11.3

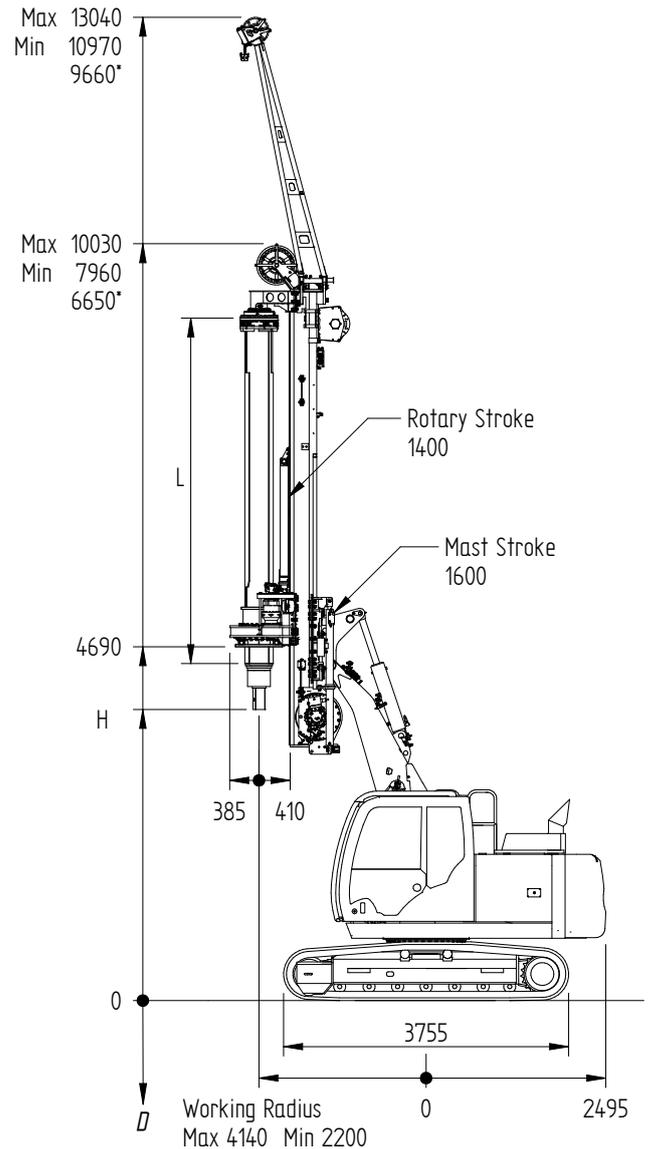
All kelly bars are round interlocking
Friction kelly and custom measures available upon request

S version



* with a short kelly bar

L version



* with a short kelly bar

CONTINUOUS FLIGHT AUGER

Version L - long mast



Max pile diameter ¹	mm - in	600 - 24
Pull down force	kN - lbf	120 - 27.000
Extraction force	kN - lbf	215 - 48.340
Mast stroke	mm - ft	1.600 - 5.25

L version

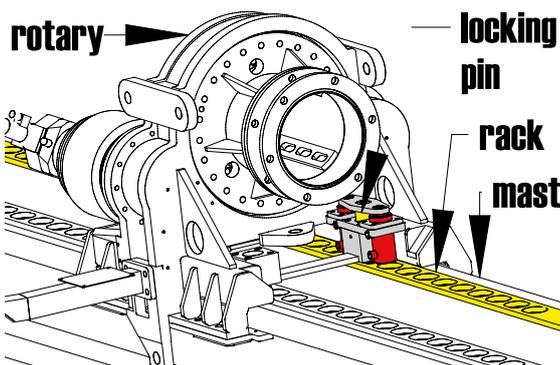
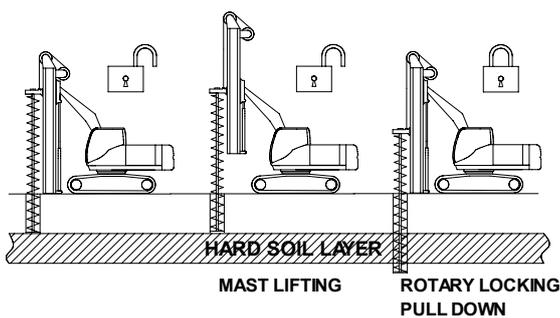
Max pile depth	m - ft	14.3 - 47
Rotary stroke on mast	mm - ft	9.630 31.6
Total rotary stroke	mm - ft	11.230 36.8
Max auger length	mm - ft	9.500 31.2

NOTES: 1. Recommended

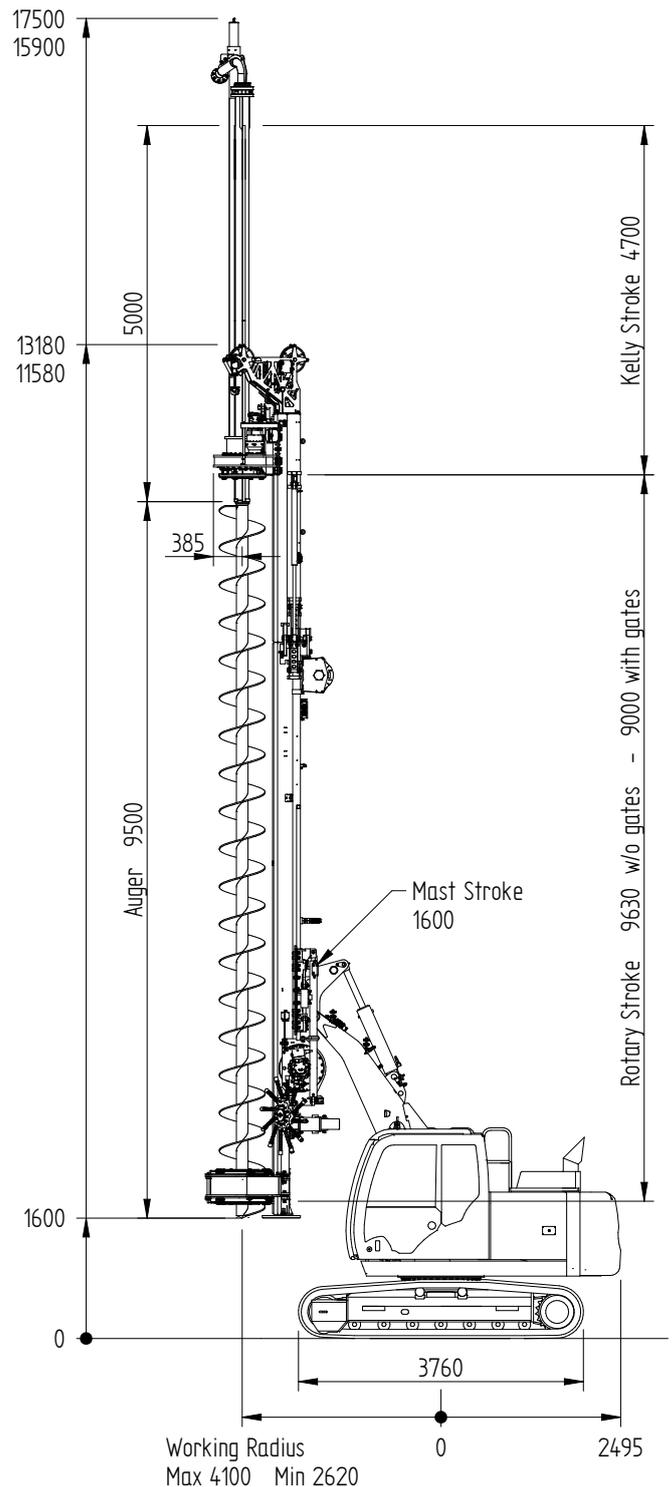
BPS Patented Crowd System

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.

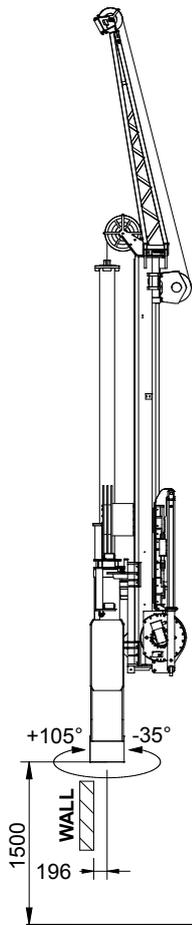
The system is activated only when needed by the operator and requires no pulleys or rope



L version

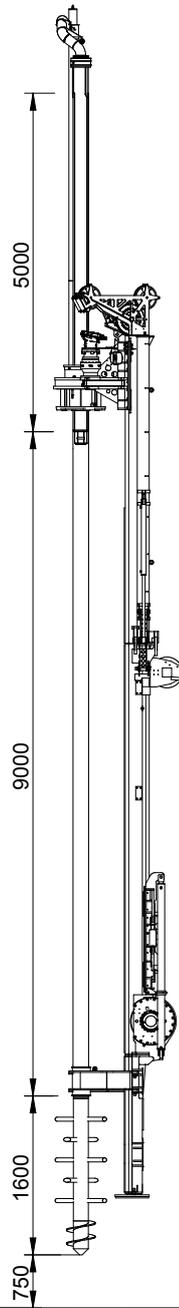


DRILLING KITS



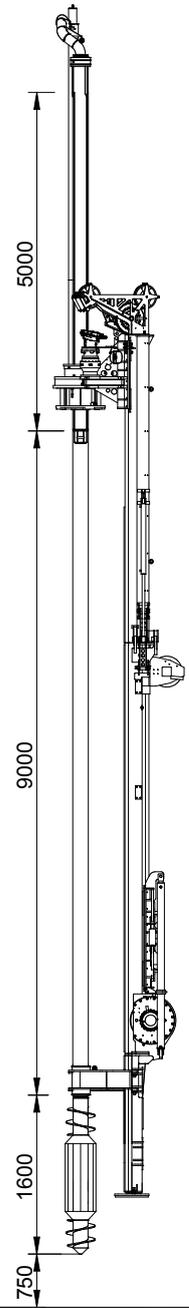
DIAPHRAGM WALL

Max depth 16 m
Trench width 300 - 500 mm
Trench length 2500 mm
Closing force 120 kN



SOIL MIXING

Max depth 14.3 m
Max diameter 600 mm
Rotary speed 55 rpm

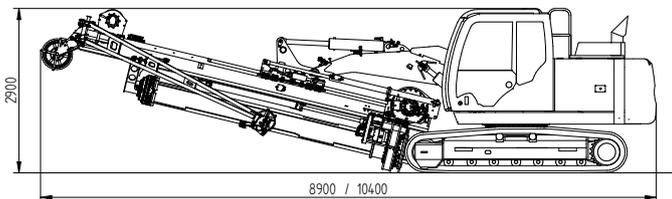


SOIL DISPLACEMENT

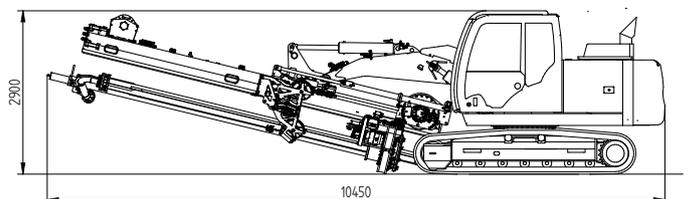
Max depth 14.3 m
Max diameter 400 mm
Pull down force 119 kN
Extraction force 220 kN

TRANSPORT

KELLY



CFA



TECHNICAL DATA SHEET

BASE CARRIER

Engine	type	G2 D34 - DL06
Exhaust emission	EU	Stage V - III
	EPA	Tier4f - 3
Engine power	kW (hp)	86 (115) - 71 (95)
Main pumps	l/min	2x114
Hydraulic pressure	bar	330

MAST

Forward tilt	deg	>10
Backward tilt	deg	>10
Lateral tilt	deg	± 6.5
Mast vertical stroke	mm - ft	1.600 - 5.25

WINCHES

		KELLY	CFA
Main winch line pull (1st layer)	kN - lbf	82 - 18.440	82x3 - 18.440x3
Aux winch line pull (1st layer)	kN - lbf	33 - 7.420	33 - 7.420

DRILLING

		S version		L version	
		KELLY	CFA	KELLY	CFA
Max pile diameter ¹	mm - in	1.200 - 48	-	1.200 - 48	600 - 24
Std pile depth	m - ft	21 - 69	-	25 - 82	14.3 - 47
Max pile depth	m - ft	21 - 69	-	28 - 92	14.3 - 47
Rotary stroke on mast	mm - ft	1.400 - 4.6	-	1.400 - 4.6	9.630 - 31.6
Total rotary stroke	mm - ft	3.000 - 9.85	-	3.000 - 9.85	11.230 - 36.8
Min working headroom ²	mm - ft	5.300 - 17.4	-	6.650 - 21.8	8.580 - 28.1

TRANSPORT

		S version		L version	
		KELLY	CFA	KELLY	CFA
Length	mm - ft	8.900 - 29.2	-	10.400 - 34.1	10.450 - 34.3
Width	mm - ft	2.490 - 8.2	-	2.490 - 8.2	2.490 - 8.2
Height	mm - ft	2.900 - 9.5	-	2.900 - 9.5	2.900 - 9.5
Weight	kg - lbs	21.000 - 46.300	-	22.000 - 48.500	21.000 - 46.300

UNDERCARRIAGE

Tracks width	mm - ft	2.490 - 8.2
Tracks length	mm - ft	3.755 - 12.3
Track shoes	mm - ft	500 - 1.64
Tail radius	mm - ft	2.495 - 8.18

ROTARY HEAD

Torque (nominal)	kNm - lbf ft	55 - 40.565
Drilling speed	rpm	10 - 55
Spin-off speed	rpm	55

CROWD SYSTEM

		KELLY	CFA
Pull down force	kN - lbf	105 - 23.600	120 - 27.000
Extraction force	kN - lbf	110 - 24.730	215 - 48.340

- Values are effective except where otherwise specified.
- Technical data are provided as indicative information only, they are subject to change without prior notice

- NOTES:
1. Recommended
 2. With a short kelly bar



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