

EK60

MULTI-PURPOSE PILING RIG



The GEAX EK60 is a multi-purpose piling rig designed to achieve the highest levels of versatility, manoeuvrability, ease of use, transportation, production and reliability. It is configured to operate in various different piling modes. For each drilling mode a special kit is designed to optimize the performances. However, the modularity of the components makes the conversion among the different kits extremely easy, fast and low-cost. The GEAX EK60's outstanding production capability is comparable to machines of a much larger size. Its excellent stability allows easy manoeuvrability on job sites and ensures fast and safe operating movements. Its compactness and low weight allows easy transportation without special permits.

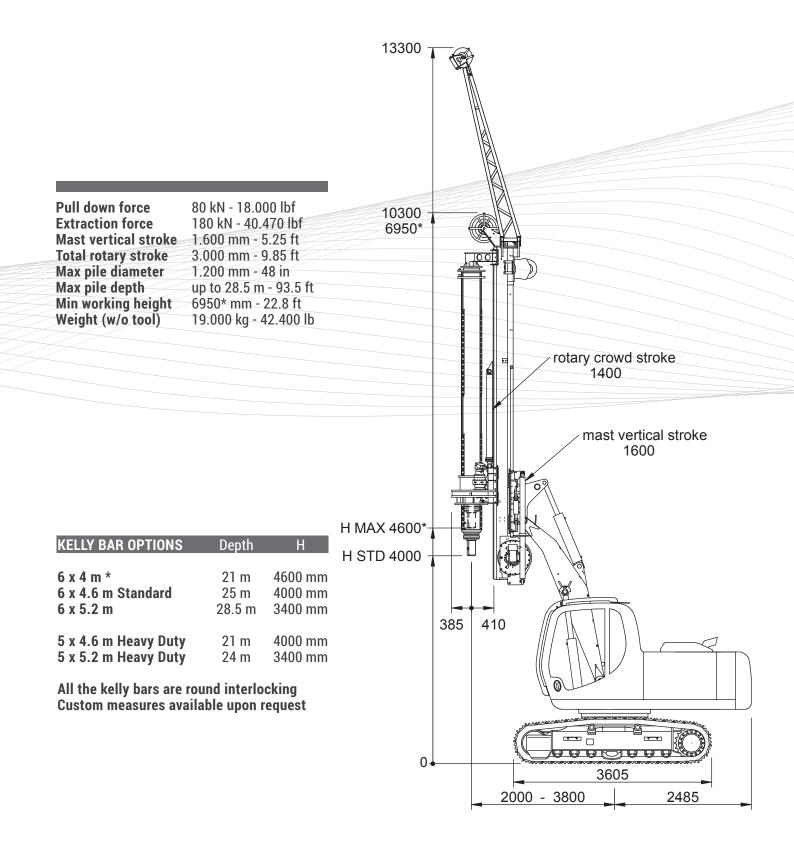
The Hitachi Zaxis 130 or JCB JS130 base carrier, constructed to GEAX specifications, ensures excellent reliability and maintenance with operator cabin comfort not available on proprietary machines The GEAX EK60 (in common with other GEAX machines) has an articulation structure similar to a

GOGEAX POWER & SPEED LIMITED ACCESS VERSATILITY 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 the following:

- Excellent rigidity and lightness
- More precise movements
- Fast setup time
- Wide range of tool positioning
- Simpler maintenance
- Better visibility for the operator

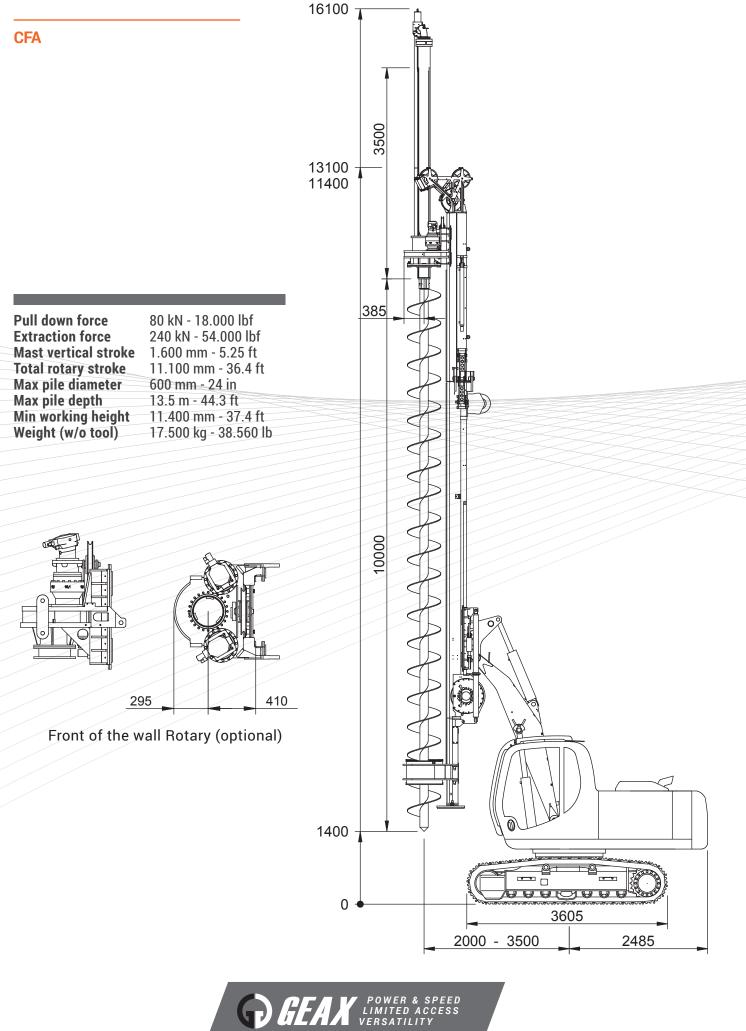


LARGE DIAMETER PILES





EK60



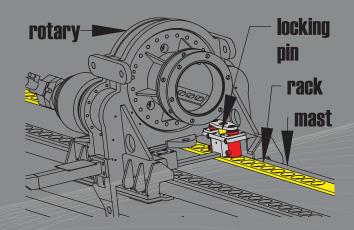
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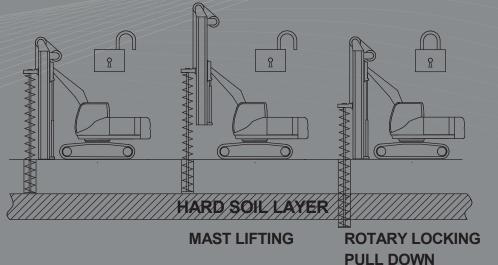
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BPS patented crowd system for CFA piles

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 which creates a crowd force on the auger 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.



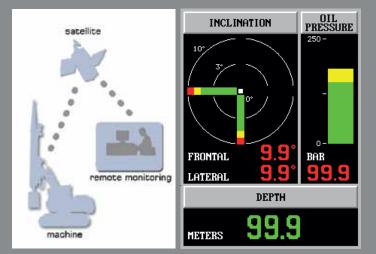


Electronic devices

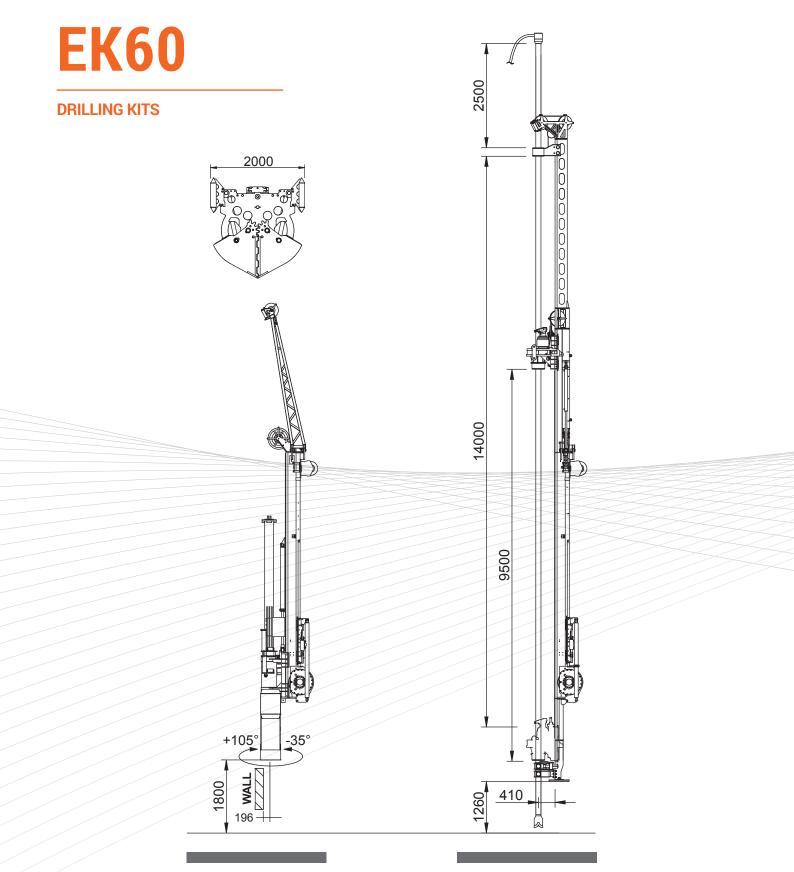
EK series machines are equipped with an electronic system which controls and displays several unctions and parameters.

- Automatic alignment of the mast
- Mast inclination display
- Depth measuring device
- Pressure gauge for an auxiliary input

A GPS system enables GEAX owners to monitor and manage their machines remotely by a PC connected to the Internet







Diaphragm wall

Max Depth 16 m Trench width $300 \div 600$ mm Trench lenght 2000 mm Grab closing force 120 kN Grab rotation +105° ÷ -35°

Jet Grouting

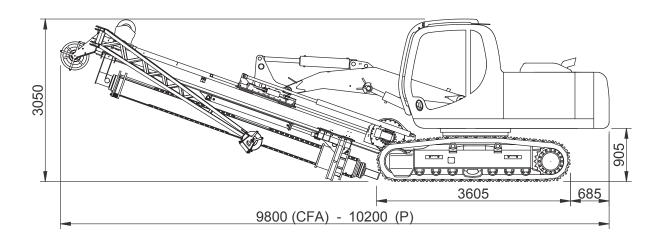
Max depth 17.5 m Max torque 12 kNm Rotary speed 40÷180 rpm Pull down force 80 kN Extraction force 160 kN Rev. clamps 60÷360 mm Mandrel 60÷140 mm





TECHNICAL DATA SHEET

BASE			100 10100
Engine	type	HITACHI ZX130 / JCB JS130 ISUZU AM-4JJ1X / JCB ECOmax 444	
Engine power	kW (hp)	73.4 (98) / 81 (109)	
Undercarriage lenght	mm - ft	3580 - 11.75 / 3605 - 11.82	
Width over tracks	mm - ft	2490 - 8.2	
Shoe width	mm - in	500 - 19.7	
HYDRAULIC SYSTEM	111111 111	500 -	19.1
Main pumps	l/min	2x117 / 2x124	
Auxiliary pump	l/min	2x33.6 / 2x20.5	
Hydraulic pressure	bar	320	
MAST		02	
Forward inclination	deg	20	
Backward inclination	deg	20	
Lateral inclination	deg	6.5	
Mast vertical stroke	mm - ft	1600 - 5.25	
ROTARY			
Nominal torque	kNm - lbf ft	56 - 41.300	
Drilling speed	rpm	10 ÷ 60	
Spin off speed	rpm	60	
WINCHES		KELLY	CFA
Main winch line pull	kN - lbf	80-18.000	80x3 - 18.000x3
Aux winch line pull	kN - lbf	25 - 5.600	25 - 5.600
CROWD SYSTEM			
Pull down force	kN - lbf	80 - 18.000	80 - 18.000
Extraction force	kN - lbf	180 - 40.450	240 - 54.000
Total rotary stroke	mm - ft	3.000 - 9.85	11.100 - 36.4
EXCAVATION		1 000 40	600 04
Max pile diameter	mm - in	1.200 - 48	600 - 24
Max pile depth	m - ft	up tp 28.5 - 93.5	13.5 - 44.3
Min working height TRANSPORT	mm - ft	6.950* - 22.8	11.400 - 37.4
	mm - ft	10.200 - 33.4	9.800 - 32.1
Lenght Width	mm - ft	2.490 - 8.2	2.490 - 8.2
Height	mm - ft	3.050 - 10	2.490 - 8.2 3.050 - 10
Weight	kg - Ibs	19.000 - 42.400	17.500 - 38.560
weight	ky - ius	19.000 - 42.400	17.000 - 30.000



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