



MULTI-PURPOSE PILING RIG

The GEAX EK75 is a multi-purpose piling rig designed to achieve the highest levels of versatility, manoeuvrability, ease of use, transportation, production and reliability. <u>It is configured to operate</u> 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 EK75'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 160 or JCB JS160 base carrier, constructed to GEAX specifications, ensures excellent reliability and maintenance with operator cabin comfort not available on proprietary machines
The GEAX EK75 (in common with other GEAX machines) has an articulation structure 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 the following:

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

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







LARGE DIAMETER PILES

 Pull down force
 100 kN - 22.480 lbf

 Extraction force
 180 kN - 40.470 lbf

 Mast vertical stroke
 2.250 mm - 7.4 ft

 Total rotary stroke
 3.650 mm - 12 ft

 Max pile diameter
 1.500 mm - 60 in

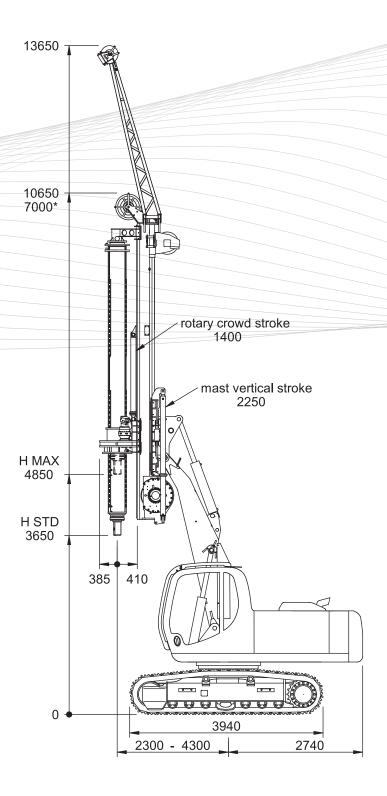
 Max pile depth
 up to 36 m - 118 ft

 Min working height
 7000* mm - 23 ft

 Weight (w/o tool)
 26.000 kg - 57.300 lb

KELLY BAR OPTIONS	Depth	Н
6 x 5.4m Standard	31 m	3650 mm
6 x 4.2m * 5 x 5.4m HD 7 x 5.4m	24 m 25 m 36 m	4850 mm 3650 mm 3650 mm

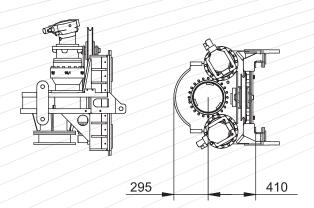
All the kelly bars are round interlocking Custom measures available upon request



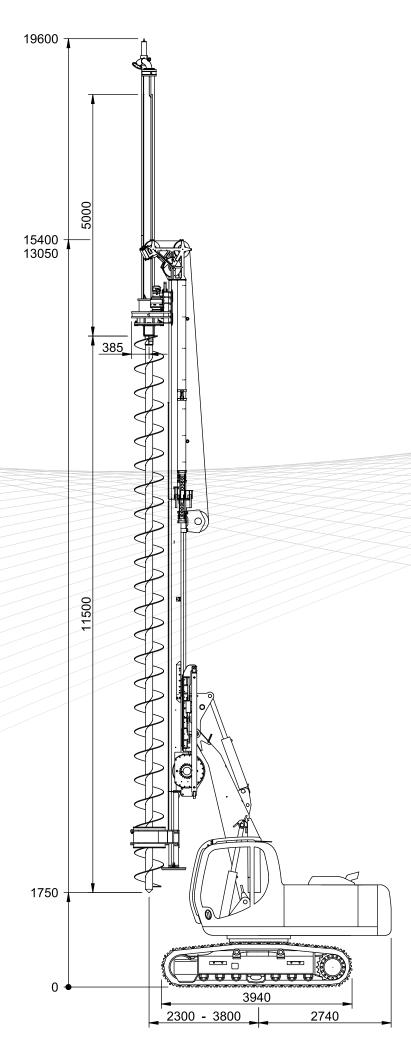
CFA

Pull down force
Extraction force
Mast vertical stroke
Total rotary stroke
Max pile diameter
Max pile depth
Min working height
Weight (w/o tool)

100 kN - 22.480 lbf 360 kN - 80.940 lbf 2.250 mm - 7.4 ft 12.750 mm - 41.8 ft 750 mm - 30 in 16.5 m - 54.1 ft 13050 mm - 42.8 ft 25.000 kg - 55.100 lb



Front of the wall Rotary (optional)



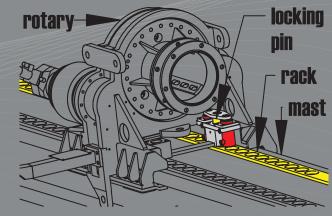


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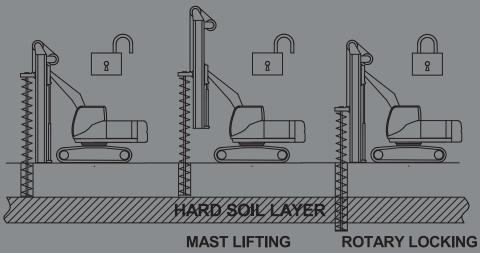
BPS patented crowd system for CFA piles

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

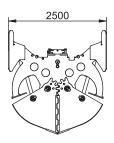
The pull-down system is activated only when needed by the operator and requires no pulleys or ropes.

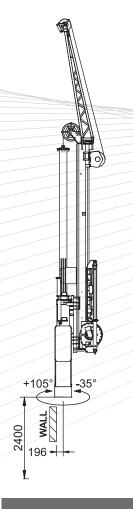


PULL DOWN



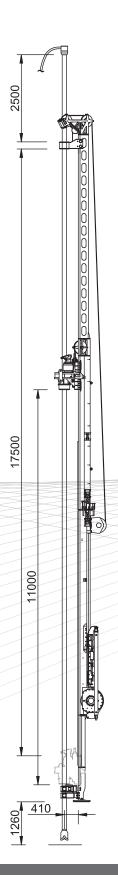
DIAPHRAGM WALLS







Max Depth 16 m Trench width 300 ÷ 600 mm Trench lenght 2500 mm Grab closing force 200 kN Grab rotation +105° ÷ -35°



Jet Grouting

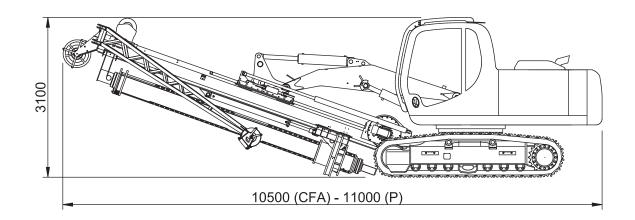
Max depth 21 m Max torque 12 kNm Rotary speed 60÷180 rpm Pull down force 100 kN Extraction force 240 kN Rev. clamps 60÷360 mm Mandrel 60÷140 mm



TECHNICAL DATA SHEET

BASE	HITACHI ZX160 / JCB JS160		
Engine	type	ISUZU AR-4JJ1X / JCB ECOmax 444	
Engine power	kW (hp)	86 (115) / 93 (125)	
Undercarriage lenght	mm - ft	3920 - 12.86 / 3940 - 12.93	
Width over tracks	mm - ft	2490 - 8.2	
Shoe width	mm - in	500 - 19.7	
HYDRAULIC SYSTEM			
Main pumps	l/min	2x180 / 2x164	
Auxiliary pump	l/min	2x33.6 / 2x20.5	
Hydraulic pressure	bar	320	
MAST			
Forward inclination	deg	20	
Backward inclination	deg	20	
Lateral inclination	deg	5	
Mast vertical stroke	mm - ft	2250 - 7.4	
ROTARY			
Nominal torque	kNm - lbf ft	73 - 53.800	
Drilling speed	rpm	10 ÷ 65	
Spin off speed	rpm	65	
WINCHES		KELLY	CFA
Main winch line pull	kN - lbf	120 - 26.980	120x3 - 26.980x3
Aux winch line pull	kN - lbf	37 - 8.320	37 - 8.320
CROWD SYSTEM			
Pull down force	kN - lbf	100 - 22.480	100 - 22.480
Extraction force	kN - lbf	180 - 40.450	360 - 80.900
Total rotary stroke	mm - ft	3.650 - 12	12.750 - 41.8
EXCAVATION			
Max pile diameter	mm - in	1.500 - 60	750 - 30
Max pile depth	m - ft	36 - 118	16.5 - 54.1
Min working height	mm - ft	7.000* - 23	13.050 - 42.8
TRANSPORT			
Lenght	mm - ft	11.000 - 36	10.500 - 34.4
Width	mm - ft	2.490 - 8.2	2.490 - 8.2
Height	mm - ft	3.100 - 10.2	3.100 - 10.2
Weight	kg - Ibs	26.000 - 57.300	25.000 - 55.100

Technical Specifications are subject to change without prior notice.

















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