



FOUNDATION EQUIPMENT



RPI

CONSTRUCTION
•EQUIPMENT•

RPI Equipment, LLC

(856) 456-0081

rpiequipment.com

EK300

ON CAT352 NG



EK300

Mounted on
CAT352 NG

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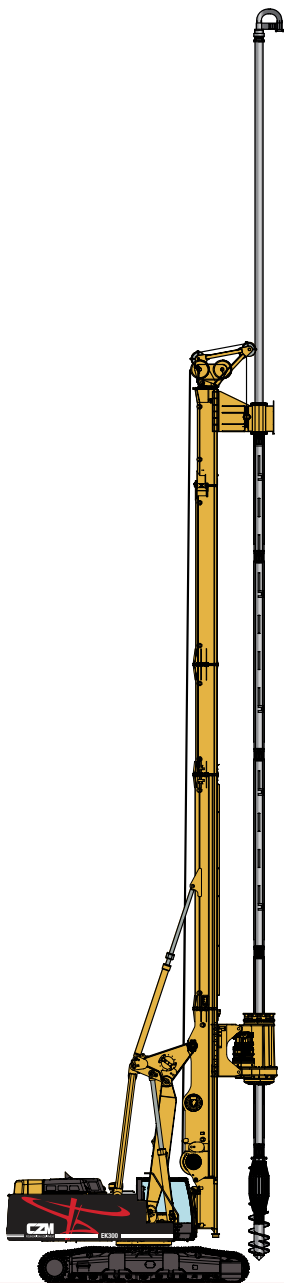
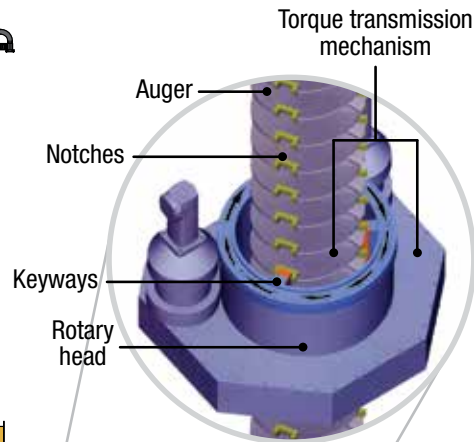
APPLICATION

The largest, most powerful model we've produced to date, the EK300 is manufactured to meet customer demands which exceed the already powerful capabilities of the EK250.

The new EK300 incorporates a CAT 352 base with a fully integrated undercarriage, and delivers greater maximum torque and increased main winch pull force. In keeping with our customer-focused philosophy, each machine is supported by the extensive Caterpillar® service network – the largest in the nation.

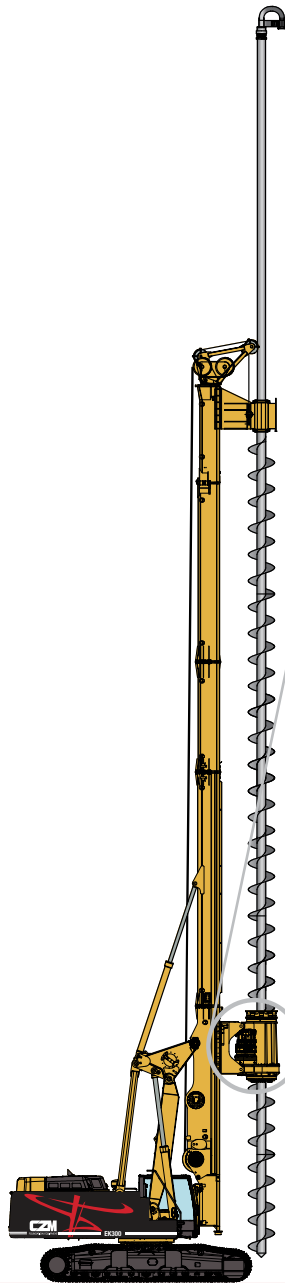
The EK300 was built using the same concept we use for all our machines – to help ensure the success of every project that uses one of our machines, to minimize downtime on the job site, and to maximize each contractor's return on investment. Massive, and more powerful than its predecessors, the EK300 is designed for ease-of-use, and simple conversion for numerous applications.

BOTTOM DRIVE CFA



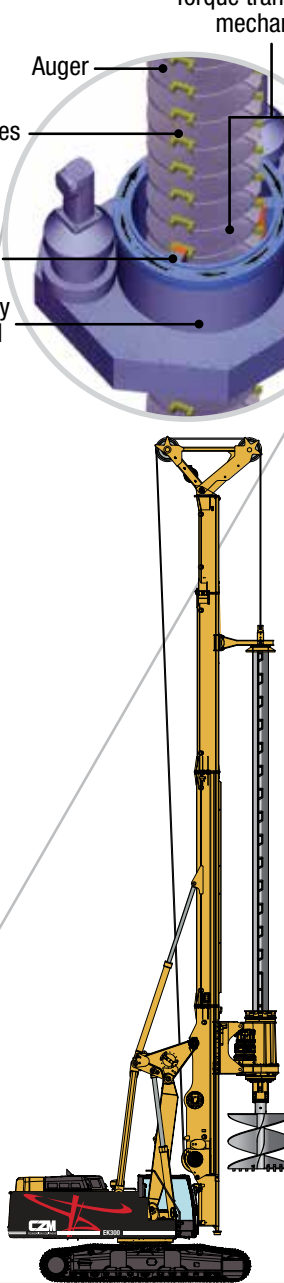
| DISPLACEMENT PILE

Depth (max.): 110 ft / 33.5 m
Diameter (max.): 24 in / 600 mm



| CONTINUOUS FLIGHT AUGER PILE

Depth (max.): 110 ft / 33.5 m
Diameter (max.): 32 in / 600 mm



| KELLY BAR

Depth (max.): 246 ft / 75 m
Diameter (without lower mast): 181 in / 4,600 mm
Diameter (with lower mast): 91 in / 2,300 mm



| SHORT MAST VERSION

Depth (max.): 60 ft / 18.3 m
Diameter (without lower mast): 181 in / 4,600 mm
Diameter (with lower mast): 91 in / 2,300 mm

TECHNICAL SPECIFICATIONS

KELLY BAR STANDARD MAST APPLICATION

Max. Drilling Depth (standard version - interlocking kelly bar)	157ft	48,000mm
Max. Drilling Depth (friction kelly bar)	250ft	76,200mm
Max. Drilling Diameter (without lower mast)	180in	4,600mm
Max. Drilling Diameter (with lower mast)	100in	2,540mm

KELLY BAR SHORT MAST APPLICATION

Max. Drilling Depth (interlocking kelly bar)	60ft	18.3m
Max. Drilling Depth (friction kelly bar)	80ft	25m
Max. Drilling Diameter	15ft	4,600mm

ROTARY HEAD

Maximum torque (nominal)	252,000lbf.ft	35,000kgf.m
Working Speed	8 - 30rpm	8-30rpm
Spin-off Speed	47-111rpm	47-111rpm

CROWD SYSTEM

Pull down force (nominal)	82,650lbf	37,500kgf
Pull up force (nominal)	87,600lbf	39,700kgf
Cylinder stroke	21ft 4in	6,500mm

MAIN WINCH (PULL-UP)

Max. Pull-force effective (1st layer)	71,000lbf	32,200kgf
Max. Pull-force effective (1st layer - 2nd speed)	57,000lbf	25,860kgf
Line speed (1st layer)	200ft/min	63m/min
Max. Line speed (2nd speed)	250ft/min	78m/min
Cable diameter	1.25 in	32mm
Drum pitch diameter (1st Layer)	24.6in	624mm

AUXILIARY WINCH

Max. Pull-force effective (1 st layer)	22,000lbf	10,000kgf
Cable diameter	.75 in	19mm
Drum pitch diameter (1st Layer)	16.7in	442mm

MAST INCLINATION

Backward	15°	15°
Forward	5°	5°
Sideways	8 / 8°	8 / 8°

DIESEL ENGINE CAT352 NEXT GEN (CAT C13 ACCERT)*

Exhaust Emission Standard	EPA Tier 4 Interim	
Gross Power - SAE J1995	443hp	332kW
Displacement	763in³	12.5L
Fuel tank	190gal	720L



MAIN HYDRAULIC SYSTEM

Main circuit pressure (max.)	5,076psi	350bar
Main circuit Flow rate (max.)	180gpm	680lpm
Hydraulic Oil Tank (CAT + Additional)	177gal	670L

AUXILIARY HYDRAULIC SYSTEM

Pump Displacement	3,66in³	60cc³
Auxiliary circuit flow rate (max.)	29gpm	108lpm

UNDERCARRIAGE

Track length	21ft 2in	6,443mm
Length to center of rollers	17ft 10in	5,440mm
Transport position width (retracted)	11ft 6in	3,500mm
Operation position width (extended)	16ft 5in	5,000mm
Track shoes width	35in	900mm

TRANSPORT STANDARD MAST APPLICATION

Overall Height	12ft 1in	3,680mm
Transport Length	66ft 9in	20,355mm
Transport Width	11ft 6in	3,500mm
Transport Weight	136,500lb	61,920kg

TRANSPORT SHORT MAST APPLICATION

Overall Height	12ft 1in	3,680mm
Transport Length	44ft 2in	13,470mm
Transport Width	11ft 6in	3,500mm
Transport Weight	107,300lb	48,800kg

GENERAL DATA STANDARD MAST APPLICATION

Overall Height (Working position)	84ft 5in	25,725mm
Operation Weight	217,600lb	98,700kg

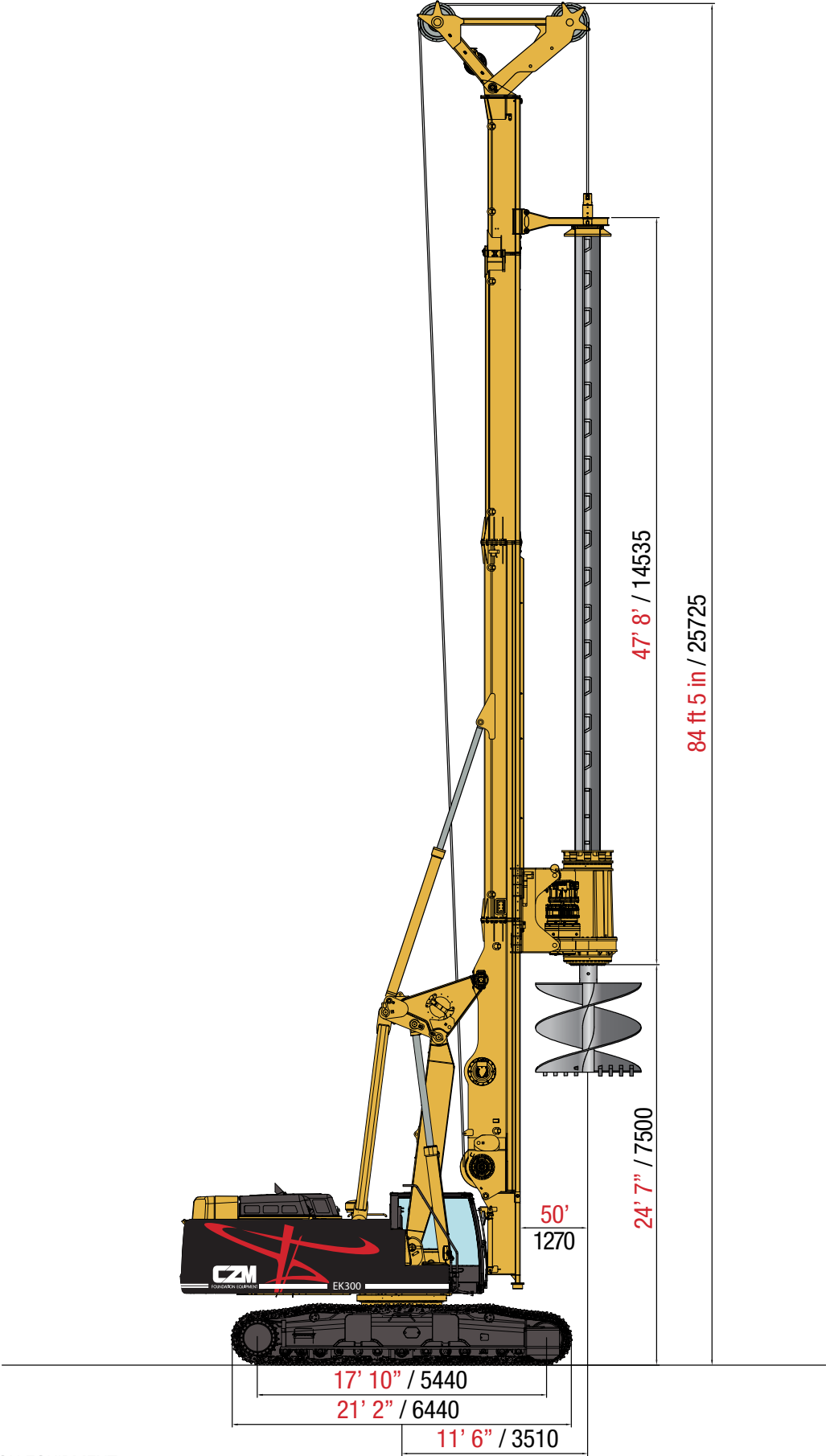
GENERAL DATA SHORT MAST APPLICATION

Overall Height (Working position)	30ft 3in	9,200mm
Operation Weight	199,900lb	90,700kg

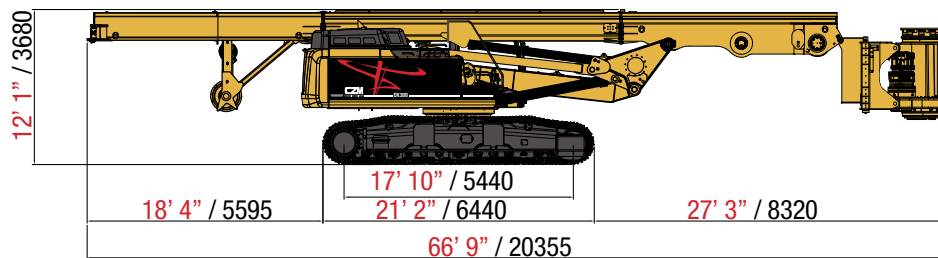
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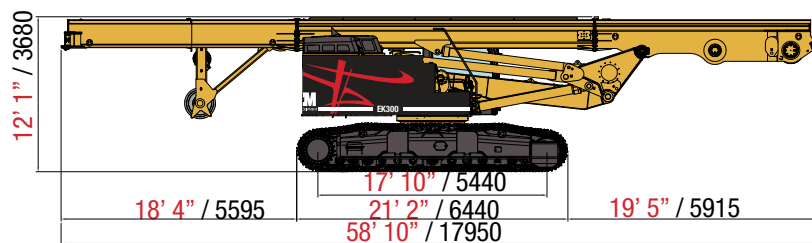
GENERAL DIMENSIONS



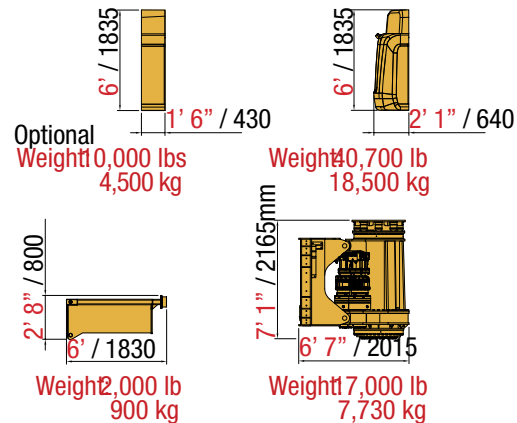
TRANSPORT POSITION GENERAL DIMENSIONS



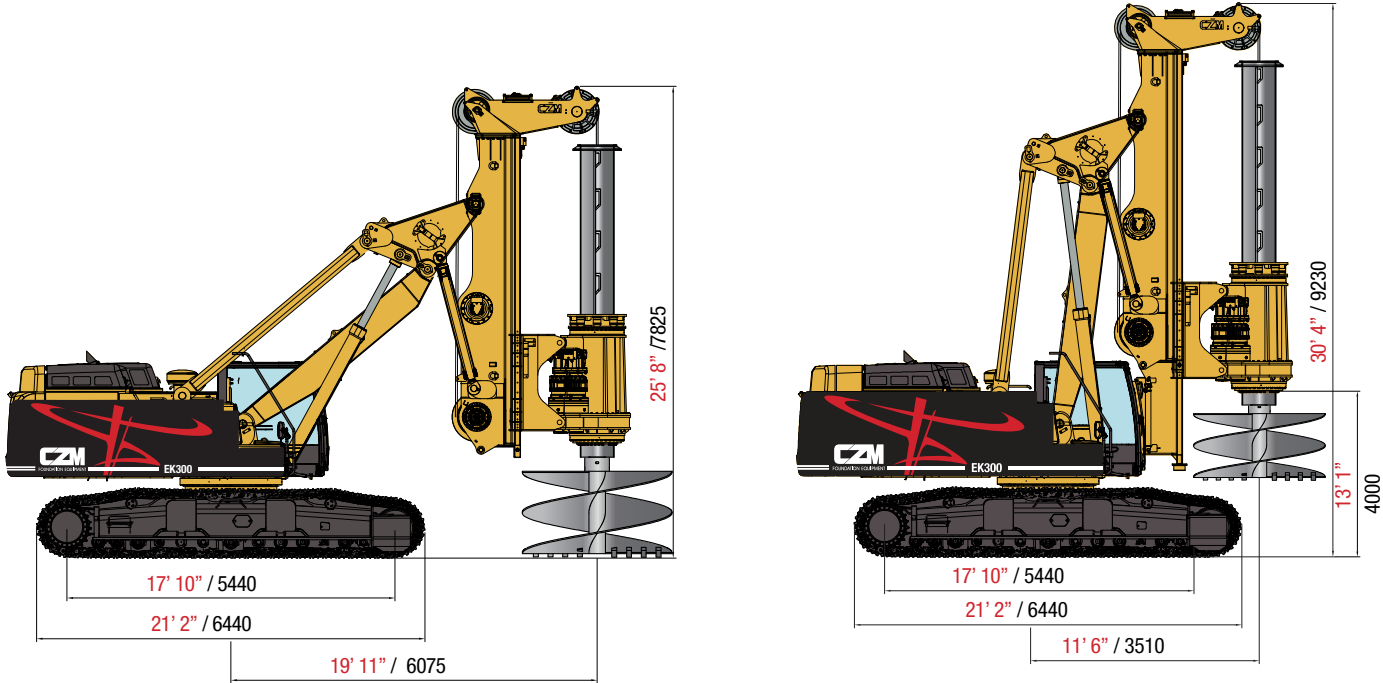
Weight 190,000 lb / 86,500 kg



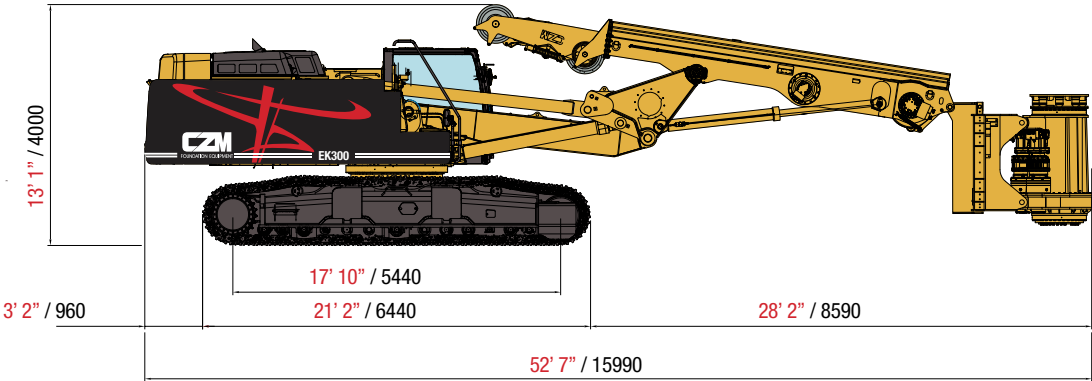
Weight 136,500 lb / 62,000 kg (removing Rotary, Lower Mast and Counterweights)



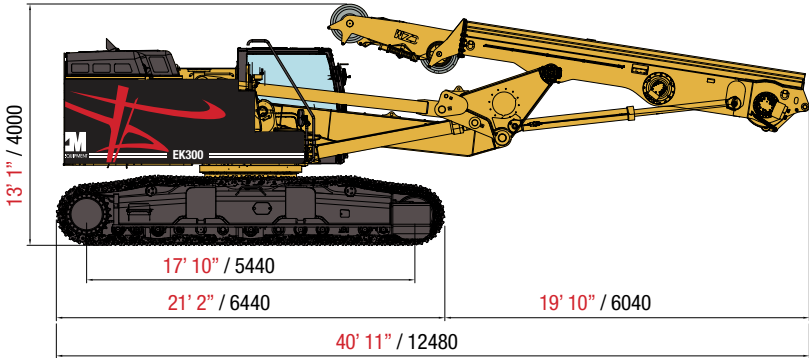
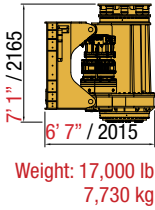
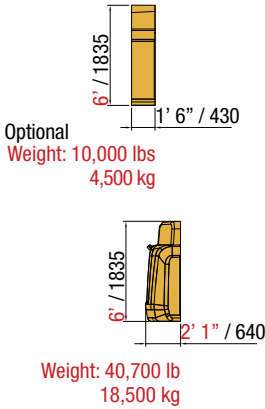
SHORT MAST GENERAL DIMENSIONS



TRANSPORT POSITION SHORT MAST



Weight: 175,000 lb / 79,500 kg



Weight: 107,300 lb / 48,800 kg (removing Rotary, Lower Mast and Counterweights)

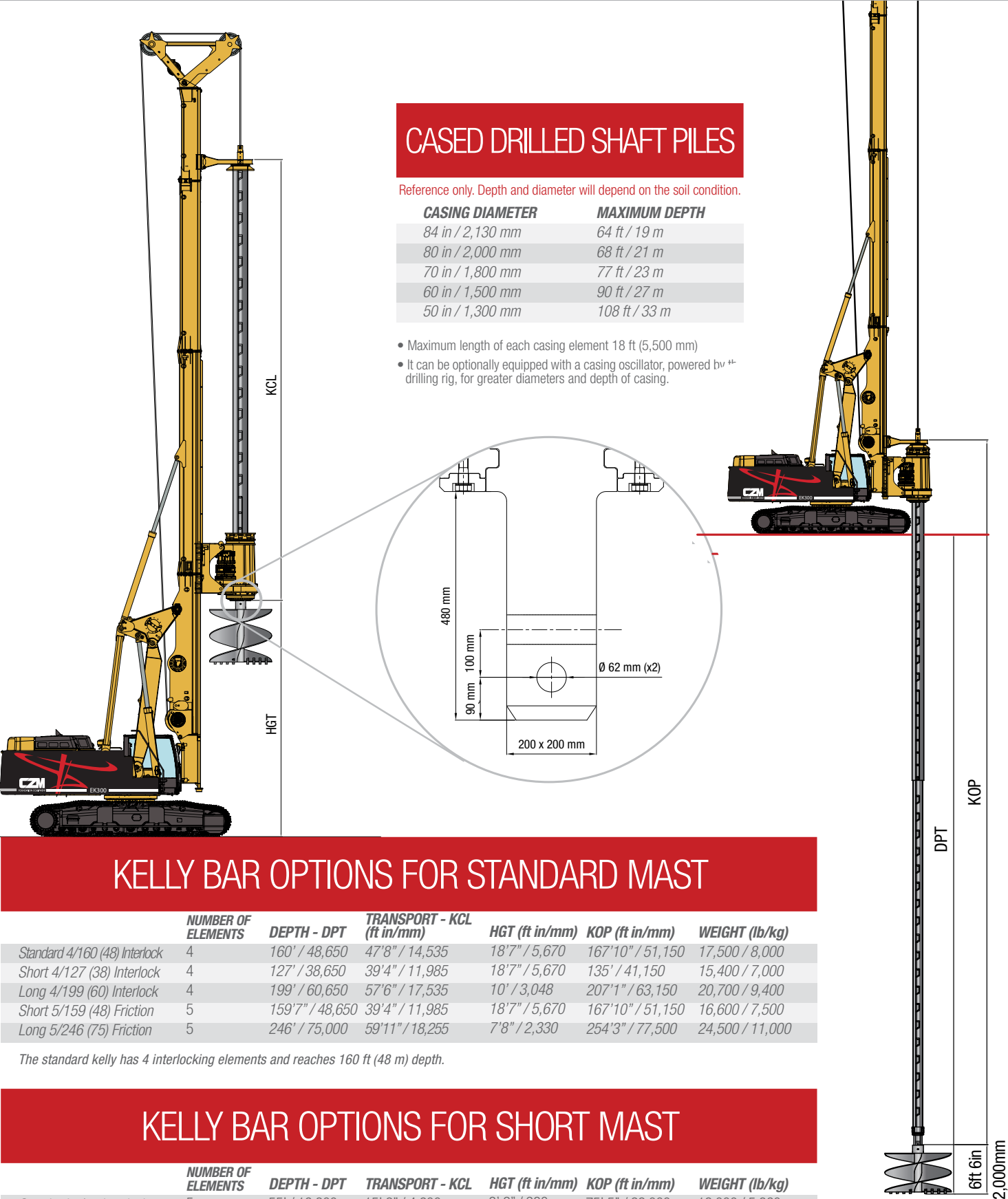
KELLY BAR GENERAL DIMENSIONS

CASED DRILLED SHAFT PILES

Reference only. Depth and diameter will depend on the soil condition.

CASING DIAMETER	MAXIMUM DEPTH
84 in / 2,130 mm	64 ft / 19 m
80 in / 2,000 mm	68 ft / 21 m
70 in / 1,800 mm	77 ft / 23 m
60 in / 1,500 mm	90 ft / 27 m
50 in / 1,300 mm	108 ft / 33 m

- Maximum length of each casing element 18 ft (5,500 mm)
- It can be optionally equipped with a casing oscillator, powered by the drilling rig, for greater diameters and depth of casing.



KELLY BAR OPTIONS FOR STANDARD MAST

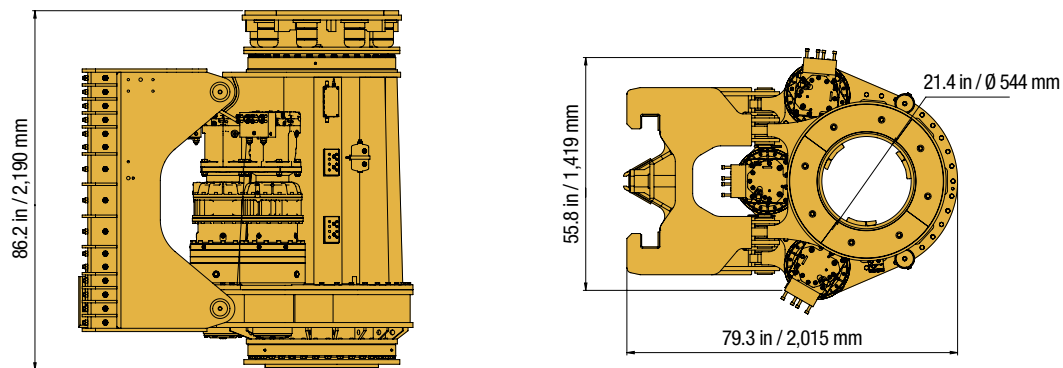
	NUMBER OF ELEMENTS	DEPTH - DPT	TRANSPORT - KCL (ft in/mm)	HGT (ft in/mm)	KOP (ft in/mm)	WEIGHT (lb/kg)
Standard 4/160 (48) Interlock	4	160' / 48,650	47'8" / 14,535	18'7" / 5,670	167'10" / 51,150	17,500 / 8,000
Short 4/127 (38) Interlock	4	127' / 38,650	39'4" / 11,985	18'7" / 5,670	135' / 41,150	15,400 / 7,000
Long 4/199 (60) Interlock	4	199' / 60,650	57'6" / 17,535	10' / 3,048	207'1" / 63,150	20,700 / 9,400
Short 5/159 (48) Friction	5	159'7" / 48,650	39'4" / 11,985	18'7" / 5,670	167'10" / 51,150	16,600 / 7,500
Long 5/246 (75) Friction	5	246' / 75,000	59'11" / 18,255	7'8" / 2,330	254'3" / 77,500	24,500 / 11,000

The standard kelly has 4 interlocking elements and reaches 160 ft (48 m) depth.

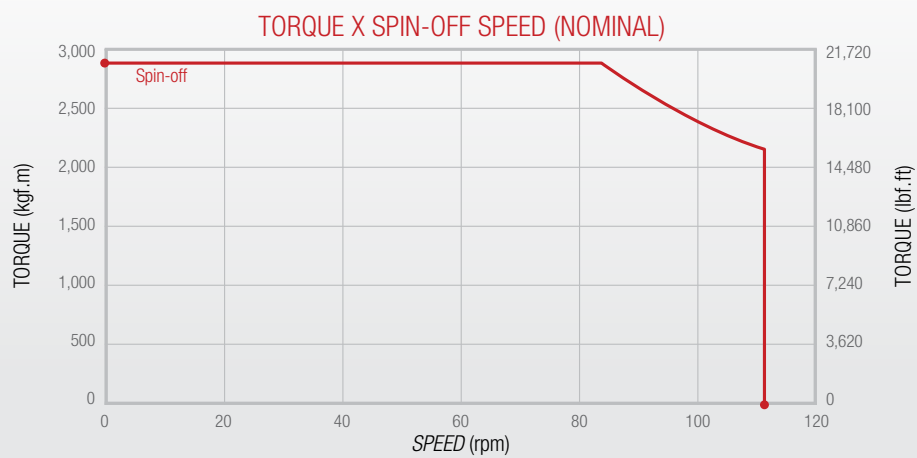
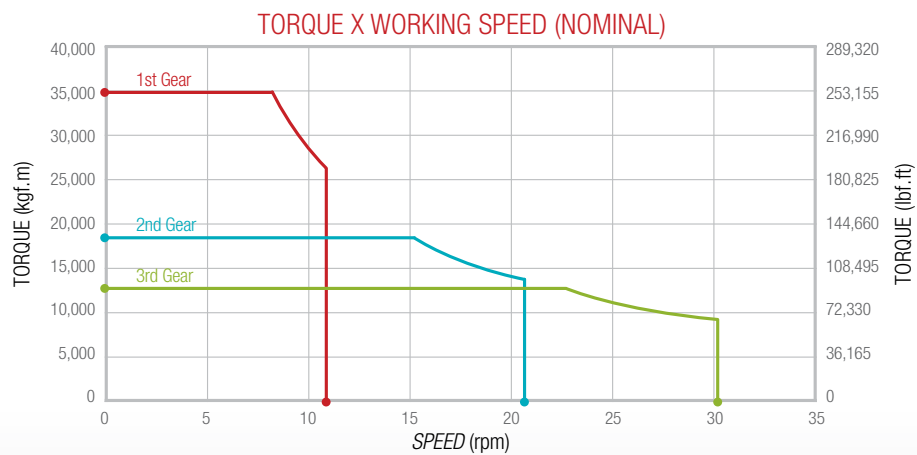
KELLY BAR OPTIONS FOR SHORT MAST

	NUMBER OF ELEMENTS	DEPTH - DPT	TRANSPORT - KCL	HGT (ft in/mm)	KOP (ft in/mm)	WEIGHT (lb/kg)
Standard 5/55 Interlock	5	55' / 16,800	15' 2" / 4,600	3' 2" / 980	75' 5" / 23,000	13,000 / 5,860
7/80 Friction	7	80' / 25,000	15' 2" / 4,600	3' 2" / 980	84' / 26,000	14,500 / 6,500

ROTARY



TORQUE DIAGRAM



EK300

Drilling 13ft diameter

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FOUNDATION EQUIPMENT

THE COMPANY

CZM is headquartered in Savannah, Georgia, USA. For over 40 years, we have specialized in manufacturing foundation equipment. We design and customize models for many different drilling applications including Drill shafts, CFA/cased CFA, Micropile and anchoring, piledrive and hydraulic hammers and soil improvements. We are a Caterpillar OEM (Original Equipment Manufacturer).

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