

EK260LS



APPLICATIONS

The EK260LS is a full cable crowd drilling rig mounted on a CAT352. The long stroke of the rotary makes it ideal for:

- Cased kelly bar drilling with segmented (European style) casing, specially for Secant walls.
- Large Diameter CFA.
- Displacement piles.
- Cased CFA with a double rotary for Secant walls.
- Large diameter single column Soil Mixing.



I KELLY BAR

Max Depth (Std.): 130 ft / 39.6 m Diameter (without lower mast): 12 ft / 3,700 mm Diameter (with lower mast.): 10 ft / 3,050 mm

CONTINUOUS FLIGHT AUGER PILE

Depth (max.): 93 ft / 28.5 m Diameter (max.): 48 in / 1,200 mm

I DISPLACEMENT PILE

Depth (max.): 93 ft / 28.5 m

I CASED CFA

Depth (max.): 66 ft / 20.2 m

I SOIL MIXING

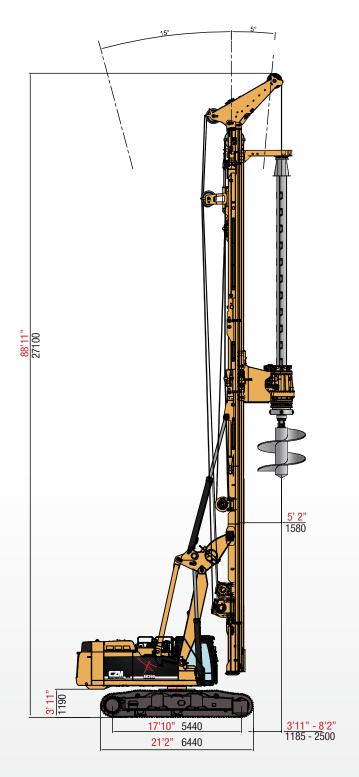
Depth (max.): 66 ft / 20.2 m **Diameter (max.):** 24 in / 620 mm **Diameter (max.):** 36 in / 920 mm **Diameter (max.):** 10 ft / 3,050 mm **Diameter (with lower mast.):** 91 in / 2,300 mm

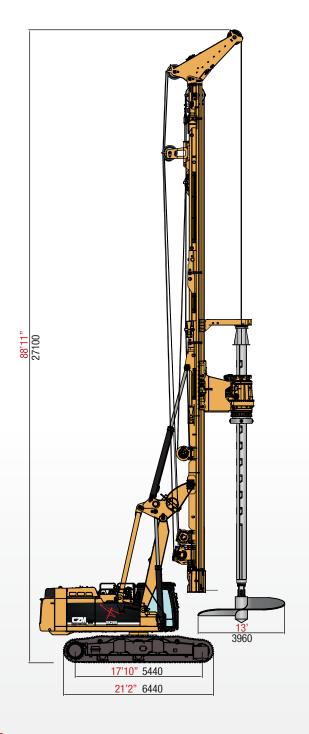


TECHNICAL SPECIFICATIONS

Maximum torque (nominal) 209,800lbf.ft 29,085kgf.m Working Speed 14 - 26rpm 14 - 26rpm Spin-off Speed 70-110rpm CROWD SYSTEM Value (nominal) 98,000lbf 44,700kgf Pull down/Pull up force (erfective) 83,725lbf 38,000kgf Standard Rotary Stroke 61tt 18,600mm Max. Rotary Stroke (w/ 2mts Mast Extension) 67.6ft 20,600mm Cable Diameter 1in 26mm Speed (down/up) 115ft/min 35m/min Man. Pull-Force effective (1st layer) 63,700lbf 28,955kgf Line speed (1st layer) 240ft/min 73m/min Max. Pull-Force effective (1st layer) 240ft/min 73m/min Cable diameter 1 1/8 in 28mm Drum pitch diameter (1st Layer) 22,000lbf 10,000kgf Cable diameter 3/4 in 19mm Drum pitch diameter (1st Layer) 22,000lbf 10,000kgf Cable diameter 3/4 in 19mm Drum pitch diameter (1st Layer) 22,000lbf 10,000kgf <	ROTARY HEAD		
Working Speed 14 - 26rpm 70-110rpm 70-110rpm CROWD SYSTEM 70-110 rpm 70-110rpm <		209,800lbf.ft	29,085kgf.m
CROWD SYSTEM Pull down/Pull up force (nominal) 98,000lbf 44,700kgf Pull down/Pull up force (effective) 83,725lbf 38,000kgf Standard Rotary Stroke 61ft 18,600mm Max. Rotary Stroke (w/ 2mts Mast Extension) 67.6ft 20,600mm Cable Diameter 1in 26mm Speed (down/up) 25ft/min 7.5m/min MAIN WINCH (PULL-UP) Was Pull-force effective (1st layer) 63,700lbf 28,95kgf Max Pull-force effective (1st layer) 240ft/min 73m/min Mall Mark WINCH 240ft/min 73m/min Drum pitch diameter (1st Layer) 22in 560mm AUXILIARY WINCH Wax. Pull-force effective (1st layer) 22,000lbf 10,000kgf Auxiliary Winch Max. Pull-force effective (1st layer) 22,000lbf 10,000kgf Cable diameter 3/4 in 19mm 19mm Drum pitch diameter (1st Layer) 22,000lbf 10,000kgf Auxiliary Winch 3/4 in 19mm Drum pitch diameter (1st Layer) 15° 15°	Working Speed		
Pull down/Pull up force (nominal) 98,000lbf 44,700kgf Pull down/Pull up force (effective) 83,725lbf 38,000kgf Standard Rotary Stroke (w/ 2mts Mast Extension) 67.6ft 20,600mm Cable Diameter 1 in 26mm Speed (down/up) 25tl/min 7.5m/min Fast Speed (down/up) 115ft/min 35m/min MAIN WINCH (PULL-UP) Wax. Pull-force effective (1st layer) 63,700lbf 28,955kgf Line speed (st layer) 240ft/min 73m/min Cable diameter 1 1/8 in 28mm Drum pitch diameter (1st Layer) 22,000lbf 10,000kgf AUXILIARY WINCH Wax. Pull-force effective (1st layer) 22,000lbf 10,000kgf Auxiliary Winch Wax. Pull-force effective (1st layer) 22,000lbf 10,000kgf Auxiliary Winch Wax. Pull-force effective (1st layer) 22,000lbf 10,000kgf Auxiliary Winch Wax. Pull-force effective (1st layer) 22,000lbf 10,000kgf Cable diameter 3/4 in 19mm 19mm Drum pitch diameter (1st layer) 22,000lbf	Spin-off Speed	70-110rpm	70-110rpm
Pull down/Pull up force (nominal) 98,000lbf 44,700kgf Pull down/Pull up force (effective) 83,725lbf 38,000kgf Standard Rotary Stroke (w/ 2mts Mast Extension) 67.6ft 20,600mm Cable Diameter 1 in 26mm Speed (down/up) 25tl/min 7.5m/min Fast Speed (down/up) 115ft/min 35m/min MAIN WINCH (PULL-UP) Wax. Pull-force effective (1st layer) 63,700lbf 28,955kgf Line speed (st layer) 240ft/min 73m/min Cable diameter 1 1/8 in 28mm Drum pitch diameter (1st Layer) 22,000lbf 10,000kgf AUXILIARY WINCH Wax. Pull-force effective (1st layer) 22,000lbf 10,000kgf Auxiliary Winch Wax. Pull-force effective (1st layer) 22,000lbf 10,000kgf Auxiliary Winch Wax. Pull-force effective (1st layer) 22,000lbf 10,000kgf Auxiliary Winch Wax. Pull-force effective (1st layer) 22,000lbf 10,000kgf Cable diameter 3/4 in 19mm 19mm Drum pitch diameter (1st layer) 22,000lbf	CROWD SYSTEM		
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Fast Speed (down/up) 115ft/min 35m/min MAIN WINCH (PULL-UP) Max. Pull-force effective (1st layer) 63,700lbf 28,955kgf Line speed (1st layer) 240ft/min 73m/min 73m/min Cable diameter 1 1/8 in 28mm Drum pitch diameter (1st Layer) 22in 560mm AUXILIARY WINCH 22in 560mm Max. Pull-force effective (1st layer) 22,000lbf 10,00kgf Cable diameter 3/4 in 19mm Drum pitch diameter (1st Layer) 16.7in 442mm MAST INCLINATION 35m 15° 15° Backward 15° 15° 5°	Cable Diameter	1in	26mm
MAIN WINCH (PULL-UP) Max. Pull-force effective (1st layer) 63,700lbf 28,955kgf Line speed (1st layer) 240ft/min 73m/min Cable diameter 1 1/8 in 28mm Drum pitch diameter (1st Layer) 22in 560mm AUXILIARY WINCH WINCH 42,000lbf 10,000kgf Cable diameter 3/4 in 19mm 19mm Drum pitch diameter (1st Layer) 16.7in 442mm MAST INCLINATION 315° 15° Backward 15° 15° Forward 5° 5° Sideways 5 / 5° 5/5° DIESEL ENGINE CAT352 TIER IV (CAT C13 ACCERT)* Exhaust Emission Standard EPA Tier 4 Interim EPA Tier 4 Interim Gross Power - SAE JI995 432hp 322kW 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) <t< td=""><td>Speed (down/up)</td><td>25ft/min</td><td>7.5m/min</td></t<>	Speed (down/up)	25ft/min	7.5m/min
Max. Pull-force effective (1st layer) 63,700lbf 28,955kgf Line speed (1st layer) 240ft/min 73m/min Cable diameter 1 1/8 in 28mm Drum pitch diameter (1st Layer) 22in 560mm AUXILIARY WINCH 3/4 in 19mm Max. Pull-force effective (1st layer) 22,000lbf 10,000kgf Cable diameter 3/4 in 19mm Drum pitch diameter (1st Layer) 16.7in 442mm MAST INCLINATION Backward 15° 15° Forward 5° 5' 5' Sideways 5 / 5° 5/5° 5' 5' DIESEL ENGINE CAT352 TIER IV (CAT C13 ACCERT)* Exhaust Emission Standard EPA Tier 4 Interim EPA Tier 4 Interim Gross Power - SAE J1995 432hp 322kW Displacement 763in³ 12.5L 5 <td>Fast Speed (down/up)</td> <td>115ft/min</td> <td>35m/min</td>	Fast Speed (down/up)	115ft/min	35m/min
Max. Pull-force effective (1st layer) 63,700lbf 28,955kgf Line speed (1st layer) 240ft/min 73m/min Cable diameter 1 1/8 in 28mm Drum pitch diameter (1st Layer) 22in 560mm AUXILIARY WINCH 3/4 in 19mm Max. Pull-force effective (1st layer) 22,000lbf 10,000kgf Cable diameter 3/4 in 19mm Drum pitch diameter (1st Layer) 16.7in 442mm MAST INCLINATION Backward 15° 15° Forward 5° 5' 5' Sideways 5 / 5° 5/5° 5' 5' DIESEL ENGINE CAT352 TIER IV (CAT C13 ACCERT)* Exhaust Emission Standard EPA Tier 4 Interim EPA Tier 4 Interim Gross Power - SAE J1995 432hp 322kW Displacement 763in³ 12.5L 5 <td>MAIN WINCH (PULL-UP)</td> <td></td> <td></td>	MAIN WINCH (PULL-UP)		
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Drum pitch diameter (1st Layer) 22in 560mm AUXILIARY WINCH Max. Pull-force effective (1st layer) 22,000lbf 10,000kgf Cable diameter 3/4 in 19mm Drum pitch diameter (1st Layer) 16.7in 442mm MAST INCLINATION 45° 15° Backward 15° 15° Forward 5° 5° 5° Sideways 5/5° 5/5° 5° DIESEL ENGINE CAT352 TIER IV (CAT C13 ACCERT)* Exhaust Emission Standard EPA Tier 4 Interim	Line speed (1st layer)	240ft/min	73m/min
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Max. Pull-force effective (1st layer) 22,000lbf 10,000kgf Cable diameter 3/4 in 19mm Drum pitch diameter (1st Layer) 16.7in 442mm MAST INCLINATION Backward 15° 15° Forward 5° 5° Sideways 5 / 5° 5 / 5° DIESEL ENGINE CAT352 TIER IV (CAT C13 ACCERT)* Exhaust Emission Standard EPA Tier 4 Interim EPA Tier 4 Interim Gross Power - SAE Ji995 432hp 322kW 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	ALIXII IARY WINCH		
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MAST INCLINATION Backward 15° 15° Forward 5° 5° Sideways 5 / 5° 5 / 5° DIESEL ENGINE CAT352 TIER IV (CAT C13 ACCERT)* Exhaust Emission Standard EPA Tier 4 Interim EPA Tier 4 Interim Gross Power - SAE J1995 432hp 322kW 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 6,440mm Length to center of rollers 17ft 10in 5,440mm Trasport position width (retracted) 11ft 6in 3,500mm Operation position width (extend			
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Sideways 5 / 5° DIESEL ENGINE CAT352 TIER IV (CAT C13 ACCERT)* Exhaust Emission Standard EPA Tier 4 Interim Gross Power - SAE JI995 432hp 322kW Displacement 763in³ 12.5L Fuel tank 190gal 720L MAIN HYDRAULIC SYSTEM Main circuit pressure (max.) 5,076psi 350bar Main circuit pressure (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 6,440mm 1 center of rollers 17ft 10in 5,440mm 1 Transport position width (retracted) 11ft 6in 3,500mm 0 Operation position width (extended) 16ft 5in 5,000mm 1 Track shoes width 35in 900mm GENERAL DATA STANDARD MAST APPLICATION Overall Height (Working position) 87ft 1in 26,800mm			
Exhaust Emission Standard Gross Power - SAE JI995 432hp 322kW Displacement 763in³ 12.5L Fuel tank 190gal 720L MAIN HYDRAULIC SYSTEM Main circuit pressure (max.) 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 Length to center of rollers 17ft 10in 17ransport position width (retracted) 11ft 6in 15,000mm Track shoes width 35in 900mm GENERAL DATA STANDARD MAST APPLICATION Overall Height (Working position) 87ft 1in 26,800mm	Sideways	5/5°	5/5°
Exhaust Emission Standard Gross Power - SAE JI995 432hp 322kW Displacement 763in³ 12.5L Fuel tank 190gal 720L MAIN HYDRAULIC SYSTEM Main circuit pressure (max.) 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 Length to center of rollers 17ft 10in 17ransport position width (retracted) 11ft 6in 15,000mm Track shoes width 35in 900mm GENERAL DATA STANDARD MAST APPLICATION Overall Height (Working position) 87ft 1in 26,800mm	DIESEL ENGINE CAT352 TIER IV (CAT C13 /	ACCERT)*	
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 6,440mm 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 GENERAL DATA STANDARD MAST APPLICATION Overall Height (Working position) 87ft 1in 26,800mm	Exhaust Emission Standard		EPA Tier 4 Interim
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 6,440mm 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 GENERAL DATA STANDARD MAST APPLICATION Overall Height (Working position) 87ft 1in 26,800mm	Gross Power - SAE JI995	432hp	322kW
MAIN HYDRAULIC SYSTEM Main circuit pressure (max.) Main circuit Flow rate (max.) Main circ	Displacement	763in ³	12.5L
Main circuit pressure (max.) Main circuit Flow rate (max.) Main circuit Flow rate (max.) Hydraulic Oil Tank (CAT + Additional) AUXILIARY HYDRAULIC SYSTEM Pump Displacement Auxiliary circuit flow rate (max.) 29gpm 108lpm UNDERCARRIAGE Track length Length to center of rollers 17ft 10in Transport position width (retracted) Operation position width (extended) Track shoes width 3500mm GENERAL DATA STANDARD MAST APPLICATION Overall Height (Working position) 87ft 1in 26,800mm	Fuel tank	190gal	720L
Main circuit Flow rate (max.) Hydraulic Oil Tank (CAT + Additional) AUXILIARY HYDRAULIC SYSTEM Pump Displacement Auxiliary circuit flow rate (max.) Auxiliary circuit flow rate (max.) UNDERCARRIAGE Track length Length to center of rollers 17ft 10in Transport position width (retracted) 11ft 6in 0peration position width (extended) 11ft 5in 5,000mm Track shoes width 35in 900mm GENERAL DATA STANDARD MAST APPLICATION Overall Height (Working position) 87ft 1in 26,800mm	MAIN HYDRAULIC SYSTEM		
Hydraulic Oil Tank (CAT + Additional) AUXILIARY HYDRAULIC SYSTEM Pump Displacement Auxiliary circuit flow rate (max.) 29gpm 108lpm UNDERCARRIAGE Track length Length to center of rollers 17ft 10in Transport position width (retracted) Operation position width (extended) Track shoes width GENERAL DATA STANDARD MAST APPLICATION Overall Height (Working position) 1177gal 670L	Main circuit pressure (max.)	5,076psi	350bar
AUXILIARY HYDRAULIC SYSTEM Pump Displacement 3,66in³ 60cc³ Auxiliary circuit flow rate (max.) 29gpm 108lpm UNDERCARRIAGE Track length 21ft 2in 6,440mm 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 GENERAL DATA STANDARD MAST APPLICATION Overall Height (Working position) 87ft 1in 26,800mm	Main circuit Flow rate (max.)	180gpm	680lpm
Pump Displacement 3,66in³ 60cc³ Auxiliary circuit flow rate (max.) 29gpm 108lpm UNDERCARRIAGE Track length 21ft 2in 6,440mm 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 GENERAL DATA STANDARD MAST APPLICATION Overall Height (Working position) 87ft 1in 26,800mm	Hydraulic Oil Tank (CAT + Additional)	177gal	670L
Auxiliary circuit flow rate (max.) UNDERCARRIAGE Track length Length to center of rollers Transport position width (retracted) Operation position width (extended) Track shoes width GENERAL DATA STANDARD MAST APPLICATION Overall Height (Working position) 108lpm 108lpm 108lpm 108lpm 11ft 2in 6,440mm 17ft 10in 5,440mm 11ft 6in 3,500mm 16ft 5in 5,000mm 35in 900mm GENERAL DATA STANDARD MAST APPLICATION	AUXILIARY HYDRAULIC SYSTEM		
UNDERCARRIAGE Track length 21ft 2in 6,440mm 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 GENERAL DATA STANDARD MAST APPLICATION Overall Height (Working position) 87ft 1in 26,800mm	Pump Displacement	3,66in ³	60cc ³
Track length 21ft 2in 6,440mm 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 GENERAL DATA STANDARD MAST APPLICATION Overall Height (Working position) 87ft 1in 26,800mm	Auxiliary circuit flow rate (max.)	29gpm	108lpm
Track length 21ft 2in 6,440mm 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 GENERAL DATA STANDARD MAST APPLICATION Overall Height (Working position) 87ft 1in 26,800mm	UNDERCARRIAGE		
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 GENERAL DATA STANDARD MAST APPLICATION Overall Height (Working position) 87ft 1in 26,800mm		21ft 2in	6.440mm
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GENERAL DATA STANDARD MAST APPLICATION Overall Height (Working position) 87ft 1in 26,800mm	Operation position width (extended)	16ft 5in	5,000mm
Overall Height (Working position) 87ft 1in 26,800mm	Track shoes width	35in	900mm
Overall Height (Working position) 87ft 1in 26,800mm	GENERAL DATA STANDARD MAST APPLICA	ATION	
	Overall Height (Working position)		26,800mm
	Operation Weight	200,000lb	90,900kg

KELLY BAR GENERAL DIMENSIONS

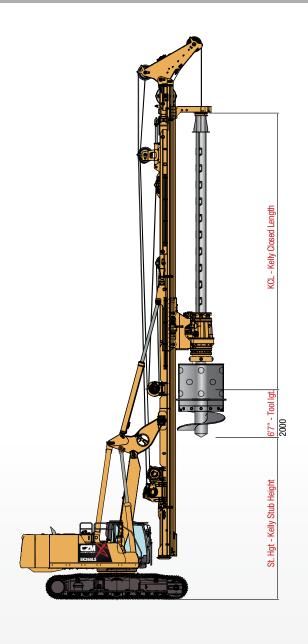


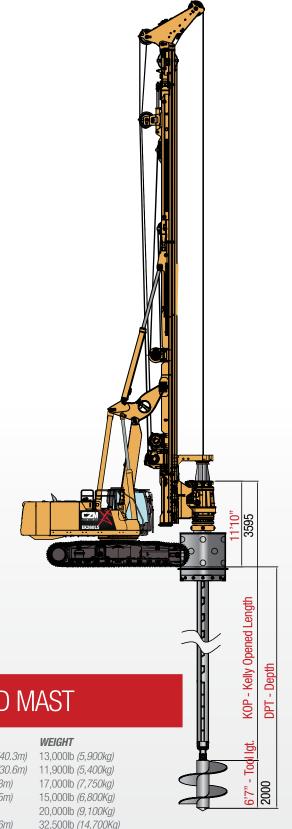


KELLY BAR STANDARD MAST APPLICATION SPECS

Std. drilling depth (interlocking kelly bar)	130 ft	39,600 mm
Max. drilling depth (interlocking kelly bar)	250 ft	75,000 mm
Max. drilling diameter (without lower mast)	12 ft	3,700 mm
Max. drilling diameter (with lower mast)	10 ft	3,050 mm

KELLY BAR GENERAL DIMENSIONS



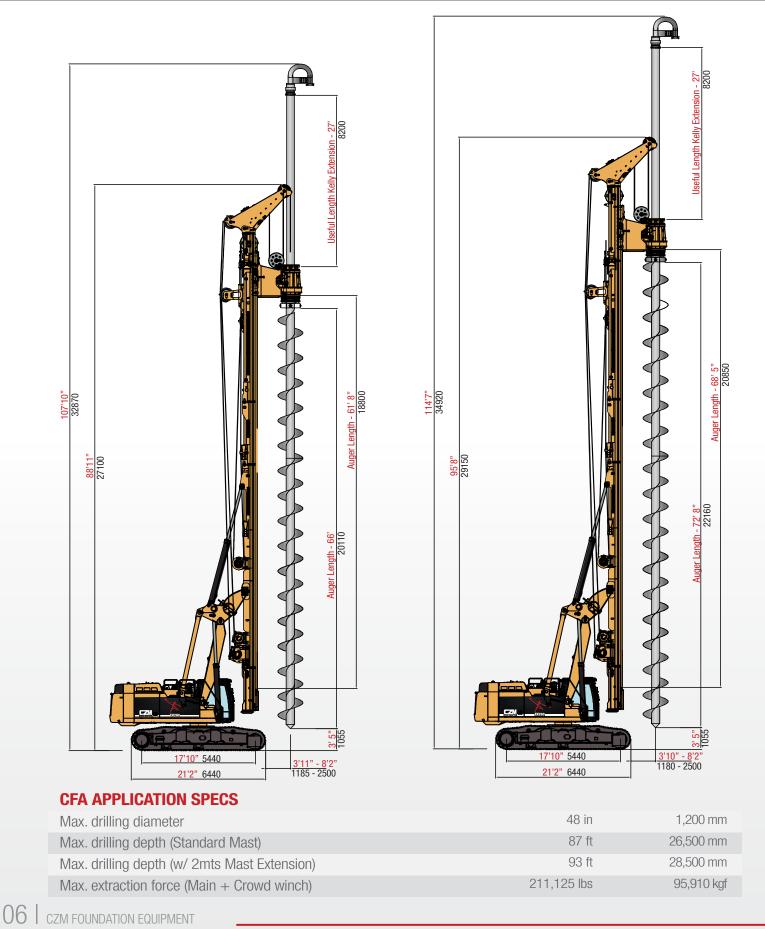


KELLY BAR OPTIONS FOR STANDARD MAST

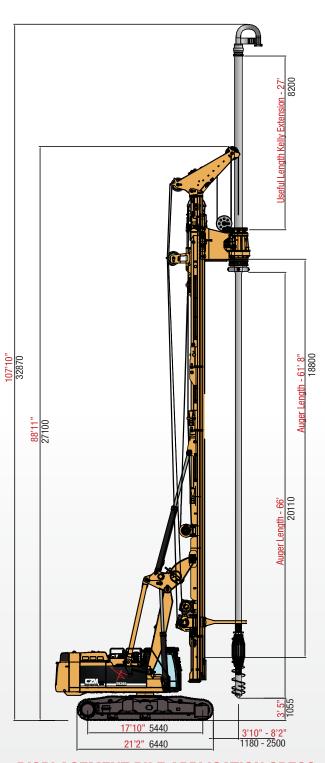
	NUMBER OF ELEMENTS	DEPTH - DPT 4	TRANSPORT - KCL ¹	HGT ³	KOP ²	WEIGHT
Standard 4/130 Interlock	4	130ft <i>(39m)</i>	39ft (11.9m)	25ft (7.6m)	132ft 3in <i>(40.3m)</i>	13,000lb (5,900kg)
3/90 Interlock	3	90ft <i>(29m)</i>	39ft 4in (12m)	25ft (7.6m)	100ft 5in <i>(30.6m)</i>	11,900lb (5,400kg)
Long 4/175 Interlock	4	175ft (53m)	50ft 7in (15.4m)	13ft 6in <i>(6.1m)</i>	178ft (54.3m)	17,000lb (7,750kg)
Long 3/130 Interlock	3	130ft <i>(39m)</i>	50ft 7in (15.4m)	13ft 6in <i>(6.1m)</i>	133ft (40.5m)	15,000lb (6,800Kg)
4/200 Interlock	4	200ft (60m)	60ft 8in (18.5m)	3ft 4in <i>(1m)</i>	206ft (6m)	20,000lb (9,100Kg)
5/260 Interlock	5	260ft (79.3m)	59ft 9in (18.2m)	12ft 2in (3.7m)	264ft (80.6m)	32,500lb (14,700Kg)

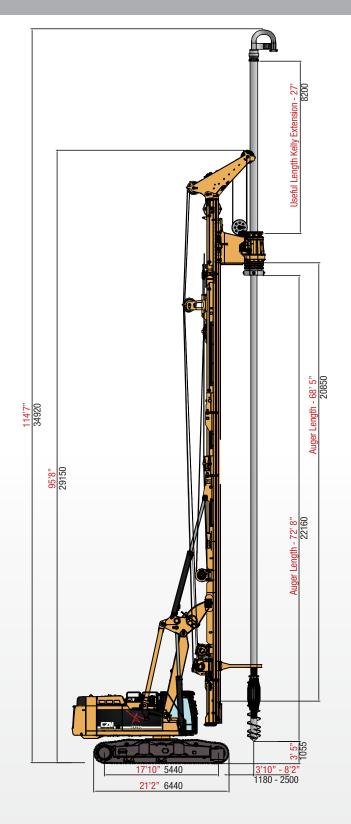
The standard kelly has 4 interlocking elements and reaches 130 ft (39 m) depth.

CONTINUOUS FLIGHT AUGER



DISPLACEMENT PILE

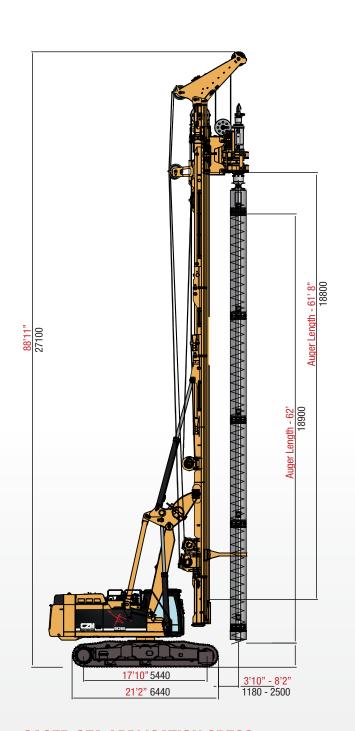




DISPLACEMENT PILE APPLICATION SPECS

Max. drilling diameter	24 in	620 mm
Max. drilling depth (Standard Mast)	87 ft	26,500 mm
Max. drilling depth (w/ 2mts Mast Extension)	93 ft	28,500 mm
Max. extraction force (Main + Crowd winch)	211,125 lbs	95,910 kgf

CASED CFA - DOUBLE ROTARY

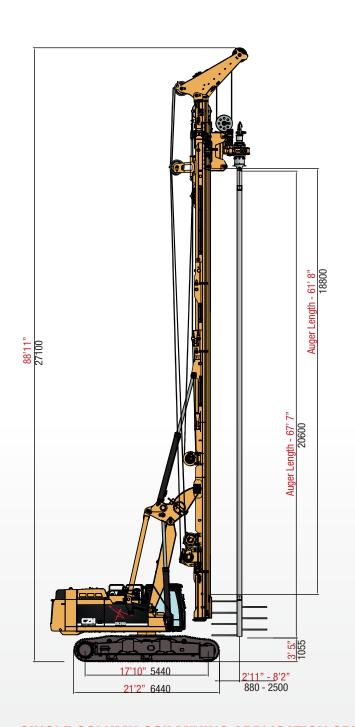




CASED CFA APPLICATION SPECS

Casing Rotary head Max torque	155,080 ft.lbs	21,500 kg.m
Auger Rotary head Max torque	101,400 ft.lbs	14,000 kg.m
Max. drilling diameter	36 in	920 mm
Max. drilling depth (Standard Mast)	60 ft	18,200 mm
Max. drilling depth (w/ 2mts Mast Extension)	66 ft	20,200 mm
Max. extraction force (Main + Crowd winch)	211,125 lbs	95,910 kgf

SOIL MIXING

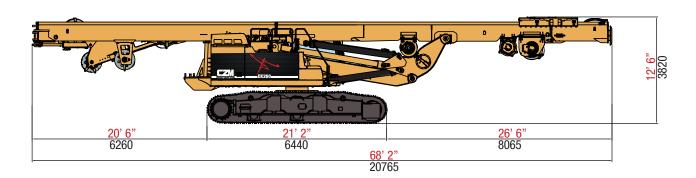


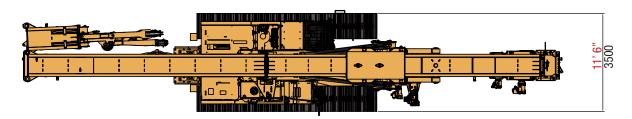


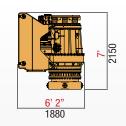
SINGLE COLUMN SOILMIXING APPLICATION SPECS

Soilmixing Rotary head Max torque	155,080 ft.lbs	21,500 kg.m
Soilmixing Rotary Head Speeds	20 – 40 rpms	20 - 40 rpms
Max. drilling diameter	10 ft	3,050 mm
Max. drilling depth (Standard Mast)	60 ft	18,200 mm
Max. drilling depth (w/ 2mts Mast Extension)	66 ft	20,200 mm
Max. extraction force (Main + Crowd winch)	211,125 lbs	95,910 kgf

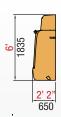
TRANSPORT POSITION GENERAL DIMENSIONS



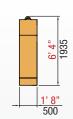




Width: 6' 4" / 1930 Weight: 12,000lb / 5.5 ton



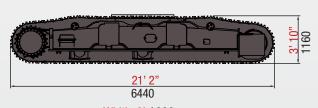
Width: 9' 10" / 3000 Weight: 27,000lb / 12.3 ton



Width: 9' 10" / 3000 Weight: 4,000lb / 1.8 ton



Weight: 13,500lb / 6.2 ton



Width: 3' / 900 Weight: 20,000lb / 9.1 ton

EK260LS FEATURES

BASE:

- The new Cat 352 is a purpose-built machine powered by a fuelefficient U.S. EPA Tier 4 Final C13 ACERT engine.
- Equipped with CAT Vision Link that allows management to monitor machine operations and maintenance data online and wireless, providing information such as location, hours, fuel usage, idle time, event codes and maintenance schedule.

UNDERCARRIAGE:

Caterpillar variable undercarriage VH5440/4900/900.
 Reinforced frame H style variable undercarriage. Length between wheels 5440mm, Transport width 3500mm, Operation width 4900mm, Shoe width 900mm.

MAST:

Reinforced mast, with high resistance steel Weldox 700.

ROTARY:

- **Robust design**, with 2 slewing bearings on top and bottom, robust pinion and main gear.
- 3 groups of Hydraulic Motor / Planetary Gears for high torque and long life.
- Anti-cavitation and anti-shock system for longer hydraulic motor life.
- Cooling system for hydraulic motors and gearboxes.
- Power-shift for High spin-off speed (110rpm) for quick discharge of soil.
- **3 operation speeds** and 3 spinoff speeds. For high torque and high speeds.
- Automatic gear shifting, for seamless operation, high production.
- **Exchangeable keys**, bolted. No need to rebuild keys by welding inside the rotary.
- Hydraulic measurement of torque displayed in the cabin for the operator.

MAIN WINCH:

- **Special groove** for better cable winding and longer cable life.
- Press-roller included
- 2 gears allows for both high speed and high pulling force.
- Automatic gear shifting, for seamless operation, high production.

- Automatic down the hole winch stop. When Kelly bar reaches the bottom of the hole, winch automatic stops.
- Free willing winch during crowd operation.
- Hydraulic and mechanic brake.
- Hydraulic measurement of pulling force displayed in the cabin for operator.
- Swivel and Limit switch.

CAB:

- AM/FM Radio, Air conditioning/Heating
- ROPS cab
- Top protection
- LCD monitor for Engine and Hydraulics computer, with diagnostic system

CONTROL SYSTEM:

- Touch Screen Display
- Measurements:
 - Torque and rotary speeds
 - Drilling depth
 - Mast inclination X/Y axis
 - Main Winch pulling force
 - Crowd force
- Automatic functions:
 - Auto-level of mast
 - Rotary automatic gear shifting
 - Main Winch automatic gear shifting
- Maintenance and data logging

ACCESSORIES:

- Lighting package
- Refueling pump
- Cold weather start up package
- Fine filtration system
- Tool & O'ring kits













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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