

EK65



APPLICATION

The **EK65** from CZM has been designed for high performance and to have the fastest and easiest setup for operation and transport mode. It is a reliable drilling rig mounted on a CAT base, keeping the operation and maintenance extremely friendly and efficient.

This model is a very compact drill rig and the hydraulic functions in the cabin also allow the Kelly bar to follow the raising and lowering of the mast, therefore the Kelly bar travels with the machine in a fast, easy and economic way.

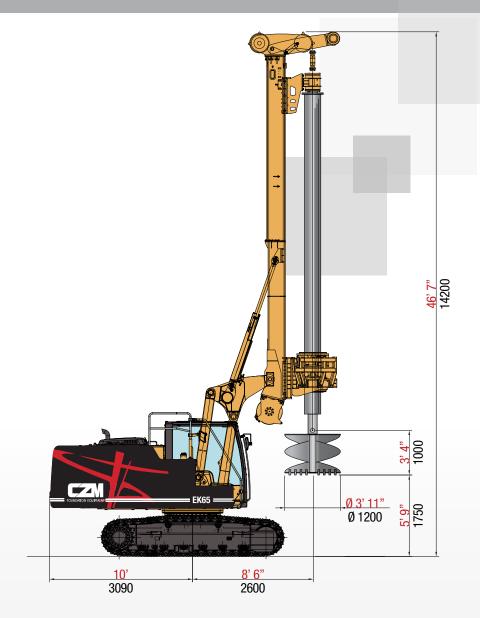
The **EK65** also has the versatility to be easily converted from long to short mast by simply replacing the top mast assembly and Kelly bar.

TECHNICAL SPECIFICATIONS

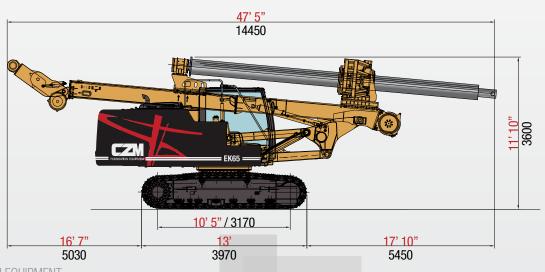
KELLY BAR LONG MAST VERSION			DIESEL ENGINE CAT316F TIER IV (CAT® C4.4 ACERT™)		
Drilling Depth (Long - 5/92 ft; interlock kelly bar) 92 ft	28 m	Net Power – SAE J1349	117 hp	88 kW
Drilling Diameter (max. w/ boom up)	70 in	1,800 mm	Displacement	269 in3	4.4 L
			Fuel Tank	76.6 gal	290L
KELLY BAR SHORT MAST VERSION					
Drilling Depth (Short - 5/41 ft; interlock kelly bar) 41 ft	12 m	HYDRAULIC SYSTEM (CAT316F TIEF	R IV)	
Drilling Diameter (max. w/ boom up)	70 in	1,800 mm	Hydraulic pressure	5,076 psi	350 bar
Drilling Diameter (max. between tracks)	8 ft	2.44 m	Max. Flow (main circuit - 2 pumps)	79 gal/min	300 L/min
			Max. Flow (auxiliary circuit)	14.3 gal/min	54 L/min
ROTARY HEAD			Pilot circuit pressure	580 psi	40 bar
Max. torque (nominal)	57,000 lbf.ft	7,900 kgf.m	Pilot circuit flow	6.8 gal/min	25.8 L/min
Working speed of rotation	11-33 rpm	11-33 rpm	Hydraulic oil tank capacity	28 gal	106 L
Spin-off rotation	62 rpm	62 rpm			
			UNDERCARRIAGE		
CROWD SYSTEM			Track length	13 ft	3,970 mm
Cylinder stroke	5 ft	1,500 mm	Length to Center of rollers	10 ft 5 in	3,170 mm
Cylinder push force	25,000 lbf	11,300 kgf	Transport position width (retracted)	8 ft 10 in	2,690 mm
Cylinder push speed	85 ft/min	26 m/min	Working position width (extended)	8 ft 10 in	2,690 mm
Cylinder pull force	10,500 lbf	4,800 kgf	Shoes width	28 in	700 mm
Cylinder pull speed	147 ft/min	45 m/min	Max. drawbar pull	35,115 lbf	15,600 kgf
			Max. travel speed	3.2 mph	5.2 km/h
MAIN WINCH					
Max. pull-force - 1st Layer (effective)	18,300 lbf	8,300 kgf	TRANSPORT		
Line speed - 1st Layer	282 ft/min	86 m/min	Transport height	11 ft 10 in	3,600 mm
Cable diameter	7/8"	22 mm	Length (Long Mast)	47 ft 5 in	14,500 mm
Drum diameter - 1st Layer	16.2 in	411 mm	Length (Short Mast)	25 ft 3 in	7,700 mm
			Transport width	8 ft 10 in	2,690 mm
AUXILIARY WINCH*			Transport weight (long mast - kelly 5 / 92 ft)	60,000 lb	27,125 kg
Max. pull-force - 1st Layer (effective)	4,400 lbf	2,000 kgf	Transport weight (short mast - kelly 5 / 41 ft)	55,000 lb	24,947 kg
Line speed - 1st Layer	125 ft/min	38 m/min			
Cable diameter	1/2 in	12.7 mm	GENERAL DATA		
Drum diameter - 1st Layer	7.4 in	187 mm	Overall height (standard mast)	46 ft 7 in	14,200 mm
			Overall height (short mast application)	24 ft 3 in	7,400 mm
MAST INCLINATION		(short mast application - w/boom down) 18 ft 6 in 5,650		5,650 mm	
Backward	15°	15°	Operation weight (standard mast)	61,700 lb	28,000 kg
Forward	5°	5°	Operation weight (short mast)	57,300 lb	26,000 kg
Sideways	7° / 7°	7º / 7º			

^{*} Optional 6,600 lbf (3,000 kgf) winch available

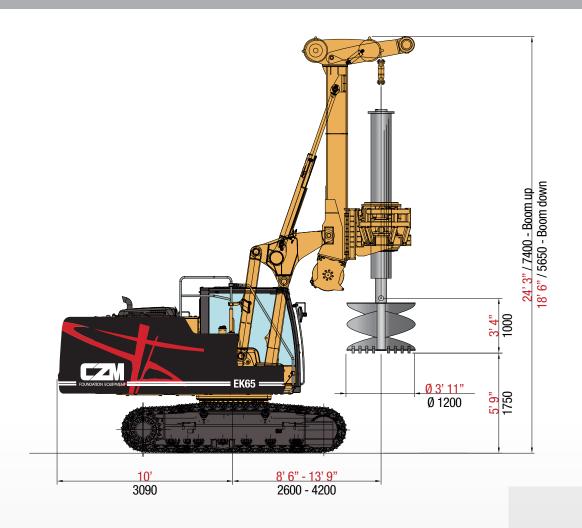
GENERAL DIMENSIONS LONG MAST



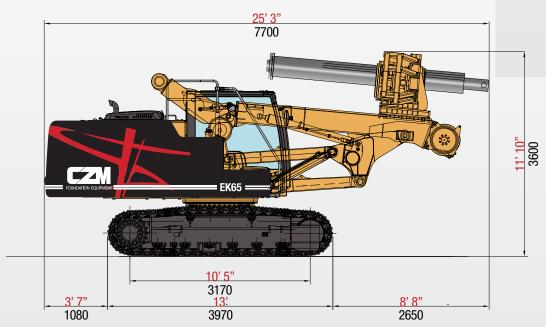
TRANSPORT POSITION LONG MAST



SHORT MAST GENERAL DIMENSIONS



TRANSPORT POSITION SHORT MAST















∠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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