



Dedicated to Our Customers' Success.



1100CM Short Mast



1100TM Long Mast

1100 Series

Truck & Crawler Mounts

Made in America
Best in the World

1100 Technical Specifications

	MECHANICAL		HYDRAULIC	
Torque	40,600 lb-ft	55 kNm	40,000 lb-ft	54.2 kNm
Spinoff	200 RPM	200 RPM	130 RPM	130 RPM
Recommended Drill Diameter	24-48 in	610-1,219 mm	24-60 in	610-1,524 mm
Crowd Down • Pull up	21,700 • 10,000 lbs	97 • 44 kN	21,700 • 10,000 lbs	97 • 44 kN
Kelly Winch Line Pull	18,000 lbs	80 kN	18,000 lb	80 kN
Kelly Winch Line Speed • Cable Size	160 ft/min • 5/8" dia	48.8 m/min • 16 mm	160 ft/min • 5/8" dia	48.8 m/min • 16 mm
Service Winch Line Pull • Cable Size	4,500 lbs • 1/2" dia	20 kN • 13 mm	4,500 lbs • 1/2" dia	20 kN • 13 mm
Engine (John Deere)	4045H (Tier 3 or 4)		4045H (Tier 3 or 4)	
Power	140 HP		140 HP	
Transmission	Funk 2000		Hydrostatic	
Speeds	6 FWD/ 3 REV		Variable	

1100 Standard Features

Rotary	Single reduction with heavy-duty spiral bevel ring gear and pinion (Mechanical).
Mast	Box type structure. Mast is elevated with two hydraulic cylinders allowing positioning 10° past vertical and 10° on each side.
Kelly	Telescoping multi-element. Customized Kelly stub per customer specification.
Kelly Winch	"Controlled freefall" when lowering and 2-speed, 18,000 lb. raise.
Service Winch	4,500 lb. power-up/power-down.
Rotating Frame	Rotation provided by a hydraulic motor and planetary with integral braking system. Enables 360° swing on crawler rigs.
Slide Frame	24" slide (36" on Hydraulic) increases maximum drill radius up to 118" (9' 10").
Paint	Customer selects paint color to match equipment fleet.
Base Frame/ Outriggers	Outriggers are out/down on cab end and stabilizers on drill end. Outriggers are powered by upper unit and controls are at operator's station (Truck Only).
Truck Mount (TM)	6x4 truck, typical gross vehicle weight (GVW) rating is 54,000lb.
Crawler Mount (CM)	8' 6" x 11' 5" crawler type undercarriage with 20" track pads. Hydraulically driven, 2-speed with independently controlled tracks.

Note: Both the Truck Mount and Crawler Mount are offered with a mechanical or hydraulic driven rotary, allowing a wider range of kelly options.

1100 Additional Options

Service Winch	8,500 lbs.
Outriggers	A-Frame located on drill end.
Kelly Bar	Solid 4.25" inner in lieu of hollow.
Kelly/Mast Configurations	Custom combination of mast height and bar set to meet customer drill depth needs. Consult factory for alternate depths.
Operator's Cab	High visibility cab with heat and A/C available.
Miscellaneous	Base extensions, toolboxes, water tank.

1100 Depths - Mechanical Rotary Drive

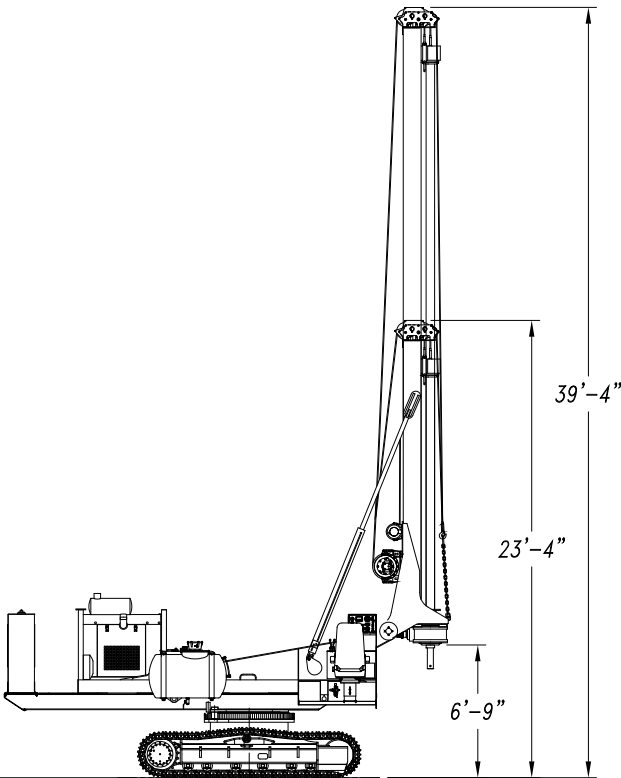
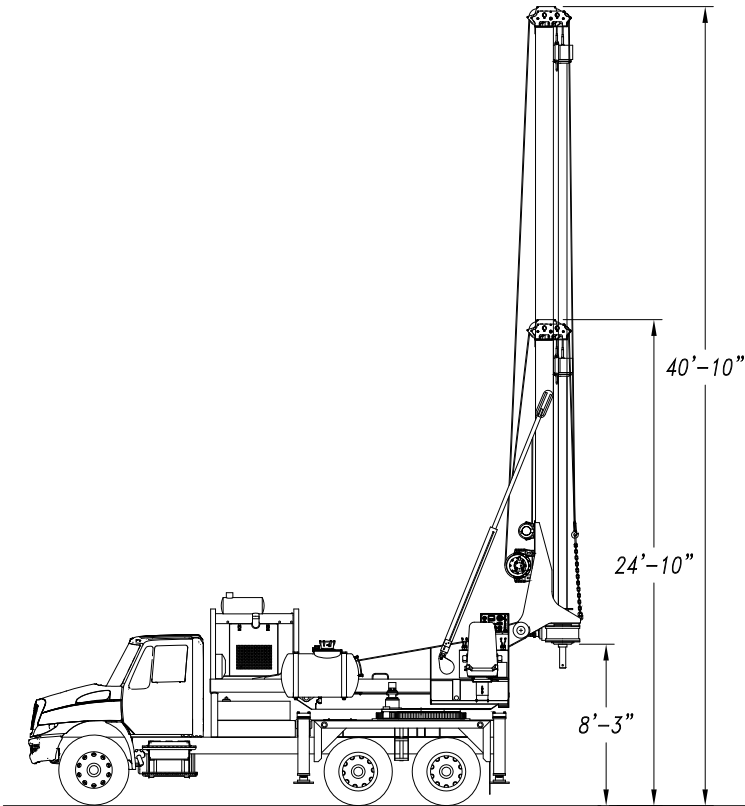
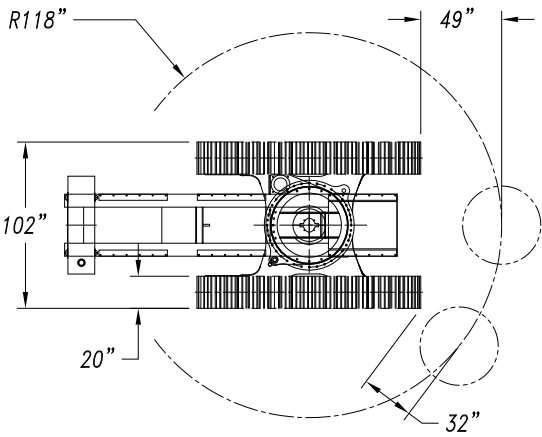
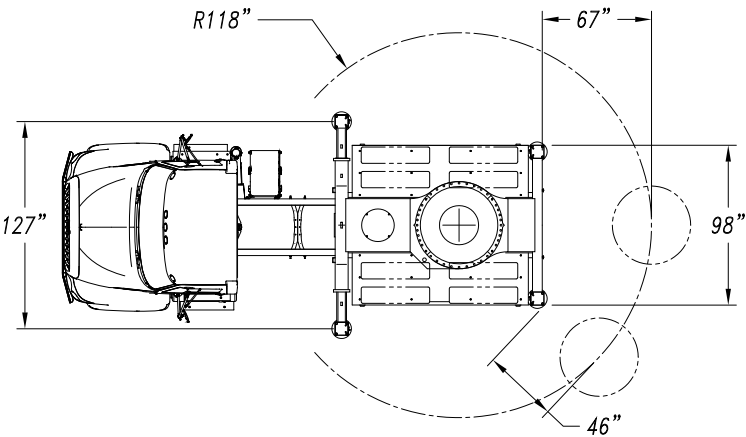
				MAST HEIGHT					
KELLY BAR				24 ft-10 in	7.6 m	29 ft-10 in	9.1 m	40 ft-10 in	12.4 m
BAR TYPE	BARS	BAR DIMENSIONS		KELLY PENETRATION DEPTH					
Square	2	6/4.25 in	152/108 mm	15 ft	4.7 m	25 ft	7.6 m	45 ft	13.7 m
Square	3	7/5/3.5 in	178/127/89 mm	25 ft	7.6 m	40 ft	12.2 m	-	-

Note: Kelly penetration depth does not include tool length.

1100 Drill Depths - Hydraulic Rotary Drive

KELLY BAR				MAST HEIGHT					
				24 ft-10 in	7.6 m	29 ft-10 in	9.1 m	40 ft-10 in	12.4 m
BAR TYPE	BARS	BAR DIMENSIONS		KELLY PENETRATION DEPTH					
Square	2	6/4.25 in	152/108 mm	15 ft	4.7 m	25 ft	7.6 m	45 ft	13.7 m
Square	3	8/6/4.25 in	203/152/108 mm	25 ft	7.6 m	40 ft	12.2 m	71 ft	21.6 m
Square	4	10/8/6/4.25 in	254/203/152/108 mm	37 ft	1.3 m	52 ft	15.8 m	96 ft	29.3 m
Round	3	12.75/10.75/8.62 in	324/273/219 mm	24 ft	7.6 m	39 ft	11.9 m	69 ft	21.0 m
Round	4	12.75/10.75/8.62/6.62 in	324/273/219/168 mm	35 ft	11.27 m	55 ft	16.8 m	94 ft	28.7 m

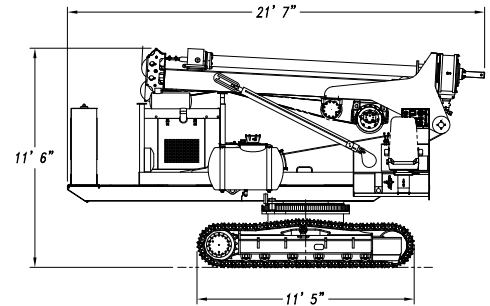
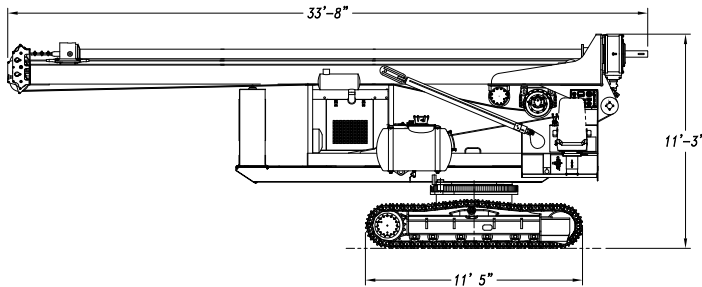
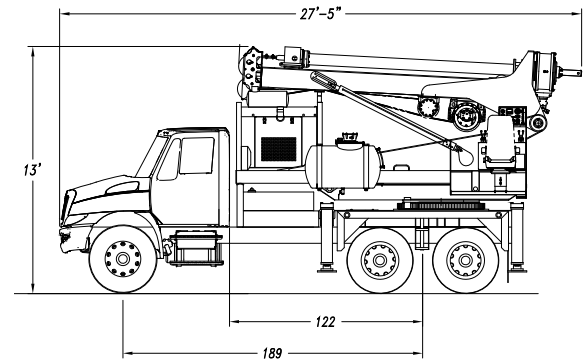
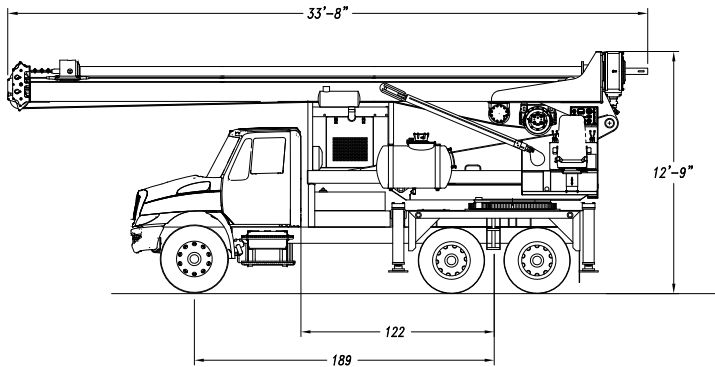
Note: Kelly penetration depth does not include tool length.



1100 Travel Configurations

MOUNT	MAST HEIGHT*		WEIGHT*		TRAVEL HEIGHT		TRAVEL LENGTH		TRAVEL WIDTH	
Short Mast Truck (TM)	24 ft-10 in	7.6 m	40,540 lbs	18,389 kgs	13 ft-3 in	4.0 m	27 ft-5 in	8.4 m	8 ft-2 in	2.5 m
Long Mast Truck (TM)	40 ft-8 in	12.4 m	44,840 lbs	20,339 kgs	12 ft-9 in	3.9 m	33 ft-8 in	10.3 m	8 ft-2 in	2.5 m
Long Mast Crawler (CM)	39 ft-10 in	12.1 m	32,310 lbs	14,656 kgs	11 ft-3 in	3.4 m	33 ft-8 in	10.3 m	8 ft-6 in	2.6 m
Short Mast Crawler (CM)	23 ft-10 in	7.3 m	30,000 lbs	13,608 kgs	11 ft-6 in	3.5 m	21 ft-7 in	6.6 m	8 ft-6 in	2.6 m

*Truck mount weights and heights are approximate.



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