



*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

<b>Rotary</b>	Single reduction with heavy-duty spiral bevel ring gear and pinion (Mechanical).
<b>Mast</b>	Box type structure. Mast is elevated with two hydraulic cylinders allowing positioning 10° past vertical and 10° on each side.
<b>Kelly</b>	Telescoping multi-element. Customized Kelly stub per customer specification.
<b>Kelly Winch</b>	"Controlled freefall" when lowering and 2-speed, 18,000 lb. raise.
<b>Service Winch</b>	4,500 lb. power-up/power-down.
<b>Rotating Frame</b>	Rotation provided by a hydraulic motor and planetary with integral braking system. Enables 360° swing on crawler rigs.
<b>Slide Frame</b>	24" slide (36" on Hydraulic) increases maximum drill radius up to 118" (9' 10").
<b>Paint</b>	Customer selects paint color to match equipment fleet.
<b>Base Frame/ Outriggers</b>	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).
<b>Truck Mount (TM)</b>	6x4 truck, typical gross vehicle weight (GVW) rating is 54,000lb.
<b>Crawler Mount (CM)</b>	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

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

## 1100 Depths - Mechanical Rotary Drive

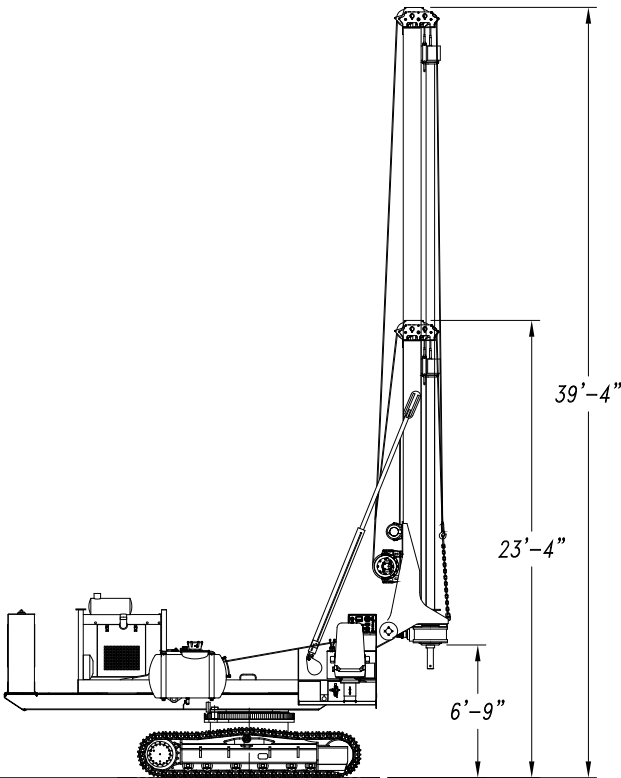
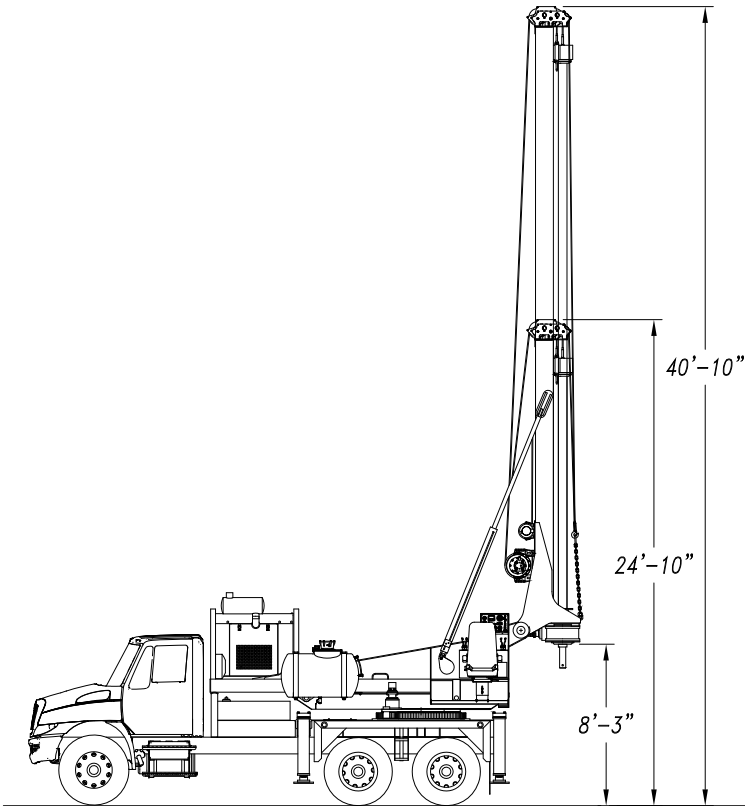
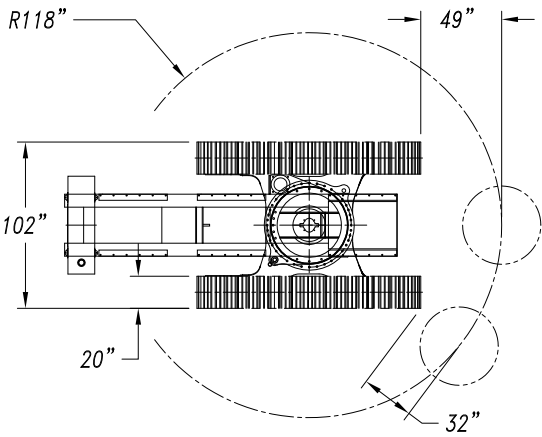
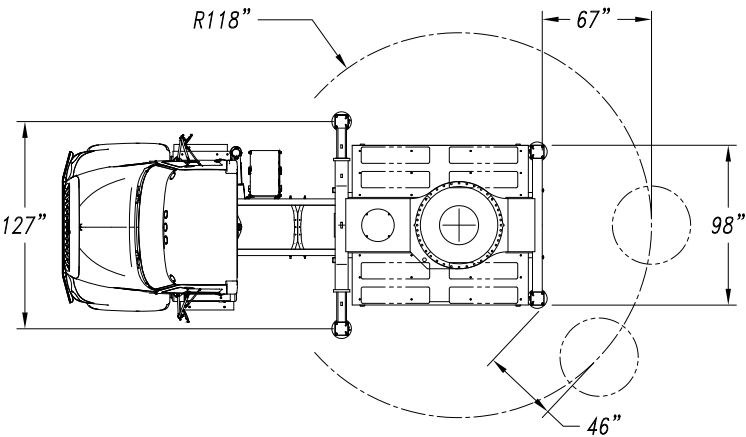
				MAST HEIGHT					
KELLY BAR				24 ft-10 in	7.6 m	29 ft-10 in	9.1 m	40 ft-10 in	12.4 m
BAR TYPE	BARS	BAR DIMENSIONS		KELLY PENETRATION DEPTH					
Square	2	6/4.25 in	152/108 mm	15 ft	4.7 m	25 ft	7.6 m	45 ft	13.7 m
Square	3	7/5/3.5 in	178/127/89 mm	25 ft	7.6 m	40 ft	12.2 m	-	-

*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

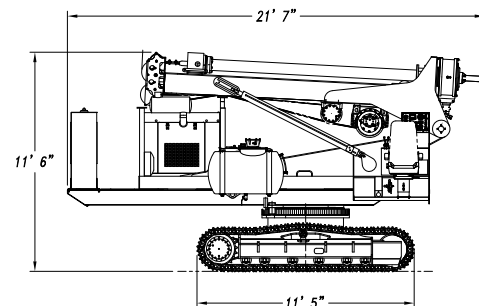
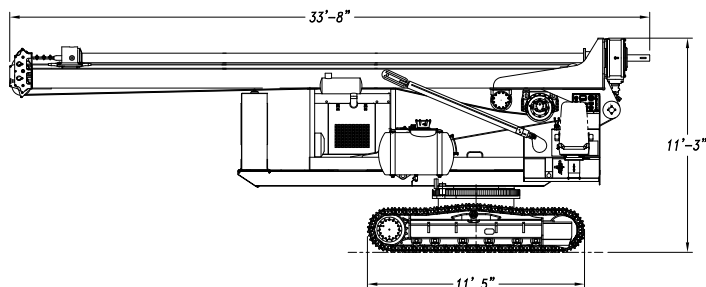
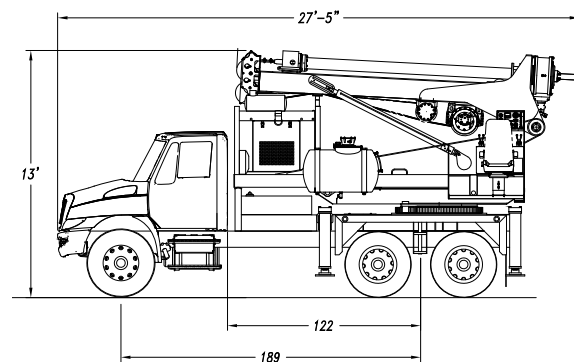
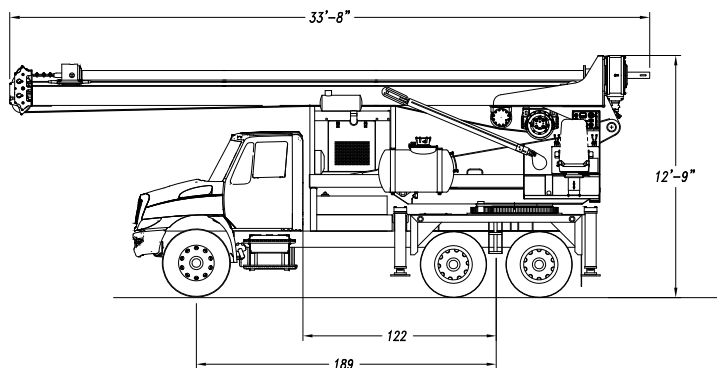
Note: Kelly penetration depth does not include tool length.



# 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.



**Western USA**  
**Western Canada**  
 Tony Kraut  
 817-927-8486 x336  
 Cell 469-586-7214  
 tony@watsonusa.com

**Central USA**  
 Steve Drury  
 817-927-8486 x323  
 Cell 817-944-6577  
 steve@watsonusa.com

**Southeastern & Midwest USA**  
**Eastern Canada**  
 Dan Wojick  
 Cell 817-343-6553  
 dan@watsonusa.com

**Northeastern USA**  
 Jill Kennedy  
 Cell 443-401-0035  
 jill@watsonusa.com

**Parts Sales**  
 Robert Broom  
 817-927-8486 x366  
 robert.broom@watsonusa.com

**Customer Service**  
 Scooter Scogins  
 817-927-8486 x350  
 Cell 817-307-9260  
 scooter.scogins@watsonusa.com

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**Watson Drill Rigs**  
 4015 South Freeway  
 Fort Worth, Texas 76110  
 800-927-8486  
 Fax 817-927-8716  
 sales@watsonusa.com

**watsonusa.com**