



Built for any foundation challenge

Parallelogram Drilling Rigs



HPM



www.hpmitaly.com

HPM

SUMMARY

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COMPANY

Global leaders In drilling rigs Manufacturing

The HPM product range combines **functional design, next-generation technologies, and superior manufacturing** quality to ensure reliable, long-term performance.

Our modular design approach allows us to customize our machinery and adapt it to a wide array of drilling applications, including bored piles, low clearance solutions, **cased bored piles, CFA (Continuous Flight Auger), displacement piles, soil mixing, and DTH.**

Our drill rigs
are designed
to get the
**best torque/
weight
ratio in the
market**



Family values even at work

We are an Italian family-owned enterprise specializing in the engineering and manufacturing of foundation drilling equipment, with a distinguished international presence.

We are a recognized **global leader in hydraulic drilling rigs built on Caterpillar® bases**, a strategic partnership that stands as a cornerstone of our industrial identity.

Our operations **are defined by a proactive, results-driven mindset**, rooted in a culture of **collaboration, accountability, and professional excellence**.

We believe in a future for the foundation industry built on high-performance machinery designed around real-world operational needs. Our mission is to develop reliable, high quality, and customized drilling rigs, shaped by continuous dialogue with those working on-site every day. Every project is born from the **perfect balance of precision engineering, client consultation, and the ability to transform complex application requirements into effective solutions**.

Choosing excellence

We are a global leader in the design and manufacture of hydraulic drilling rigs mounted on Caterpillar® bases.

Customization as a working method

We configure every rig based on specific applications, operating environments, and client objectives. Every drilling unit is a unique, purpose-built tool.

In-house design and end-to-end control

Every rig is designed, assembled, and tested by HPM.

All components are certified, with guaranteed worldwide service and support.

Technical expertise and entrepreneurial vision

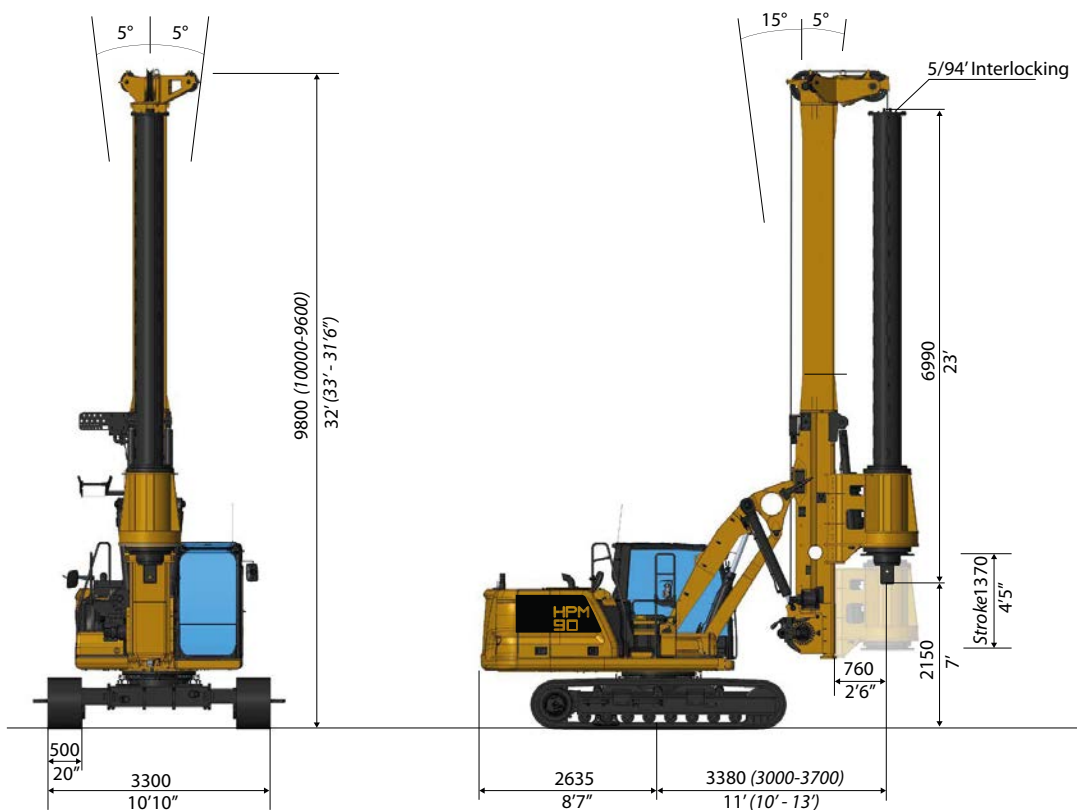
With over 45 years of experience in the drilling industry, we combine a strong entrepreneurial vision with a commitment to innovation and global growth.

HPM 90

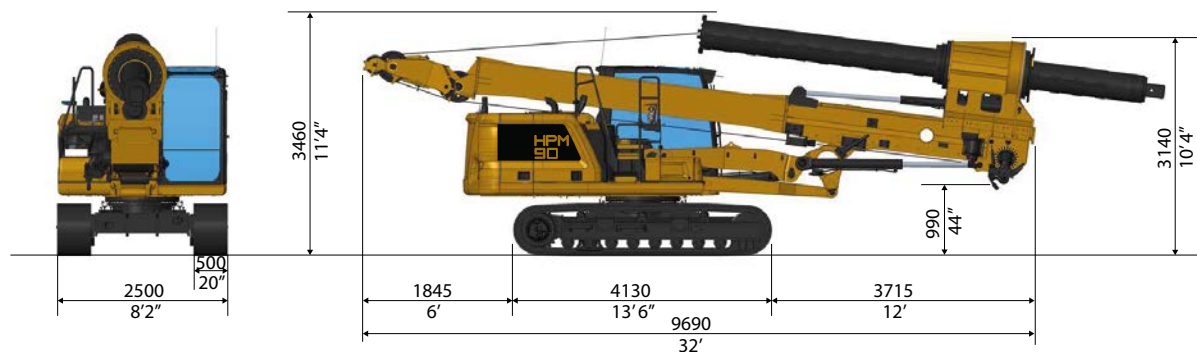
**LIGHTWEIGHT POWER:
BUILT FOR EASY
TRANSPORT**



GENERAL DIMENSIONS



TRANSPORT DIMENSIONS



Operating and Transport Weight Wheight with 5/94 KB

24 ton 54000 lb

BASE

Model	CAT 313	
Engine model	CAT C3.6	
Power rating ISO 14396	82 kW	108 hp
Displacement	3.6 l	220 in ³
Fuel tank	258 l	68.2 gal

UNDERCARRIAGE

Undercarriage type	Variable Width	
Width	2500-3300mm	8'2"- 10'10"
Shoe width	500mm	20"

ROTARY

Rotary torque	105 kNm	77500 lb.ft
Max effective torque	90 kNm	66400 lb.ft
Working speed	8-28 rpm	
Working gears	10	
Discharge speed	50-125 rpm	
Discharge gears	10	

MAIN WINCH

Max pull force	120 kN	27000 lbf
Starting pull force	130 kN	29250 lbf
Rope speed	70 m/min	230 ft/min
Rope diameter	22 mm	7/8"

AUXILIARY WINCH

Max pull force	30 kN	6750 lbf
Rope speed	55 m/min	180 ft/min
Rope diameter	12 mm	15/35"

CROWD SYSTEM

Crowd type	Cylinders Pull Down	
Pull force	280 kN	63000 lbf
Push force	100 kN	22500 lbf

DRILLING DATA

Standard kelly bar	5/94	
Drilling depth*	28.5 m	94 ft
Drilling diam. (in front of the mast)	1500 mm	60 in

MAIN STANDARD EQUIPMENT

- ✓ Multifunctional HPM Computer
- ✓ Travel Alarm
- ✓ Cameras
- ✓ Automatic Mast Verticalization
- ✓ Auto Alignment with memory function
- ✓ Rotary Speed Control
- ✓ 10 Gears System
- ✓ Remote Diagnostics/Updates
- ✓ Removable Counterweight
- ✓ Extendable Undercarriage

OPTIONAL EQUIPMENT

- Aux. Swing Brake
- Casing Oscillator Predisposition
- Universal Casing Joint
- Remote Control
- Self Erecting Counterweight
- FOPS cab
- Biodegradable Hydraulic Oil
- Central Lubrification System
- CFA Kit
- Short Mast Kit



*Different Kelly-Bar available on request

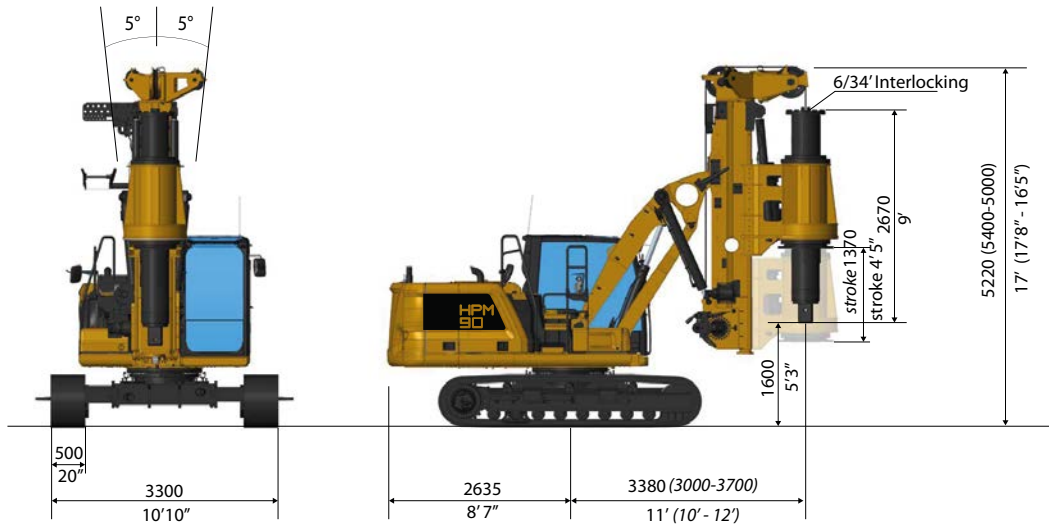
HPM 90

short mast

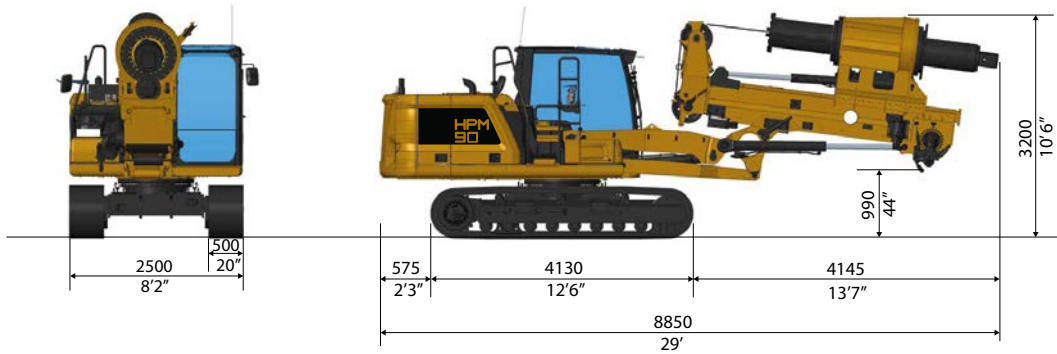
GOOD THINGS COME IN SMALL PACKAGES



GENERAL DIMENSIONS



TRANSPORT DIMENSIONS



BASE

Model	CAT 313	
Engine model	CAT C3.6	
Power rating ISO 14396	82 kW	108 hp
Displacement	3.6 l	220 in ³
Fuel tank	258 l	68.2 gal

UNDERCARRIAGE

Undercarriage type	Variable Width	
Width	2500-3300mm	8'2"- 10'10"
Shoe width	500mm	20"

ROTARY

Rotary torque	105 kNm	77500 lb.ft
Max effective torque	90 kNm	66400 lb.ft
Working speed	8-28 rpm	
Working gears	10	
Discharge speed	50-125 rpm	
Discharge gears	10	

MAIN WINCH

Max pull force	120 kN	27000 lbf
Starting pull force	130 kN	29250 lbf
Rope speed	70 m/min	230 ft/min
Rope diameter	22 mm	7/8"

AUXILIARY WINCH

Max pull force	30 kN	6750 lbf
Rope speed	55 m/min	180 ft/min
Rope diameter	12 mm	15/35"

CROWD SYSTEM

Crowd type	Cylinders Pull Down	
Pull force	280 kN	63000 lbf
Push force	100 kN	22500 lbf

DRILLING DATA

Standard kelly bar	6/34	
Drilling depth*	10.3 m	34 ft
Drilling diam. (in front of the mast)	1500 mm	60 in

MAIN STANDARD EQUIPMENT

- ✓ Multifunctional HPM Computer
- ✓ Travel Alarm
- ✓ Cameras
- ✓ Automatic Mast Verticalization
- ✓ Auto Alignment with memory function
- ✓ Rotary Speed Control
- ✓ 10 Gears System
- ✓ Remote Diagnostics/Updates
- ✓ Removable Counterweight
- ✓ Extendable Undercarriage

OPTIONAL EQUIPMENT

- Aux. Swing Brake
- Casing Oscillator Predisposition
- Universal Casing Joint
- Walking Platform
- Remote Control
- Self Erecting Counterweight
- FOPS cab
- Biodegradable Hydraulic Oil
- Central Lubrication System
- Long Mast Kit



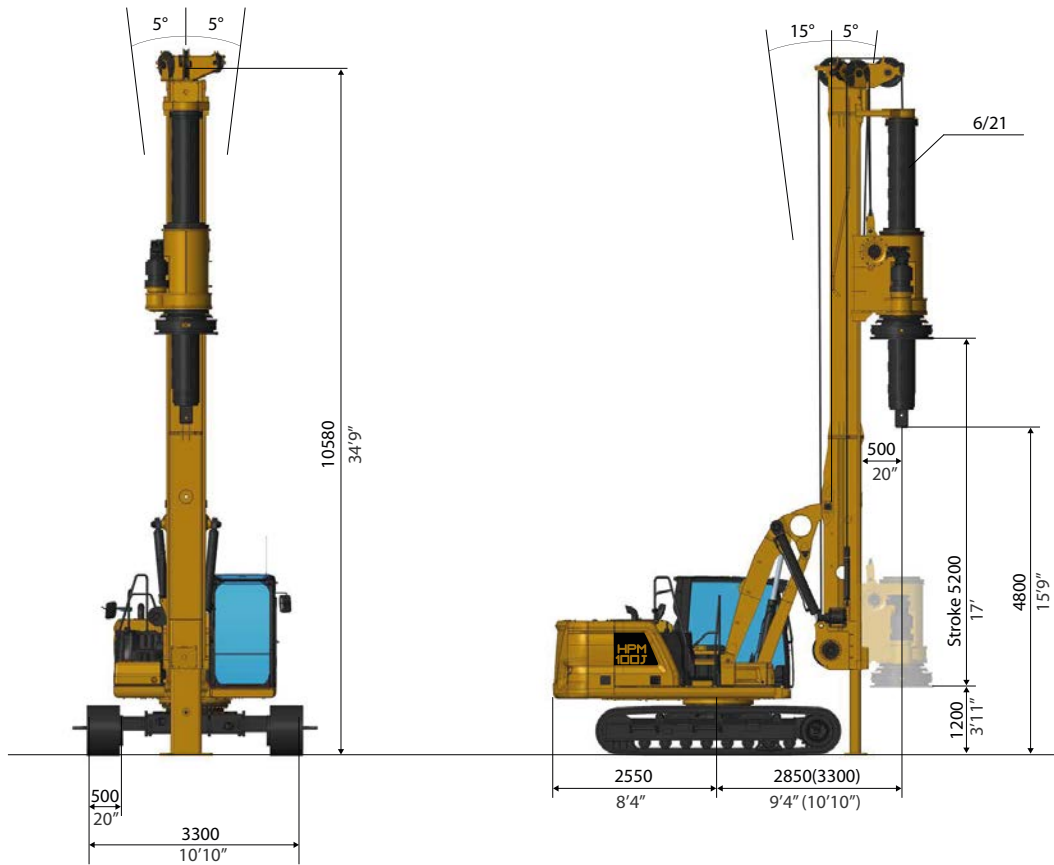
*Different Kelly-Bar available on request

HPM 100 J

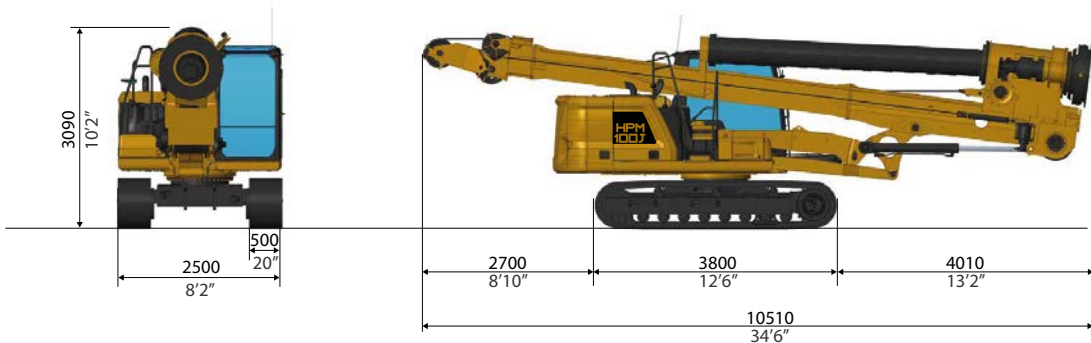
**BIG THINGS,
SMALL FOOTPRINT**



GENERAL DIMENSIONS



TRANSPORT DIMENSIONS



BASE

Model	CAT 313	
Engine model	CAT C3.6	
Power rating ISO 14396	82 kW	108 hp
Displacement	3.6 l	220 in ³
Fuel tank	258 l	68.2 gal

UNDERCARRIAGE

Undercarriage type	Variable Width	
Width	2500-3300 mm	8'2" - 10'10"
Shoe width	500 mm	20"

ROTARY

Rotary torque	123 kNm	90700 lb.ft
Max effective torque	105 kNm	77450 lb.ft
Working speed	8-28 rpm	
Working gears	10	
Discharge speed	50-125 rpm	
Discharge gears	10	

MAIN WINCH

Max pull force	120 kN	27000 lbf
Starting pull force	130 kN	29250 lbf
Rope speed	70 m/min	230 ft/min
Rope diameter	22 mm	7/8"

AUXILIARY WINCH

Max pull force	30 kN	6750 lbf
Rope speed	55 m/min	180 ft/min
Rope diameter	12 mm	15/35"

CROWD SYSTEM

Crowd type	Winch with Pull in 3°	
Pull force	201 kN	45200 lbf
Push force	100 kN	22500 lbf

*Cylinder Crowd System available on request

DRILLING DATA

Standard kelly bar	6/21	
Drilling depth.*	21 m	68 ft
Drilling diam. (in front of the mast)	1000 mm	3.28 ft

MAIN STANDARD EQUIPMENT

- ✓ Multifunctional HPM Computer
- ✓ Travel Alarm
- ✓ Cameras
- ✓ Automatic Mast Verticalization
- ✓ Auto Alignment with memory function
- ✓ Rotary Speed Control
- ✓ 10 Gears System
- ✓ Remote Diagnostics/Updates
- ✓ Removable Counterweight
- ✓ Extendable Undercarriage

OPTIONAL EQUIPMENT

- Cylinder Crowd System
- Aux. Swing Brake
- Casing Oscillator Predisposition
- Universal Casing Joint
- Walking Paltform
- Remote Control
- Self Erecting Counterweight
- FOPS cab
- Biodegradable Hydraulic Oil
- Central Lubrication System
- CFA Kit
- Short Mast Kit



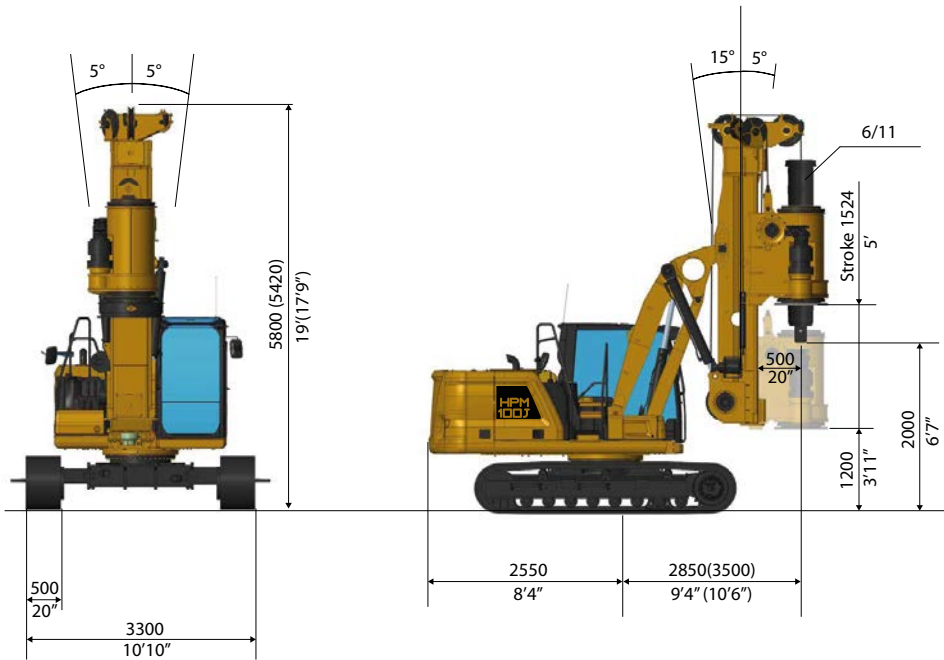
*Different Kelly-Bar available on request

HPM 100 J
short mast

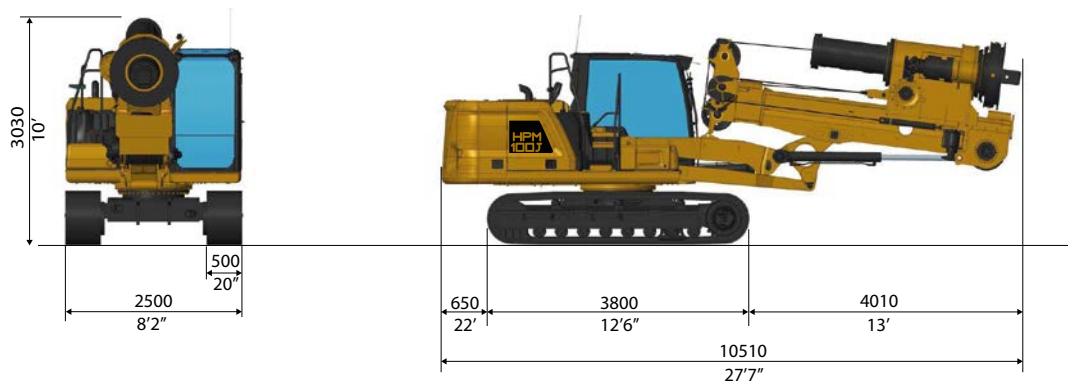
**THE DEPTH YOU NEED,
WHERE YOU NEED IT**



GENERAL DIMENSIONS



TRANSPORT DIMENSIONS



BASE

Model	CAT 313	
Engine model	CAT C3.6	
Power rating ISO 14396	82 kW	108 hp
Displacement	3.6 l	220 in ³
Fuel tank	258 l	68.2 gal

UNDERCARRIAGE

Undercarriage type	Variable Width	
Width	2500-3300 mm	8'2"- 10'10"
Shoe width	500 mm	20"

ROTARY

Rotary torque	123 kNm	90700 lb.ft
Max effective torque	105 kNm	77450 lb.ft
Working speed	8-28 rpm	
Working gears	10	
Discharge speed	50-125 rpm	
Discharge gears	10	

MAIN WINCH

Max pull force	120 kN	27000 lbf
Starting pull force	130 kN	29250 lbf
Rope speed	70 m/min	230 ft/min
Rope diameter	22 mm	7/8"

AUXILIARY WINCH

Max pull force	30 kN	6750 lbf
Rope speed	55 m/min	180 ft/min
Rope diameter	12 mm	15/35"

CROWD SYSTEM

Crowd type	Winch with Pull in 3°	
Pull force	201 kN	45200 lbf
Push force	100 kN	22500 lbf

DRILLING DATA

Standard kelly bar	6/11	
Drilling depth.*	11 m	36 ft
Drilling diam. (in front of the mast)	1000 mm	3.28 ft

MAIN STANDARD EQUIPMENT

- ✓ Multifunctional HPM Computer
- ✓ Travel Alarm
- ✓ Cameras
- ✓ Automatic Mast Verticalization
- ✓ Auto Alignment with memory function
- ✓ Rotary Speed Control
- ✓ 10 Gears System
- ✓ Remote Diagnostics/Updates
- ✓ Removable Counterweight
- ✓ Extendable Undercarriage

OPTIONAL EQUIPMENT

- Cylinder Crowd System
- Aux. Swing Brake
- Casing Oscillator Predisposition
- Universal Casing Joint
- Walking Paltform
- Remote Control
- Self Erecting Counterweight
- FOPS cab
- Biodegradable Hydraulic Oil
- Central Lubrication System
- CFA Kit
- Long Mast Kit



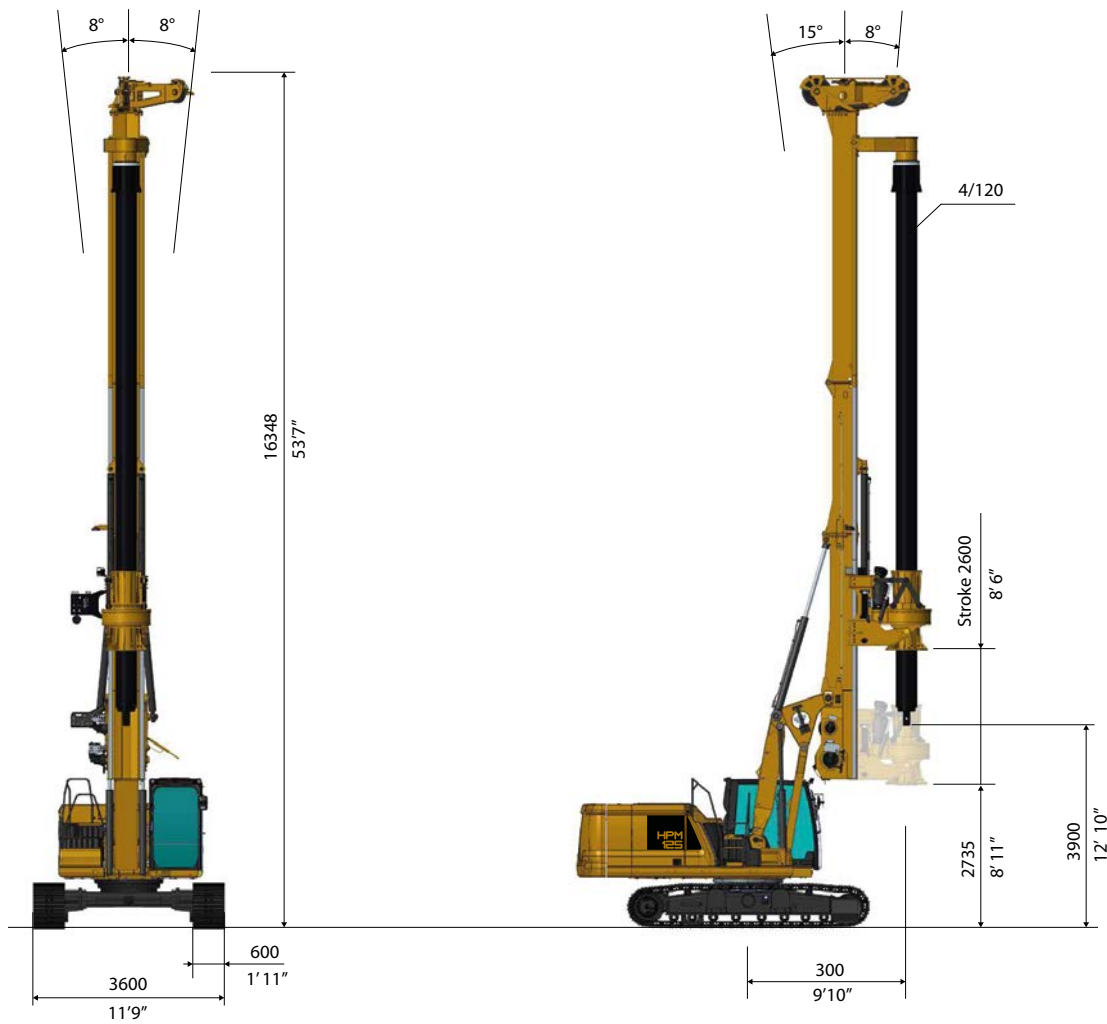
*Different Kelly-Bar available on request

HPM 125

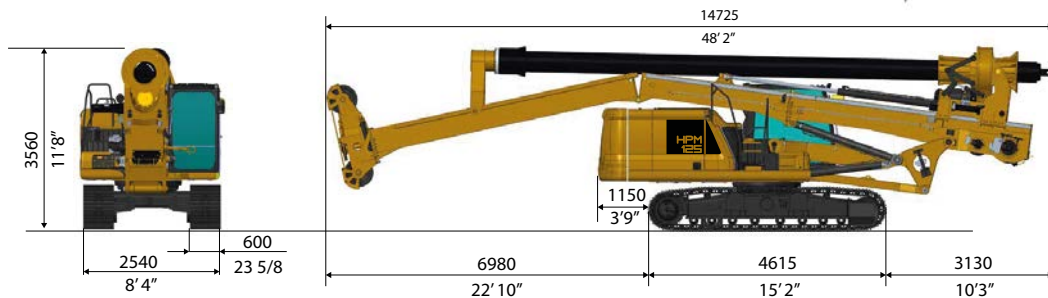
THE IDEAL MACHINE FOR FOUNDATION, RATHOLE AND LANDFILL DRILLING



GENERAL DIMENSIONS



TRANSPORT DIMENSIONS



Operating and Transport Weight with 4/120 KB

36 ton 79400 lb

BASE

Model	CAT 323	
Engine model	CAT C7.1	
Power rating ISO 14396	129 kW	173 hp
Displacement	7.01 l	428 in ³
Fuel tank	345 l	86.6 gal

UNDERCARRIAGE

Undercarriage type	Variable Width	
Width	2540-3600mm	8'4" - 11'10"
Shoe width	600mm	24"

ROTARY

Rotary torque	153 kNm	110600 lb.ft
Max effective torque	130 kNm	94000 lb.ft
Working speed	7-28 rpm	
Working gears	10	
Discharge speed	40-120 rpm	
Discharge gears	10	

MAIN WINCH

Max pull force	180 kN	40000 lbf
Starting pull force	205 kN	46000 lbf
Rope speed	70 m/min	230 ft/min
Rope diameter	24 mm	15/16

AUXILIARY WINCH

Max pull force	75 kN	16900 lbf
Rope speed	65 m/min	215 ft/min
Rope diameter	15 mm	19/32"

CROWD SYSTEM

Crowd type	Cylinder Crowd Pull	
Pull force	270 kN	61000 lbf
Push force	180 kN	40000 lbf

DRILLING DATA

Standard Kelly bar	4/120	
Drilling depth*	36.5 m	120 ft
Drilling diam. (in front of the mast)	1800 mm	6 ft
Max drilling diam. (under the mast)	3000 mm	10 ft

MAIN STANDARD EQUIPMENT

- ✓ Multifunctional HPM Computer
- ✓ Travel Alarm
- ✓ Cameras
- ✓ Automatic Mast Verticalization
- ✓ Auto Alignment with memory function
- ✓ Rotary Speed Control
- ✓ 10 Gears System
- ✓ Remote Diagnostics/Updates
- ✓ Removable Counterweight
- ✓ Extendable Undercarriage

OPTIONAL EQUIPMENT

- Winch Crowd System
- Aux. Swing Brake
- Casing Oscillator Predisposition
- Universal Casing Joint
- Walking Paltform
- Remote Control
- Self Erecting Counterweight
- FOPS cab
- Biodegradable Hydraulic Oil
- Central Lubrication System
- CFA Kit
- Short Mast Kit



*Different Kelly-Bar available on request

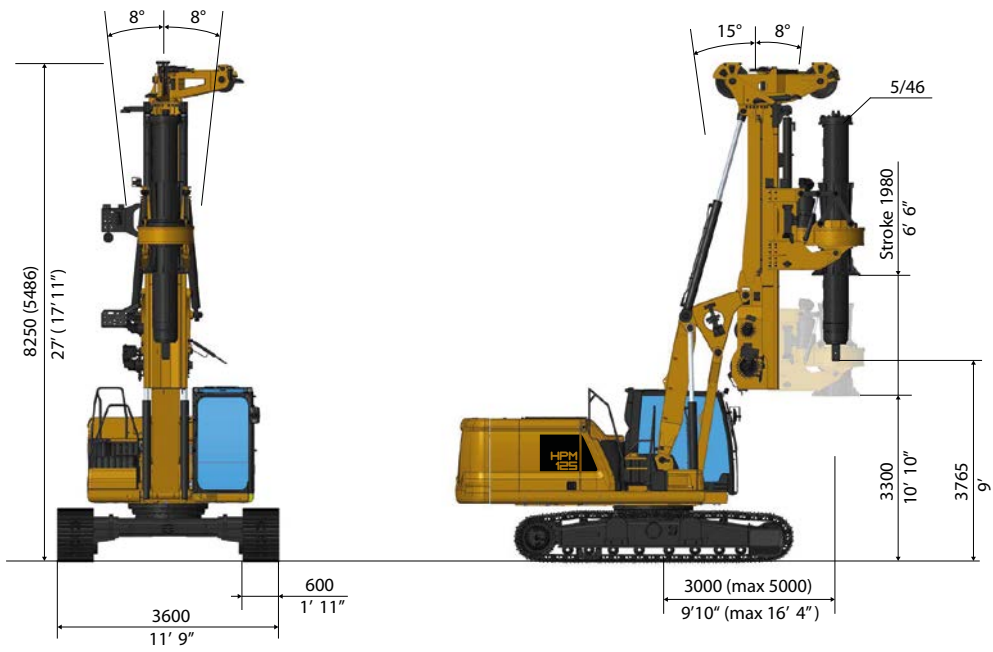
HPM 125

short mast

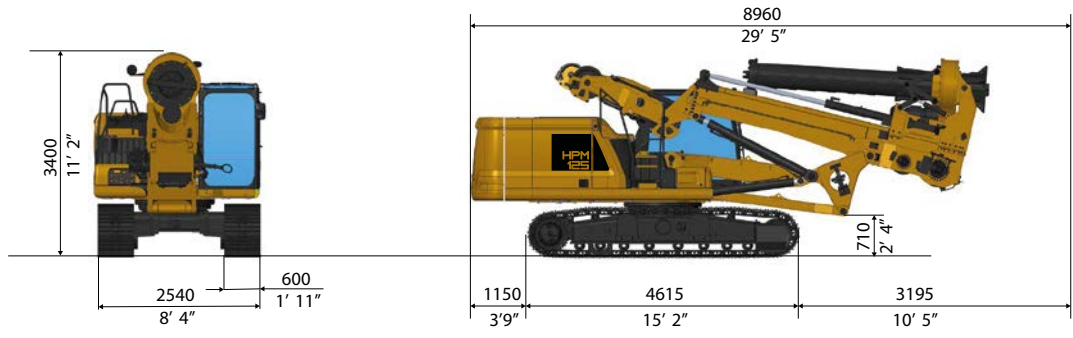
LOW OPERATING COST AND EASE OF TRASPOROT



GENERAL DIMENSIONS



TRANSPORT DIMENSIONS



BASE

Model	CAT 323	
Engine model	CAT C7.1	
Power rating ISO 14396	129 kW	173 hp
Displacement	7.01 l	428 in ³
Fuel tank	345 l	86.6 gal

UNDERCARRIAGE

Undercarriage type	Variable Width	
Width	2540-3600mm	8'4" - 11'10"
Shoe width	600mm	24"

ROTARY

Rotary torque	153 kNm	110600 lb.ft
Max effective torque	130 kNm	94000 lb.ft
Working speed	7-28 rpm	
Working gears	10	
Discharge speed	40-120 rpm	
Discharge gears	10	

MAIN WINCH

Max pull force	180 kN	40000 lbf
Starting pull force	205 kN	46000 lbf
Rope speed	70 m/min	230 ft/min
Rope diameter	24 mm	15/16"

AUXILIARY WINCH

Max pull force	75 kN	16900 lbf
Rope speed	65 m/min	215 ft/min
Rope diameter	15 mm	19/32"

CROWD SYSTEM

Crowd type	Cylinder Crowd Pull	
Pull force	270 kN	61000 lbf
Push force	180 kN	40000 lbf

DRILLING DATA

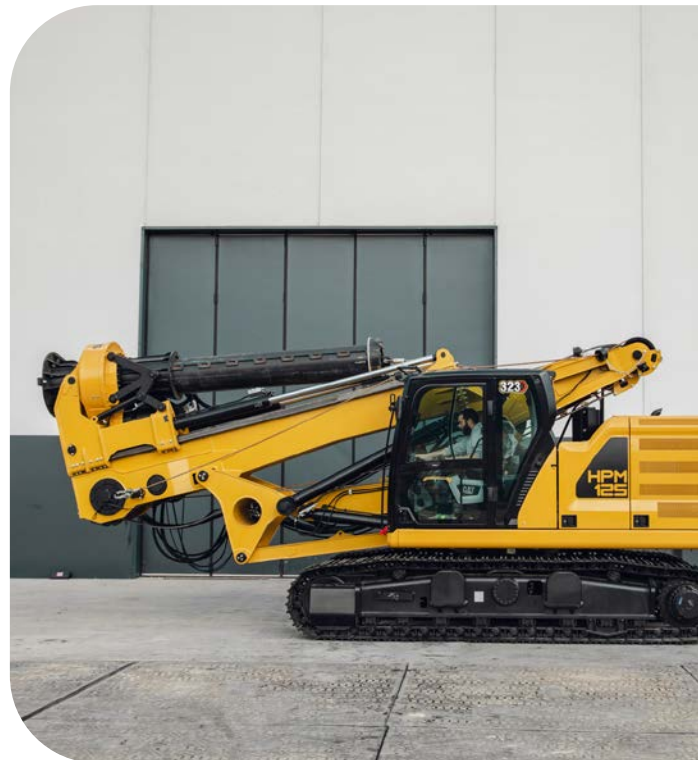
Standard kelly bar	5/46	
Drilling depth*	14.5 m	46 ft
Drilling diam. (in front of the mast)	1800 mm	6 ft
Max drilling diam. (under the mast)	3000 mm	10 ft

MAIN STANDARD EQUIPMENT

- ✓ Multifunctional HPM Computer
- ✓ Travel Alarm
- ✓ Cameras
- ✓ Automatic Mast Verticalization
- ✓ Auto Alignment with memory function
- ✓ Rotary Speed Control
- ✓ 10 Gears System
- ✓ Remote Diagnostics/Updates
- ✓ Removable Counterweight
- ✓ Extendable Undercarriage

OPTIONAL EQUIPMENT

- Aux. Swing Brake
- Casing Oscillator Predisposition
- Universal Casing Joint
- Walking Paltform
- Remote Control
- Self Erecting Counterweight
- FOPS cab
- Biodegradable Hydraulic Oil
- Central Lubrication System
- Long Mast Kit
- CFA Kit



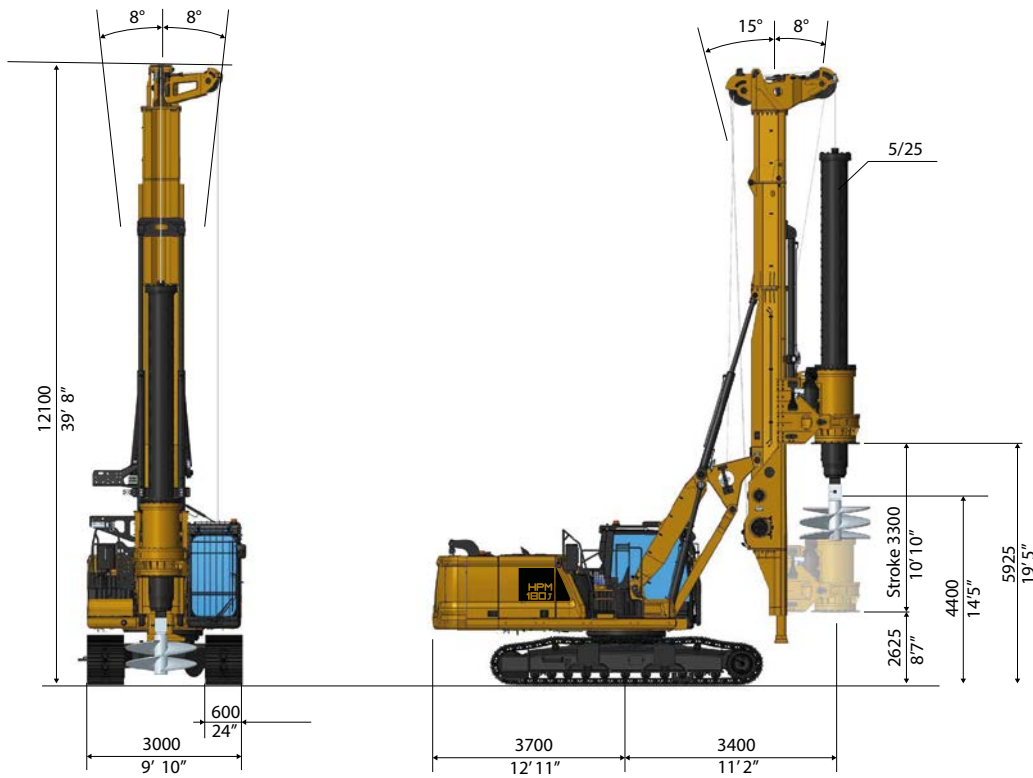
*Different Kelly-Bar available on request

HPM 180 J

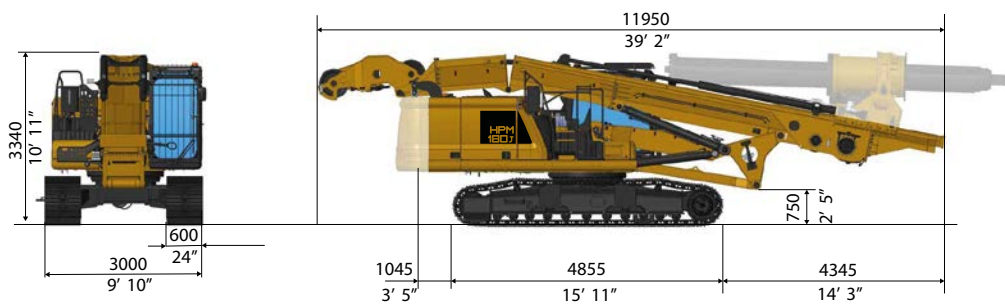
HIGH TORQUE, GREAT PULL. DRIVING CASINGS IS A PIECE OF CAKE



GENERAL DIMENSIONS



TRANSPORT DIMENSIONS



Operating Weight with 5/25 KB

43.5 ton 96000 lb

Transport Weight with w/o KB-Rotary-Counterweight

28.5 ton 63000 lb

BASE

Model	CAT 330	
Engine model	CAT C7.1	
Power rating ISO 14396	205 kW	275 hp
Displacement	7.01 l	428 in ³
Fuel tank	474 l	125.2 gal

UNDERCARRIAGE

Undercarriage type	CAT 330	
Width	3000 mm	9'10"
Shoe width	600 mm	24"

ROTARY

Rotary torque	254 kNm	188000 lb.ft
Max effective torque	216 kNm	160000 lb.ft
Working speed	9-27 rpm	
Working gears	10	
Discharge speed	45-110 rpm	
Discharge gears	10	

MAIN WINCH

Max pull force	180 kN	40000 lbf
Starting pull force	205 kN	46000 lbf
Rope speed	70 m/min	230 ft/min
Rope diameter	24 mm	15/16"

AUXILIARY WINCH

Max pull force	75 kN	16900 lbf
Rope speed	60-120 m/min	195-390 ft/min
Rope diameter	15 mm	19/32"

CROWD SYSTEM

Crowd type	Cylinder Crowd Pull	
Pull force	400 kN	90000 lbf
Push force	180 kN	40000 lbf

DRILLING DATA

Standard kelly bar	5/25	
Drilling depth*	25 m	82 ft
Drilling diam. (in front of the mast)	1800 mm	6 ft
Max drilling diam. (under the mast)	3000 mm	11 ft

MAIN STANDARD EQUIPMENT

- ✓ Multifunctional HPM Computer
- ✓ Travel Alarm
- ✓ Cameras
- ✓ Automatic Mast Verticalization
- ✓ Auto Alignment with memory function
- ✓ Rotary Speed Control
- ✓ 10 Gears System
- ✓ Remote Diagnostics/Updates
- ✓ Removable Counterweight

OPTIONAL EQUIPMENT

- Extendable Undercarriage
- Aux. Swing Brake
- Casing Oscillator Predisposition
- Universal Casing Joint
- Walking Paltform
- Remote Control
- Self Erecting Counterweight
- FOPS cab
- Biodegradable Hydraulic Oil
- Central Lubrication System
- CFA Kit
- Short Mast Kit

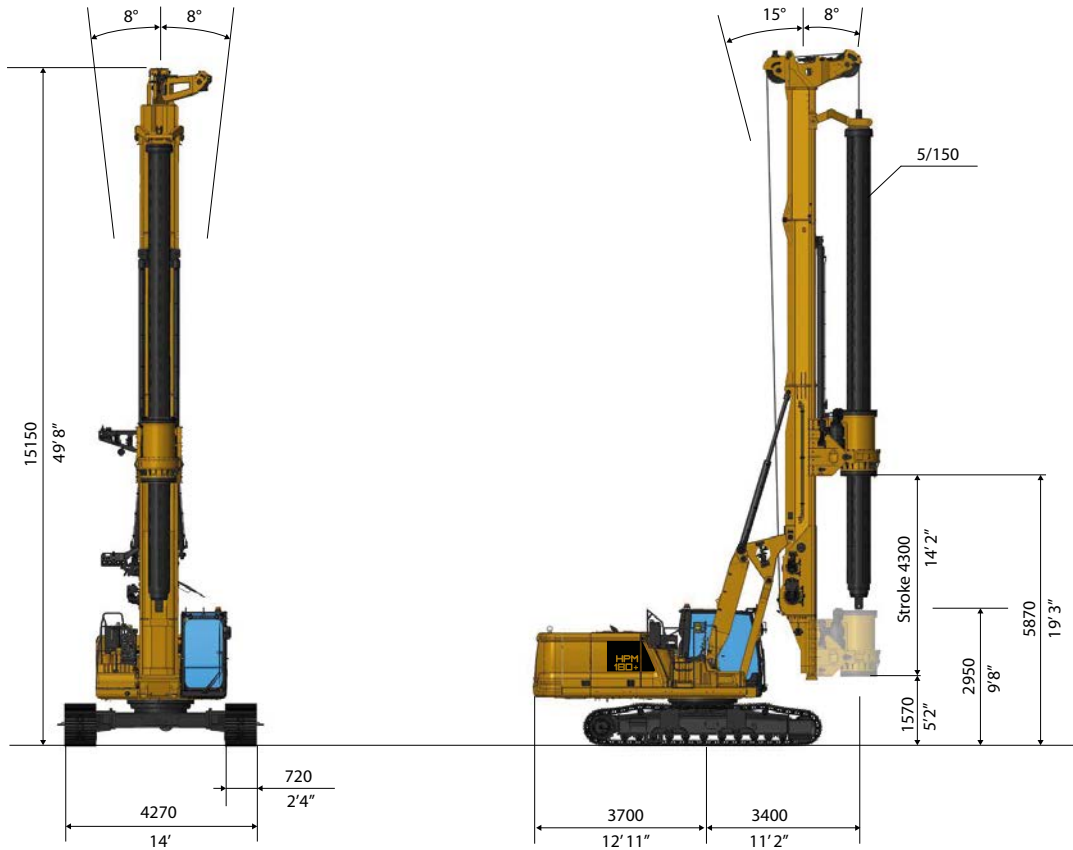


*Different Kelly-Bar available on request

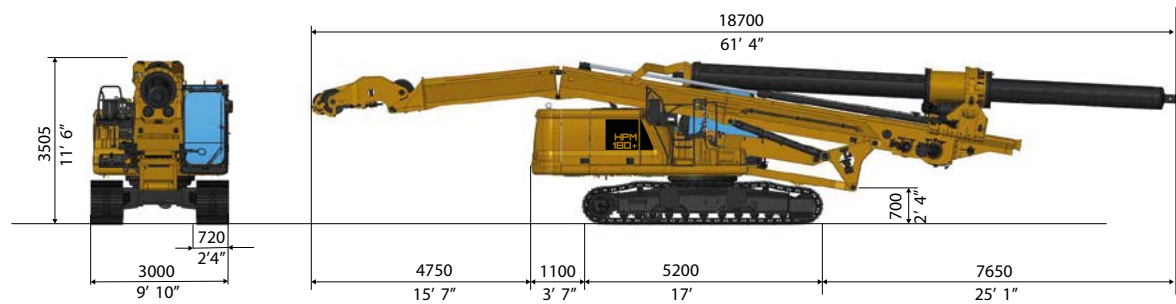
HPM 180 +

**LIKE AN HPM 180,
WITH A PLUS**

GENERAL DIMENSIONS



TRANSPORT DIMENSIONS



Operating Weight with 5/150 KB	53.7 ton	118.500 lb
Transport Weight with KB-Rotary-Counterweights	53.7 ton	118.500 lb
Kelly bar 5/150	7.6 ton	16.800 lb
CAT Counterweight	6.7 ton	14.700 lb
HPM Counterweights	2.3 ton	4980 lb
Rotary	3.8 ton	8400 lb

BASE

Model	CAT 330	
Engine model	CAT C7.1	
Power rating ISO 14396	205 kW	275 hp
Displacement	7.01 l	428 in ³
Fuel tank	474 l	125.2 gal

UNDERCARRIAGE

Undercarriage type	CAT Variable Width	
Width	3000 mm - 4270 mm	9'10"-14'
Shoe width	720 mm	2'4"

ROTARY

Rotary torque	254 kNm	188000 lb.ft
Max effective torque	216 kNm	160000 lb.ft
Working speed	9-27 rpm	
Working gears	10	
Discharge speed	45-110 rpm	
Discharge gears	10	

MAIN WINCH

Max pull force	180 kN	40000 lbf
Starting pull force	205 kN	46000 lbf
Rope speed	70 m/min	230 ft/min
Rope diameter	24 mm	15/16"

AUXILIARY WINCH

Max pull force	75 kN	16900 lbf
Rope speed	60-120 m/min	195-390 ft/min
Rope diameter	15 mm	19/32"

CROWD SYSTEM

Crowd type	Cylinder Crowd Pull	
Pull force	400 kN	90000 lbf
Push force	180 kN	40000 lbf

DRILLING DATA

Standard kelly bar	5/150	
Drilling depth*	46 m	150 ft
Drilling diam. (in front of the mast)	1800 mm	6 ft
Max drilling diam. (under the mast)	3000 mm	11 ft

MAIN STANDARD EQUIPMENT

- ✓ Multifunctional HPM Computer
- ✓ Travel Alarm
- ✓ Cameras
- ✓ Automatic Mast Verticalization
- ✓ Auto Alignment with memory function
- ✓ Rotary Speed Control
- ✓ 10 Gears System
- ✓ Remote Diagnostics/Updates
- ✓ Removable Counterweight

OPTIONAL EQUIPMENT

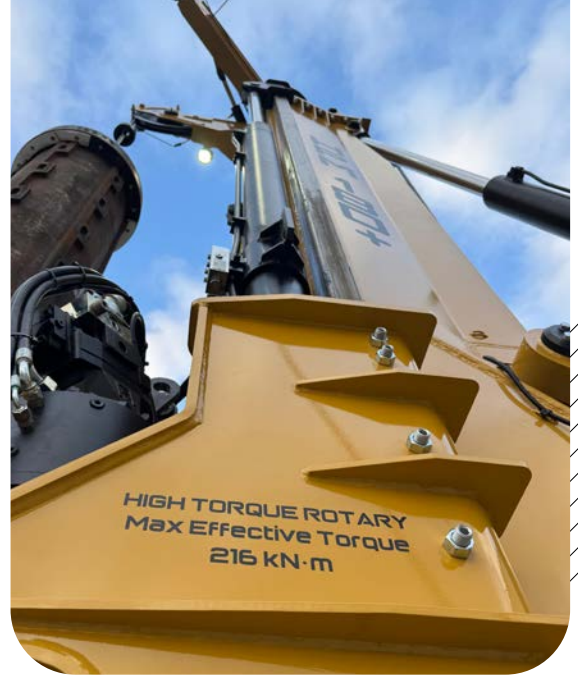
- Extendable Undercarriage
- Aux. Swing Brake
- Casing Oscillator Predisposition
- Universal Casing Joint
- Walking Paltform
- Remote Control
- Self Erecting Counterweight
- FOPS cab
- Biodegradable Hydraulic Oil
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- CFA Kit
- Short Mast Kit



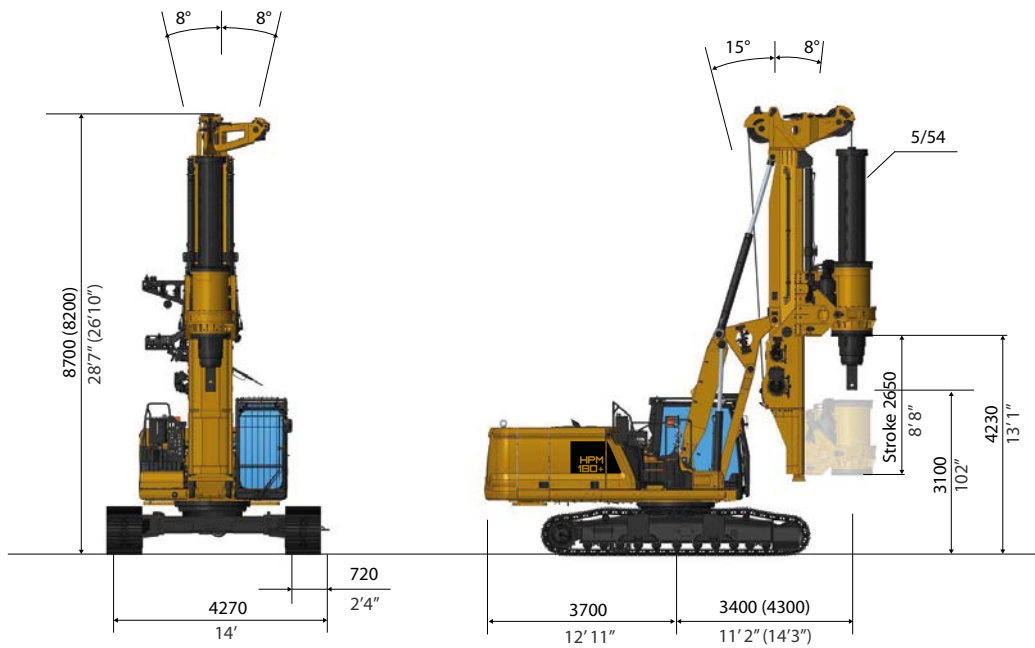
*Different Kelly-Bar available on request

HPM 180 +
short mast

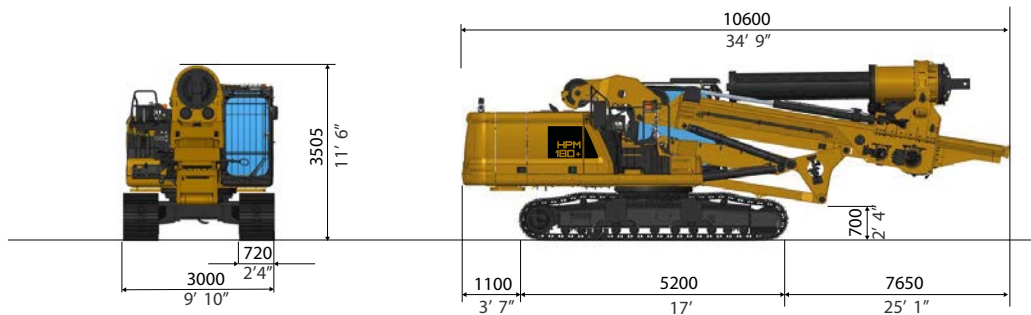
HIGH TORQUE, GREAT PULL. DRIVING CASINGS IS A PIECE OF CAKE



GENERAL DIMENSIONS



TRANSPORT DIMENSIONS



BASE

Model	CAT 330 NGH	
Engine model	CAT C7.1	
Power rating ISO 14396	205 kW	275 hp
Displacement	7.01 l	428 in ³
Fuel tank	474 l	125.2 gal

UNDERCARRIAGE

Undercarriage type	CAT Variable Width	
Width	3000 mm - 4270 mm	9'10"-14'
Shoe width	720 mm	2'4"

ROTARY

Rotary torque	254 kNm	188000 lb.ft
Max effective torque	216 kNm	160000 lb.ft
Working speed	9-27 rpm	
Working gears	10	
Discharge speed	45-110 rpm	
Discharge gears	10	

MAIN WINCH

Max pull force	180 kN	40000 lbf
Starting pull force	205 kN	46000 lbf
Rope speed	70 m/min	230 ft/min
Rope diameter	24 mm	15/16"

AUXILIARY WINCH

Max pull force	75 kN	16900 lbf
Rope speed	60-120 m/min	195-390 ft/min
Rope diameter	15 mm	19/32"

CROWD SYSTEM

Crowd type	Cylinder Crowd Pull	
Pull force	400 kN	90000 lbf
Push force	180 kN	40000 lbf

DRILLING DATA

Standard kelly bar	5/54	
Drilling depth*	16.5 m	54 ft
Drilling depth with 6/70 KB	21 m	70 ft
Drilling diam. (in front of the mast)	1800 mm	6 ft
Max drilling diam. (under the mast)	3000 mm	11 ft

MAIN STANDARD EQUIPMENT

- ✓ Multifunctional HPM Computer
- ✓ Travel Alarm
- ✓ Cameras
- ✓ Automatic Mast Verticalization
- ✓ Auto Alignment with memory function
- ✓ Rotary Speed Control
- ✓ 10 Gears System
- ✓ Remote Diagnostics/Updates
- ✓ Removable Counterweight

OPTIONAL EQUIPMENT

- Extendable Undercarriage
- Aux. Swing Brake
- Casing Oscillator Predisposition
- Universal Casing Joint
- Walking Paltform
- Remote Control
- Self Erecting Counterweight
- FOPS cab
- Biodegradable Hydraulic Oil
- Central Lubrication System



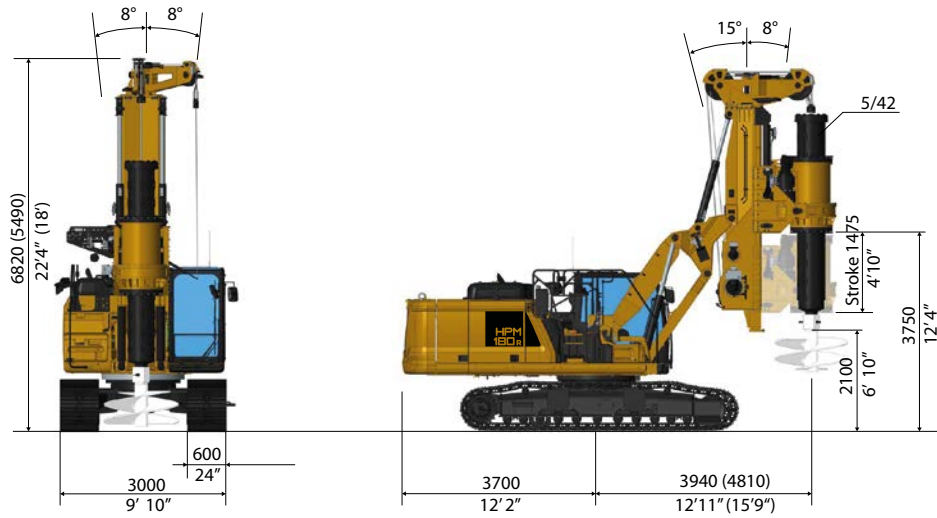
*Different Kelly-Bar available on request

HPM 180 R

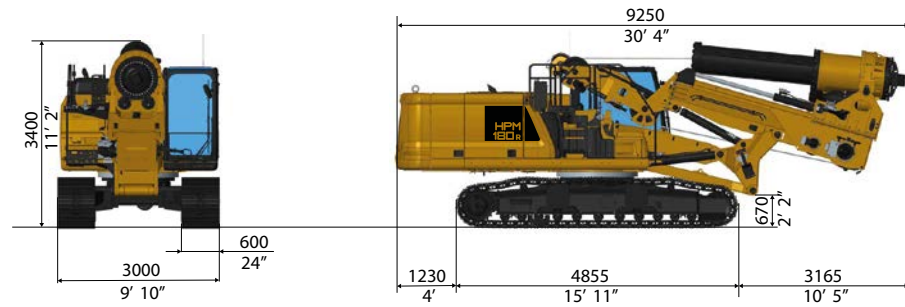
**BEST TORQUE/WEIGHT RATIO
IN ITS CLASS**



GENERAL DIMENSIONS



TRANSPORT DIMENSIONS



BASE

Model	CAT 330	
Engine model	CAT C7.1	
Power rating ISO 14396	205 kW	275 hp
Displacement	7.01 l	428 in ³
Fuel tank	474 l	125.2 gal

UNDERCARRIAGE

Undercarriage type	CAT 330	
Width	3000 mm	9'10"
Shoe width	600mm	24"

ROTARY

Rotary torque	254 kNm	188000 lb.ft
Max effective torque	216 kNm	160000 lb.ft
Working speed	9-27 rpm	
Working gears	10	
Discharge speed	45-110 rpm	
Discharge gears	10	

MAIN WINCH

Max pull force	180 kN	40000 lbf
Starting pull force	205 kN	46000 lbf
Rope speed	70 m/min	230 ft/min
Rope diameter	24 mm	15/16"

AUXILIARY WINCH

Max pull force	75 kN	16900 lbf
Rope speed	80 m/min	260 ft/min
Rope diameter	15 mm	19/32"

CROWD SYSTEM

Crowd type	Cylinder Crowd Pull	
Pull force	310 kN	70000 lbf
Push force	180 kN	40000 lbf

DRILLING DATA

Standard kelly bar	5/42	
Drilling depth*	13 m	42 ft
Drilling diam. (in front of the mast)	1800 mm	6 ft
Max drilling diam. (under the mast)	3000 mm	11 ft

MAIN STANDARD EQUIPMENT

- ✓ Multifunctional HPM Computer
- ✓ Travel Alarm
- ✓ Cameras
- ✓ Automatic Mast Verticalization
- ✓ Auto Alignment with memory function
- ✓ Rotary Speed Control
- ✓ 10 Gears System
- ✓ Remote Diagnostics/Updates
- ✓ Removable Counterweight

OPTIONAL EQUIPMENT

- Extendable Undercarriage
- Aux. Swing Brake
- Casing Oscillator Predisposition
- Universal Casing Joint
- Walking Paltform
- Remote Control
- Self Erecting Counterweight
- FOPS cab
- Biodegradable Hydraulic Oil
- Central Lubrication System
- Long Mast Kit
- CFA Kit



*Different Kelly-Bar available on request

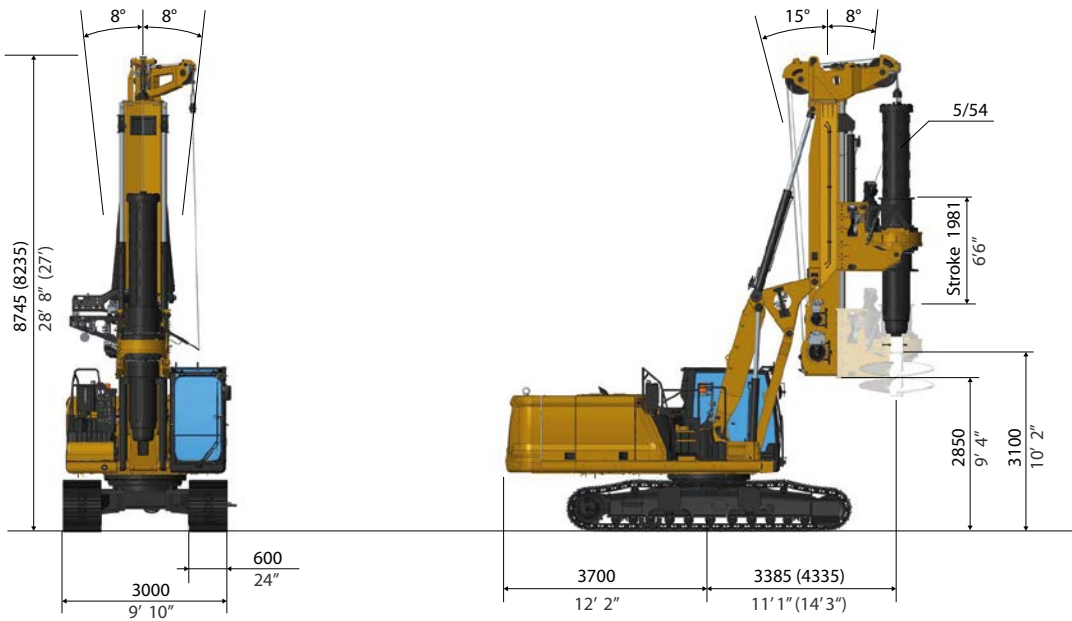
HPM 180

short mast

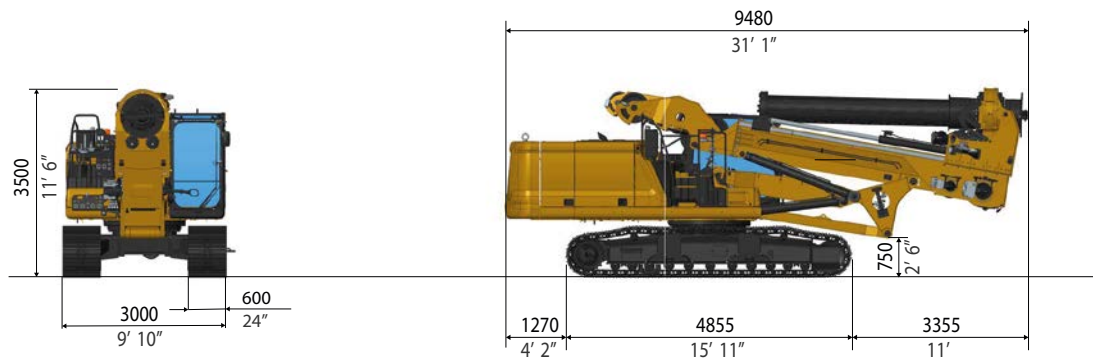
BUILT FOR POWER LINES AND SUBSTATIONS



GENERAL DIMENSIONS



TRANSPORT DIMENSIONS



BASE

Model	CAT 330	
Engine model	CAT C7.1	
Power rating ISO 14396	205 kW	275 hp
Displacement	7.01 l	428 in ³
Fuel tank	474 l	125.2 gal

UNDERCARRIAGE

Undercarriage type	CAT 330	
Width	3000 mm	9'10"
Shoe width	600 mm	24"

ROTARY

Rotary torque	211 kNm	155000 lb.ft
Max effective torque	180 kNm	132000 lb.ft
Working speed	7-33 rpm	
Working gears	10	
Discharge speed	120 rpm	
Discharge gears	10	

MAIN WINCH

Max pull force	180 kN	40000 lbf
Starting pull force	205 kN	46000 lbf
Rope speed	70 m/min	230 ft/min
Rope diameter	24 mm	15/16"

AUXILIARY WINCH

Max pull force	75 kN	16900 lbf
Rope speed	80 m/min	260 ft/min
Rope diameter	15 mm	19/32"

CROWD SYSTEM

Crowd type	Cylinder Crowd Pull	
Pull force	310 kN	70000 lbf
Push force	180 kN	40000 lbf

DRILLING DATA

Standard kelly bar	5/54	
Drilling depth*	17 m	54 ft
Drilling diam. (in front of the mast)	1800 mm	6 ft
Max drilling diam. (under the mast)	3000 mm	11 ft

MAIN STANDARD EQUIPMENT

- ✓ Multifunctional HPM Computer
- ✓ Travel Alarm
- ✓ Cameras
- ✓ Automatic Mast Verticalization
- ✓ Auto Alignment with memory function
- ✓ Rotary Speed Control
- ✓ 10 Gears System
- ✓ Remote Diagnostics/Updates
- ✓ Removable Counterweight

OPTIONAL EQUIPMENT

- Aux. Swing Brake
- Casing Oscillator Predisposition
- Universal Casing Joint
- Walking Platform
- Remote Control
- Self Erecting Counterweight
- FOPS cab
- Biodegradable Hydraulic Oil
- Central Lubrication System
- Extendable Undercarriage

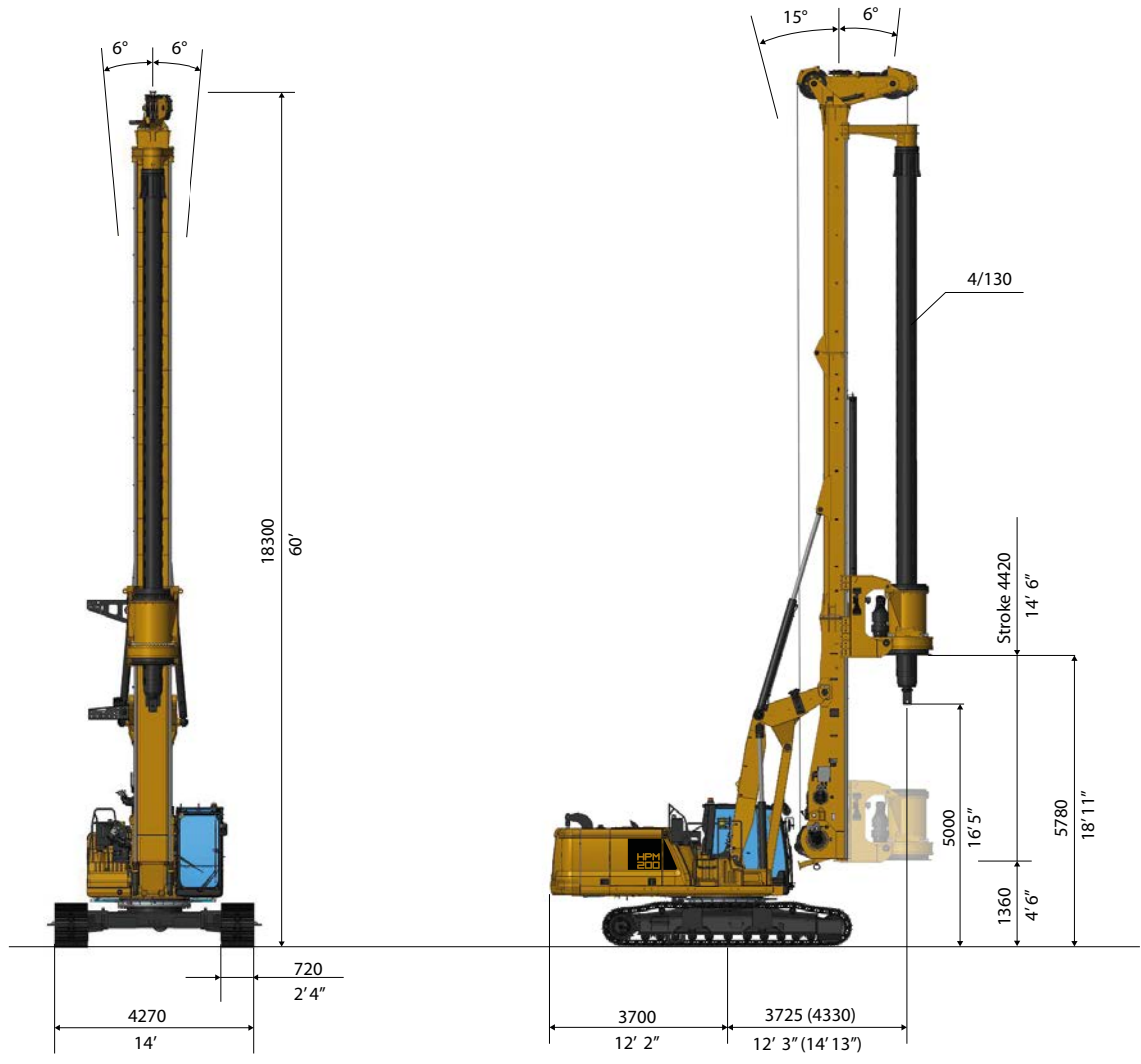


*Different Kelly-Bar available on request

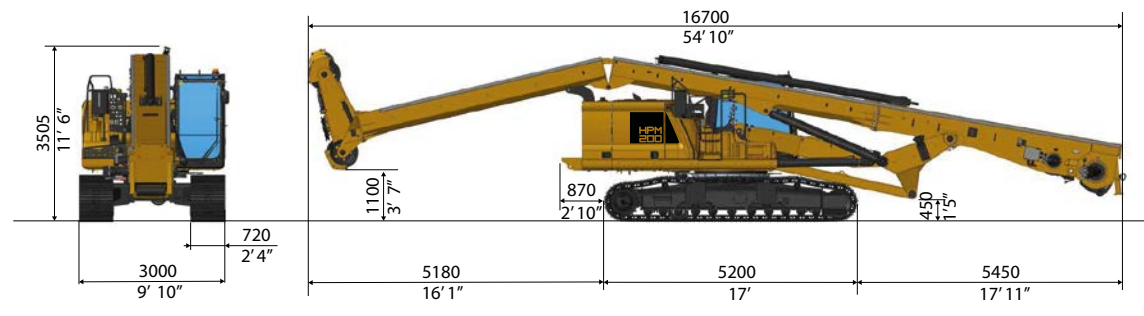
HPM 200

TWO HUNDRED FIFTY-ONE IS THE TORQUE, THE EFFECTIVE TORQUE

GENERAL DIMENSIONS



TRANSPORT DIMENSIONS



Operating Weight with 4/130 KB 58.2 ton 128300 lb

Transport Weight with KB-Rotary-Counterweight 36.5 ton 80500 lb

BASE

Model	CAT 330	
Engine model	CAT C7.1	
Power rating ISO 14396	205 kW	275 hp
Displacement	7.01 l	428 in ³
Fuel tank	474 l	125.2 gal

UNDERCARRIAGE

Undercarriage type	Variable Width	
Width	3000 mm - 4270 mm	9'10"-14'
Shoe width	720 mm	2'4"

ROTARY

Rotary torque	295 kNm	217500 lb.ft
Max effective torque	251kNm	185000 lb.ft
Working speed	9-24 rpm	
Working gears	10	
Discharge speed	50-120 rpm	
Discharge gears	10	

MAIN WINCH

Max pull force	230 kN	51700 lbf
Starting pull force	250 kN	56200 lbf
Rope speed	70 m/min	230 ft/min
Rope diameter	28 mm	1 1/8"

AUXILIARY WINCH

Max pull force	115 kN	26000 lbf
Rope speed	55 m/min	180 ft/min
Rope diameter	22 mm	7/8"

CROWD SYSTEM

Crowd type	Cylinder Crowd Pull	
Pull force	310 kN	70000 lbf
Push force	200 kN	45000 lbf

DRILLING DATA

Standard kelly bar	4/120	
Drilling depth*	36 m	120 ft
Drilling diam. (in front of the mast)	2400 mm	8 ft
Max drilling diam. (under the mast)	4000 mm	13 ft

MAIN STANDARD EQUIPMENT

- ✓ Multifunctional HPM Computer
- ✓ Travel Alarm
- ✓ Cameras
- ✓ Automatic Mast Verticalization
- ✓ Auto Alignment with memory function
- ✓ Rotary Speed Control
- ✓ 10 Gears System
- ✓ Remote Diagnostics/Updates
- ✓ Removable Counterweight
- ✓ Extendable Undercarriage

OPTIONAL EQUIPMENT

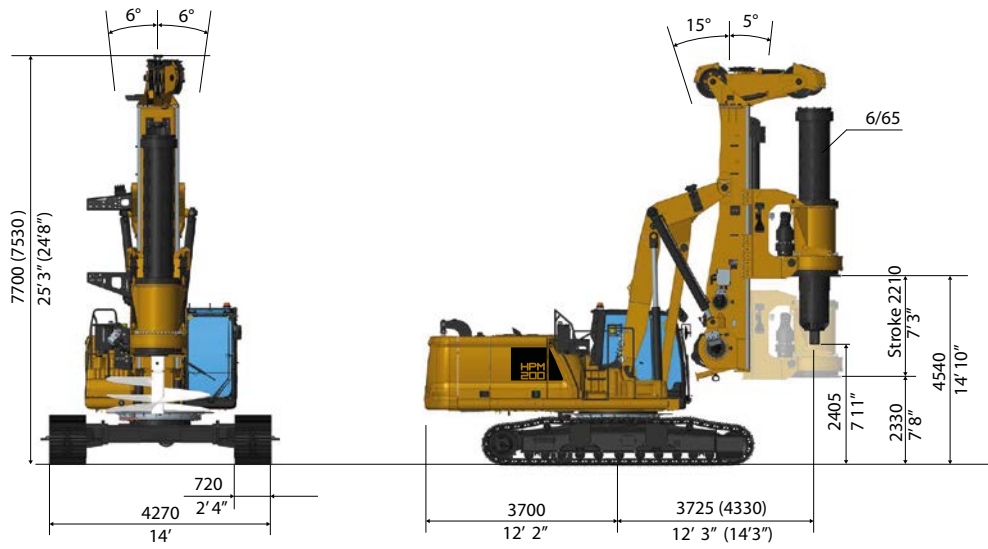
- Winch Crowd System
- Aux. Swing Brake
- Casing Oscillator Predisposition
- Universal Casing Joint
- Walking Paltform
- Remote Control
- Self Erecting Counterweight
- Biodegradable Hydraulic Oil
- Central Lubrication System
- CFA Kit
- Low Headroom Kit



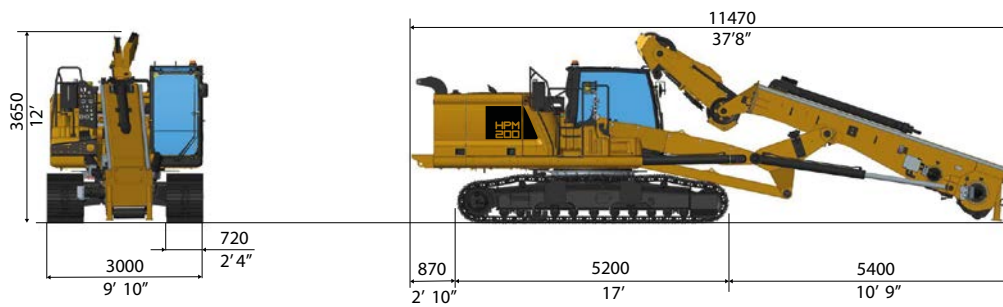
*Different Kelly-Bar available on request



GENERAL DIMENSIONS



TRANSPORT DIMENSIONS



Operating Weight Wheight with 6/65 KB

48.2 ton 106200 lb

Transport Weight with KB-Rotary-Counterweight

33 ton 73400 lb

BASE

Model	CAT 330	
Engine model	CAT C7.1	
Power rating ISO 14396	205 kW	275 hp
Displacement	7.01 l	428 in ³
Fuel tank	474 l	125.2 gal

UNDERCARRIAGE

Undercarriage type	Variable Width	
Width	3000 mm - 4270 mm	9'10"-14'
Shoe width	720 mm	2'4"

ROTARY

Rotary torque	295 kNm	217500 lb.ft
Max effective torque	251kNm	185000 lb.ft
Working speed	9-24 rpm	
Working gears	10	
Discharge speed	50-120 rpm	
Discharge gears	10	

MAIN WINCH

Max pull force	230 kN	51700 lbf
Starting pull force	250 kN	56200 lbf
Rope speed	70 m/min	230 ft/min
Rope diameter	28 mm	1 1/8"

AUXILIARY WINCH

Max pull force	115 kN	26000 lbf
Rope speed	55 m/min	180 ft/min
Rope diameter	22 mm	7/8"

CROWD SYSTEM

Crowd type	Cylinder Crowd Pull	
Pull force	310 kN	70000 lbf
Push force	200 kN	45000 lbf

DRILLING DATA

Standard kelly bar	6/65	
Drilling depth*	20 m	65 ft
Drilling diam. (in front of the mast)	2400 mm	8 ft
Max drilling diam. (under the mast)	4000 mm	13 ft

MAIN STANDARD EQUIPMENT

- ✓ Multifunctional HPM Computer
- ✓ Travel Alarm
- ✓ Cameras
- ✓ Automatic Mast Verticalization
- ✓ Auto Alignment with memory function
- ✓ Rotary Speed Control
- ✓ 10 Gears System
- ✓ Remote Diagnostics/Updates
- ✓ Removable Counterweight
- ✓ Extendable Undercarriage

OPTIONAL EQUIPMENT

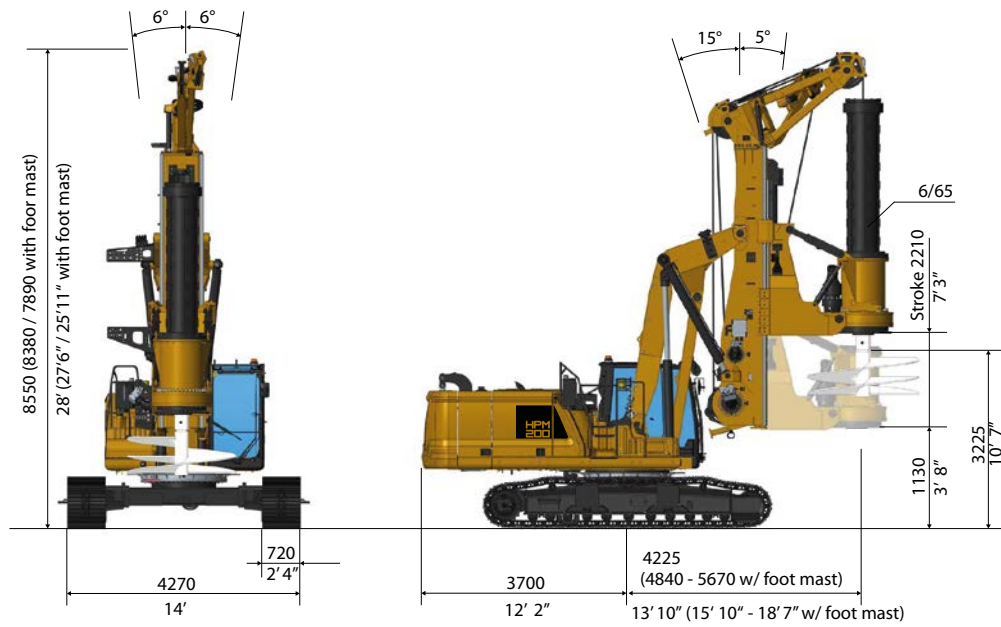
- Aux. Swing Brake
- Casing Oscillator Predisposition
- Universal Casing Joint
- Walking Platform
- Remote Control
- Self Erecting Counterweight
- Biodegradable Hydraulic Oil
- Central Lubrication System
- Long Mast Kit



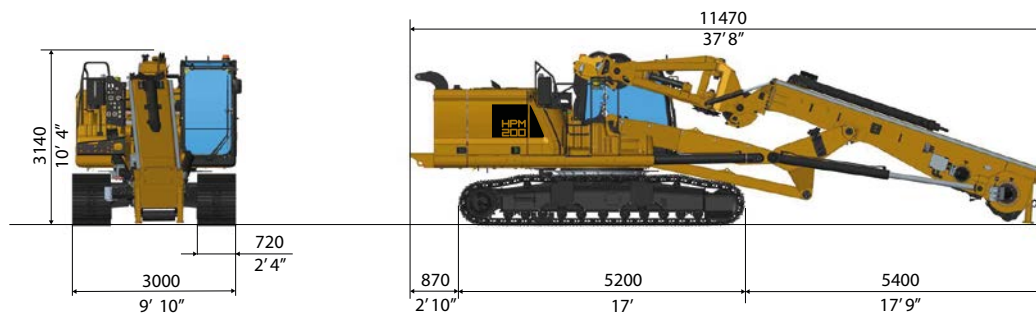
*Different Kelly-Bar available on request



GENERAL DIMENSIONS



TRANSPORT DIMENSIONS



Operating Weight Wheight with 4/130 KB

58.2 ton 128300 lb

Transport Weight with KB-Rotary-Counterweight

36.5 ton 80500 lb

BASE

Model	CAT 330	
Engine model	CAT C7.1	
Power rating ISO 14396	205 kW	275 hp
Displacement	7.01 l	428 in ³
Fuel tank	474 l	125.2 gal

UNDERCARRIAGE

Undercarriage type	Variable Width	
Width	3000 mm - 4270 mm	9'10"-14'
Shoe width	720 mm	2'4"

ROTARY

Rotary torque	295 kNm	217500 lb.ft
Max effective torque	251kNm	185000 lb.ft
Working speed	9-24 rpm	
Working gears	10	
Discharge speed	50-120 rpm	
Discharge gears	10	

MAIN WINCH

Max pull force	230 kN	51700 lbf
Starting pull force	250 kN	56200 lbf
Rope speed	70 m/min	230 ft/min
Rope diameter	28 mm	1 1/8"

AUXILIARY WINCH

Max pull force	115 kN	26000 lbf
Rope speed	55 m/min	180 ft/min
Rope diameter	22 mm	7/8"

CROWD SYSTEM

Crowd type	Cylinder Crowd Pull	
Pull force	310 kN	70000 lbf
Push force	200 kN	45000 lbf

DRILLING DATA

Standard kelly bar	6/65	
Drilling depth*	20 m	65 ft
Drilling diam. (in front of the mast)	3350 mm	11 ft
Max drilling diam. (under the mast)	4570 mm	15 ft

MAIN STANDARD EQUIPMENT

- ✓ Multifunctional HPM Computer
- ✓ Travel Alarm
- ✓ Cameras
- ✓ Automatic Mast Verticalization
- ✓ Auto Alignment with memory function
- ✓ Rotary Speed Control
- ✓ 10 Gears System
- ✓ Remote Diagnostics/Updates
- ✓ Removable Counterweight
- ✓ Extendable Undercarriage

OPTIONAL EQUIPMENT

- Aux. Swing Brake
- Casing Oscillator Predisposition
- Universal Casing Joint
- Walking Platform
- Remote Control
- Self Erecting Counterweight
- Biodegradable Hydraulic Oil
- Central Lubrication System
- Long Mast Kit (8')

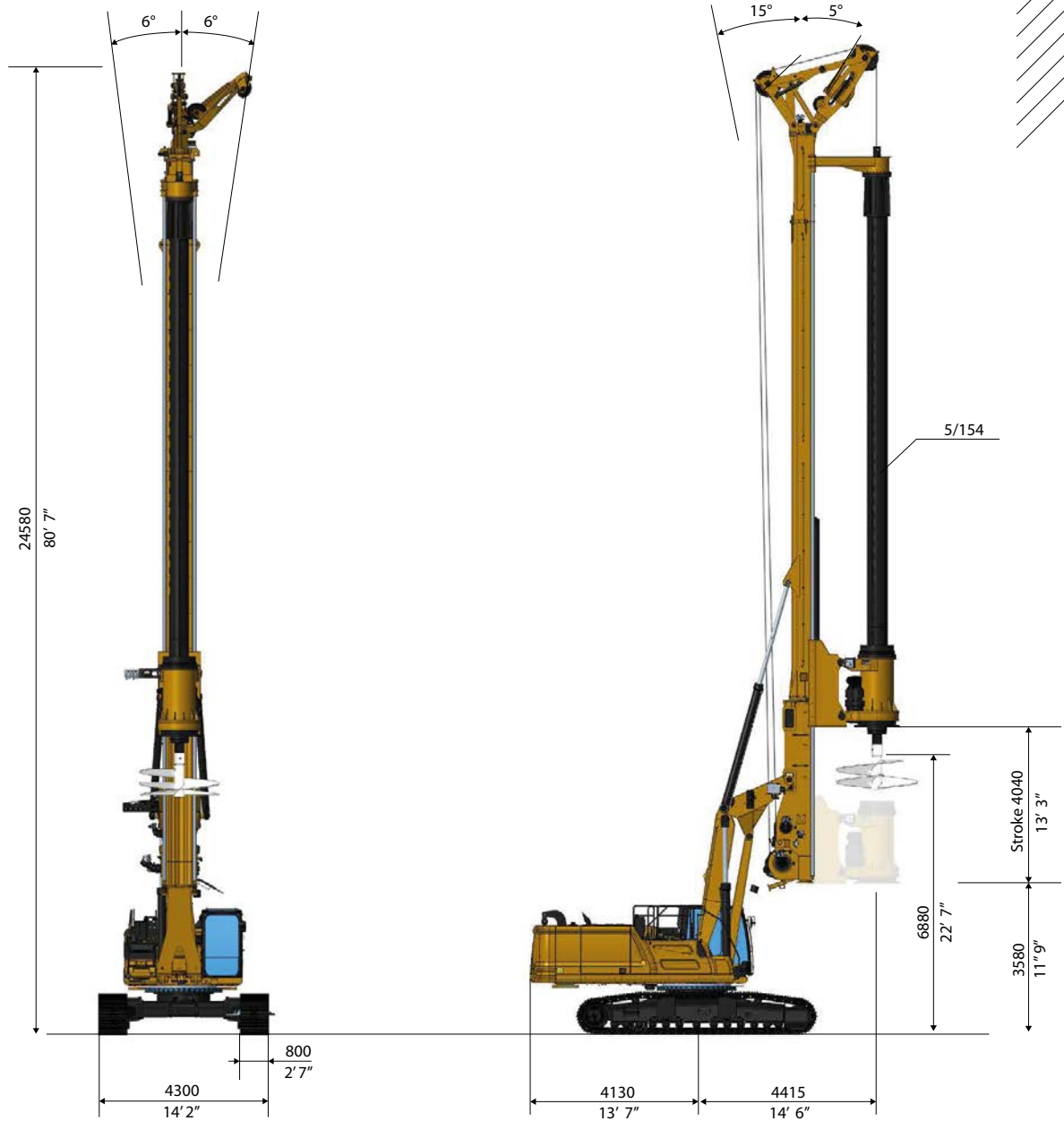


*Different Kelly-Bar available on request

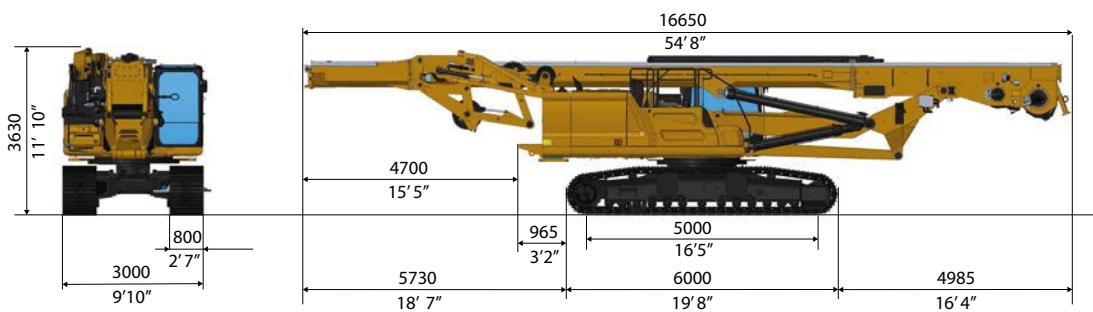
HPM 250

**ENGINEERED TO PERFORM,
BUILT TO LAST.**

GENERAL DIMENSIONS



TRANSPORT DIMENSIONS



Operating Weight with 5/154 KB

84 ton 18500 lb

Transport Weight Without KB, rotary, counterweights

54.7 ton 120000 lb

BASE

Model	CAT 340	
Engine model	CAT C9.3B	
Power rating ISO 14396	258 kW	346 hp
Displacement	9.3 l	568 in ³
Fuel tank	600 l	158.5 gal

UNDERCARRIAGE

Undercarriage type	CAT Variable Width	
Width	3000/4300 mm	9'10"-14'2"
Shoe width	800 mm	2'7"

ROTARY

Rotary torque	370 kNm	273000 lb.ft
Max effective torque	315 kNm	232000 lb.ft
Working speed	9-24 rpm	
Working gears	10	
Discharge speed	50-120 rpm	
Discharge gears	10	

MAIN WINCH

Max pull force	230 kN	51700 lbf
Starting pull force	250 kN	56200 lbf
Rope speed	70 m/min	230 ft/min
Rope diameter	28 mm	1 1/8"

AUXILIARY WINCH

Max pull force	115 kN	26000 lbf
Rope speed	55 m/min	180 ft/min
Rope diameter	22 mm	7/8"

CROWD SYSTEM

Crowd type	Cylinder Crowd Pull	
Pull force	400 kN	90000 lbf
Push force	330 kN	74000 lbf

DRILLING DATA

Standard kelly bar	4/160	
Drilling depth*	49 m	160 ft
Drilling diam. (in front of the mast)	3050 mm	10 ft
Max drilling diam. (under the mast)	4000 mm	13 ft

MAIN STANDARD EQUIPMENT

- ✓ Multifunctional HPM Computer
- ✓ Travel Alarm
- ✓ Cameras
- ✓ Automatic Mast Verticalization
- ✓ Auto Alignment with memory function
- ✓ Rotary Speed Control
- ✓ 10 Gears System
- ✓ Remote Diagnostics/Updates
- ✓ Removable Counterweight
- ✓ Extendable Undercarriage

OPTIONAL EQUIPMENT

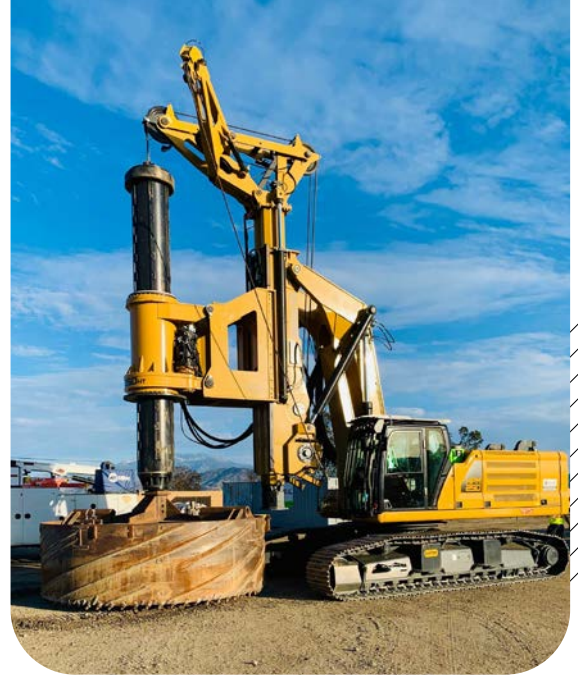
- Winch Crowd System
- Aux. Swing Brake
- Casing Oscillator Predisposition
- Universal Casing Joint
- Walking Paltform
- Remote Control
- Self Erecting Counterweight
- Biodegradable Hydraulic Oil
- Central Lubrication System
- CFA Kit
- Short Mast Kit (8'-13')



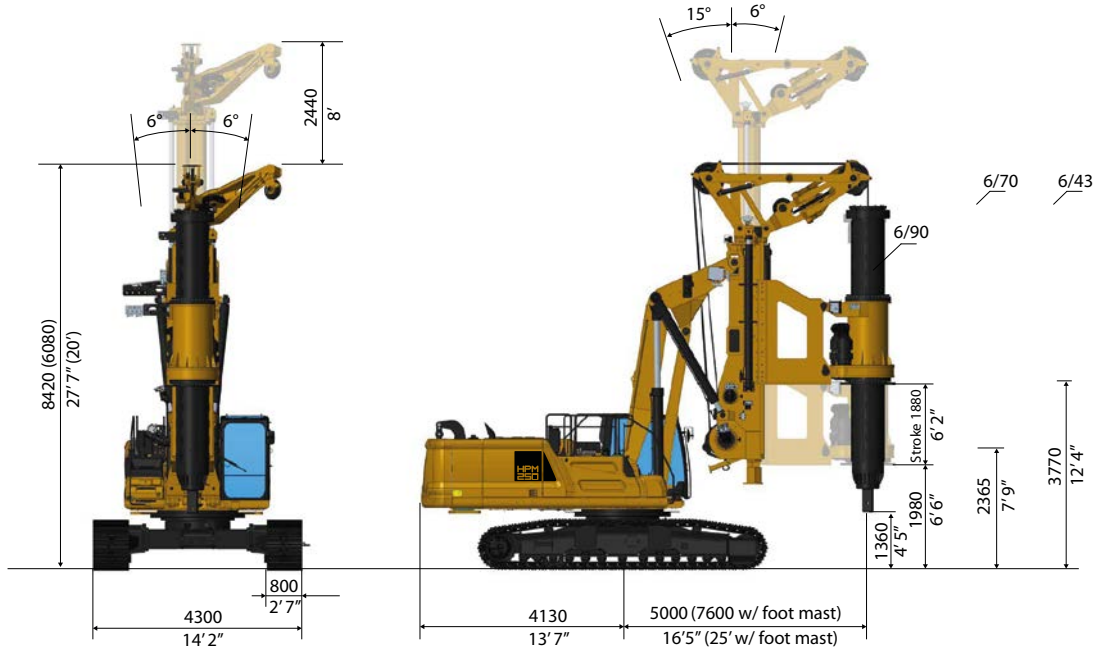
*Different Kelly-Bar available on request

HPM 250
13' telescopic mast

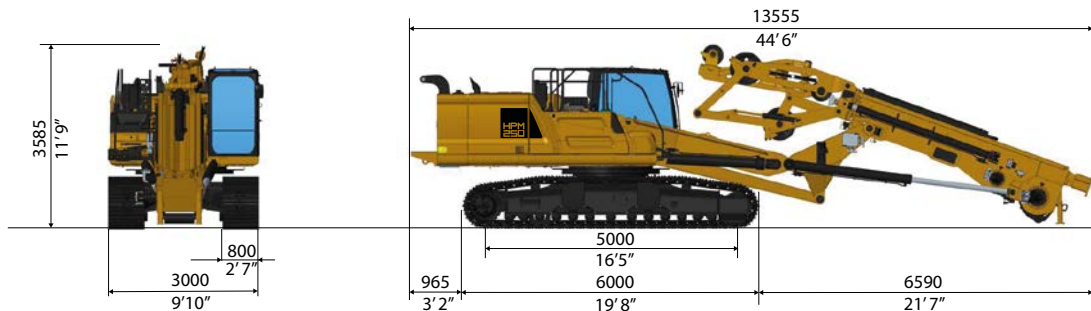
**GREAT TORQUE ON
A COMPACT
SIZE EQUIPMENT.**



GENERAL DIMENSIONS



TRANSPORT DIMENSIONS



Operating Weight with 6/90 KB

73.4 ton 162000 lb

Transport Weight Without KB, rotary, counterweights

51 ton 112400 lb

BASE

Model	CAT 340	
Engine model	CAT C9.3B	
Power rating ISO 14396	258 kW	346 hp
Displacement	9.3 l	568 in ³
Fuel tank	600 l	158.5 gal

UNDERCARRIAGE

Undercarriage type	CAT Variable Width	
Width	3000/4300 mm	9'10"-14'2"
Shoe width	800 mm	2'7"

ROTARY

Rotary torque	370 kNm	273000 lb.ft
Max effective torque	315 kNm	232000 lb.ft
Working speed	9-24 rpm	
Working gears	10	
Discharge speed	50-120 rpm	
Discharge gears	10	

MAIN WINCH

Max pull force	230 kN	51700 lbf
Starting pull force	250 kN	56200 lbf
Rope speed	70 m/min	230 ft/min
Rope diameter	28 mm	1 1/8"

AUXILIARY WINCH

Max pull force	115 kN	26000 lbf
Rope speed	55 m/min	180 ft/min
Rope diameter	22 mm	7/8"

CROWD SYSTEM

Crowd type	Cylinder Crowd Pull	
Pull force	400 kN	90000 lbf
Push force	330 kN	74000 lbf

DRILLING DATA

Standard kelly bar	6/90	
Drilling depth*	27.5 m	90 ft
Drilling diam. (in front of the mast)	4000 mm	13 ft
Max drilling diam. (under the mast)	5500 mm	18 ft

MAIN STANDARD EQUIPMENT

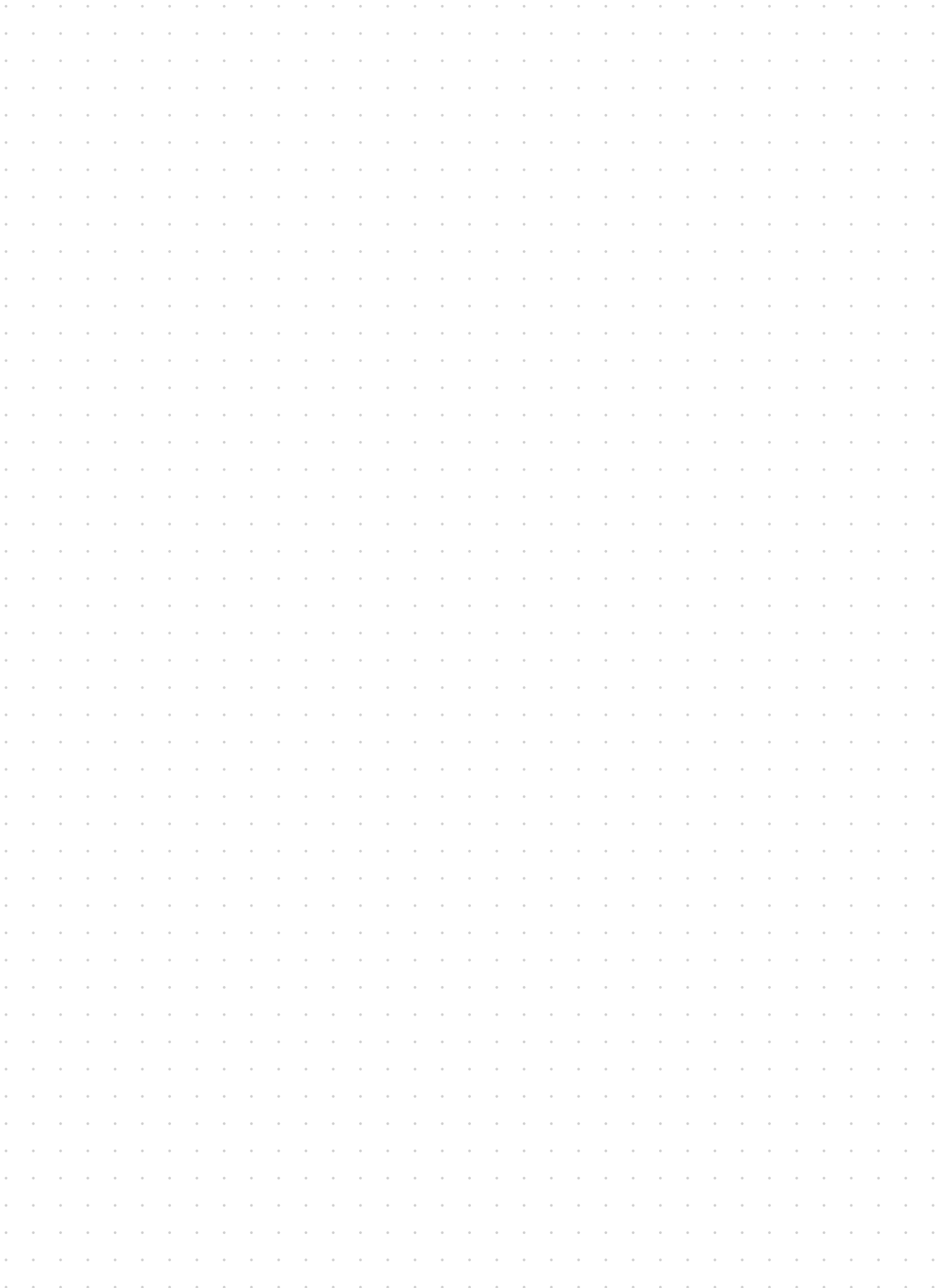
- ✓ Multifunctional HPM Computer
- ✓ Travel Alarm
- ✓ Cameras
- ✓ Automatic Mast Verticalization
- ✓ Auto Alignment with memory function
- ✓ Rotary Speed Control
- ✓ 10 Gears System
- ✓ Remote Diagnostics/Updates
- ✓ Removable Counterweight
- ✓ Extendable Undercarriage

OPTIONAL EQUIPMENT

- Aux. Swing Brake
- Casing Oscillator Predisposition
- Universal Casing Joint
- Walking Paltform
- Remote Control
- Self Erecting Counterweight
- FOPS cab
- Biodegradable Hydraulic Oil
- Central Lubrication System



*Different Kelly-Bar available on request



Design developments and process improvements may require the specifications and materials to be updated and changed without prior notice or liability.

These and the technical data are provided as indicative information only, with any errors and misprints reserved.



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