

DRILLING RIGS S-SERIES

★ Sunward Subsidiaries
○ Sunward Dealers
⊕ Sunward Service Centers
⚡ AVMAX Service Outlets

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DEALER CONTACTS

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SWDM80S Field King Kong

- ◆ Operating weight: 27t
- ◆ Engine power: 90kW/2200rpm
- ◆ Max. drilling diameter: 1200 mm

“Field King Kong” is suitable for housing construction, for industrial plants, and micro piles in narrow spaces.

Mobility and flexibility

Small turning radius - adapts to narrow construction spaces.

Easy transfer

- Transport of the entire rig with the kelly, without exceeding the transport limit.
- Swift transition between drilling and transport, leading to cost savings.
- A single button controls the raising and lowering of the mast, streamlining operations.

Boosted Efficiency and Unmatched Productivity

- High speed rotary.
- Fast main winch line speed.
- High productivity in comprehensive construction operations.

Environment Protection & Energy

- Advanced Cummins engine.
- Low noise levels.
- Low fuel consumption.

Exceptional Service Quality

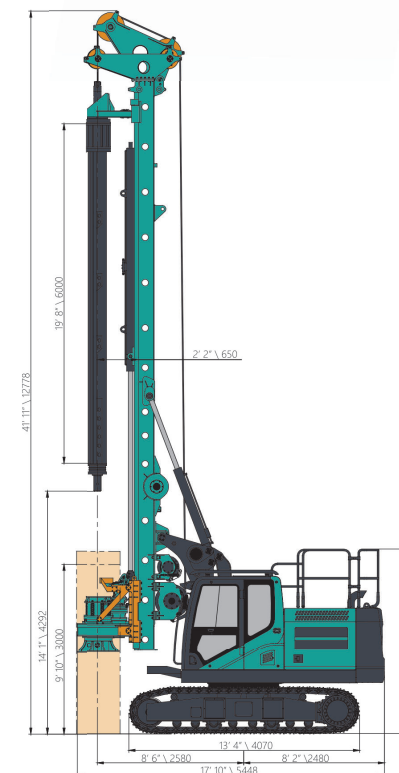
- Swift Technical Support.
- Responsive After-Sales Service.
- Efficient Parts Assistance.



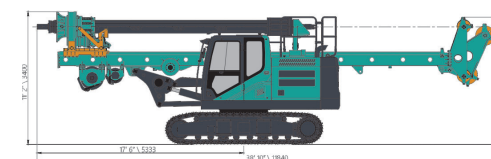
TECHNICAL PARAMETERS

	DESCRIPTION	PARAMETERS	
DRILLING	Max. drilling diameter	1200mm	3ft11in
	Max. drilling depth	33 m / 26 m	108 ft / 85 ft
ENGINE	Brand	Cummins	Cummins
	Mode	F3.8	F3.8
	Rated power	90 kW / 2200 rpm	121hp
ROTARY	Max torque	80kNm	59003lbf.ft
	Speed of rotation	8-35rpm	8-35rpm
	High speed spin-off	60rpm	60rpm
MAIN WINCH	Max. pulling force	80kN	17984lbf
	Max. line speed	72m/min	234ft/min
	Rope diameter	20mm	0.8in
CROWD	Max. crowd force	100kN	22480lbf
	Max. pulling force	130kN	29225lbf
	Max. stroke	3500mm	11 ft 5 in
AUXILIARY WINCH	Max. pulling force	30kN	6744lbf
	Max. line speed	50m/min	163ft/min
	Wire rope diameter	13mm	0.5in
DRILL MAST	Inclination (Left /right)	-3°	-3°
	Inclination (Front and rear)	4° / 90°	4° / 90°
CHASSIS	Crawler width	500mm	1 ft 7 in
	Crawler retractable width	2500-3400mm	8 ft 1 in - 11 ft 1 in
	Chassis length	4070mm	13 ft 3 in
COMPLETE MACHINE	Transportation width	2500mm	8 ft 1 in
	Operating weight	27000kg	59525 lb

Working state (unit:ft & mm)



Transportation status (unit:ft & mm)



Kelly	Kelly bar Spec.	Drilling depth	Weight	Remarks
interlocking kelly	JS325-4X5.5m	18m/58ft	2530kg/5577lb	Recommend
interlocking kelly	JS325-4X6.0m	20m/65ft	2800kg/6172lb	
interlocking kelly	JS325-4X6.5m	22m/72ft	3505kg/7724lb	
interlocking kelly	JS325-4X7.0m	24m/78ft	3190kg/7032lb	Main winch - optional
interlocking kelly	JS325-4X7.5m	26m/85ft	3325kg/7330lb	Main winch - optional
friction kelly	MZ325-5X7.0m	30.5m/100ft	3260kg/7187lb	Main winch - optional
friction kelly	MZ325-5X7.5m	33m/108ft	3450kg/7606lb	Main winch - optional

SWDM80SW Field King Kong

- ◆ Operating weight: 28t
- ◆ Engine power: 90kW/2200rpm
- ◆ Max. drilling diameter: 1000mm



“Field King Kong” is suitable for housing construction, for industrial plants, and micro piles in narrow spaces.

Mobility and flexibility

Small turning radius - adapts to narrow construction spaces.

Easy transfer

- Transport of the entire rig with the kelly, without exceeding the transport limit.
- Swift transition between drilling and transport, leading to cost savings.
- A single button controls the raising and lowering of the mast, streamlining operations.

Boosted Efficiency and Unmatched Productivity

- High speed rotary.
- Fast main winch line speed.

Environment Protection & Energy

- Advanced Cummins engine.
- Low noise levels.
- Low fuel consumption.

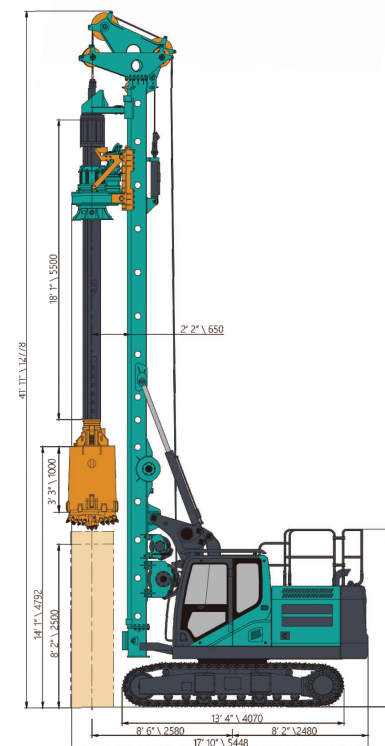
Exceptional Service Quality

- Swift Technical Support.
- Responsive After-Sales Service.
- Efficient Parts Assistance.

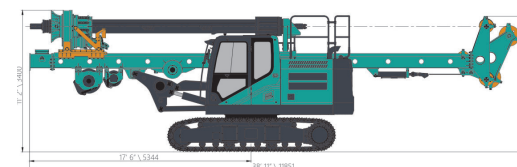
TECHNICAL PARAMETERS

	DESCRIPTION	PARAMETERS	
DRILLING	Max. drilling diameter	1000mm	3ft3in
	Max. drilling depth	33 m / 26 m	108 ft / 85 ft
ENGINE	Brand	Cummins	Cummins
	Mode	F3.8	F3.8
	Rated power	90 kW / 2200 rpm	121hp
ROTARY	Max torque	80kNm	59003lbf.ft
	Speed of rotation	8-35rpm	8-35rpm
	High speed spin-off	60rpm	60rpm
MAIN WINCH	Max. pulling force	80kN	17984lbf
	Max. line speed	72m/min	234ft/min
	Rope diameter	20mm	0.8in
CROWD	Max. Pull up forse	130kN	29225lbf
	Max pull down forse	130kN	29225lbf
	Max. stroke	7500mm	24 ft 5 in
AUXILIARY WINCH	Max. pulling force	30kN	6744lbf
	Max. line speed	50m/min	163ft/min
	Wire rope diameter	13mm	0.5in
DRILL MAST	Inclination (Left /right)	±3°	±3°
	Inclination (Front and rear)	4° / 90°	4° / 90°
CHASSIS	Crawler width	500mm	1 ft 7 in
	Crawler retractable width	2500-3400mm	8 ft 1 in - 11 ft 1 in
	Chassis length	4070mm	13 ft 3 in
COMPLETE MACHINE	Transportation width	2500mm	8 ft 1 in
	Operating weight	28000kg	61729 lb

Working state (unit:ft & mm)



Transportation status (unit:ft & mm)



Kelly	Kelly bar Spec.	Drilling depth	Weight	Remarks
interlocking kelly	JS325-4X5.5m	18m/58ft	2530kg/5577lb	
interlocking kelly	JS325-4X6.0m	20m/65ft	2800kg/6172lb	Recommend
interlocking kelly	JS325-4X6.5m	22m/72ft	3505kg/7724lb	
interlocking kelly	JS325-4X7.0m	24m/78ft	3190kg/7032lb	Main winch - optional
interlocking kelly	JS325-4X7.5m	26m/85ft	3325kg/7330lb	Main winch - optional
friction kelly	MZ325-5X7.0m	30.5m/100ft	3260kg/7187lb	Main winch - optional
friction kelly	MZ325-5X7.5m	33m/108ft	3450kg/7606lb	Main winch - optional

SWDM80SC Field King Kong

- ◆ Operating weight: 27t
- ◆ Engine power: 90kW/2200rpm
- ◆ Max. drilling diameter: 600mm

“Field King Kong” is suitable for housing construction, for industrial plants, and micro piles in narrow spaces.

Mobility and flexibility

Small turning radius - adapts to narrow construction spaces.

All-in-1 machine

CFA, FDP.

Easy transfer

- Transport of the entire rig with the Kelly, without exceeding the transport limit.
- Swift transition between drilling and transport, leading to cost savings.
- A single button controls the raising and lowering of the mast, streamlining operations.

High Efficiency and Productivity Boost

- Experience unmatched construction efficiency with our Rotary Drilling Rigs.
- Featuring dual motors and reducers for rotary motion, coupled with a rapid line speed of the main winch.
- High productivity in comprehensive construction operations.

Environment Protection & Energy

- Advanced Cummins engine.
- Low noise levels.
- Low fuel consumption.

Exceptional Service Quality

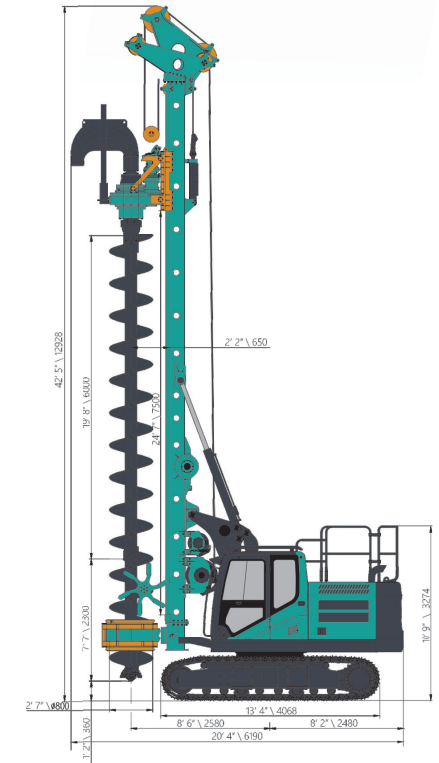
- Swift Technical Support.
- Responsive After-Sales Service.
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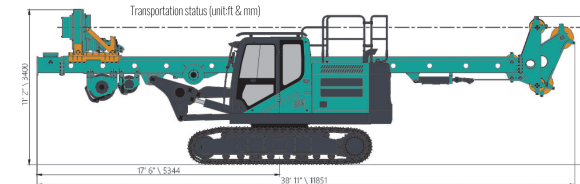
TECHNICAL PARAMETERS

	DESCRIPTION	PARAMETERS	
CFA	Max. drilling diameter	600mm	1 ft 12in
	Max. drilling depth	12m	39ft
ENGINE	Brand	Cummins	Cummins
	Mode	F3.8	F3.8
	Rated power	90 kW / 2200 rpm	121hp
ROTARY	Max torque	80kNm	59003lbf.ft
	Speed of rotation	8-35rpm	8-35rpm
	High speed spin-off	60rpm	60rpm
MAIN WINCH	Max. pulling force	80kN	18kips
	Max. line speed	72m/min	234ft/min
	Rope diameter	20mm	0.8in
CROWD	Max Pull up force	130kN	29225lbf
	Max pull down force	130kN	29225lbf
	Max. stroke	7500mm	24 ft 5 in
AUXILIARY WINCH	Max. pulling force	30kN	6744lbf
	Max. line speed	50m/min	163ft/min
	Wire rope diameter	13mm	0.5in
DRILL MAST	Inclination (Left /right)	±3°	±3°
	Inclination (Front and rear)	4° / 90°	4° / 90°
CHASSIS	Crawler width	500mm	1 ft 7 in
	Crawler retractable width	2500-3400mm	8 ft 1 in - 11 ft 1 in
	Chassis length	4070mm	13 ft 3 in
COMPLETE MACHINE	Transportation width	2500mm	8 ft 1 in
	Operating weight	27000kg	59525 lb

Working state (unit:ft & mm)



Transportation status (unit:ft & mm)



Drill rod specifi	Drilling depth	Remarks
Without Kelly extension + Auger Kelly	7m/22ft	Recommend
3m Kelly extension + Auger Kelly	10m/32ft	
5m Kelly extension + Auger Kelly	12m/39ft	Special provision

CONSTRUCTION CASE



SWDM130S Rotary Drilling Rig

- ◆ Operating weight: 37.5t
- ◆ Engine power: 129kW/2200rpm
- ◆ Max. drilling diameter: 1300mm

The SWDM130S rotary drilling rig- "Electric Tower Drillign Rig" - has been meticulously crafted for the precise requirements of electric tower construction.

Over the mountain

Our specially-designed chassis, coupled with powerful driving force, ensures seamless adaptation to diverse terrains, be it fields, rural areas, or even challenging mountainous roads.

Mobility and flexibility

The small turning radius allows to navigate narrow mountain roads with ease.

Crafted for Versatility

- Large diameter hole construction after disassembling the lower drill mast.
- Low headroom construction following dismantling of the upper drilling mast.
- Utilizing the auxiliary winch to lift reinforcing steel cage over extended distances.

Easy transfer

- Transport of the entire rig with the kelly, without exceeding the transport limit.
- Swift transition between drilling and transport, leading to cost savings.
- A single button controls the raising and lowering of the mast, streamlining operations.

Fast and efficient

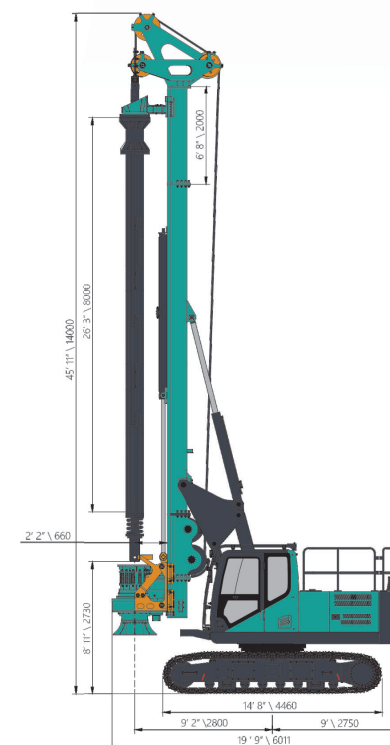
Experience exceptional speed and efficiency with our advanced Drilling Rigs. Equipped with dual motors and rotary reducers, our rigs deliver impressive torque and remarkable speed, ensuring optimal performance for your projects.



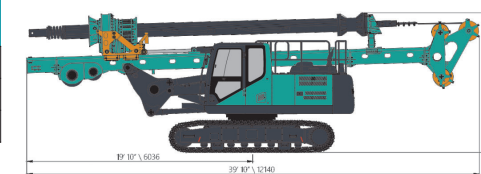
TECHNICAL PARAMETERS

	DESCRIPTION	PARAMETERS	
DRILLING	Max. drilling diameter	1300mm	4 ft 3 in
	Max. drilling depth	34 m / 27 m	110 ft / 88 ft
ENGINE	Brand	Cummins	Cummins
	Mode	B6.7	B6.7
	Rated power	129 kW / 2200 rpm	173hp
ROTARY	Max. torque	130kNm	95881lbf.ft
	Speed of rotation	6-32rpm	6-32rpm
	High speed spin-off (optional)	70rpm	70rpm
MAIN WINCH	Max. pulling force	135kN	30349lbf
	Max. line speed	78m/min	254ft/min
	Rope diameter	22mm	0.9in
CROWD	Max. crowd force	120kN	26976lbf
	Max. pulling force	130kN	29225lbf
	Max. stroke	3000mm	9 ft 9 in
AUXILIARY WINCH	Max. pulling force	50kN	11240lbf
	Max. line speed	50m/min	163ft/min
	Wire rope diameter	16mm	0.6in
DRILL MAST	Inclination (Left /right)	±3°	±3°
	Inclination (Front and rear)	4° / 89°	4° / 89°
CHASSIS	Crawler width	600mm	1 ft 11 in
	Crawler retractable width	2600-3500mm	8 ft 5 in - 11 ft 5 in
	Chassis length	4460mm	14 ft 6 in
COMPLETE MACHINE	Transportation width	2600mm	8 ft 5 in
	Operating weight	37500kg	82673lb

Working state (unit:ft & mm)



Transportation status (unit:ft & mm)



Kelly	Kelly bar Spec.	Drilling depth	Weight	Remarks
interlocking kelly	JS355-3X8m	19m/58ft	3600kg/7936lb	
interlocking kelly	JS355-4X8m	27m/65ft	5000kg/11023lb	Recommend
friction kelly	MZ355-5X8m	34m/88ft	4600kg/10141lb	

SWDM160S Rotary Drilling Rig

- ◆ Operating weight: 49t
- ◆ Engine power: 186kW/2000rpm
- ◆ Max. drilling diameter: 1500mm

The SWDM160S is the “King of Performance”. Also known as ‘the magic tool for drilling soil’, this machine is excellent for pile foundation construction in towns, factories and municipal projects.

Fast and efficient

Experience the pinnacle of speed and efficiency with our innovative Drilling Rigs.

- High-powered engine for unmatched performance.
- Large-displacement main pump and motor for optimal operation.
- Low fuel consumption, minimizing operational costs.
- High torque capability, ensuring superior drilling power.
- Impressive speed to enhance project efficiency.

Highly Reliable

Discover unparalleled reliability with our exceptional Drilling Rigs.

- Double movable arms empowered by double oil cylinder luffing mechanism.
- Strong stability and impeccable piling quality.
- Main winch rope designed for full drilling depth with extended service life.

Convenient transportation

- Transport of the entire rig with the kelly, without exceeding the transport limit.
- Swift transition between drilling and transport, leading to cost savings.

Intelligent control

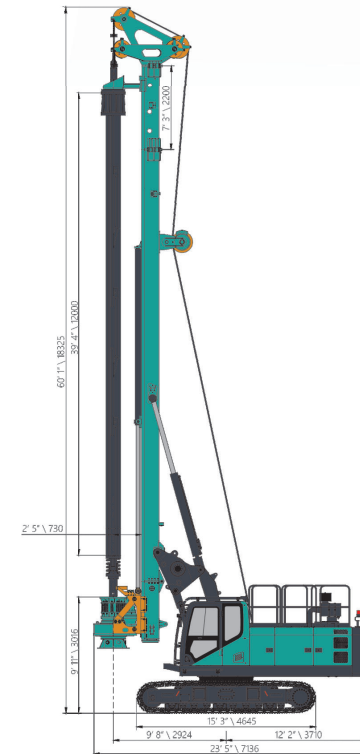
- Effortless mast elevation and lowering at the touch of a button.
- Simplified rotary reset operation with a single button press.



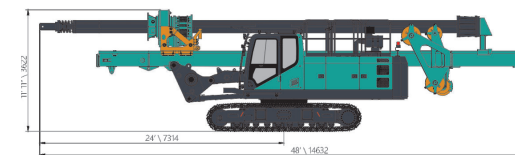
TECHNICAL PARAMETERS

	DESCRIPTION	PARAMETERS	
DRILLING	Max. drilling diameter	1500mm	4 ft 11 in
	Max. drilling depth	55 m / 43 m	179 ft / 140 ft
ENGINE	Brand	Cummins	Cummins
	Mode	B6.7	B6.7
	Rated power	186 kW / 2000 rpm	250hp
ROTARY	Max. torque	168kNm	123907lbf.ft
	Speed of rotation	6-35rpm	6-35rpm
	High speed spin-off (optional)	70rpm	70rpm
MAIN WINCH	Max. pulling force	165kN	37093lbf
	Max. line speed	80m/min	261ft/min
	Rope diameter	28mm	1.1in
CROWD	Max. crowd force	150kN	33721lbf
	Max. pulling force	160kN	35969lbf
	Max. stroke	4000mm	13 ft 1in
AUXILIARY WINCH	Max. pulling force	50kN	11240lbf
	Max. line speed	50m/min	163ft/min
	Wire rope diameter	16mm	0.6in
DRILL MAST	Inclination (Left /right)	±4°	±4°
	Inclination (Front and rear)	4° / 90°	4° / 90°
CHASSIS	Crawler width	700mm	2 ft 3 in
	Crawler retractable width	2980-3980mm	9 ft 8 in - 12 ft 11 in
	Chassis length	4645mm	15 ft 1 in
COMPLETE MACHINE	Transportation width	2980mm	9 ft 8 in
	Operating weight	49000kg	108027lb

Working state (unit:ft & mm)



Transportation status (unit:ft & mm)



Kelly	Kelly bar Spec.	Drilling depth	Weight	Remarks
interlocking kelly	JS377-4X10m	35m/114ft	6270kg/13823lb	
interlocking kelly	JS377-4X12m	43m/140ft	7400kg/16314lb	Recommend
friction kelly	MZ377-5X10m	45m/146ft	6330kg/13955lb	
friction kelly	MZ377-5X12m	55m/179ft	7400kg/16314lb	

SWDM160SW Rotary Drilling Rig

- ◆ Operating weight: 47t
- ◆ Engine power: 186kW/2000rpm
- ◆ Max. drilling diameter: 1300mm

The SWDM160SW is the "King of Performance". This machine is excellent for pile foundation construction in towns, factories and municipal projects.

Fast and efficient

Experience the pinnacle of speed and efficiency with our innovative Drilling Rigs.

- High-powered engine for unmatched performance.
- Large-displacement main pump and motor for optimal operation.
- Low fuel consumption, minimizing operational costs.
- High torque capability, ensuring superior drilling power.
- Impressive speed to enhance project efficiency.

Highly Reliable

Discover unparalleled reliability with our exceptional Drilling Rigs.

- Double movable arms empowered by double oil cylinder luffing mechanism.
- Strong stability and impeccable piling quality.
- Main winch rope designed for full drilling depth with extended service life.

Convenient transportation

- Transport of the entire rig with the kelly, without exceeding the transport limit.
- Swift transition between drilling and transport, leading to cost savings.

All-in-1 machine

Fully-cased Kelly drilling, FDP.

Intelligent control

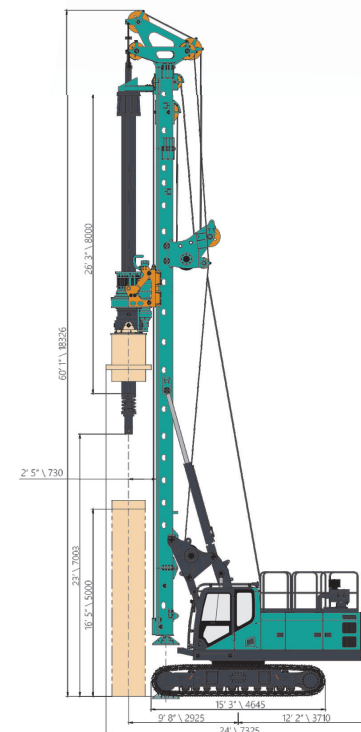
- Effortless mast elevation and lowering at the touch of a button.
- Simplified rotary reset operation with a single button press.



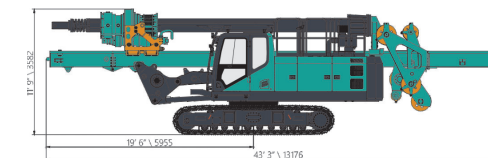
TECHNICAL PARAMETERS

	DESCRIPTION	PARAMETERS	
DRILLING	Max. drilling diameter	1300mm	4 ft 3 in
	Max. drilling depth	55 m / 43 m	179 ft / 140 ft
ENGINE	Brand	Cummins	Cummins
	Model	B6.7	B6.7
	Rated power	186 kW / 2000 rpm	250hp
ROTARY	Max. torque	168kNm	123907lbf.ft
	Speed of rotation	6-35rpm	6-35rpm
MAIN WINCH	Max. pulling force	165kN	37093lbf
	Max. line speed	80m/min	261ft/min
	Rope diameter	28mm	1.1in
CROWD	Max. crowd force	240kN	53953lbf
	Max. pulling force	240kN	53953lbf
	Max. stroke	12400mm	40 ft 5 in
AUXILIARY WINCH	Max. pulling force	50kN	11240lbf
	Max. line speed	50m/min	163ft/min
	Wire rope diameter	16mm	0.6in
DRILL MAST	Inclination (Left /right)	-4°	-4°
	Inclination (Front and rear)	4° / 90°	4° / 90°
CHASSIS	Crawler width	700mm	2 ft 3 in
	Crawler retractable width	2980-3980mm	9 ft 8 in - 12 ft 11 in
	Chassis length	4645mm	15 ft 1 in
COMPLETE MACHINE	Transportation width	2980mm	9 ft 8 in
	Operating weight	47000kg	101413lb

Working state (unit:ft & mm)



Transportation status (unit:ft & mm)



Kelly	Kelly bar Spec.	Drilling depth	Weight	Remarks
interlocking kelly	JS377-4X8m	27m/88ft	5200kg/11464lb	Recommend
interlocking kelly	JS377-4X10m	35m/114ft	6270kg/13823lb	
interlocking kelly	JS377-4X12m	43m/140ft	7400kg/16314lb	
friction kelly	MZ377-5X10m	45m/146ft	6330kg/13955lb	
friction kelly	MZ377-5X12m	55m/179ft	7400kg/16314lb	

SWDM160SC Rotary Drilling Rig

- ◆ Operating weight: 46t
- ◆ Engine power: 186kW/2000rpm
- ◆ Max. drilling diameter: 800mm

The SWDM160SC is the "King of Performance". This machine is excellent for pile foundation construction in towns, factories and municipal projects.

Fast and efficient

Experience the pinnacle of speed and efficiency with our innovative Drilling Rigs.

- High-powered engine for unmatched performance.
- Large-displacement main pump and motor for optimal operation.
- Low fuel consumption, minimizing operational costs.
- High torque capability, ensuring superior drilling power.
- Impressive speed to enhance project efficiency.

Highly Reliable

Discover unparalleled reliability with our exceptional Drilling Rigs.

- Double movable arms empowered by double oil cylinder luffing mechanism.
- Strong stability and impeccable piling quality.
- Main winch rope designed for full drilling depth with extended service life.

Convenient transportation

- Transport of the entire rig with the Kelly, without exceeding the transport limit.
- Swift transition between drilling and transport, leading to cost savings.

All-in-1 machine

CFA, FDP method.

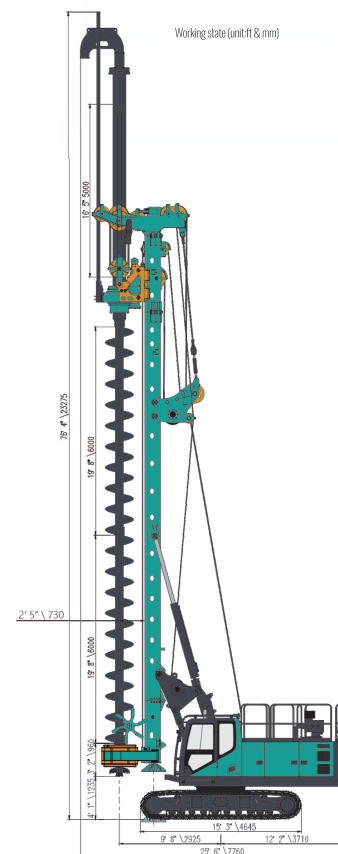
Intelligent control

- Effortless mast elevation and lowering at the touch of a button.
- Simplified rotary reset operation with a single button press.

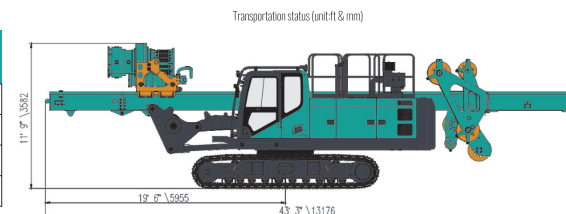


TECHNICAL PARAMETERS

	DESCRIPTION	PARAMETERS	
CFA	Max. drilling diameter	800mm	2 ft 8 in
	Max. drilling depth	18m	58ft
ENGINE	Brand	Cummins	Cummins
	Model	B6.7	B6.7
	Rated power	186 kW / 2000 rpm	250hp
ROTARY	Max. torque	168kNm	123907lbf.ft
	Speed of rotation	6-35rpm	6-35rpm
MAIN WINCH	Max. pulling force	165kN	37093lbf
	Max. line speed	80m/min	261ft/min
	Rope diameter	28mm	1.1in
CROWD	Max. crowd force	240kN	53953lbf
	Max. pulling force	240kN	53953lbf
	Max. stroke	12800mm	40 ft 5 in
AUXILIARY WINCH	Max. pulling force	50kN	11240lbf
	Max. line speed	50m/min	163ft/min
	Wire rope diameter	16mm	0.6in
DRILL MAST	Inclination (Left /right)	±4°	±4°
	Inclination (Front and rear)	4° / 90°	4° / 90°
CHASSIS	Crawler width	700mm	2 ft 3 in
	Crawler retractable width	2980-3980mm	9 ft 8 in - 12 ft 11 in
	Chassis length	4645mm	15 ft 1 in
COMPLETE MACHINE	Transportation width	2980mm	9 ft 8 in
	Operating weight	46000kg	101413lb



Drill rod specifi	Drilling depth	Remarks
Without Kelly extension + auger kelly	12m/39ft	Recommend
3m Kelly extension + auger kelly	15m/48ft	
5m Kelly extension + auger kelly	17m/55ft	
6m Kelly extension + auger kelly	18m/58ft	Special provision



SWDM240S Rotary Drilling Rig

- ◆ Operating weight: 77t
- ◆ Engine power: 252kW/1800rpm
- ◆ Max. drilling diameter: 2000mm

The SWDM240S - "all-round master"-delivers all-round superior performance and is excellent for drilling rocks and soil.

Fast and efficient

Experience the pinnacle of speed and efficiency with our innovative Drilling Rigs.

- High-powered engine for unmatched performance.
- Large-displacement main pump and motor for optimal operation.
- Low fuel consumption, minimizing operational costs.
- High torque capability, ensuring superior drilling power.
- Impressive speed to enhance project efficiency.

Highly Reliable

Experience top-tier reliability with our cutting-edge Drilling Rigs.

- π-type structure plug-in telescopic chassis for enhanced stability.
- Reinforced double movable arm luffing mechanism ensuring robust performance.
- Single-layer main winch ropes designed for full drilling depth, significantly extending service life.

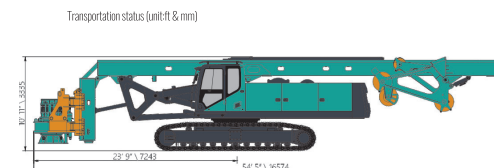
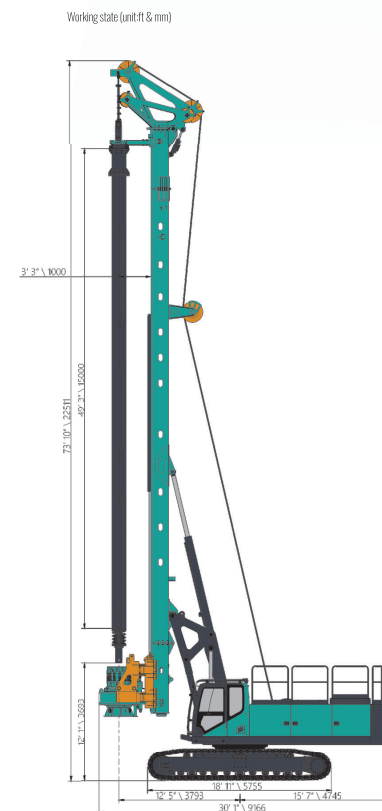
Easy maintenance

The lower mast is equipped with a concealed telescopic outrigger, which assists in placing the casing and facilitates maintenance of the chassis.



TECHNICAL PARAMETERS

	DESCRIPTION	PARAMETERS	
DRILLING	Max. drilling diameter	2000mm	6 ft 7 in
	Max. drilling depth	69 m / 54 m	225 ft / 456 ft
ENGINE	Brand	Cummins	Cummins
	Model	L9	L9
	Rated power	252 kW / 1800 rpm	338hp
ROTARY	Max. torque	248kNm	182911bf.ft
	Speed of rotation	6-28rpm	6-28rpm
	High speed spin-off (optional)	70rpm	70rpm
MAIN WINCH	Max. pulling force	280kN	37093lbf
	Max. line speed	72m/min	234ft/min
CROWD	Rope diameter	32mm	1-1/4in
	Max. crowd force	210kN	47209lbf
	Max. pulling force	240kN	53953lbf
AUXILIARY WINCH	Max. stroke	5000mm	16 ft 3 in
	Max. pulling force	80kN	17984lbf
	Max. line speed	58m/min	189ft/min
DRILL MAST	Wire rope diameter	20mm	0.8in
	Inclination (Left /right)	-5°	±5°
CHASSIS	Inclination (Front and rear)	5° / 90°	5° / 90°
	Crawler width	800mm	2 ft 7 in
COMPLETE MACHINE	Crawler retractable width	3000-4500mm	9 ft 9 in - 14 ft 8 in
	Chassis length	5755mm	18 ft 9 in
	Transportation width	3000mm	9 ft 9 in
	Operating weight	77000kg	169756lb



Kelly	Kelly bar Spec.	Drilling depth	Weight	Remarks
interlocking kelly	JS440-4X15m	54m/176ft	10700kg/23589lb	Recommend
friction kelly	MZ440-5X15m	69m/225ft	11900kg/26235lb	

SWDM240SW Rotary Drilling Rig

- ◆ Operating weight: 76t
- ◆ Engine power: 252kW/1800rpm
- ◆ Max. drilling diameter: 1800mm

The SWDM240SW - "all-round master"-delivers all-round superior performance and is excellent for drilling rocks and soil.

All-in-1 machine

Fully-cased Kelly drilling, FDP method.

Fast and efficient

Experience the pinnacle of speed and efficiency with our innovative Drilling Rigs.

- High-powered engine for unmatched performance.
- Large-displacement main pump and motor for optimal operation.
- Low fuel consumption, minimizing operational costs.
- High torque capability, ensuring superior drilling power.
- Impressive speed to enhance project efficiency.

Highly Reliable

Experience top-tier reliability with our cutting-edge Drilling Rigs.

- π-type structure plug-in telescopic chassis for enhanced stability.
- Reinforced double movable arm luffing mechanism ensuring robust performance.
- Single-layer main winch ropes designed for full drilling depth, significantly extending service life.

Easy maintenance

The lower mast is equipped with a concealed telescopic outrigger, which assists in placing the casing and facilitates maintenance of the chassis.

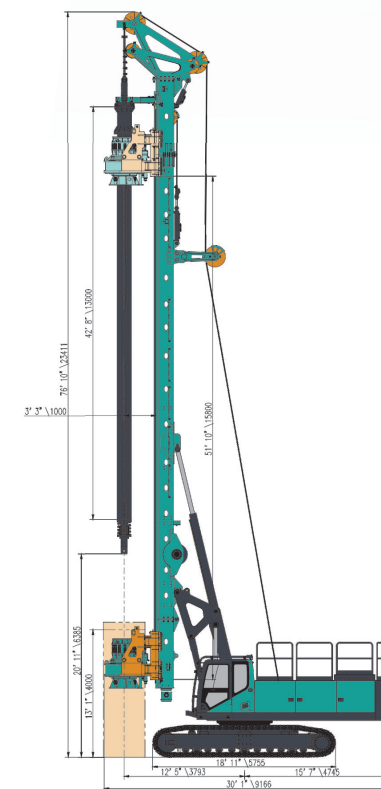


TECHNICAL PARAMETERS

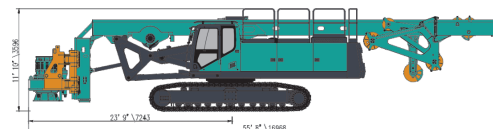
	DESCRIPTION	PARAMETERS	
DRILLING	Max. drilling diameter	1800mm	5 ft 11 in
	Max. drilling depth	69 m / 54 m	225 ft / 456 ft
ENGINE	Brand	Cummins	Cummins
	Model	L9	L9
	Rated power	252 kW / 1800 rpm	338hp
ROTARY	Max. torque	248kNm	182911bf.ft
	Speed of rotation	6-28rpm	6-28rpm
MAIN WINCH	Max. pulling force	280kN	62946lbf
	Rope diameter	32mm	1-1/4in
CROWD	Max. crowd force	270kN	60698lbf
	Max. pulling force	270kN	60698lbf
	Max. stroke	15800mm	51 ft 6 in
AUXILIARY WINCH	Max. pulling force	80kN	17984lbf
	Max. line speed	58m/min	189ft/min
	Wire rope diameter	20mm	0.8in
DRILL MAST	Inclination (Left /right)	-5°	-5°
	Inclination (Front and rear)	5° / 90°	5° / 90°
CHASSIS	Crawler width	800mm	2 ft 7 in
	Crawler retractable width	3000-4500mm	9 ft 9 in - 14 ft 8 in
	Chassis length	5755mm	18 ft 9 in
COMPLETE MACHINE	Transportation width	3000mm	9 ft 9 in
	Operating weight	76000kg	167551lb

Kelly	Kelly bar Spec.	Drilling depth	Weight	Remarks
interlocking kelly	JS440-4X13m	46m/150ft	9420kg/20767lb	Recommend
interlocking kelly	JS440-4X15m	54m/176ft	10700kg/23589lb	
friction kelly	MZ440-5X15m	69m/225ft	11900kg/26235lb	

Working state (unit:ft & mm)



Transportation status (unit:ft & mm)



SWDM240SC Rotary Drilling Rig

- ◆ Operating weight: 73t
- ◆ Engine power: 252kW/1800rpm
- ◆ Max. drilling diameter: 1000mm

The SWDM240SC - "all-round master"-delivers all-round superior performance and is excellent for drilling rocks and soil.

All-in-1 machine

CFA, FDP method.

Fast and efficient

Experience the pinnacle of speed and efficiency with our innovative Drilling Rigs.

- High-powered engine for unmatched performance.
- Large-displacement main pump and motor for optimal operation.
- Low fuel consumption, minimizing operational costs.
- High torque capability, ensuring superior drilling power.
- Impressive speed to enhance project efficiency.

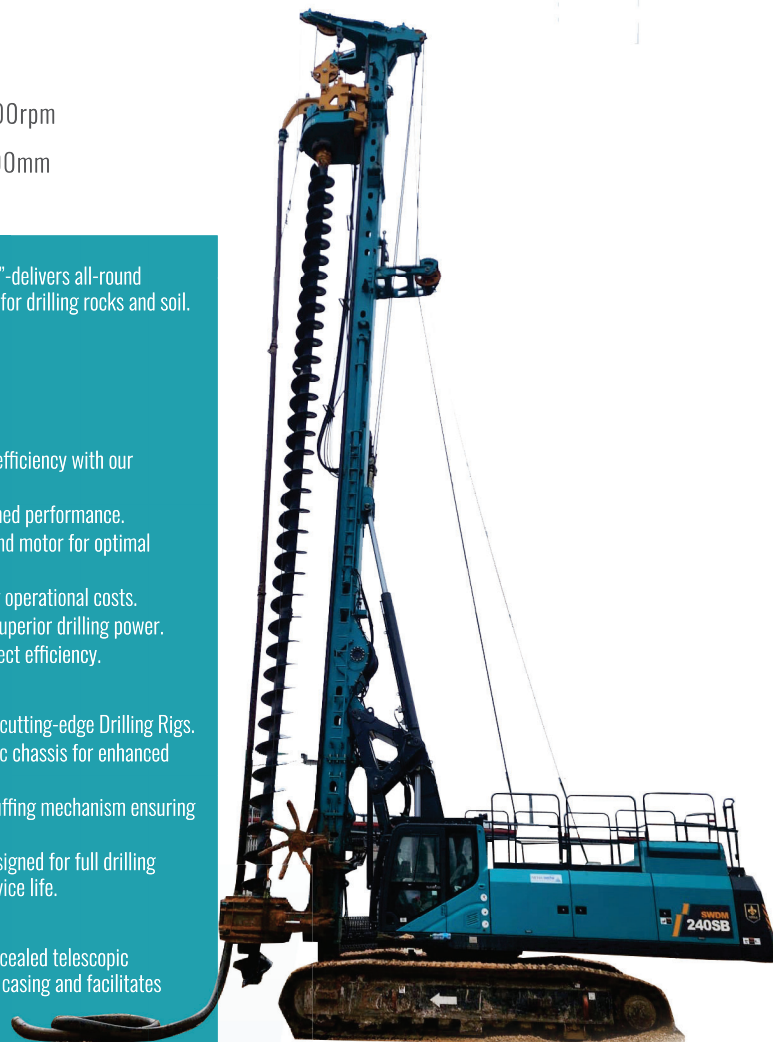
Highly Reliable

Experience top-tier reliability with our cutting-edge Drilling Rigs.

- π-type structure plug-in telescopic chassis for enhanced stability.
- Reinforced double movable arm luffing mechanism ensuring robust performance.
- Single-layer main winch ropes designed for full drilling depth, significantly extending service life.

Easy maintenance

The lower mast is equipped with a concealed telescopic outrigger, which assists in placing the casing and facilitates maintenance of the chassis.

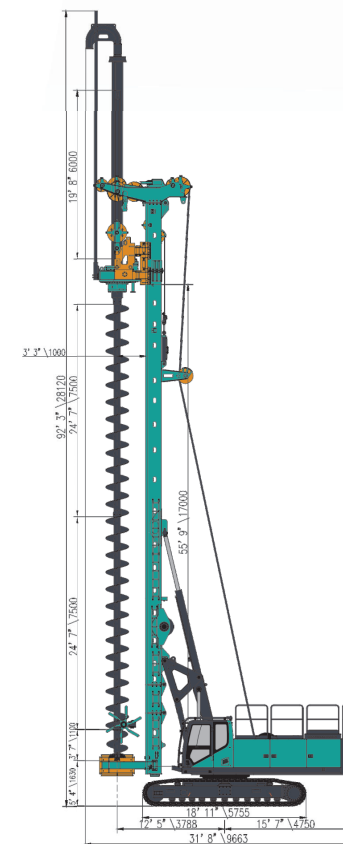


TECHNICAL PARAMETERS

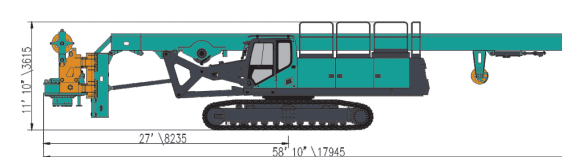
	DESCRIPTION	PARAMETERS	
CFA	Max.drilling diameter	1000mm	3ft3in
	Max.drilling depth	22m	71ft
ENGINE	Brand	Cummins	Cummins
	Model	L9	L9
	Rated power	252 kW / 1800 rpm	338hp
ROTARY	Max.torque	248kNm	182911bf.ft
	Speed of rotation	6-28rpm	6-28rpm
MAIN WINCH	Max.pulling force	280kN	62946lbf
	Max.line speed	72m/min	234ft/min
	Rope diameter	32mm	1-1/4in
CROWD WINCH	Max.crowd force	270kN	60698lbf
	Max.pulling force	270kN	60698lbf
	Max.stroke	17000mm	55 ft 5 in
AUXILIARY WINCH	Max.pulling force	80kN	17984lbf
	Max.line speed	58m/min	189ft/min
	Rope diameter	20mm	0.8in
DRILL MAST	Inclination(Left/Right) angle	-5°	-5°
	Inclination (Front/Rear)angle	5° / 90°	5° / 90°
CHASSIS	Crawler width	800mm	2 ft 7 in
	Crawler retractable width	3000-4500mm	9 ft 9 in - 14 ft 8 in
	Chassis length	5755mm	18 ft 9 in
COMPLETE MACHINE	Transportation width	3000mm	9 ft 9 in
	Operating weight	73000kg	160937lb

Drill rod specifi	Drilling depth	Remarks
Without Kelly extension + Auger kelly	16m/52ft	Recommend
3m Kelly extension + Auger kelly	19m/62ft	
5m Kelly extension + Auger kelly	21m/68ft	
6m Kelly extension + Auger kelly	22m/71ft	Special provision

Transportation status (unit:ft & mm)



Transportation status (unit:ft & mm)





Construction Project: (Melbourne Sunshine Station)Melbourne Sunshine Station Expansion Project, Australia

Equipment for use: SWDM160SA-S00147 (manufactured in February 2023)
SWDM15HA-S0010 (manufactured in May 2017)

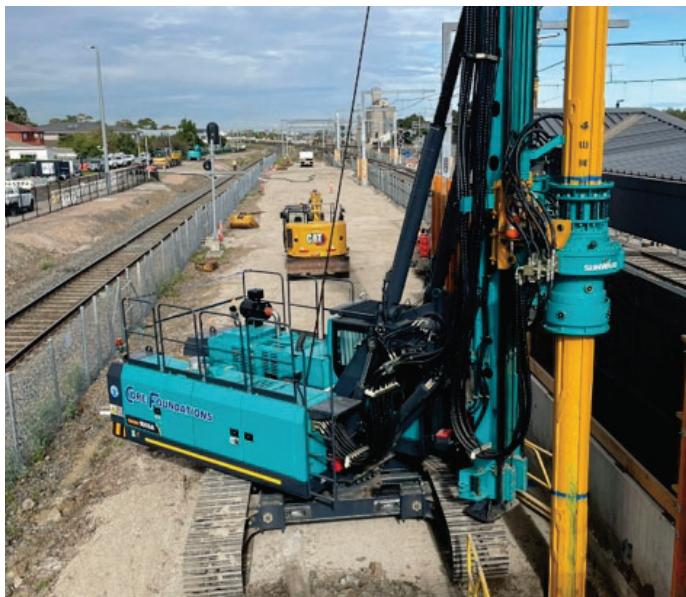
Average hole depth: 3 m

Stratigraphic conditions:basalt (clay)

Drilling diameter:600mm1500mm

Number of holes to be drilled:188 holes (construction period: 40 days)

Construction method: Ordinary drill bit and drilling tool construction, equipment with CFA method function that is not yet used.



SWDM300S Rotary Drilling Rig

- ◆ Operating weight: 106t
- ◆ Engine power: 321kW/2100rpm
- ◆ Max. drilling diameter: 2500mm

The SWDM300S rotary drilling rig - the "Rock drilling expert" - is used widely in medium and large pile foundation projects, such as housing construction, bridges, and municipal works.

Fast and efficient

Experience unparalleled speed and efficiency with our advanced Drilling Rigs.

- High-powered Cummins engine for superior performance.
- Three rotary motors for strong drilling operations.
- Low fuel consumption, optimizing operational costs.
- High torque and impressive rotary speed for exceptional drilling power - Main winch equipped with large diameter ropes, delivering substantial pulling force, large single-cycle feeding and ensuring high operational efficiency.

Highly Reliable

Experience top-tier reliability with our cutting-edge Drilling Rigs.

- π-type structure plug-in telescopic chassis for enhanced stability.
- Reinforced double movable arm luffing mechanism ensuring robust performance.
- Single-layer main winch ropes designed for full drilling depth, significantly extending service life.

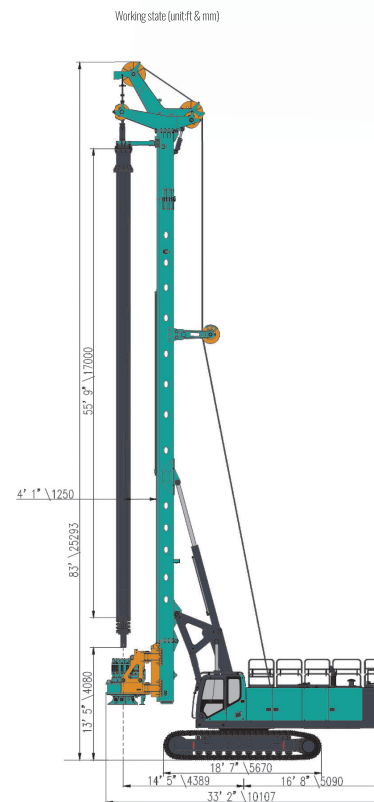
Easy maintenance

- Centralized quantitative lubrication as standard, which is convenient and trouble-free.
- Lower mast equipped with a concealed telescopic outrigger, which assists in placing the casing and facilitates maintenance of the chassis.



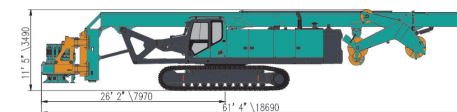
TECHNICAL PARAMETERS

	DESCRIPTION	PARAMETERS	
DRILLING	Max. drilling diameter	2500mm	8 ft 2 in
	Max. drilling depth	95 m / 62 m	309 ft / 202 ft
ENGINE	Brand	Cummins	Cummins
	Model	X12	X12
	Rated power	321 kW / 2100 rpm	430hp
ROTARY	Max. torque	330kNm	243390lbf.ft
	Speed of rotation	6-32rpm	6-32rpm
MAIN WINCH	Max. pulling force	370kN	83178lbf
	Max. line speed	80m/min	261ft/min
CROWD	Rope diameter	36mm	1.4in
	Max. crowd force	260kN	58449lbf
	Max. pulling force	280kN	62946lbf
AUXILIARY WINCH	Max. stroke	6000mm	19 ft 6 in
	Max. pulling force	110kN	24728lbf
	Max. line speed	65m/min	212ft/min
DRILL MAST	Wire rope diameter	24mm	0.9in
	Inclination (Left /right)	±4°	±4°
CHASSIS	Inclination (Front and rear)	5° / 90°	5° / 90°
	Crawler width	900mm	2 ft 11 in
COMPLETE MACHINE	Crawler retractable width	3000-4500mm	9 ft 9 in - 14 ft 8 in
	Chassis length	5700mm	18 ft 7 in
	Transportation width	3000mm	9 ft 9 in
	Operating weight	106000kg	233690lb



Kelly	Kelly bar Spec.	Drilling depth	Weight	Remarks
interlocking kelly	JS508-4X17m	62m/202ft	15800kg/34833lb	Recommend
friction kelly	M2508-6X17m	95m/309ft	17000kg/37478lb	

Transportation status (unit:ft & mm)



SWDM300SW Rotary Drilling Rig

- ◆ Operating weight: 104t
- ◆ Engine power: 321kW/2100rpm
- ◆ Max. drilling diameter: 2300mm

The SWDM300SW rotary drilling rig - the "Rock drilling expert" - is used widely in medium and large pile foundation projects, such as housing construction, bridges, and municipal works.

Fast and efficient

Experience unparalleled speed and efficiency with our advanced Drilling Rigs.

- High-powered Cummins engine for superior performance.
- Three rotary motors for strong drilling operations.
- Low fuel consumption, optimizing operational costs.
- High torque and impressive rotary speed for exceptional drilling power - Main winch equipped with large diameter ropes, delivering substantial pulling force, large single-cycle feeding and ensuring high operational efficiency.

Highly Reliable

Experience top-tier reliability with our cutting-edge Drilling Rigs

- π-type structure plug-in telescopic chassis for enhanced stability.
- Reinforced double movable arm luffing mechanism ensuring robust performance.
- Single-layer main winch ropes designed for full drilling depth, significantly extending service life.

Easy maintenance

- Centralized quantitative lubrication as standard, which is convenient and trouble-free.
- Lower mast equipped with a concealed telescopic outrigger, which assists in placing the casing and facilitates maintenance of the chassis.

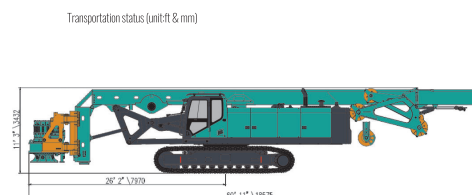
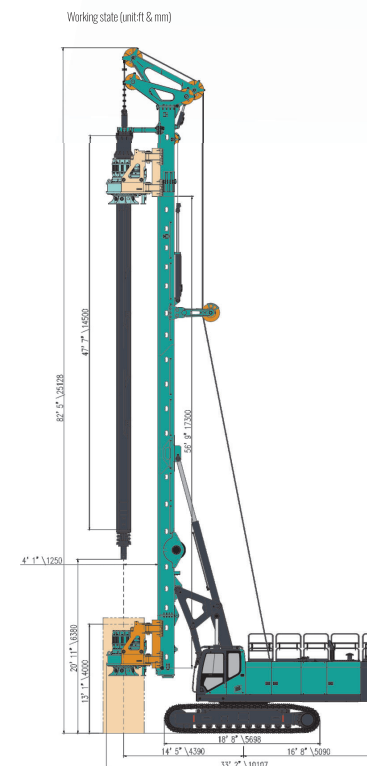
All-in-1 machine

Fully-cased Kelly drilling, FDP.



TECHNICAL PARAMETERS

	DESCRIPTION	PARAMETERS	
DRILLING	Max. drilling diameter	2300mm	7 ft 7 in
	Max. drilling depth	95 m / 62 m	309 ft / 202 ft
ENGINE	Brand	Cummins	Cummins
	Model	X12	X12
	Rated power	321 kW / 2100 rpm	430hp
ROTARY	Max. torque	330kNm	243390lbf.ft
	Speed of rotation	6-32rpm	6-32rpm
MAIN WINCH	Max. pulling force	370kN	83178lbf
	Max. line speed	80m/min	261ft/min
	Rope diameter	36mm	1.4in
CROWD	Max. crowd force	280kN	62946lbf
	Max. pulling force	280kN	62946lbf
	Max. stroke	17300mm	56 ft 5 in
AUXILIARY WINCH	Max. pulling force	110kN	24728lbf
	Max. line speed	65m/min	212ft/min
	Wire rope diameter	24mm	0.9in
DRILL MAST	Inclination (Left /right)	±4°	±4°
	Inclination (Front and rear)	5° / 90°	5° / 90°
CHASSIS	Crawler width	900mm	2 ft 11 in
	Crawler retractable width	3000-4500mm	9 ft 9 in - 14 ft 8 in
	Chassis length	5700mm	18 ft 7 in
COMPLETE MACHINE	Transportation width	3000mm	9 ft 9 in
	Operating weight	104000kg	229281lb



Kelly	Kelly bar Spec.	Drilling depth	Weight	Remarks
interlocking kelly	JS508-4X14.5m	52m/169ft	13700kg/30203lb	Recommend
interlocking kelly	JS508-4X17m	62m/202ft	15800kg/34833lb	
friction kelly	M2508-6X17 m	95m/309ft	17000kg/37478lb	

SWDM400SW Rotary Drilling Rig

- ◆ Operating weight: 133t
- ◆ Engine power: 410kW/2100rpm
- ◆ Max. drilling diameter: 2500mm

The SWDM400S rotary drilling rig - the "Rock drilling expert" - is perfect for large-scale pile foundation projects, such as high-rise buildings and bridges, and for drilling in hard rock strata. This version builds on 3 generations of upgrades to deliver comprehensive performance in a superb configuration.

Super Rock Drilling

Experience unparalleled rock drilling efficiency with our remarkable Drilling Rig.

- Robust Chassis: π -type structure plug-in telescopic heavy-duty chassis for exceptional stability.
- Enhanced Control: Large diameter slewing support with double brakes, ensuring precise maneuvers.
- Rugged Platform: High strength and rigidity platform for utmost durability.
- Reinforced Mast: Large-section mast with solid structure, guaranteeing high stability and reliability.
- Advanced Kelly: Standard inclusion of our self-made \varnothing 580mm high-strength kelly for reliability.
- Power Packed: Equipped with a high-power engine, large displacement main pump, and three rotary motors.
- Optimized Performance: Carefully matched power system delivers robust power, remarkable torque, and high speed Strong.
- Crowd Force: Exceptional drilling crowd force for challenging rock formations.
- Sturdy Construction: Large mass complete machine for unwavering performance.

Cost Effective

- Seamless Transport: No need to disassemble crowd winch ropes during transportation.
- Enhanced Durability: Large diameter drum and wire rope for extended main winch rope service life.

Easy maintenance:

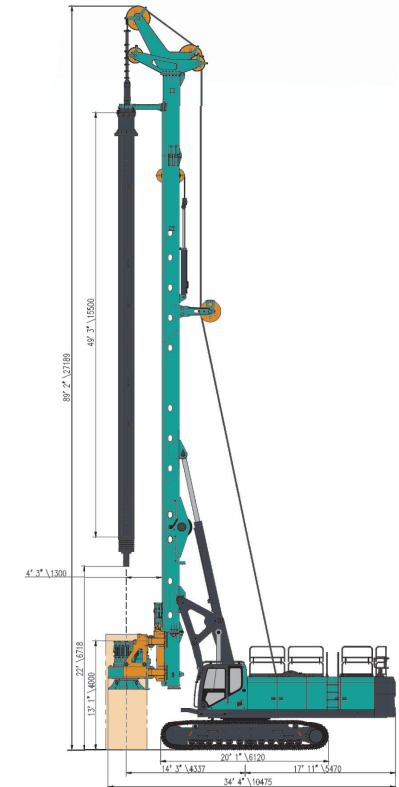
- Centralized quantitative lubrication as standard, which is convenient and trouble-free.
- Lower mast equipped with a concealed telescopic outrigger, which assists in placing the casing and facilitates maintenance of the chassis.



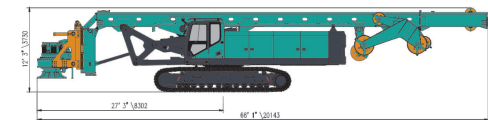
TECHNICAL PARAMETERS

	DESCRIPTION	PARAMETERS	
DRILLING	Max. drilling diameter	2500mm	8 ft 2 in
	Max. drilling depth	100 m / 66 in	326 ft / 215 ft
ENGINE	Brand	Cummins	Cummins
	Model	X15	X15
	Rated power	410 kW / 2100 rpm	550hp
ROTARY	Max. torque	418kNm	308294lbf.ft
	Speed of rotation	6-25rpm	6-25rpm
MAIN WINCH	Max. pulling force	390kN	87674lbf
	Max. line speed	76m/min	247ft/min
	Rope diameter	40mm	1.6in
CROWD	Max. crowd force	340kN	76434lbf
	Max. pulling force	380kN	85426lbf
	Max. stroke	13000mm	42 ft 4 in
AUXILIARY WINCH	Max. pulling force	110kN	24728lbf
	Max. line speed	65m/min	212ft/min
	Wire rope diameter	24mm	0.9in
DRILL MAST	Inclination (Left /right)	$\pm 4^{\circ}$	$\pm 4^{\circ}$
	Inclination (Front and rear)	$5^{\circ} / 90^{\circ}$	$5^{\circ} / 90^{\circ}$
CHASSIS	Crawler width	900mm	2 ft 11 in
	Crawler retractable width	3300-4800mm	10 ft 9 in - 15 ft 7 in
	Chassis length	6120mm	19 ft 11 in
COMPLETE MACHINE	Transportation width	3300mm	10 ft 9 in
	Operating weight	13300kg	293215lb

Working state (unit:ft & mm)



Transportation status (unit:ft & mm)



Kelly	Kelly bar Spec.	Drilling depth	Weight	Remarks
interlocking kelly	JS580-4X14.0m	48m/156ft	15670kg/34546lb	
interlocking kelly	JS580-4X15.5m	54m/176ft	17110kg/37721lb	Recommend
interlocking kelly	JS580-4X18.4m	66m/215ft	19900kg/43872lb	
friction kelly	MZ580-6X18.4m	100m/326ft	21000kg/46297lb	



Construction Project

Xihoumen Highway & Railway Bi-Purpose Bridge

Equipment Model

SWDM1280

Case Introduction

Engineering traction, specially customized. The pile diameter of the 5 # main pier of the bridge is 6.3 m, and the depth of the hole is about 110 m, making it the world's largest pile diameter for bored piles in bridges. The completed 6 # pier has a diameter of 4.5 m, a drilling depth of about 60 m, and entering the slightly weathered rhyolite for about 20 m. The drilling time for a single pile is about 50 hours.



Construction Project

Shenzhen-Zhongshan Channel (Zhongshan Bridge, Honglian Bridge)

Equipment Model

3 nos. of SWDM550

Case Introduction

The pile has a diameter of 2.8 m, a length of 60-80 m, and a depth of over ten meters into moderately weathered granite. The drilling time for a single pile is about 7-10 days.



Construction Project

Zhongxiang Hanjiang Grand Bridge of Wuhan-Yichang Hi-Speed Railway (Jingmen)

Equipment Model

SWDM550H

Case Introduction

The pile diameter is 2.5 m, and the maximum drilling depth is 114 m. 5 machine-locked drill rods are used to drill into slightly weathered argillaceous sandstone.