

DRILLING RIGS

S-SERIES



SWDM40S Field King Kong

Operating weight: 17t

Engine power: 53.7kW/2100 rpm

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 Yanmar engine.
- Low noise levels.
- Low fuel consumption.

Exceptional Service Quality

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

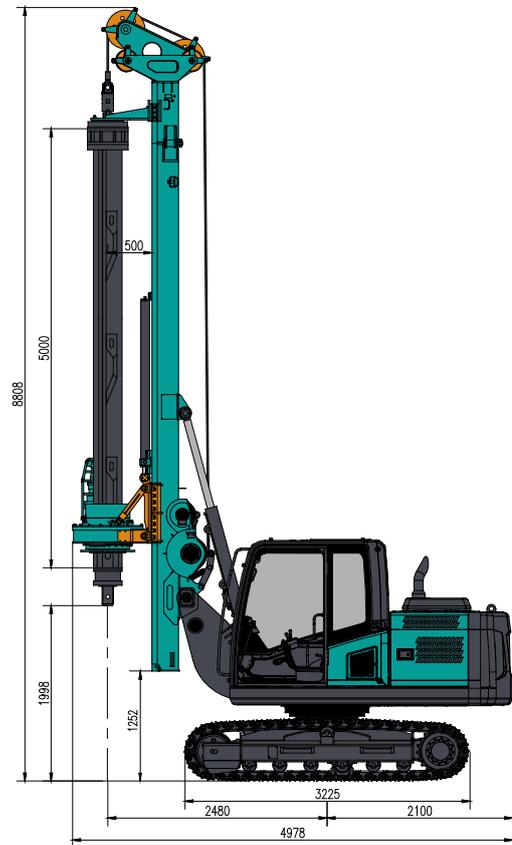


TECHNICAL PARAMETERS

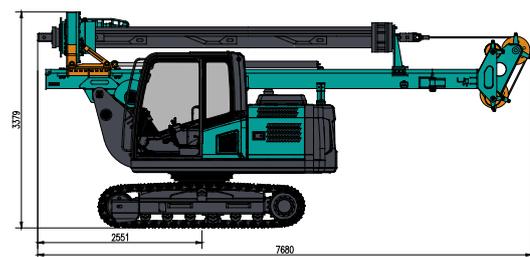
| | DESCRIPTION | UNIT | PARAMETERS |
|------------------|------------------------------|--------|------------|
| DRILLING | Max. drilling diameter | mm | 1000 |
| | Max. drilling depth | m | 22/17 |
| ENGINE | Brand | | YANMAR |
| | Model | | 4TNV98CT |
| | Rated power | kW/rpm | 53.7/2100 |
| ROTARY | Max. torque | kN.m | 45 |
| | Speed of rotation | rpm | 5-50 |
| MAIN WINCH | Max. pulling force | kN | 60 |
| | Max. line speed | m/min | 60 |
| | Rope diameter | mm | 18 |
| CROWD | Max. crowd force | kN | 60 |
| | Max. pulling force | kN | 70 |
| | Max. stroke | mm | 1500 |
| AUXILIARY WINCH | Max. pulling force | kN | 15 |
| | Max. line speed | m/min | 50 |
| | Wire rope diameter | mm | 10 |
| DRILL MAST | Inclination (Left /right) | ° | ±3 |
| | Inclination (Front and rear) | ° | 5/90 |
| CHASSIS | Crawler width | mm | 450 |
| | Crawler retractable width | mm | 2320 |
| | Chassis length | mm | 3225 |
| COMPLETE MACHINE | Transportation width | mm | 2320 |
| | Operating weight | t | 17 |

| KELLY | Drilling depth/m | Drilling depth/m | Weight/kg | Remarks |
|--------------------|------------------|------------------|-----------|-----------|
| Interlocking kelly | JS325-4X5m | 17 | 2500 | Recommend |
| Friction kelly | MZ325-5X5m | 22 | 2850 | |

Working state (unit: mm)



Transport Dimensions (unit:mm)



SWDM80S

Field King Kong

Operating weight: 27t

Engine power: 90kW/2200 rpm

Max. drilling diameter: 1200mm

“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

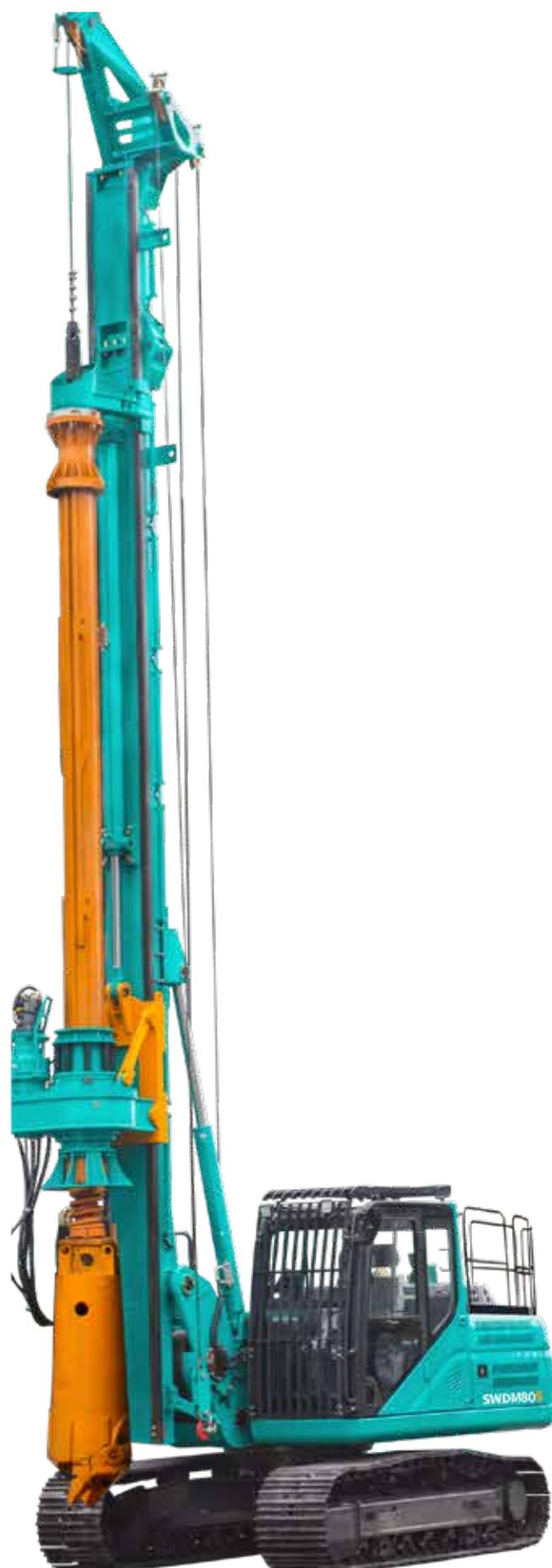
- High speed rotary.
- Fast main winch line speed.
- High productivity in comprehensive construction operations.

Environment Protection & Energy

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

Exceptional Service Quality

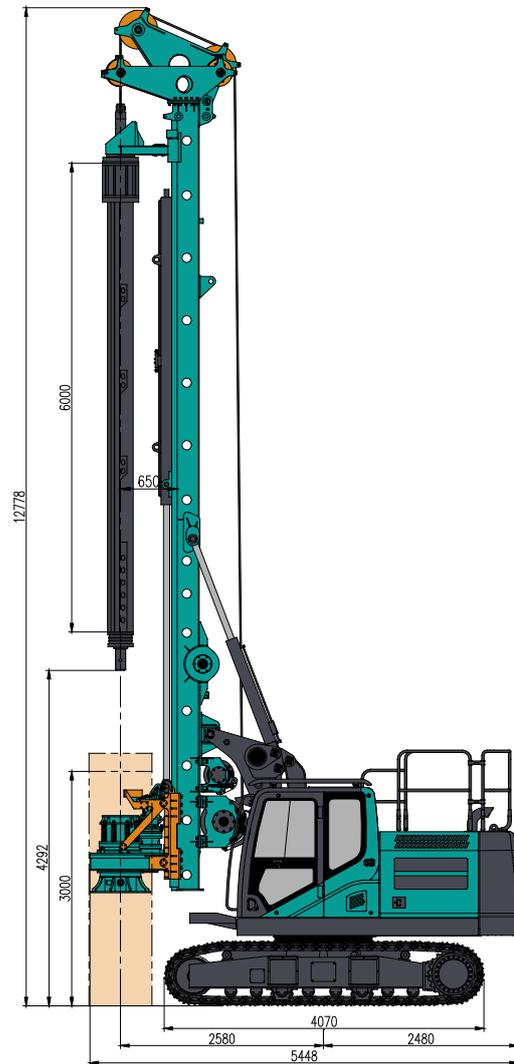
- Swift Technical Support.
- Responsive After-Sales Service.
- Efficient Parts Assistance.



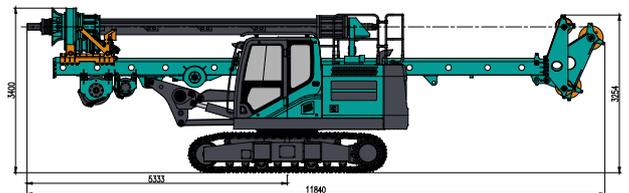
TECHNICAL PARAMETERS

| | DESCRIPTION | UNIT | PARAMETERS |
|------------------|------------------------------|--------|------------|
| DRILLING | Max. drilling diameter | mm | 1200 |
| | Max. drilling depth | m | 27/20 |
| ENGINE | Brand | | Cummins |
| | Model | | F3.8 |
| | Rated power | kW/rpm | 90/2200 |
| ROTARY | Max. torque | kN.m | 80 |
| | Speed of rotation | rpm | 8-35 |
| | High speed spin-off | rpm | 60 |
| MAIN WINCH | Max. pulling force | kN | 80 |
| | Max. line speed | m/min | 72 |
| | Rope diameter | mm | 20 |
| CROWD | Max. crowd force | kN | 100 |
| | Max. pulling force | kN | 130 |
| | Max. stroke | mm | 3500 |
| AUXILIARY WINCH | Max. pulling force | kN | 30 |
| | Max. line speed | m/min | 50 |
| | Wire rope diameter | mm | 13 |
| DRILL MAST | Inclination (Left /right) | ° | ±3 |
| | Inclination (Front and rear) | ° | 4/90 |
| CHASSIS | Crawler width | mm | 500 |
| | Crawler retractable width | mm | 2500-3400 |
| | Chassis length | mm | 4070 |
| COMPLETE MACHINE | Transportation width | mm | 2500 |
| | Operating weight | t | 27 |

Working state (unit: mm)



Transport Dimensions (unit:mm)



| KELLY | Drilling depth/m | Drilling depth/m | Weight/kg | Remarks |
|--------------------|------------------|------------------|-----------|-------------------|
| Interlocking kelly | JS325-4X5.5m | 18 | 2530 | |
| Interlocking kelly | JS325-4X6.0m | 20 | 2800 | Recommend |
| Friction kelly | MZ273-4X7.5m | 27 | 2850 | Special provision |

SWDM80SW

Field King Kong

Operating weight: 28t

Engine power: 90kW/2200 rpm

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

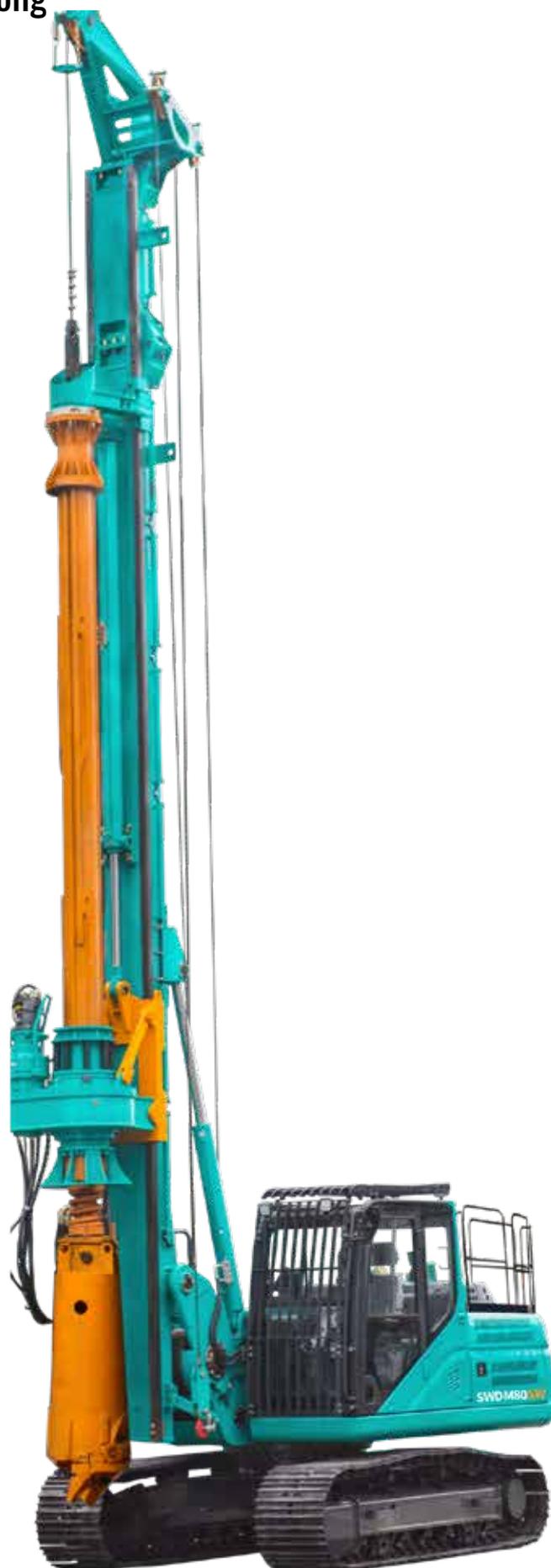
- High speed rotary.
- Fast main winch line speed.

Environment Protection & Energy

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

Exceptional Service Quality

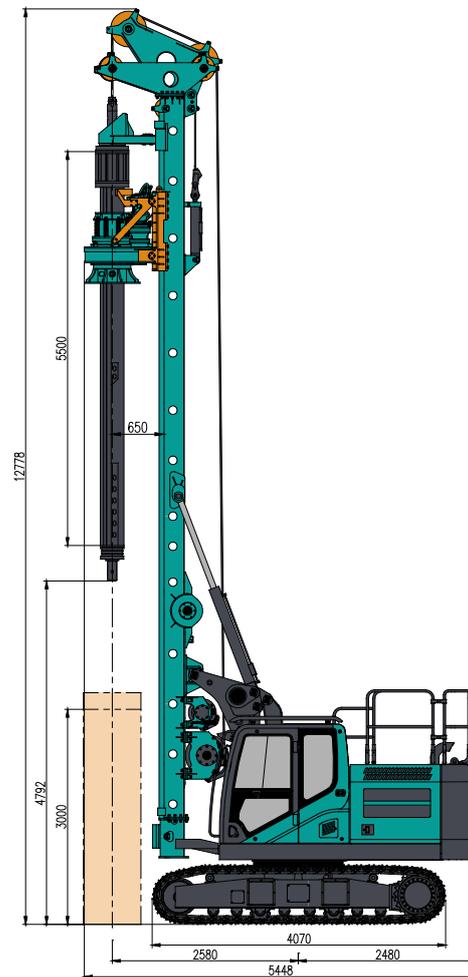
- Swift Technical Support.
- Responsive After-Sales Service.
- Efficient Parts Assistance.



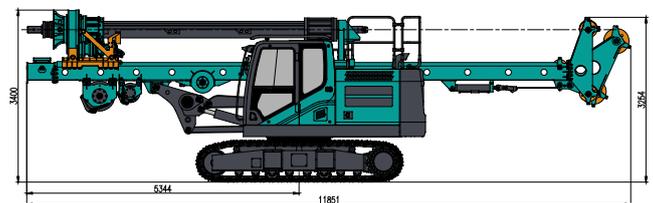
TECHNICAL PARAMETERS

| | DESCRIPTION | UNIT | PARAMETERS |
|------------------|------------------------------|--------|------------|
| DRILLING | Max. drilling diameter | mm | 1200 |
| | Max. drilling depth | m | 27/20 |
| ENGINE | Brand | | Cummins |
| | Model | | F3.8 |
| | Rated power | kW/rpm | 90/2200 |
| ROTARY | Max. torque | kN.m | 80 |
| | Speed of rotation | rpm | 8-35 |
| | High speed spin-off | rpm | 60 |
| MAIN WINCH | Max. pulling force | kN | 80 |
| | Max. line speed | m/min | 72 |
| | Rope diameter | mm | 20 |
| CROWD | Max. crowd force | kN | 100 |
| | Max. pulling force | kN | 130 |
| | Max. stroke | mm | 7500 |
| AUXILIARY WINCH | Max. pulling force | kN | 30 |
| | Max. line speed | m/min | 50 |
| | Wire rope diameter | mm | 13 |
| DRILL MAST | Inclination (Left /right) | ° | ±3 |
| | Inclination (Front and rear) | ° | 4/90 |
| CHASSIS | Crawler width | mm | 500 |
| | Crawler retractable width | mm | 2500-3400 |
| | Chassis length | mm | 4070 |
| COMPLETE MACHINE | Transportation width | mm | 2500 |
| | Operating weight | t | 28 |

Working state (unit: mm)



Transport Dimensions (unit:mm)



| KELLY | Drilling depth/m | Drilling depth/m | Weight/kg | Remarks |
|--------------------|------------------|------------------|-----------|-------------------|
| Interlocking kelly | JS325-4X5.5m | 18 | 2530 | |
| Interlocking kelly | JS325-4X6.0m | 20 | 2800 | Recommend |
| Friction kelly | MZ273-4X7.5m | 27 | 2850 | Special provision |

SWDM80SC

Field King Kong

Operating weight: 27t

Engine power: 90kW/2200 rpm

Max. drilling diameter: 800mm

“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

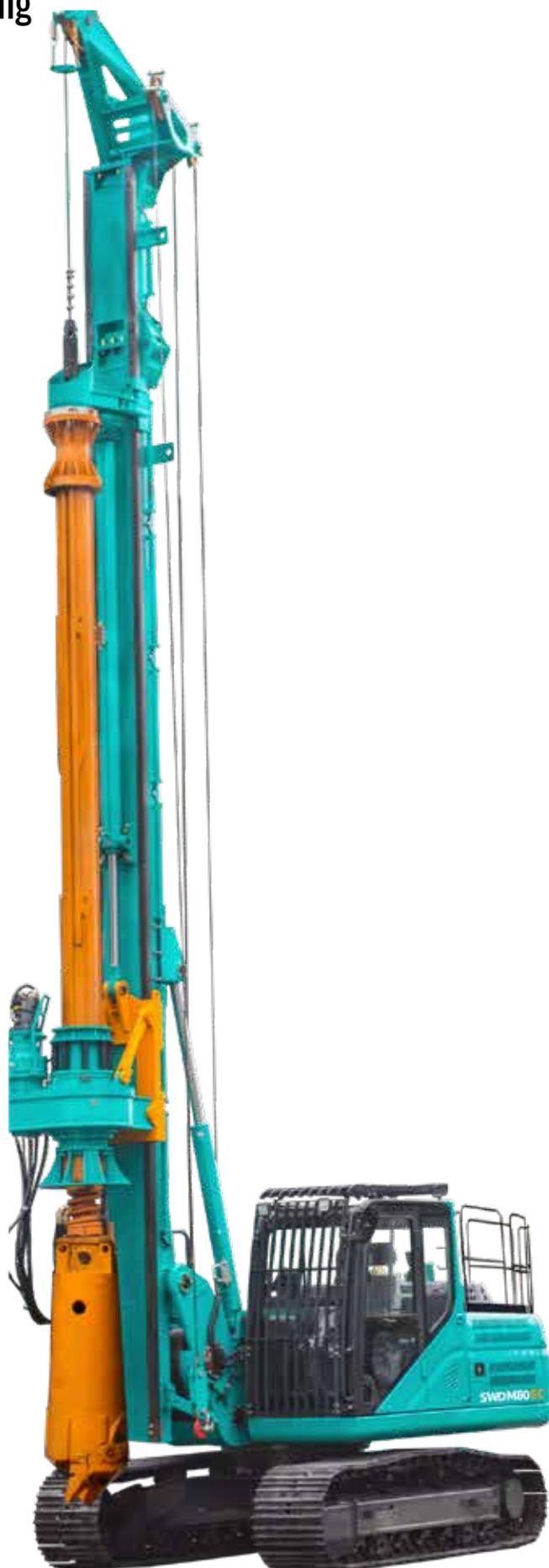
- Experience unmatched construction efficiency with our Rotary Drilling Rigs.
- Featuring dual motors and reducers for rotary motion, coupled with a rapid line speed of the main winch.
- High productivity in comprehensive construction operations.

Environment Protection & Energy

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

Exceptional Service Quality

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

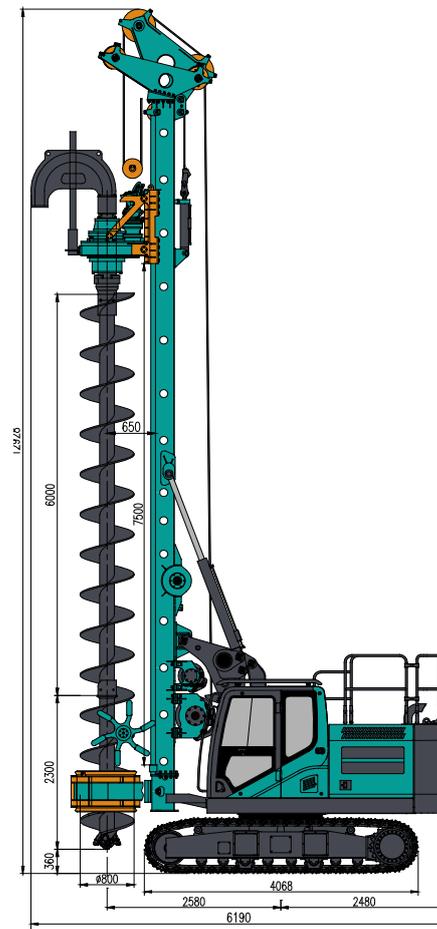


TECHNICAL PARAMETERS

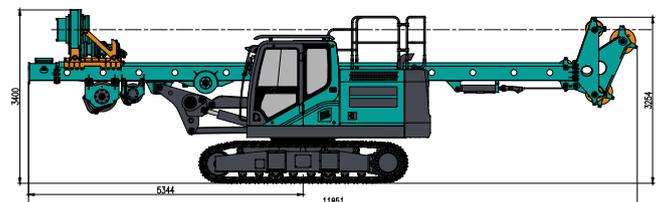
| | DESCRIPTION | UNIT | PARAMETERS |
|------------------|------------------------------|--------|------------|
| DRILLING | Max. drilling diameter | mm | 800 |
| | Max. drilling depth | m | 13 |
| ENGINE | Brand | | Cummins |
| | Model | | F3.8 |
| | Rated power | kW/rpm | 90/2200 |
| ROTARY | Max. torque | kN.m | 80 |
| | Speed of rotation | rpm | 8-35 |
| | High speed spin-off | rpm | 60 |
| MAIN WINCH | Max. pulling force | kN | 80 |
| | Max. line speed | m/min | 72 |
| | Rope diameter | mm | 20 |
| CROWD | Max. crowd force | kN | 100 |
| | Max. pulling force | kN | 130 |
| | Max. stroke | mm | 7500 |
| AUXILIARY WINCH | Max. pulling force | kN | 30 |
| | Max. line speed | m/min | 50 |
| | Wire rope diameter | mm | 13 |
| DRILL MAST | Inclination (Left /right) | ° | ±3 |
| | Inclination (Front and rear) | ° | 4/90 |
| CHASSIS | Crawler width | mm | 500 |
| | Crawler retractable width | mm | 2500-3400 |
| | Chassis length | mm | 4070 |
| COMPLETE MACHINE | Transportation width | mm | 2500 |
| | Operating weight | t | 27 |

| Drill Rod Specifications | Drilling depth/m | Remarks |
|---------------------------------------|------------------|-------------------|
| Without Kelly extension + Auger kelly | 7 | |
| 3m Kelly extension + Auger kelly | 10 | Recommend |
| 6m Kelly extension + Auger kelly | 13 | Special provision |

Working state (unit: mm)



Transport Dimensions (unit:mm)



CONSTRUCTION CASES





SWDM130S Rotary Drilling Rig

Operating weight: 37.5t

Engine power: 129kW/2200 rpm

Max. drilling diameter: 1300mm

The SWDM130S rotary drilling rig- “Electric Tower Drilling 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

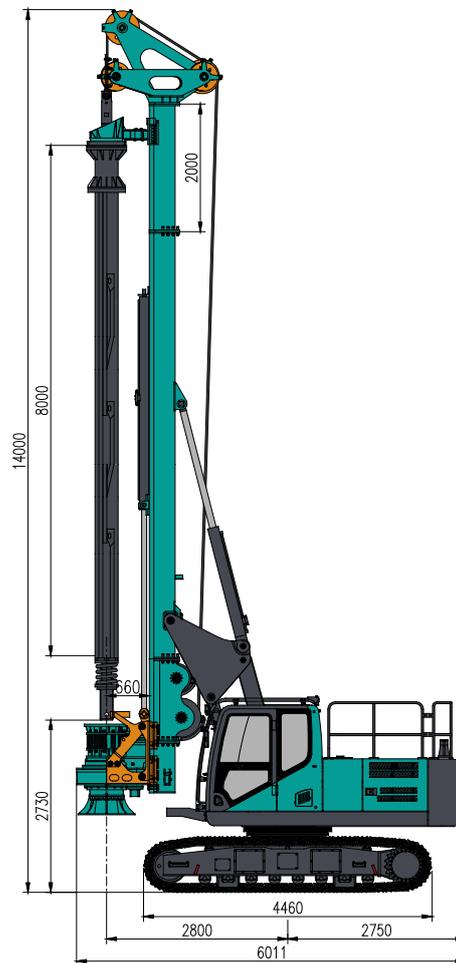
Experience exceptional speed and efficiency with our advanced Drilling Rigs. Equipped with dual motors and rotary reducers, our rigs deliver impressive torque and remarkable speed, ensuring optimal performance for your projects.



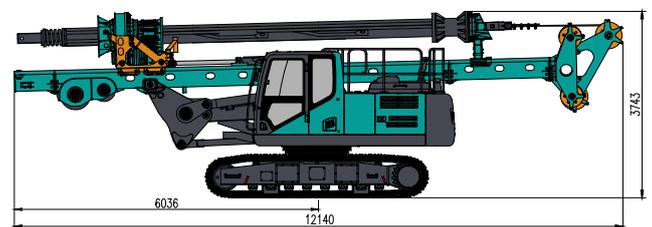
TECHNICAL PARAMETERS

| | DESCRIPTION | UNIT | PARAMETERS |
|------------------|------------------------------|--------|------------|
| DRILLING | Max. drilling diameter | mm | 1300 |
| | Max. drilling depth | m | 34/27 |
| ENGINE | Brand | | Cummins |
| | Model | | B6.7 |
| | Rated power | kW/rpm | 129/2200 |
| ROTARY | Max. torque | kN.m | 130 |
| | Speed of rotation | rpm | 6-32 |
| | High speed spin-off | rpm | 70 |
| MAIN WINCH | Max. pulling force | kN | 135 |
| | Max. line speed | m/min | 78 |
| | Rope diameter | mm | 22 |
| CROWD | Max. crowd force | kN | 120 |
| | Max. pulling force | kN | 130 |
| | Max. stroke | mm | 3000 |
| AUXILIARY WINCH | Max. pulling force | kN | 50 |
| | Max. line speed | m/min | 50 |
| | Wire rope diameter | mm | 16 |
| DRILL MAST | Inclination (Left /right) | ° | ±3 |
| | Inclination (Front and rear) | ° | 4/89 |
| CHASSIS | Crawler width | mm | 600 |
| | Crawler retractable width | mm | 2600-3500 |
| | Chassis length | mm | 4460 |
| COMPLETE MACHINE | Transportation width | mm | 2600 |
| | Operating weight | t | 37.5 |

Working state (unit: mm)



Transport Dimensions (unit:mm)



| KELLY | Drilling depth/m | Drilling depth/m | Weight/kg | Remarks |
|--------------------|------------------|------------------|-----------|-----------|
| Interlocking kelly | JS355-4X8m | 19 | 3600 | |
| Interlocking kelly | JS355-4X8m | 27 | 5000 | Recommend |
| Friction kelly | MZ355-5X8m | 34 | 4600 | |

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

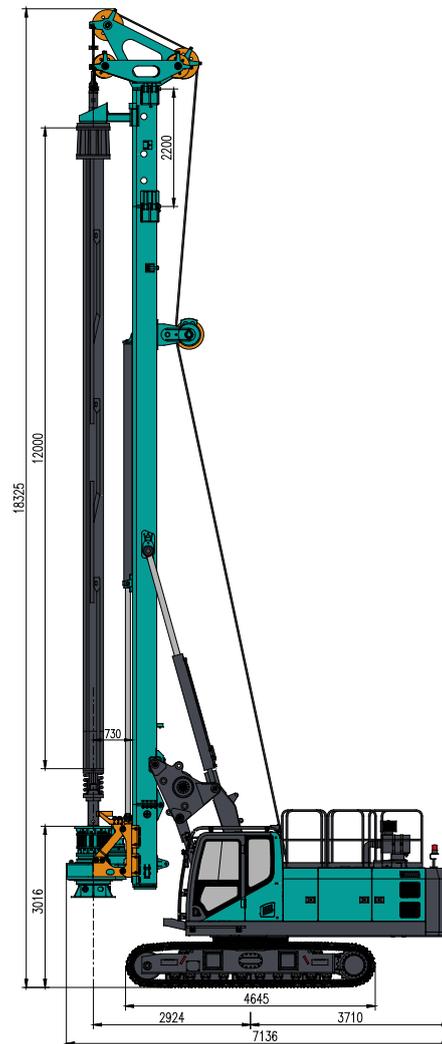
- Effortless mast elevation and lowering at the touch of a button.
- Simplified rotary reset operation with a single button press.



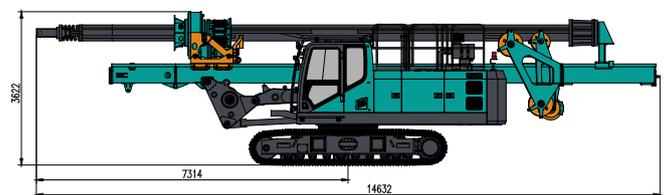
TECHNICAL PARAMETERS

| | DESCRIPTION | UNIT | PARAMETERS |
|------------------|------------------------------|--------|------------|
| DRILLING | Max. drilling diameter | mm | 1500 |
| | Max. drilling depth | m | 55/43 |
| ENGINE | Brand | | Cummins |
| | Model | | B6.7 |
| | Rated power | kW/rpm | 186/2000 |
| ROTARY | Max. torque | kN.m | 168 |
| | Speed of rotation | rpm | 6-35 |
| | High speed spin-off | rpm | 70 |
| MAIN WINCH | Max. pulling force | kN | 165 |
| | Max. line speed | m/min | 80 |
| | Rope diameter | mm | 28 |
| CROWD | Max. crowd force | kN | 150 |
| | Max. pulling force | kN | 160 |
| | Max. stroke | mm | 4000 |
| AUXILIARY WINCH | Max. pulling force | kN | 50 |
| | Max. line speed | m/min | 50 |
| | Wire rope diameter | mm | 16 |
| DRILL MAST | Inclination (Left /right) | ° | ±4 |
| | Inclination (Front and rear) | ° | 4/90 |
| CHASSIS | Crawler width | mm | 700 |
| | Crawler retractable width | mm | 2980-3980 |
| | Chassis length | mm | 4645 |
| COMPLETE MACHINE | Transportation width | mm | 2980 |
| | Operating weight | t | 49 |

Working state (unit: mm)



Transport Dimensions (unit:mm)



| KELLY | Drilling depth/m | Drilling depth/m | Weight/kg | Remarks |
|--------------------|------------------|------------------|-----------|-----------|
| Interlocking kelly | JS377-4X10m | 35 | 6270 | |
| Interlocking kelly | JS377-4X12m | 43 | 7400 | Recommend |
| Friction kelly | MZ377-5X10m | 45 | 6330 | |
| Friction kelly | MZ377-5X12m | 55 | 7400 | |

SWDM160SW Rotary Drilling Rig

Operating weight: 47t

Engine power: 186kW/2000rpm

Max. drilling diameter: 1500mm

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

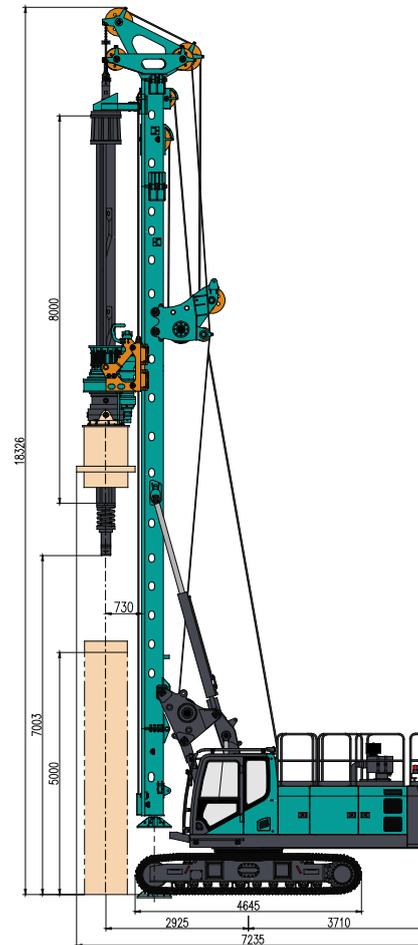
- Effortless mast elevation and lowering at the touch of a button.
- Simplified rotary reset operation with a single button press.



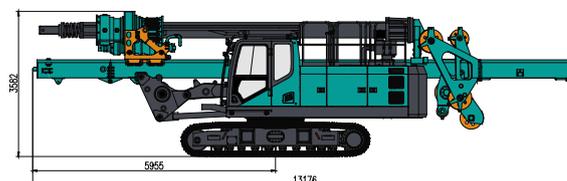
TECHNICAL PARAMETERS

| | DESCRIPTION | UNIT | PARAMETERS |
|------------------|------------------------------|--------|------------|
| DRILLING | Max. drilling diameter | mm | 1500 |
| | Max. drilling depth | m | 55/43 |
| ENGINE | Brand | | Cummins |
| | Model | | B6.7 |
| | Rated power | kW/rpm | 186/2000 |
| ROTARY | Max. torque | kN.m | 168 |
| | Speed of rotation | rpm | 6-35 |
| MAIN WINCH | Max. pulling force | kN | 165 |
| | Max. line speed | m/min | 80 |
| | Rope diameter | mm | 28 |
| CROWD | Max. crowd force | kN | 240 |
| | Max. pulling force | kN | 240 |
| | Max. stroke | mm | 12400 |
| AUXILIARY WINCH | Max. pulling force | kN | 50 |
| | Max. line speed | m/min | 50 |
| | Wire rope diameter | mm | 16 |
| DRILL MAST | Inclination (Left /right) | ° | ±4 |
| | Inclination (Front and rear) | ° | 4/90 |
| CHASSIS | Crawler width | mm | 700 |
| | Crawler retractable width | mm | 2980-3980 |
| | Chassis length | mm | 4645 |
| COMPLETE MACHINE | Transportation width | mm | 2980 |
| | Operating weight | t | 47 |

Working state (unit: mm)



Transport Dimensions (unit:mm)



| KELLY | Drilling depth/m | Drilling depth/m | Weight/kg | Remarks |
|--------------------|------------------|------------------|-----------|-----------|
| Interlocking kelly | JS377-4X8m | 27 | 5200 | Recommend |
| Interlocking kelly | JS377-4X10m | 35 | 6270 | |
| Interlocking kelly | JS377-4X12m | 43 | 7400 | |
| Friction kelly | MZ377-5X10m | 45 | 6327 | |
| Friction kelly | MZ377-5X12m | 55 | 7400 | |

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.

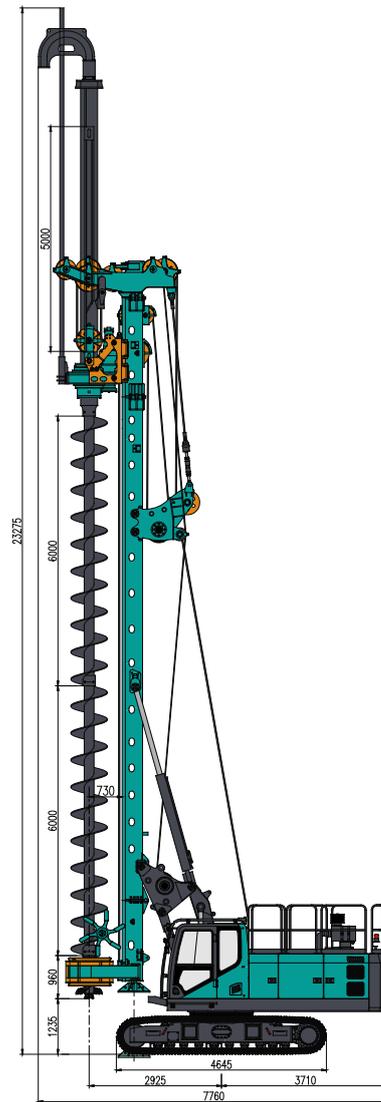


TECHNICAL PARAMETERS

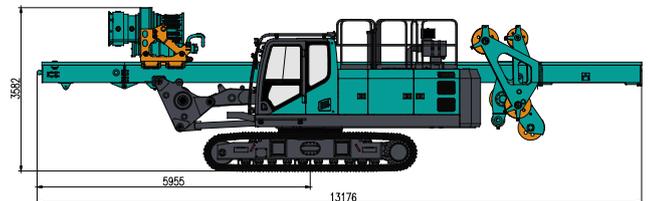
| | DESCRIPTION | UNIT | PARAMETERS |
|------------------|------------------------------|--------|------------|
| DRILLING | Max. drilling diameter | mm | 800 |
| | Max. drilling depth | m | 18 |
| ENGINE | Brand | | Cummins |
| | Model | | B6.7 |
| | Rated power | kW/rpm | 186/2000 |
| ROTARY | Max. torque | kN.m | 168 |
| | Speed of rotation | rpm | 6-35 |
| MAIN WINCH | Max. pulling force | kN | 165 |
| | Max. line speed | m/min | 80 |
| | Rope diameter | mm | 28 |
| CROWD | Max. crowd force | kN | 240 |
| | Max. pulling force | kN | 240 |
| | Max. stroke | mm | 12400 |
| AUXILIARY WINCH | Max. pulling force | kN | 50 |
| | Max. line speed | m/min | 50 |
| | Wire rope diameter | mm | 16 |
| DRILL MAST | Inclination (Left /right) | ° | ±4 |
| | Inclination (Front and rear) | ° | 4/90 |
| CHASSIS | Crawler width | mm | 700 |
| | Crawler retractable width | mm | 2980-3980 |
| | Chassis length | mm | 4645 |
| COMPLETE MACHINE | Transportation width | mm | 2980 |
| | Operating weight | t | 46 |

| Drill rod specifi | Drilling depth/m | Remarks |
|---------------------------------------|------------------|-------------------|
| Without Kelly extension + auger kelly | 11 | Recommend |
| 3m Kelly extension + auger kelly | 15 | |
| 5m Kelly extension + auger kelly | 17 | |
| 6m Kelly extension + auger kelly | 18 | Special provision |

Working state (unit: mm)



Transport Dimensions (unit:mm)



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

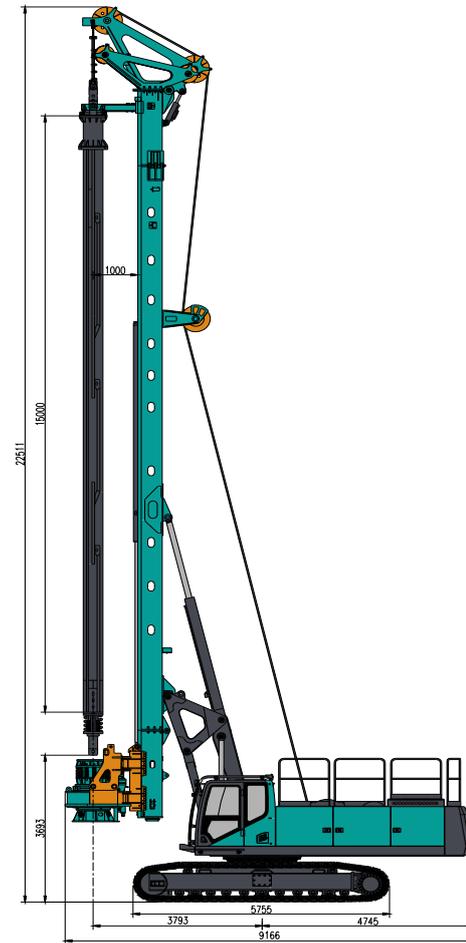
The lower mast is equipped with a concealed telescopic outrigger, which assists in placing the casing and facilitates maintenance of the chassis.



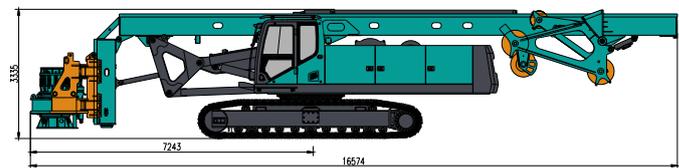
TECHNICAL PARAMETERS

| | DESCRIPTION | UNIT | PARAMETERS |
|------------------|--------------------------------|--------|------------|
| DRILLING | Max. drilling diameter | mm | 2000 |
| | Max. drilling depth | m | 69/54 |
| ENGINE | Brand | | Cummins |
| | Model | | L9 |
| | Rated power | kW/rpm | 252/1800 |
| ROTARY | Max. torque | kN.m | 248 |
| | Speed of rotation | rpm | 6-28 |
| | High speed spin-off (optional) | rpm | 70 |
| MAIN WINCH | Max. pulling force | kN | 280 |
| | Max. line speed | m/min | 72 |
| | Rope diameter | mm | 32 |
| CROWD | Max. crowd force | kN | 210 |
| | Max. pulling force | kN | 240 |
| | Max. stroke | mm | 5000 |
| AUXILIARY WINCH | Max. pulling force | kN | 80 |
| | Max. line speed | m/min | 58 |
| | Wire rope diameter | mm | 20 |
| DRILL MAST | Inclination (Left /right) | ° | ±5 |
| | Inclination (Front and rear) | ° | 5/90 |
| CHASSIS | Crawler width | mm | 800 |
| | Crawler retractable width | mm | 3000-4500 |
| | Chassis length | mm | 5755 |
| COMPLETE MACHINE | Transportation width | mm | 3000 |
| | Operating weight | t | 77 |

Working state (unit: mm)



Transport Dimensions (unit:mm)



| Kelly | Drilling depth/m | Drilling depth/m | Weight/kg | Remarks |
|--------------------|------------------|------------------|-----------|-----------|
| Interlocking kelly | JS440-4X15m | 54 | 10700 | Recommend |
| Friction kelly | MZ440-5X15m | 69 | 11900 | |

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

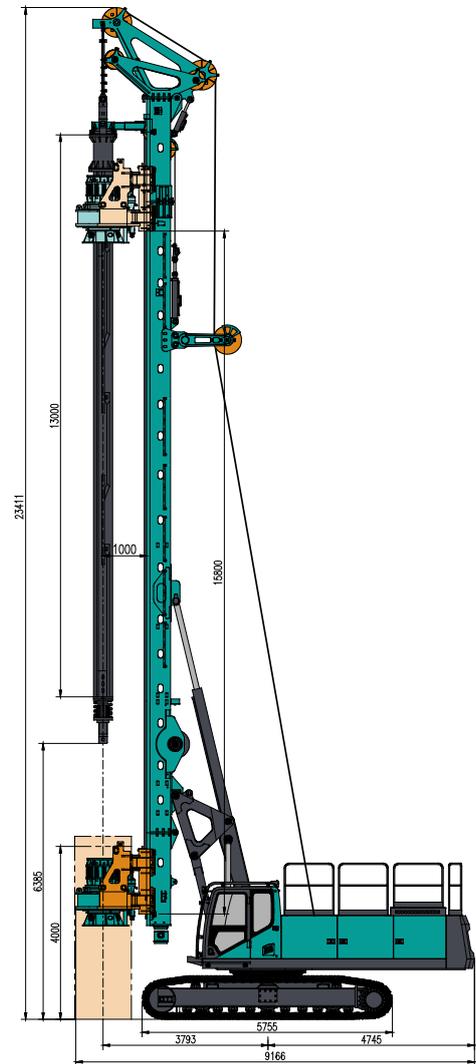
The lower mast is equipped with a concealed telescopic outrigger, which assists in placing the casing and facilitates maintenance of the chassis.



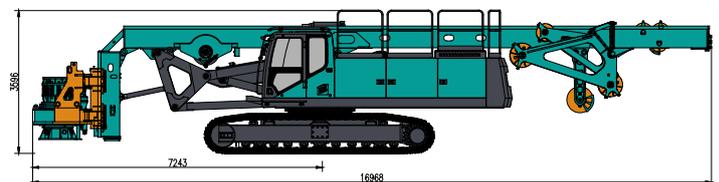
TECHNICAL PARAMETERS

| | DESCRIPTION | UNIT | PARAMETERS |
|------------------|--------------------------------|--------|------------|
| DRILLING | Max. drilling diameter | mm | 1800 |
| | Max. drilling depth | m | 69/54 |
| ENGINE | Brand | | Cummins |
| | Model | | L9 |
| | Rated power | kW/rpm | 252/1800 |
| ROTARY | Max. torque | kN.m | 248 |
| | Speed of rotation | rpm | 6-28 |
| | High speed spin-off (optional) | rpm | 70 |
| MAIN WINCH | Max. pulling force | kN | 280 |
| | Max. line speed | m/min | 72 |
| | Rope diameter | mm | 32 |
| CROWD | Max. crowd force | kN | 270 |
| | Max. pulling force | kN | 270 |
| | Max. stroke | mm | 15800 |
| AUXILIARY WINCH | Max. pulling force | kN | 80 |
| | Max. line speed | m/min | 58 |
| | Wire rope diameter | mm | 20 |
| DRILL MAST | Inclination (Left /right) | ° | ±5 |
| | Inclination (Front and rear) | ° | 5/90 |
| CHASSIS | Crawler width | mm | 800 |
| | Crawler retractable width | mm | 3000-4500 |
| | Chassis length | mm | 5755 |
| COMPLETE MACHINE | Transportation width | mm | 3000 |
| | Operating weight | t | 76 |

Working state (unit: mm)



Transport Dimensions (unit-mm)



| Kelly | Drilling depth/m | Drilling depth/m | Weight/kg | Remarks |
|--------------------|------------------|------------------|-----------|-----------|
| Interlocking kelly | JS377-4X10m | 46 | 9420 | Recommend |
| Interlocking kelly | JS377-4X12m | 54 | 10700 | |
| Friction kelly | MZ377-5X10m | 69 | 11900 | |

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

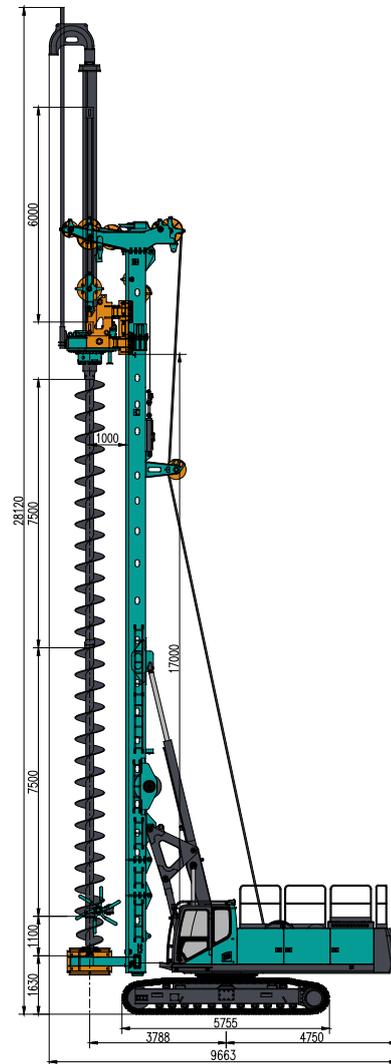
The lower mast is equipped with a concealed telescopic outrigger, which assists in placing the casing and facilitates maintenance of the chassis.



TECHNICAL PARAMETERS

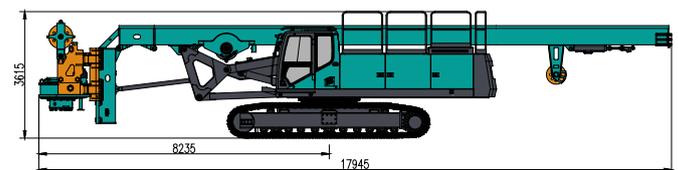
| | DESCRIPTION | UNIT | PARAMETERS |
|------------------|------------------------------|--------|------------|
| DRILLING | Max. drilling diameter | mm | 1000 |
| | Max. drilling depth | m | 22 |
| ENGINE | Brand | | Cummins |
| | Model | | L9 |
| | Rated power | kW/rpm | 252/1800 |
| ROTARY | Max. torque | kN.m | 248 |
| | Speed of rotation | rpm | 6-28 |
| MAIN WINCH | Max. pulling force | kN | 280 |
| | Max. line speed | m/min | 72 |
| | Rope diameter | mm | 32 |
| CROWD | Max. crowd force | kN | 270 |
| | Max. pulling force | kN | 270 |
| | Max. stroke | mm | 17000 |
| AUXILIARY WINCH | Max. pulling force | kN | 80 |
| | Max. line speed | m/min | 58 |
| | Wire rope diameter | mm | 20 |
| DRILL MAST | Inclination (Left /right) | ° | ±5 |
| | Inclination (Front and rear) | ° | 5/90 |
| CHASSIS | Crawler width | mm | 800 |
| | Crawler retractable width | mm | 3000-4500 |
| | Chassis length | mm | 5755 |
| COMPLETE MACHINE | Transportation width | mm | 3000 |
| | Operating weight | t | 73 |

Working state (unit: mm)



| Drill rod specifi | Drilling depth/m | Remarks |
|---------------------------------------|------------------|-----------|
| Without Kelly extension + auger kelly | 15 | Recommend |
| 3m Kelly extension + auger kelly | 19 | |
| 5m Kelly extension + auger kelly | 21 | |
| 6m Kelly extension + auger kelly | 22 | |

Transport Dimensions (unit:mm)







Construction Project: Melbourne Sunshine Station

Expansion Project Australia

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

Average hole depth: 3m

Stratigraphic conditions: basalt (clay)

Drilling diameter: 600m - 1500m.

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

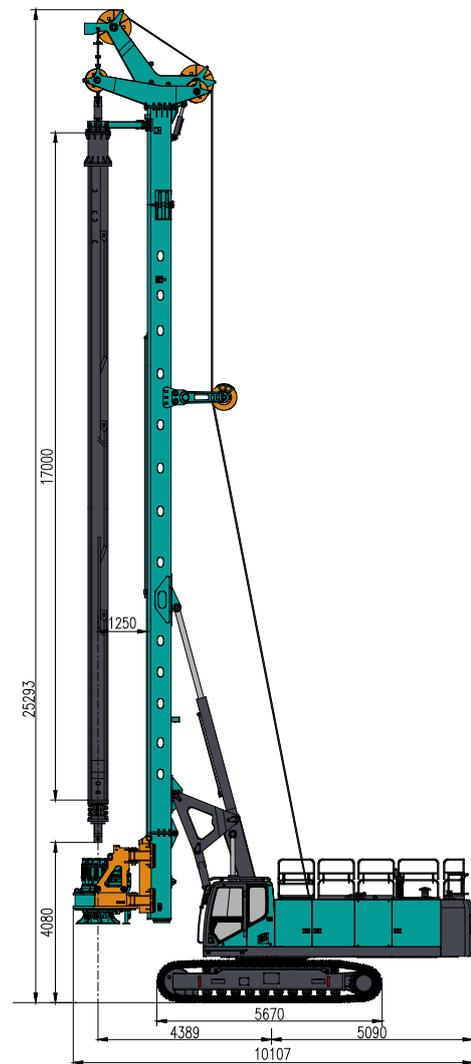
- Centralized quantitative lubrication as standard, which is convenient and trouble-free.
- Lower mast equipped with a concealed telescopic outrigger, which assists in placing the casing and facilitates maintenance of the chassis.



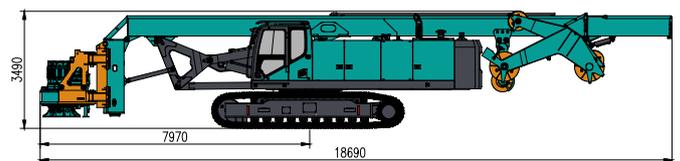
TECHNICAL PARAMETERS

| | DESCRIPTION | UNIT | PARAMETERS |
|------------------|------------------------------|--------|------------|
| DRILLING | Max. drilling diameter | mm | 2500 |
| | Max. drilling depth | m | 95/62 |
| ENGINE | Brand | | Cummins |
| | Model | | X12 |
| | Rated power | kW/rpm | 321/2100 |
| ROTARY | Max. torque | kN.m | 330 |
| | Speed of rotation | rpm | 6-32 |
| MAIN WINCH | Max. pulling force | kN | 370 |
| | Max. line speed | m/min | 80 |
| | Rope diameter | mm | 36 |
| CROWD | Max. crowd force | kN | 260 |
| | Max. pulling force | kN | 280 |
| | Max. stroke | mm | 6000 |
| AUXILIARY WINCH | Max. pulling force | kN | 110 |
| | Max. line speed | m/min | 65 |
| | Wire rope diameter | mm | 24 |
| DRILL MAST | Inclination (Left /right) | ° | ±4 |
| | Inclination (Front and rear) | ° | 5/90 |
| CHASSIS | Crawler width | mm | 900 |
| | Crawler retractable width | mm | 3000-4500 |
| | Chassis length | mm | 5700 |
| COMPLETE MACHINE | Transportation width | mm | 3000 |
| | Operating weight | t | 106 |

Working state (unit: mm)



Transport Dimensions (unit:mm)



| Kelly | Drilling depth/m | Drilling depth/m | Weight/kg | Remarks |
|--------------------|------------------|------------------|-----------|-----------|
| Interlocking kelly | JS508-4X17m | 62 | 15800 | Recommend |
| Friction kelly | MZ508-6X17m | 95 | 1700 | |

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

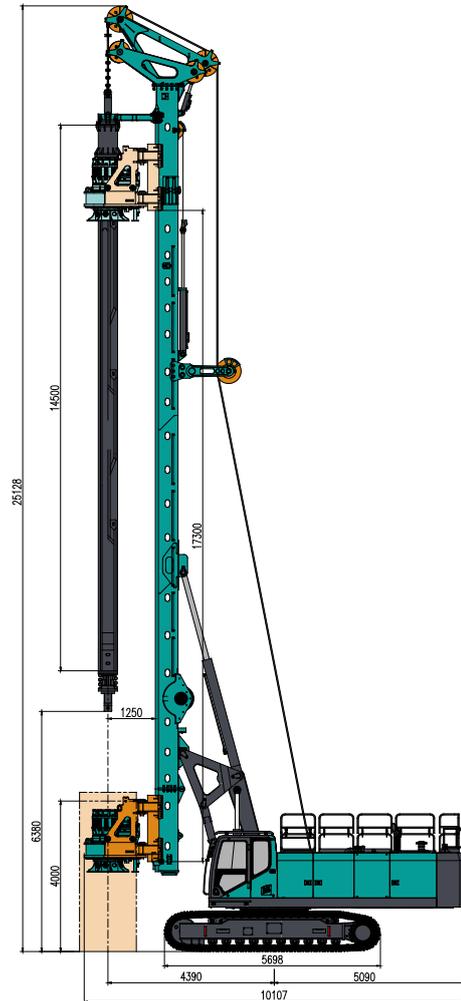
Fully-cased Kelly drilling, FDP.



TECHNICAL PARAMETERS

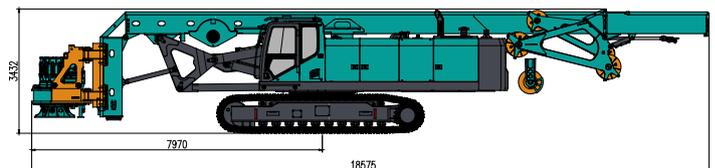
| | DESCRIPTION | UNIT | PARAMETERS |
|------------------|------------------------------|--------|------------|
| DRILLING | Max. drilling diameter | mm | 2300 |
| | Max. drilling depth | m | 95/62 |
| ENGINE | Brand | | Cummins |
| | Model | | X12 |
| | Rated power | kW/rpm | 321/2100 |
| ROTARY | Max. torque | kN.m | 330 |
| | Speed of rotation | rpm | 6-32 |
| MAIN WINCH | Max. pulling force | kN | 370 |
| | Max. line speed | m/min | 80 |
| | Rope diameter | mm | 36 |
| CROWD | Max. crowd force | kN | 280 |
| | Max. pulling force | kN | 280 |
| | Max. stroke | mm | 17300 |
| AUXILIARY WINCH | Max. pulling force | kN | 110 |
| | Max. line speed | m/min | 65 |
| | Wire rope diameter | mm | 24 |
| DRILL MAST | Inclination (Left /right) | ° | ±4 |
| | Inclination (Front and rear) | ° | 5/90 |
| CHASSIS | Crawler width | mm | 900 |
| | Crawler retractable width | mm | 3000-4500 |
| | Chassis length | mm | 5700 |
| COMPLETE MACHINE | Transportation width | mm | 3000 |
| | Operating weight | t | 104 |

Working state (unit: mm)



| Kelly | Drilling depth/m | Drilling depth/m | Weight/kg | Remarks |
|--------------------|------------------|------------------|-----------|-----------|
| Interlocking kelly | JS508-4X14.5m | 52 | 13700 | Recommend |
| Interlocking kelly | JS508-4X17m | 62 | 15800 | |
| Friction kelly | MZ508-6X17m | 95 | 1700 | |

Transport Dimensions (unit:mm)



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 $\varnothing 580$ mm 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

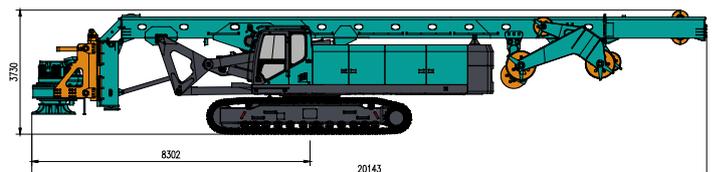
| | DESCRIPTION | UNIT | PARAMETERS |
|------------------|------------------------------|--------|------------|
| DRILLING | Max. drilling diameter | mm | 2500 |
| | Max. drilling depth | m | 100/66 |
| ENGINE | Brand | | Cummins |
| | Model | | X15 |
| | Rated power | kW/rpm | 410/2100 |
| ROTARY | Max. torque | kN.m | 418 |
| | Speed of rotation | rpm | 6-25 |
| MAIN WINCH | Max. pulling force | kN | 390 |
| | Max. line speed | m/min | 76 |
| | Rope diameter | mm | 40 |
| CROWD | Max. crowd force | kN | 340 |
| | Max. pulling force | kN | 380 |
| | Max. stroke | mm | 13,000 |
| AUXILIARY WINCH | Max. pulling force | kN | 110 |
| | Max. line speed | m/min | 65 |
| | Wire rope diameter | mm | 24 |
| DRILL MAST | Inclination (Left /right) | ° | ±4 |
| | Inclination (Front and rear) | ° | 5/90 |
| CHASSIS | Crawler width | mm | 900 |
| | Crawler retractable width | mm | 3300-4800 |
| | Chassis length | mm | 6120 |
| COMPLETE MACHINE | Transportation width | mm | 3300 |
| | Operating weight | t | 133 |

Working state (unit: mm)



| Kelly | Drilling depth/m | Drilling depth/m | Weight/kg | Remarks |
|--------------------|------------------|------------------|-----------|-----------|
| Interlocking kelly | JS580-4X14.0m | 48 | 16140 | |
| Interlocking kelly | JS580-4X15.5m | 54 | 17110 | Recommend |
| Interlocking kelly | JS580-4X18.4m | 66 | 19900 | |
| Friction kelly | MZ580-6X18.4m | 100 | 2100 | |

Transport Dimensions (unit:mm)





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 complete 6 # pier has a diameter of 4.5 m, a drilling depth of about 6.0 m, and enters 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 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 Whuan-Yichang Hi-Speed Railway (Jingmen)

Equipment Model

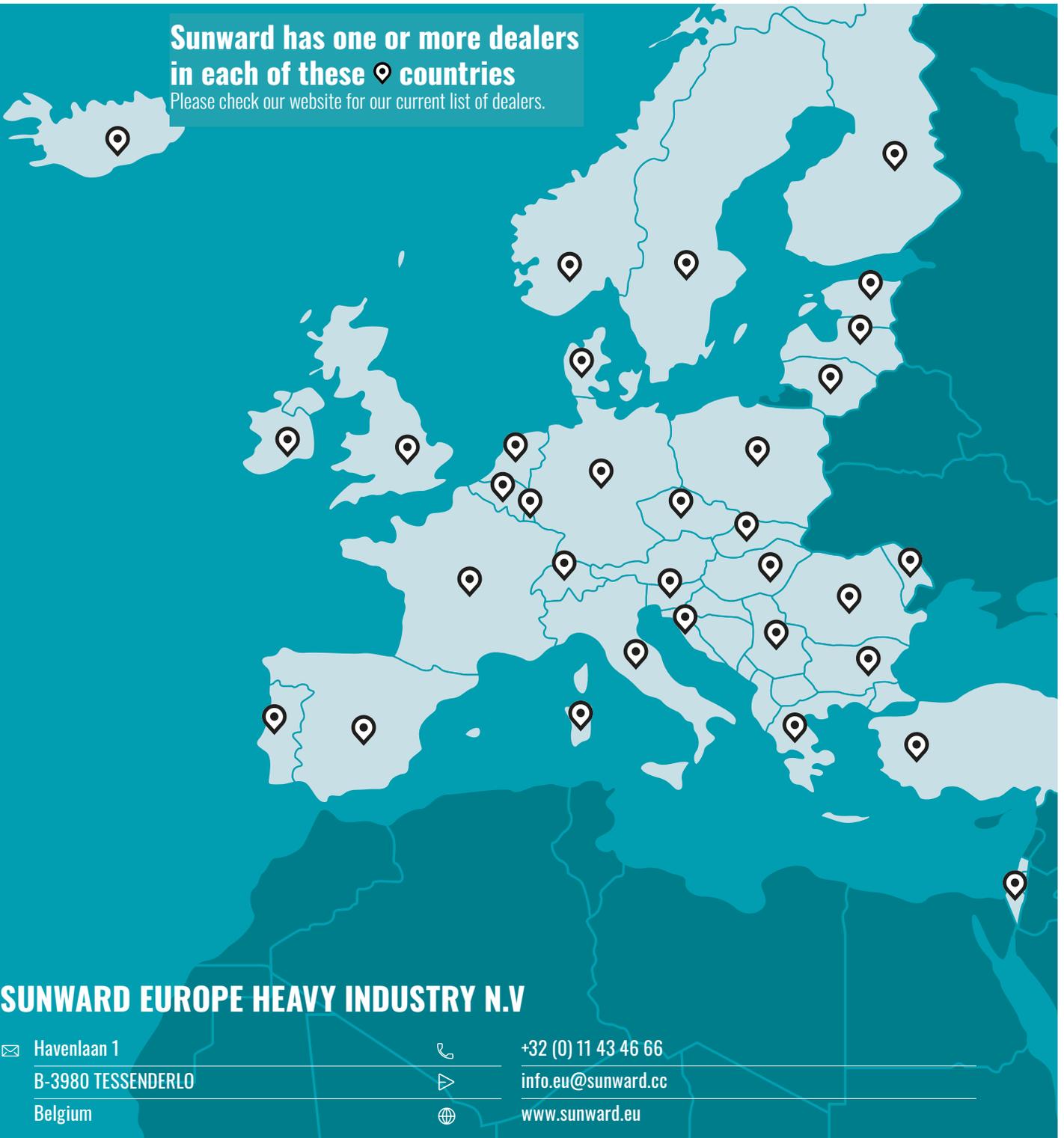
SWDMS50H

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.

**Sunward has one or more dealers
in each of these 📍 countries**

Please check our website for our current list of dealers.



SUNWARD EUROPE HEAVY INDUSTRY N.V

✉ Havenlaan 1
B-3980 TESSENDERLO
Belgium



+32 (0) 11 43 46 66



info.eu@sunward.cc



www.sunward.eu

DEALER CONTACTS