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#### SUNWARD INTELLIGENT FOULPMENT CO. LTD.

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(a) f in (b)

@Sunward Group

The above parameters may be different due to product upgardin

# SWDM215

### MAIN TECHNICAL FEATURES

#### MAX. DRILLING DIAMETER:

1500mm

MAX. DRILLING DEPTH:

72 m

MAX. TORQUE:

215 kN·m

#### **ENGINE:**

EU stage  $\lor$  / US EPA Tire 4F :

252 kW @ 1800 rpm

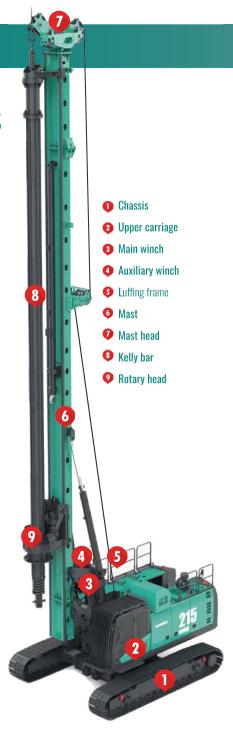
EU stage III: 194 kW @ 2200 rpm

#### MAX. HEIGHT:

21.8 m

### **OPERATING WEIGHT:**

65 t



### **HIGHLIGHTS**





FULL-VIEW CAMERA, EMERGENCY STOP SWITCH, GUARDRAIL AND OTHER SAFETY DEVICES



ELECTRICAL SYSTEM: 1.ONE-TOUCH CASING EXTRACTION 2.ONE-TOUCH SOIL THROWING

3.0NE-TOUCH LIFTING

4.ROCK ENTRY MODE 5.ROTATION RESET



OWER HEAD:

STANDARD WITH HIGH-SPEED SOIL THROWING, DRIVE KEY STRIP IS EASY TO MAINTAIN ACCUMULATOR IMPACT PROTECTION SEAL, EXTENDING THE LIFE OF THE POWER HEAD MOTOR



SWDM215 has been designed for versatility and resilience. This state-of-the-art machine delivers high performance even in the most challenging conditions with a focus on operator comfort and safety.

Compatible with all drilling technologies, the machine Plug & Play system simplifies setup and operation, making it easier than ever to switch between different drilling methods.

#### Efficiency & Productivity

Improved performance and functionality with many automatic solutions to simplify and protect the operator's job.Powerful engine, high performing rotary head, fast and powerful winches, are the key to improve efficiency and productivity onsite.

#### Environment Protections

Powerful Cummins Diesel Engine EU stage V / US EPA Tier 4f, with auto idle control system for fuel saving and low noise emission level, one of the lowest in i ts category.

#### SUNWARD Aftersales Quality System

In Sunward we believe that a proactive and efficient after-sales organization is playing a pivotal role in our customers' success. This is the reason we globally invested in spare parts stock and skilled service engineers. Thanks to our Sunward Drill System, an electronic System for drilling equipment control, production supervision and fleet management, we can support our customers in their daily operations and trouble shootings onsite, wherever they are in the world

# 6 MACHINE KEY FEATURES



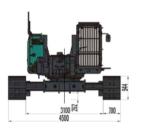
## SWDM215 TECHNICAL PARAMETER

### UNDERCARRIAGE

OVERALL WIDTH WITH RETRACTED CRAWLERS	2980 mm	9 ft 9 in
OVERALL WIDTH WITH EXTENDED CRAWLERS	4500 mm	14 ft 9 in
WIDTH OF TRIPLE GROUSER TRACK SHOES	700 mm	2 ft 4 in
OVERALL LENGTH OF CRAWLERS	5688 mm	18 ft 8 in
TRACTION FORCE (EFFECTIVE / NOMINAL)	490 / 80 kN	110,155 lbf / 130.39lbf
TRAVELLING SPEED	1.55 km/h	0.96 mph







#### ENGINE

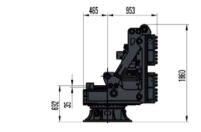
LITATIVE		
ENGINE MODEL	Cummins L9	Cummins L9
POWER RATING	252 kW @ 1800 rpm	194KW@2200rpm
ENGINE EMISSION	EU stage V /US EPA Tire 4f	EU stage III
FUEL TANK CAPACITY	465 L	465 L
AD BLUE TANK CAPACITY	31 L	31 L

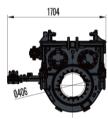
### HYDRAULIC SYSTEM

MAIN PUMPS FLOW	2X234 L/min	2X234 L/min
HYDRAULIC OIL TANK CAPACITY	597 L	597 L
HYDRAULIC PRESSURE	320 bar	4641 pst

### ROTARY HEAD

the state of the s		
MAX. NOMINAL TORQUE	215 kN.m	158,612 lbf.ft
SPEED OF ROTATION	6~32 rpm	6~32 rpm
SPIN OFF SPEED	-	-
WEIGHT	4 t	8,818 lbs











**Rotary head** 



2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34

Speed of rotation n in [rpm]

## SWDM215 TECHNICAL PARAMETER

# SWDM215 STANDARD CONFIGURATION & OPTIONS

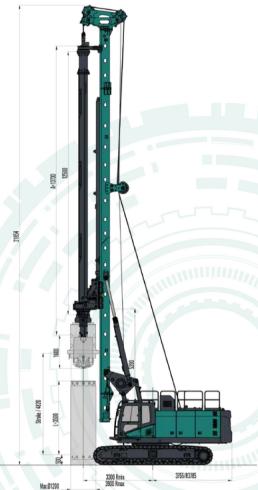
MAIN WINCH		
FIRST LAYER LINE PULL (EFFECTIVE)	210 kN	47,240 lbf
LINE SPEED (MAX.)	76 m/min	249.3 ft/min
ROPE DIAMETER	28 mm	1.1 in
AUXILIARY WINCH	00.111	47.004.114
FIRST LAYER LINE PULL (EFFECTIVE)	80 kN	17,984 lbf
LINE SPEED (MAX.)	50 m/min	164 ft/min
ROPE DIAMETER	20 mm	0.79 in
NOISE EMISSION		
SOUND PRESSURE LEVEL IN CABIN – STAGE V (EN 16228, ANNEX B)	LPA 80 db	LPA 80 db
SOUND POWER LEVEL (2000/14/EC AND EN 16228, ANNEX B)	LWA 109 db	LWA 109 db
SOUND TOWER LEVEL (2000/ 14/10 AND EN 10220, ANNEX D)	LWA 105db	LWA 105 UD
_		
CYLINDER CROWD SYSTEM		
STROKE	5200 mm	17 ft 1 in
CROWD FORCE PULL (NOMINAL)	280 kN	62,947 lbf
CROWD FORCE PUSH	140 kN	31,473 lbf
SPEED UP (MAX.)	16 m/min	52.5 ft/min
SPEED DOWN (MAX.)	14 m/min	45.9 ft/min
` '		
WINCH CROWD SYSTEM		
STROKE	/	/
CROWD FORCE PULL (NOMINAL)	/	/
CROWD FORCE PUSH (NOMINAL)	/	/
SPEED UP (MAX.)	/	/
SPEED DOWN (MAX.)	/	/
ROPE DIAMETER	1	/

NOTE: ●STANDARD; ○OPTION;	CCS
UNDERCARRIAGE	
VARIABLE GAUGE, TELESCOPIC SIDE FRAMES	•
MACHINE ANCHOR POINTS FOR TRANSPORT	•
UPPER STRUCTURE	
DIESEL ENGINE EU STAGE V - US EPA TIRE 4F	•
ON-BOARD LIGHTING SYSTEM LED	•
AIR-CONDITIONING SYSTEM	•
RADIO	
AIR-CUSHIONED OPERATOR'S SEAT (NO SEAT HEATING)	•
PROTECTIVE ROOF GUARD	•
ENGINE DIAGNOSTIC SYSTEM	•
FRONT PROTECTIVE GRILLE	•
360 DEGREE CAREMA	•
REARVIEW MIRRORS	•
LIGHTING SYSTEM IN FRONT OF THE JOB	•
ROTARY HEAD	
ROTATE HIGH SPEED	×
TRIGGER PLATE	•
CARDANIC JOINT	
EXCHANGEABLE KELLY DRIVE KEYS	•
MAST INCLINATION MEASUREMENT ON X/Y AXES	•
ELECTRIC LOAD CELL ON MAIN ROPE	•
SPEED SENSING DEVICE ON ROTARY DRIVE	•
AUTOMATIC CROWD CONTROL	•
CASING EXTRACTION ASSISTANT	
SLEWING ANGLE DISPLAY FOR UPPER CARRIAGE	•
H-TYPE KINEMATIC SYSTEM	•
SWIVEL FOR MAIN ROPE	•
CFA KIT	
UPPER KELLY GUIDE	•

# SWDM215 WORKING DIMENSION



CCS

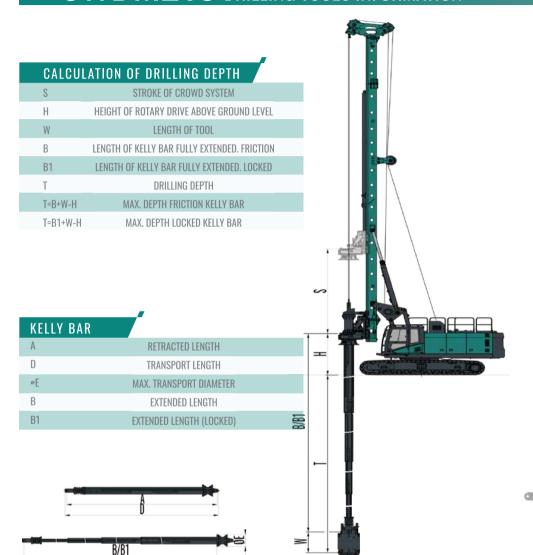


**Cased Kelly Drilling** 

	Kelly Bar	Casing Length L	Casing Shoe Length L1	Sand Bucket Height L2
SWDM215S	JS406-4x12.5m	4m	0.5m	1600mm

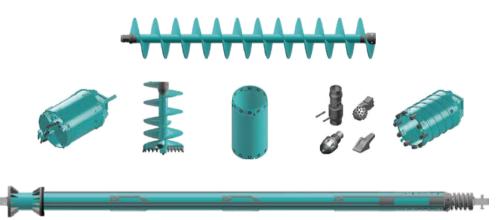
Drawing not to scale. All technical data is purely indicative and subject to change without notice.

## SWDM215 DRILLING TOOLS INFORMATION



K	Celly	A		B/I	B1	D		Q	) E	Wei	ght	Drilling	depth	CCS	H1
Туре	Dimension	mm	ft	mm	ft	mm	ft	mm	ft	kg	t(US)	m	ft	mm	ft
Locked	JS406-4X9.0m	10230	33.6	32335	106.1	10395	34.1	580	1.9	5259.0	5.8	31.3	102.8	6493	21.3
Locked	JS406-4X10.0m	11230	36.8	36335	119.2	11395	37.4	580	1.9	5762.0	6.4	35.3	115.9	6493	21.3
Locked	JS406-4X11.0m	12230	40.1	40335	132.3	12395	40.7	580	1.9	6265.0	6.9	39.3	129.1	6493	21.3
Locked	JS406-4X12.0m	13230	43.4	44335	145.5	13395	43.9	580	1.9	6768.0	7.5	43.3	142.2	6493	21.3
Locked	JS406-4X13.0m	14230	46.7	48335	158.6	14395	47.2	580	1.9	7270.0	8.0	47.3	155.3	5993	19.7
Locked	JS406-4X14.0m	15230	50.0	52335	171.7	15395	50.5	580	1.9	7773.0	8.6	51.3	168.4	4993	16.4
Locked	JS406-4X15.5m	16730	54.9	58335	191.4	16895	55.4	580	1.9	8527.0	9.4	57.3	188.1	3493	11.5
Friction	MZ406-5X9.0	10230	33.6	40830	134.0	10395	34.1	580	1.9	5567.0	6.1	39.8	130.7	6493	21.3
Friction	MZ406-5X10.0	11230	36.8	45830	150.4	11395	37.4	580	1.9	6067.0	6.7	44.8	147.1	6493	21.3
Friction	MZ406-5X11.0	12230	40.1	50830	166.8	12395	40.7	580	1.9	6566.0	7.2	49.8	163.5	6493	21.3
Friction	MZ406-5X12.0	13230	43.4	55830	183.2	13395	43.9	580	1.9	7065.0	7.8	54.8	179.9	6493	21.3
Friction	MZ406-5X13.0m	14230	46.7	60830	199.6	14395	47.2	580	1.9	7564.0	8.3	59.8	196.3	5993	19.7
Friction	MZ406-5X14.0m	15230	50.0	65830	216.0	15395	50.5	580	1.9	8063.0	8.9	64.8	212.7	4993	16.4
Friction	MZ406-5X15.5m	16730	54.9	73330	240.6	16895	55.4	580	1.9	8811.0	9.7	72.3	237.3	3493	11.5

SWDM215 supports various drilling tools to meet construction site needs.

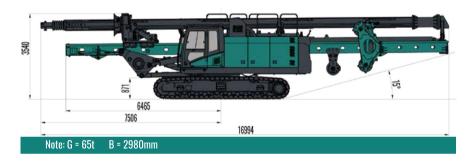


## SWDM215 TRANSPORT DATA

### TRANSPORT

G = Weight B = Width, overall

### CCS



### REFERENCE



Transportability
SWDM215 is a 65-ton class machine including the Kelly bar designed for faster and efficient set up on site.

## SWDM ROTARY DRILLINF RIGS RANGE OVERVIEW--PRO SERIES



SWDM245

SWDM325

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