

AN INTERNATIONAL OUTLOOK, A PERSONALIZED SERVICE

CMAC *SPLH II*

CMAC-Thyssen Production drilling rigs **SPLH II - SELF-PROPELLED LONG HOLE**



The CMAC SPLH II is a mobile electrohydraulic long-hole drill. Heavy duty version of the classic CMAC'S table. Top Hammer drifter type. Positioning system patented offering the widest coverage available on the market. Easy, fast and accurate operation. Simple, reliable and robust mechanical design, high availability. CMAC carousel-type drill rod rack for automatic and safe drill rod insertion without manipulation by the user. Drilling : 76mm to 100mm (HC 170 drill option) diameter / 40m deep.

STANDARDS FEATURES

Rock drill

- Various model available
- Easy interchangeable for various application
- Shank adapters suitable for the given hole range

Positioning unit

- Easy, safe and ergonomic operation
- Fast and accurate positioning
- Easy repair and maintenance

Drilling unit

- Mechanized arm for rod handling
- Feed force..... pull - 11,300lbs
..... push - 7,460 lbs
- One (1) front and two (2) rear-mounted stingers
- Robust and reliable clamp - can be used for collaring

Control system

- Electric wireless or hydraulic control panel
- Automatic thread and unthread system
- Angle reading instrument
- Adjustable control for collaring, anti-jamming, feed thrust and percussion
- Pre-set parameters for different drilling conditions

General

- FOPS/ROPS approved protective roof
- Electrical cable reel
- Heated/air conditioning enclosed cabin available (optional)

Carrier

- Reduced dimension, underground adapted carrier
- Low-emission, turbo-charged diesel engine
- Four wheel drive

TECHNICAL SPECIFICATIONS

Drilling unit

- Model.....CMAC Feed (CF series)
- Steel length.....4 ft (1.2m) / 5 ft (1.5m) / 6 ft (1.8m)
- Drill steel.....R32 / T38 / ST51 / ST68
- Carrousel (16 + 2 rod)

Positioning system

- Lateral displacement.....610 mm
- Longitudinal displacement 2057 mm
- Drilling table 180° hydraulic rotation
- 360° feed rotation with hydraulic actuator
- One (1) stinger backward on feed
- One (1) stinger forward with carrousel
- Feed dump, drilling (adjustable).....+90° forward / -25°backward

Power pack

- Electrical motor.....75hp (56kW) / 100 hp (75kW)
- Hydraulic pump for feed, positioning and rotation
- Hydraulic pump for percussion
- Load sensing pump
- System pressure, max.....193 bar
- Hydraulic oil tank, volume max/min.....203 l
- Low oil level indicator and shut-down
- Oil temperature gauge on oil tank
- Electric oil filling pump

Air system (optional)

- Screw-compressor (Ingersoll Rand).....7.5 hp (25 cfm)
- Air pressure gauge
- Electric motor
- Adjustable flow/pressure

Electrical system

- High/low voltage.....separate cabinet
- Voltage.....380-600 V
- Frequency.....50 or 60 Hz
- Total installed power.....158 kW
- Main motors.....75 hp (75.5 kW) or 100 hp (85.5kW)
- Starting method.....star/delta (380-600 V)
- Overload protection for electric motors
- Volt/ampere gauge in electric cabinet
- Phase detector
- Transformer.....5 kVA
- Led working lights
- Cable reel.....30m to 50m

Carrier

- Model.....RDH 200 Series
- Engine*.....Deutz (BF4M2012C)
- Certification.....EU-RL 97/68 (Step 2), US-EPA Nonroad (Tier 2)
- Displacement.....4.04 l
- Power ratings for industrial engines.....103 kW
- Max torque.....493Nm
- Number of cylinders.....4
- Type of cooling.....Liquid cooling / Air-to-air cooler
- Specific fuel consumption.....202 g/kWh
- Electrical system.....24 V

- Powertrain
- Exhaust system.....75X/SS-2.5F
- Fuel tank capacity.....203 l
- Front and rear axles.....Dana 113
- Differential.....Limited Slip
- Brakes - service.....Posi
- Brakes - park.....Posi
- Tires.....10 x 20 solid lugged
- Transmission model.....20 000 Series 3 Speed
- Transmission type.....Dana

- Carrier hydraulics
- Variable displacement piston pump with load sense
- Closed center circuit design for optimal efficiency
- Stick steering with a direct-acting control valve
- Two double-acting steer cylinders
- Totally enclosed service brake hydraulically applied
- Spring release on front/rear axles with automatic brake application

- Carrier electrics
- Alternator.....24V / 100A
- Batteries.....2 x 12 V
- Starter.....24 V
- Tram lights.....2 front / 2 rear

**Other engine models can be installed. For further informations contact manufacturer, CMAC-Thyssen Mining Group.*

Control system

- Model.....hydraulic / electric or fully electric
- Connection Systemwire / wireless
- Flushing control.....air - water - air/mist flushing
- Automatic functions.....collaring / anti-jamming
.....feed and percussion pressure
- Light, heavy duty wireless terminals
- Integrated diagnostic system
- Angle reading instrument on control screen

OPTIONAL EQUIPMENT

Cabin

- FOPS-ROPS approved cabin
- Air conditioning or heating unit

Carrier

- Fire suppression system, manual or automatic (ANSUL)

Positioning system

- Rig alignment laser

Carrousel

- 16 rods (+2) 32@45

ROCK DRILL

Montabert *		HC 109	HC 112		HC 170 RP	
Rod diameter	mm	38-45	45-51		45-68	
Hole diameter	mm	64-89	76-127		102-150	
Input power	kW	30	Max - 45.5	Min - 28	48	
Output power	kW	18	Max - 29	Min - 19	23	
Impact rate	Hz	46	43-50		40	
Hydraulic pressure, max.	bar	135	160		180	
Rotation motors	cm ³	055	160	250	315	130
Rotation speed, max.	rpm	175	120	169	250	130
Torque, max	N.m	780	1560	1090	1590	2000
Lubrication air consumption	dpm	15-18	30-40		30-40	
Water consumption	lpm	30-50	50-100		50-100	
Weight	kg	142	200		320	

* Other rock drill models can be installed. For further information contact manufacturer, CMAC-Thyssen Mining Group.

FEED

CMAC series		CF 1219	CF 1524	CF 1828
Approx length with centraliser	mm	3,225	3,531	3,835
	in	127	139	151
Drill rod length	m	1,2	1,5	1,8
	ft	4	5	6
	kg	142	200	320

DIMENSIONS

mm	Width	1,829
	Height tramming	2,419
	Height roof up	2,763
	Height rotation point	1,598
	Length tramming	9,834
	Ground clearance	385

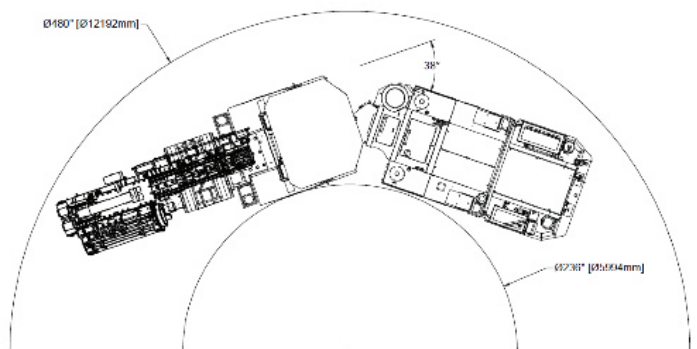
TURNING RADIUS

mm	Outer	6,096
	Inner	3,005

WEIGHT *

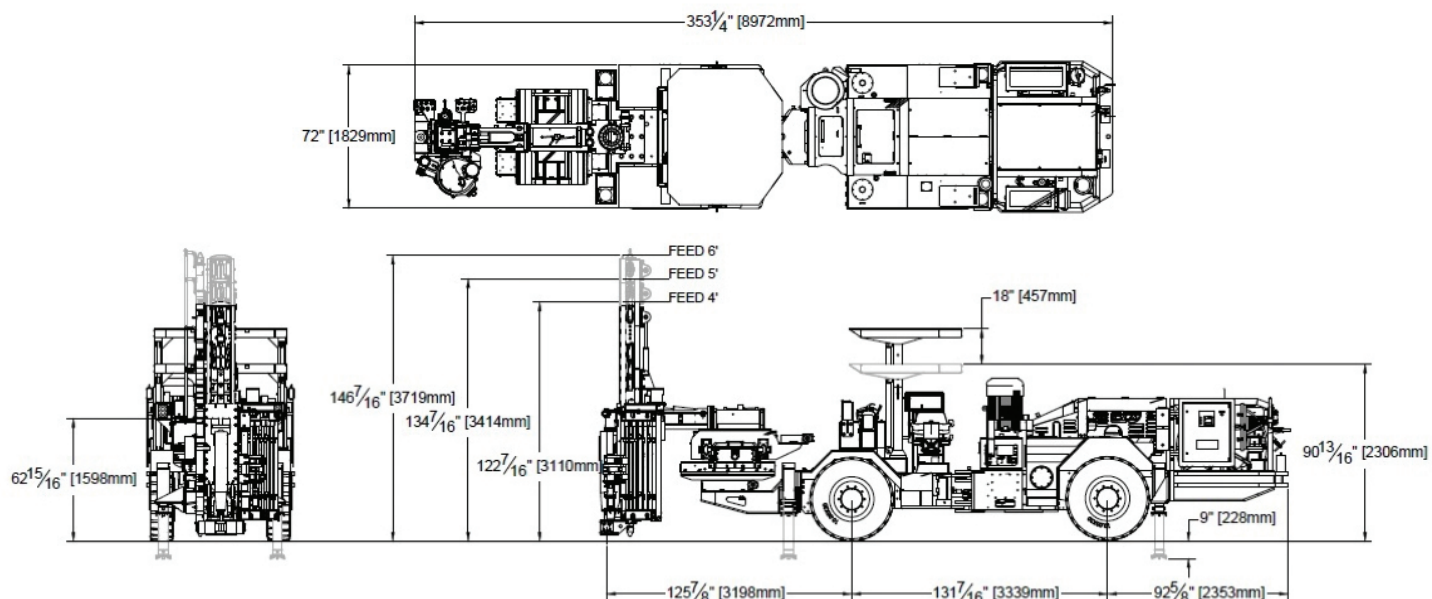
kg	Total	18,000
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* gross weight

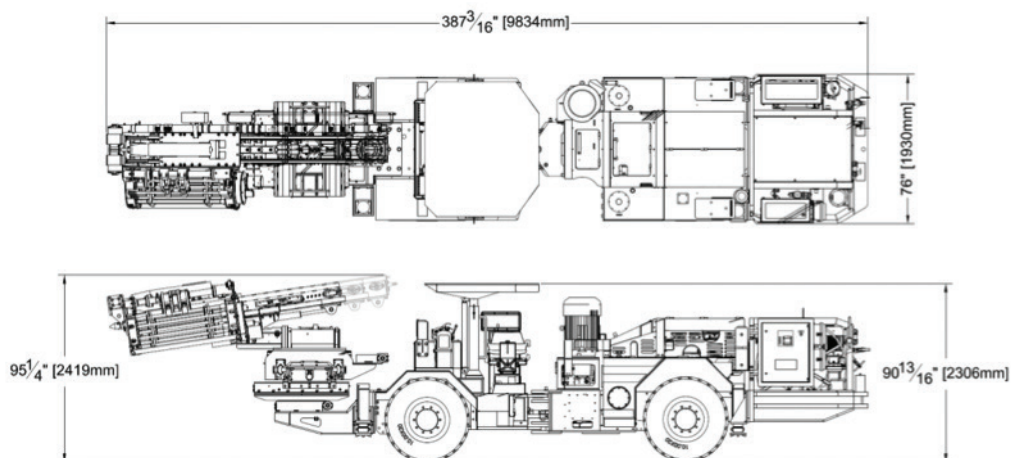


* depending on surface

SIDE VIEW



TRAMMING VIEW



COVERAGE AREA

