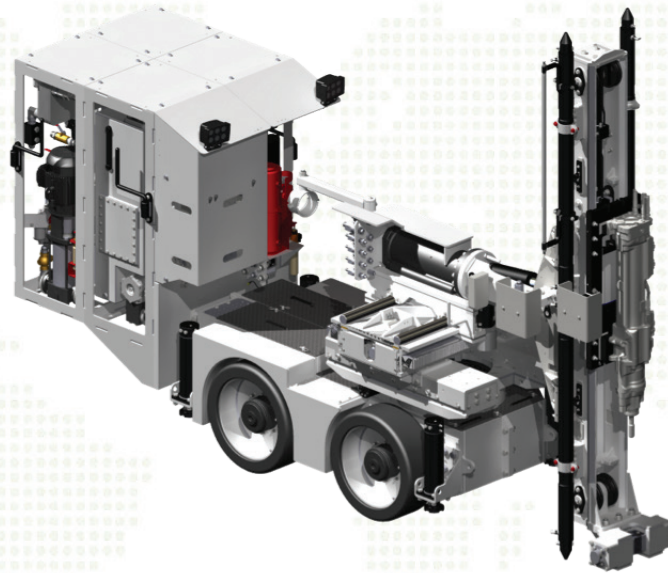


AN INTERNATIONAL OUTLOOK, A PERSONALIZED SERVICE

CMAC LH II

CMAC-Thyssen Production drilling rigs CMAC LH II - LONG HOLE II



The CMAC LH II is an electrohydraulic unit for long-hole drilling. Versatile equipment. Top Hammer drifter type. Patented positioning system offering the widest coverage available on the market. Easy, fast and accurate operation. Optimal consumables lifespan. Simple, reliable and robust mechanical design, high availability. Optimum drilling: 76mm 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

- Working lights
- Front and rear stabilizers

Carrier

- Four wheel drive
- Hydrostatic transmission
- Service brake

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
- Rod Handling System, articulated arm with wireless remote
- Hole length limited by feed force, not carousel capacity
- Mechanized drilling up to 40 m

Positioning system

- Lateral displacement.....2,235 mm
- Longitudinal displacement610 mm
- Drilling table 180° hydraulic rotation
- 360° feed rotation with hydraulic actuator
- One (1) stinger backward on feed
- Two (2) stingers forward on feed
- 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.....200 l
- Low oil level indicator and shut-down
- Oil temperature gauge on oil tank
- Electric oil filling pump

Carrier

- Model.....CMAC LH II
- 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

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

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/amperage gauge in electric cabinet
- Phase detector
- Transformer.....5 kVA
- Led working lights, mounted on roof
- Cable reel

OPTIONAL EQUIPMENT

Carrier

- Fire suppression system, manual or automatic (ANSUL)

Drilling system

- Rock drill lubrication surveillance system

Positioning system

- Rig alignment laser

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	

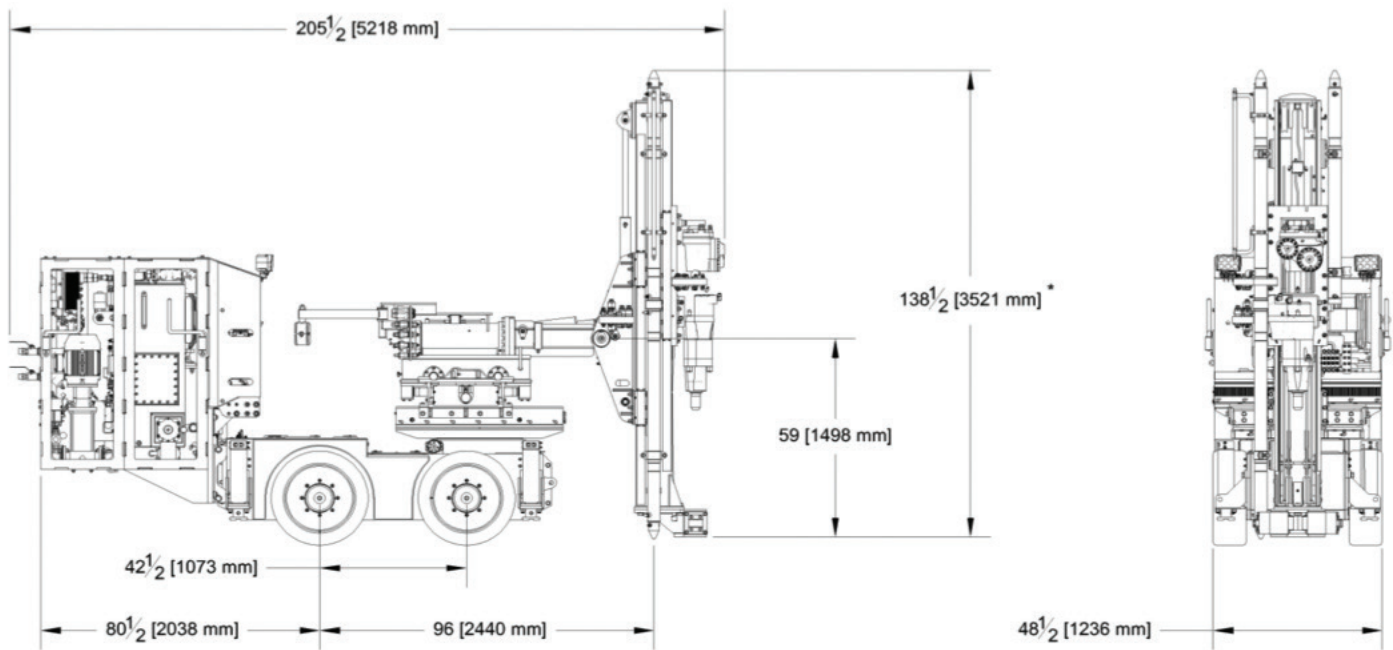
* Other rock drill models can be installed. For further information contact manufacturer, CMAC-Thyssen Mining Group.

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

DIMENSIONS		
mm	Width	1,236
	Height tramming	2,291
	Height rotation point	1,498
	Length tramming	6,097
	Ground clearance	185

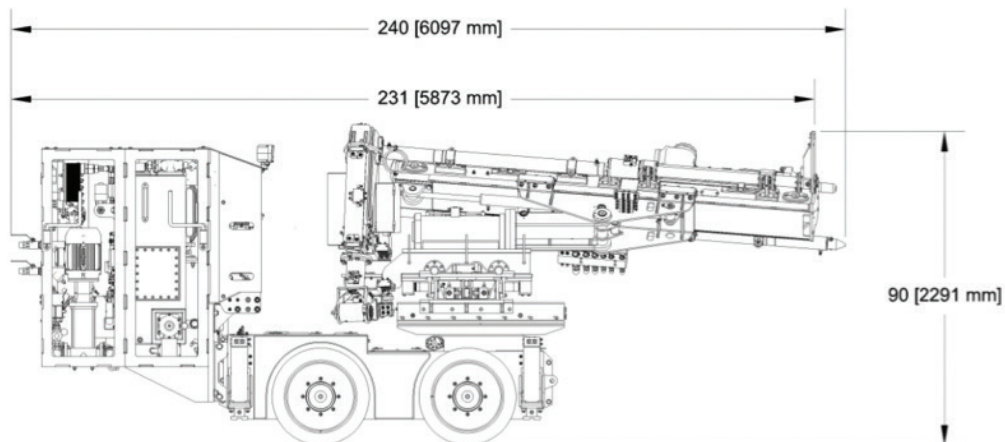
WEIGHT *		
kg	Total	9,100

SIDE VIEW



* Variable. Height for the CF1524 model here shown.

TRAMMING VIEW



COVERAGE AREA

