

The total drilling solution for large-scale mining and quarry production

- Productivity and flexibility beyond conventional mining and guarry drill rigs
- Improves ore to waste ratio through double benching and pre-splitting
- In pit grade control with reverse circulation sampling

ROC L8 series is intended for open pit mining including selective mining, in pit grade controlwith reverse flushing, rock de-pressurerisation and quarrying. The main components are:

- Opertor's cabin, ROPS and FOPS approved with rubber vibration dampers
- Hydraulic cylinder operated feed system mounted inside an aluminium profile feed beam
- Toe hole drilling capability, option
- Hydraulic operated rotary head
- Break out table
- Built for use with 4", 5" and 6" down-the-hole hammers
- Reverse circulation capability, option
- Caterpillar turbo charged diesel engines
- Atlas Copco high pressure screw compressors
- Single boom system
- Heavy duty track frames with triple grouser pads and cleaning holes, hydraulic track oscillation and two speed traction

Hole range			
Recommended hole	e range		
ROC L8 ²⁵	COP 44, COP 54GE, COP 64 Gold	110-178 mm	4 ⁵ / ₁₆ "-7"
ROC L8 ³⁰	COP 44, COP 54GE, COP 64 Gold	110-203 mm	4 ⁵ / ₁₆ "-8"
Hydraulic tube hand	dling system for max hole depth, with 5	m (16,4') tubes	
ROC L8 ²⁵ and L8 ³⁰	Ø 89-114 mm (3 1/2"- 4 1/2") drill tubes	45 m	148′
ROC L8 ²⁵ and L8 ³⁰	Ø 127-140 mm (5"- 5 1/2") drill tubes	25 m	82′
Hydraulic tube handli	ng system for max hole depth, with 6 m (20) tubes and a 7.5	m starter tube
ROC L8 ²⁵ and L8 ³⁰	Ø 89-114 mm (3 1/2"- 4 1/2") drill tubes	55.5 m	182′
ROC L8 ²⁵ and L8 ³⁰	Ø 127-140 mm (5"- 5 1/2") drill tubes	31.5 m	103′
Single pass drilling,	max hole depth		
ROC L8 ²⁵ SF and RO	C L8 ³⁰ SF	5,4 m	18′
ROC L8 ²⁵ LF and RO	C L8 ³⁰ LF	7,5 m	25′



Specifications

Engine

ROC L825

• Tramming speed, max	3.5 km/h	2.2 mph
Traction force, max	166 kN	37 310 lbf
Track oscillation	±10°	
Ground clearance	405 mm	16"

Aluminium feed

Hydraulic cylinder feed with hose guide and double drill tube support with break-out table and movable lower guide/dust hood 177 ft/min 8 992 lbf • Feed rate, max 0.9 m/s • Feed force, max 40 kN
• Tractive pull, max 50 kN 11 240 lbf

Long Feed (LF)1 150 mm 3'9" Feed extension.....

• Travel length 5 400 mm 17' 7"

Dust collector DCT 320F including pre-separator

• Filter area	32 m ²	344 ft ²
• Number of filter elements	32 pcs	
 Suction capacity at 500 mm wg 	1270 l/s	2 690 cfm
Suction hose diam	203 mm	8"
• Cleaning air pressure, max	8 bar	116 psi
• Cleaning air consumption	2-4 l/pulse	0,06-0,12
		cf/pulse

Safety cabin

- ROPS and FOPS approved with rubber vibration dampers
- 2 x wipers with washerClear laminated glass (front and roof windows)
- Clear toughened glass (side and rear windows)
- Fully adjustable operator's seat
- Adjustable foot rest
- Cabin light
- Rig inclination indicator
- Rear view mirror
- Fire extinguisher, 6 kg (13 lbs) dry chemical type ABE class III type
- Outlet socket, 24 V
- Prepared for radio/speakers for CD radio or DVD radio
- Electric combined engine/inclination/hole depth instrument

Compressor

ROC L825

Atlas Copco XRX 10, two stage screw type compre	essor
• Working pressure, max	363 psi
• FAD, at normal working pressure 405 1/s	858 cfm
ROC L8 ³⁰	
Atlas Copco XRX 10, two stage screw type compre	essor
• Working pressure, max	435 psi
• FAD, at normal working pressure 470 1/s	995 cfm

Hydraulic system

Hydraulic oil cooler		
Max ambient temperature	50°C	122°F
Pumps		
 Axial piston pump (1) 	248 1/min	50 US gal/min
• Gear pump (2)		32 US gal/min
• Gear pump (3)	63 1/min	16.6 US gal/min
• Gear pump (4)	39 1/min	10.3 US gal/min
• Gear pump (5)		9.8 US gal/min
• Gear pump (6)	37 1/min	9.8 US gal/min
Return and drainage filters (2 x 3 fil	ters)	_
Filtration rate	20 µm abs	olute

Electrical system

• Voltage	24 V
• Batteries	
• Alternator	28 V, 95 Ah
• Work lights, front	
• Work lights, rear	2 x 70 W
Warning lamp and reverse buzzer	
Work lights feed	2 x 70 W

Volumes

TT . 4 11111	200.1	100 TIC1
Hydraulic oil tank	3801	100 US gal
Hydraulic system, total	470 1	124 US gal
Compressor oil	63 1	12 US gal
Diesel engine oil	30/42 1	8 US gal
Diesel engine, cooling water	68 1	18 US gal
Diesel engine, fuel tank	760/10501	201/277 US gal
Traction gear	3 1	0.8 US gal
• Lubrication tank (HECL)	201	5.3 US gal

Air conditioner

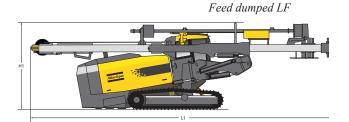
Refrigerant	R134a	
Cooling capacity	5,5 kW	
• Fan suction capacity		265 cfm

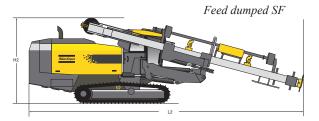
Rotary h	ead						
Rotary head	Connection thread	Max rpm	Max torqu	e, drilling	Max torqu	e, breaking	Suitable for DTH-hammer
notary nead	Connection thread	iviax rpm	Nm	lbf	Nm	lbf	Suitable for DTH-Hallimer
DHR 48H 45	API 2 3/8" REG, box	137	1839	1356	1916	1413	COP 44 (COP 54)
DHR 48H 56	API 3 1/2" REG, box	107	2353	1735	2452	1809	COP 54, COP 64
DHR 48H 68	API 3 1/2" REG, box	68	3677	2712	3831	2818	COP 64
DHR 48H RC	Metzke long pin, male	68	3677	2712	3831	2818	RC hammers

Down-the-h	ole hamn	ner (to be	ordered separa	tely)			
Down-the-hole	Hole	range	Top sub thread	We	eight	Length	excl thread
hammer	mm	in	Type and size	kg	lbf	mm	in
COP 44	110-130	4 ⁵ / ₁₆ - 5 ¹ / ₈	API 2 3/8" REG pin	38	84	958	37,72
COP 54 GE	134-152	5 ¼ - 6	API 2 7/8" REG pin	66	145	1119	44.1
COP 54 GE	134-152	5 % - 6	API 3 ½" REG pin	76 HD	167 HD	1119	44,1
COP 64 Gold	156-178	6 ¹ / ₈ - 7	API 3 ½" REG pin	96	212	1163	45.70
COP 64 Gold	165-203	6 ¹ / ₂ - 8	API 3 1/2 NEG PIN	109 HD	241 HD	1103	45,78

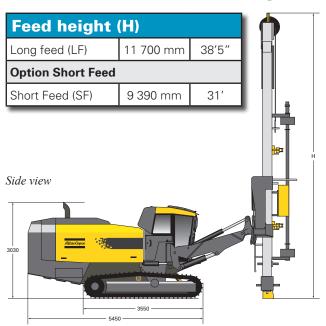
Transport dimensions

Hight and lenght		
Long Feed (LF) dumped		
Height (H1)	3 500 mm	11′ 6′′
Length (L1)	11 700 mm	38′ 5″
Short Feed (SF) dumped		
Height (H2)	3 350 mm	11′
Length (L2)	10 700 mm	35′ 1′′

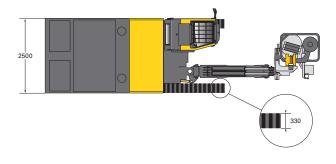




Dimensions and weight



Weight Standard unit excluding all options and drill steel Long feed (LF) 22 600 kg 49 800 lb Short Feed (SF) 22 200 kg 48 950 lb



Selection of optional equipment

Carrier

- Hydraulic support leg
- Service hand lights inside canony
- Protection hand rails on top of canopy
- Halogen work light pointing to feed support, transport position
- Xenon work lights, 2 pcs on top of canopy pointing forward and 2 pcs on top of canopy pointing to the rear
- Combined warning sound and warning light, beacon type
- · Reverse camera
- Automatic fire extinguisher, P21M, type Ansul, manually activated
- Automatic fire extinguisher, P21EAM, type Ansul, automatically activated
- Tropical ambient kit for 55° ambient temperature
- · Electric pump for filling hydrau-

lic oi

- Electric fuel filling pump
- Fast fuel filling system
- Cold weather kit +5° C to -25° C, including diesel engine heater
- Cold weather kit -25° C and below, including diesel engine heater and ether start
- ProCom satellite based drill rig monitoring system (only in combination with a written service agreement)

Safety cabin

- Clear laminated glass (front and roof windows)
- Tinted toughened glass (side and rear windows)
- Sun shade kit
- Cab heating
- Electric heated operator's seat
- Radio/CD or Radio/DVD
- Reverse camera with cab mounted monitor. May also be

used for monitoring DVD

Feed

- Toe hole drilling kit (ROC L825 and ROC L830 short feed)
- Service winch with jib boom mounted on the feed
- Wide feed foot
- Break out table pressure regulating kit

Hole measuring systems

- Adding aiming unit function to standard instrument
- Adding aiming unit-, and laser receiver function to standard instrument
- GPS compass

Lube oil, lube system and water mist system

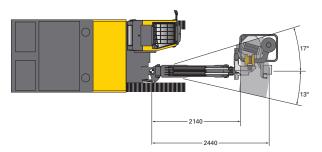
- Central lubrication system, type Lincoln
- Thread lubrication, spray system

- Artic hydraulic oil, VG 32Tropical hydraulic oil, VG 68
- Biological hydraulic oil, VG 46
- Water mist system, preplumbed for local mounted water tank
- Water mist system with water pump and 400 l water tank
- Water mist system, pressurized and with a 200 l water tank
- Water mist system, insulated for artic conditions, with water
- pump and 400 l water tank

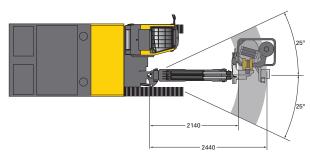
Delivered equipment, not mounted

- First 50 hours service kit for compressor
- Tool kit for rotary head with fixed spindle sub
- Tool kit for rotary head with floating spindle sub

Coverage areas

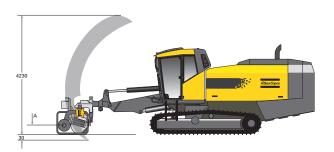


Horizontal reach (mm) with long feed



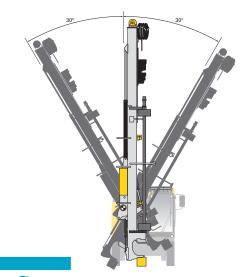
Horizontal reach (mm) with short feed

Vertical reach (mm) Long Feed	A	В
Long Feed		
Ŭ	582 2	277
Short Feed 1	040 2	659
American - No.		



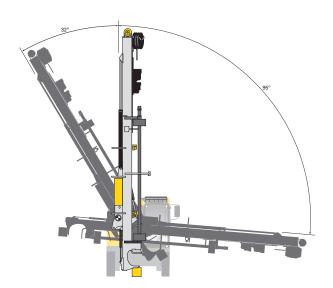
Toe-hole drilling reach for short feed

Feed swing angles



Atlas Copco

Feed swing angles long feed



Feed with Toe-hole drilling kit for short feed

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