

FlexiROC D60

SURFACE DRILL RIGS

TECHNICAL SPECIFICATION



Technical specifications

Main components

- Crawler type two speed undercarriage with track oscillation system
- Tier 4 Final/Stage 5 or Tier 3 CAT turbo-charged diesel engine
- screw-type high pressure compressor
- ROPS and FOPS-approved operator cabin with rubber vibration dampers
- Single section booms system
- Aluminum profile feed beam
- Toe-hole drilling capability (standard feed version)
- Carousel type tube handling system
- Break-out table with pressure regulating kit
- Hydraulic operated rotary head
- Built for use with 4", 5", and 6" down-the-hole hammers
- Service hand lights inside canopy

Hole range & length (recommended)

		Metric	US
FlexiROC D60	COP 44 Gold COP 54 Gold, COP 64 Gold	110-178 mm	4.31"-7"
Hydraulic tube handling system for max hole length, with 5 m (16,4) tubes - standard feed			
FlexiROC D60	Ø 89-114 mm (3.5"- 4.5") drill tubes	45 m	148'
FlexiROC D60	Ø 127-140 mm (5"- 5.5") drill tubes	25 m	82'
Hydraulic tube handling system for max hole length, with 6 m (20') tubes and a 7.5 m starter tube - long feed			
FlexiROC D60	Ø 89-114 mm (3.5"- 4.5") drill tubes	55.5 m	182'
FlexiROC D60	Ø 127-140 mm (5"- 5.5") drill tubes	31.5 m	103'
Single pass drilling, max hole length			
FlexiROC D60 standard feed		5.4 m	18'
FlexiROC D60 long feed		7.5 m	25'

RHS 140 is standard on FlexiROC D60. It can handle pipe size 76, 89, 102, 114, 127, 140 mm. On standard feed, RHS 102 is available as option and can handle pipe size 76, 89, 102 mm.

Engine

FlexiROC D60	Metric	US
CAT C15, turbo-charged, diesel engine, Tier 4 Final /EU Stage 5 (multi-certified for US and EU markets) or Tier 3 / stage IIIA - power rating at 1800 rpm	354 kW	475 HP

Compressor

FlexiROC D60	Metric	US
XRX 10 two-stage screw type compressor		
Working pressure, max	25 bar	363 psi
FAD (25bar)	405 l/s	858 cfm

Rotary head

	Connection thread	Max (rpm)	Max torque, drilling		Suitable for DTH-hammer
			Metric	US	
DHR6 H45	API 2 3/8" REG, box	137	1839 Nm	1356 lbf	COP 44 Gold (COP 54 Gold)
DHR6 H56	API 3 1/2" REG, box	107	2353 Nm	1735 lbf	COP 54 Gold COP 64 Gold COP 66
DHR6 H68	API 3 1/2" REG, box	68	5800 Nm	2712 lbf	COP 64 Gold COP 66
DHR6 H78	API 3 1/2" REG, box	54	6600 Nm	3417 lbf	COP 64 Gold COP 66

Carrier

	Metric	US
Tramming speed, max	3.2 km/h	2.0 mph
Traction force, max	138 kN	31020 lbf
Ground clearance	405 mm	16"
Track oscillation	±10°	

Hydraulic system

Hydraulic oilcooler	Metric	US
Max ambient temperature	50 °C	122 °F
Pumps		
Axial piston pump (1)	240 l/min	63 gal/min
Gear pump (2)	111 l/min	29 gal/min
Gear pump (3)	63 l/min	16.6 gal/min
Gear pump (4)	39 l/min	10.3 gal/min
Gear pump (5)	31 l/min	8.2 gal/min
Gear pump (6)	31 l/min	8.2 gal/min
Return and drainage filters (2 x 3 filters)		
Filtration rate 20 µm absolute	20 µm absolute	

Aluminum feed

Aluminum profile feed with hose guide and double drill tube support with break-out table and movable lower guide/dusthood	Metric	US
Feed rate, max	0.9 m/s	177 ft/min
Feed force, max	40 kN	8992 lbf
Tractive pull, max	50 kN	11240 lbf
Feed motor size	2099 cc	0.6
Chain size	45 mm	1.8"
Long Feed		
Feed extension	1150 mm	45.3"
Travel length	7540 mm	296.8"
Total length	11600 mm	456.7"
Standard Feed		
Feed extension	1900 mm	74.8"
Travel length	5400 mm	212.6"
Total length	9400 mm	370"

Dust collector

DCT 320 including pre-separator	Metric	US
Filter area	32 m ²	344 sq.ft
Suction capacity at 500 mm wg	1270 l/s	2690 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 cfm/pulse
Number of filter elements	32 pcs	