

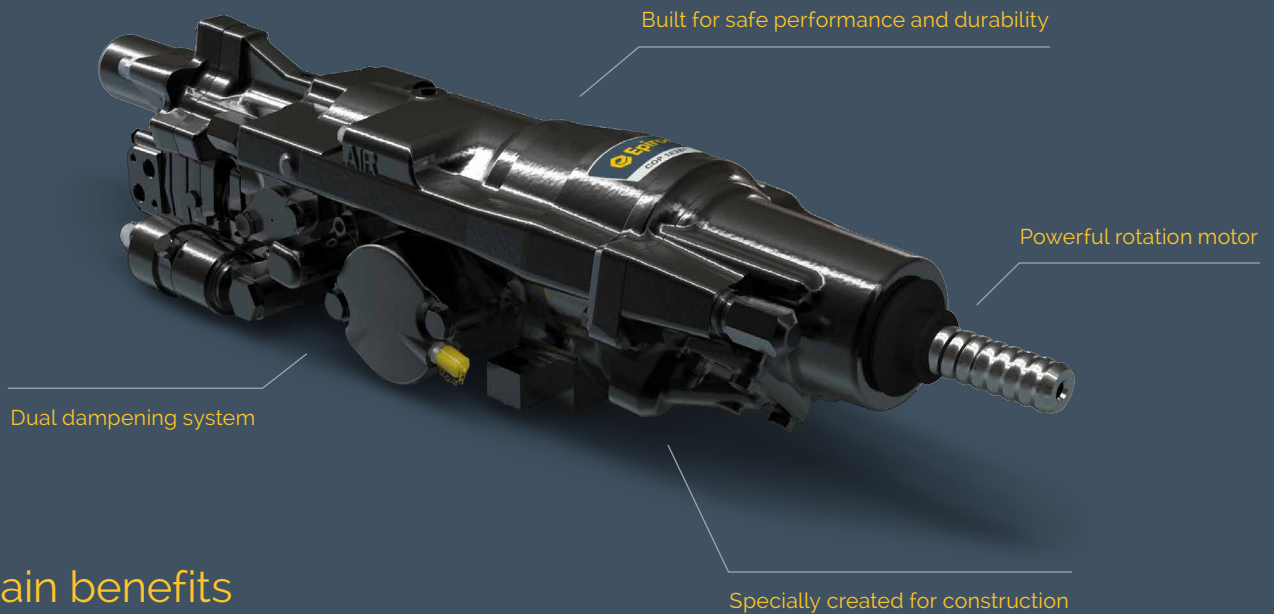
**COP 1638+, COP 1838+,
COP 2238+**

High speed rock drill for high penetration rates
Hole range 33 - 76 mm (1 ¼" - 3")

 **Epiroc**

Enhanced service life

Developed to provide extended service life, with no sacrifice to its proven drilling performance.



+ Main benefits

High torque output for efficient drilling minimizing the risk of jamming

Reliability with optimized rock contact, while simultaneously protecting the rock drill from harmful energy recoils

Sustainability by ensuring cuttings are removed efficiently to promote better bit life



The low profile permits drilling close to walls with only 2 degrees of lookout angle.



Service tools are available to facilitate precise and correct machine maintenance ensuring equipment safety and performance.



Major and minor preventative maintenance kits are available for maintenance ease, and to ensure optimized rock drill service life.

Technical specifications

Dimensions and weight

	COP 1638+	COP 1838+	COP 2238+
Weight	173 kg (381 lb)	170 kg (375 lb)	174 kg (386 lb)
Length without shank adapter	1 008 mm (3 ft 3.6 inch)	1 008 mm (3 ft 3.6 inch)	1 008 mm (3 ft 3.6 inch)
Width including connectors	251 mm (9.9 inch)	251 mm (9.9 inch)	251 mm (9.9 inch)
Height	223 mm (8.8 inch)	223 mm (8.8 inch)	223 mm (8.8 inch)
Height over drill center	88 mm (3.5 inch)	88 mm (3.5 inch)	88 mm (3.5 inch)

Impact ratings

	COP 1638+	COP 1838+	COP 2238+
Impact power (maximum)	16 kW (21.4 hp)	18 kW (24 hp)	22 kW (29.5 hp)
Input power to rock drill (maximum)	26 kW (34.8 hp)	31 kW (41.6 hp)	38 kW (51 hp)
Hydraulic pressure (maximum)	200 bar (2 900 psi)	230 bar (3 336 psi)	250 bar (3 626 psi)
Flow rate	60 - 77 L/min (2 - 2.7 cfm)	75 - 92 L/min (2.6 - 3.2 cfm)	83 - 93 L/min (2.9 - 3.3 cfm)
Impact frequency	60 Hz	60 Hz	73 Hz

Rotation motors

Type	COP 1638+/COP 1838+/COP 2238+			
	02 (80 cc)	05 (100 cc)	06 (125 cc)	07 (160 cc)
Rotation range	0 - 370 rpm	0 - 340 rpm	0 - 275 rpm	0 - 215 rpm
Torque (maximum)	440 Nm (324.5 lbf-ft)	640 Nm (472 lbf-ft)	820 Nm (605 lbf-ft)	1 000 Nm (737 lbf-ft)
Working pressure (maximum)	210 bar (3 046 psi)	210 bar (3 046 psi)	210 bar (3 046 psi)	210 bar (3 046 psi)
Oil consumption	75 L/min (2.6 cfm)	75 L/min (2.6 cfm)	75 L/min (2.6 cfm)	75 L/min (2.6 cfm)

Flushing flow and pressure

	COP 1638+	COP 1838+	COP 2238+
Flushing water pressure (maximum)	25 bar (362.6 psi)	25 bar (362.6 psi)	25 bar (362.6 psi)
Lubricating air consumption at 2 bar (29 psi)	5 L/s (10.6 cfm)	5 L/s (10.6 cfm)	5 L/s (10.6 cfm)
Flushing water consumption*	35 - 120 L/min (1.2 - 4.3 cfm)	40 - 120 L/min (1.4 - 4.3 cfm)	50 - 120 L/min (1.8 - 4.3 cfm)

* Flushing water consumption depends strongly upon hole diameter, bit type, drill rod size and rock hardness. The figures above are typical values for spherical button bits in granite 200 Mpa (36,250 psi)

Service kits

	COP 1638+	COP 1838+ (Guide diameter 38)	COP 1838+ (Guide diameter 52)	COP 2238+
Seal kit	3115 9170 95	3115 9170 92	3115 9170 92	3115 9170 96
Minor Preventive Maintenance kit	3115 9241 92	3115 9238 95	3115 9238 95	3115 9241 94
Major Preventive Maintenance kit	3115 9241 93	3115 9238 96	3115 9238 97	3115 9241 95

Shank adapters

	COP 1638+ / COP 1838+ / COP 2238+		
	Drifting	Long-Hole / Extension drilling	Ø of shank
R32	403 - 09101.10	403 - 09103.10	Ø38
R32	N/A	403 - 09103 - 18.10	Ø52
TC35	N/A	469 - 09103 - 18.10	Ø52
R38	404 - 09101.10	404 - 09103.10	Ø38
T38	435 - 09101.10	435 - 09103.10	Ø38
T38	N/A	435 - 09103 - 18.10	Ø52
SR38	427 - 09101.10	427 - 09103.10	Ø38
T45	N/A	436 - 09103.10	Ø52
T51	N/A	437 - 09103.10	Ø52

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Performance unites us, innovation inspires us, and commitment drives us to keep moving forward. Count on Epiroc to deliver the solutions you need to succeed today and the technology to lead tomorrow.
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