

Atlas Copco Surface drill rigs

ROC[®] T15

Technical specification



When small holes are big business

- High productivity thanks to the use of Atlas Copco reliable rockdrills
- Stable tramming makes it possible to run the rig on rough terrain
- The radio-remote control takes the rig safely to places where you usually don't dare to go
- Big coverage area makes it suitable for many construction applications

ROC T15 is the smallest hydraulic drill rig in our range. It is perfect for small construction jobs, self-drilling anchors, bolting holes, boulder blasting and the dimensional stone industry. It will be your best friend for demanding jobs and when ease of transport is essential. The main components are:

- Hydraulic rock drill, COP 1020 series
- Deutz TD 2009 L04 diesel engine
- On-board Atlas Copco screw compressor, C55
- Aluminium profile feed beam
- Rubber tyred carrier
- Rod rack
- Full remote control for all boom, drilling & tramming functions
- Support legs
- Air outlet with claw coupling

Hole range						
Rock drill	Shank type	Type of drilling	Drill diameter		Drill steel length	
			mm	inch	mm	feet
COP 1019 HF	HEX 19 integral	Single pass	23-45	$\frac{29}{32} - 1 \frac{3}{8}$	3660	12
COP 1022 HF	HEX 22 integral HEX 22- R25 shank	Single pass Extension drilling	27-41 38-41	$1 \frac{1}{16} - 1 \frac{5}{8}$ $1 \frac{1}{2} - 1 \frac{5}{8}$	3660 3050 x 3	12 10 x 3
COP 1028	SR 28 shank SR 28 shank	Single pass Extension drilling	33-45 38-45	$1 \frac{5}{16} - 1 \frac{3}{4}$ $1 \frac{5}{16} - 1 \frac{3}{4}$	3050 3050 x 3	10 10 x 3

Specifications

Engine

Deutz, Diesel engine, TD 2009 L04, Tier III/stage 3
 • Power rating at 2500 rpm 46 kW 62 HP

Feed

Hydraulic cylinder feed
 • Feed extension 600 mm 1' 11"
 • Feed rate, max 1.5m/s 295 ft/min
 • Feed force, max 4 kN 899 lbf
 • Tractive pull, max 6 kN 1348 lbf
 • Total length 4 443 mm 14' 7"
 • Travel length 3 250 mm 10' 8"

Dust collector DCT T15

• Filter area 4 m² 43 sq.ft
 • Number of filter elements 8 pcs
 • Suction capacity at 500 mm wg 300 l/s 635 cfm
 • Suction hose diam 76 mm 3"
 • Cleaning air pressure, max 8.5 bar 123 psi
 • Cleaning air consumption 10 l/pulse

Compressor

Atlas Copco C55 C106 GD, screw compressor ROC T15
 • Working pressure, max 8.5 bar 123 psi
 • FAD, at normal working pressure 23 l/s 49 cfm
 • Air outlet for grinder

Hydraulic system

Hydraulic oil cooler
 • Max ambient temperature 40(50) °C 104 (122) °F
 Pumps
 • Gear 22-11-10 & 7 cc
 Return and drainage filters
 • Filtration rate 16 µm absolute
 • Manual hydraulic oil filling pump

Electrical system

• Voltage 24 V
 • Batteries 2 x 12 V, 56 Ah
 • Alternator 28 V, 55 Ah
 • Work lights, on the carrier 3 x 70 W
 • Work lights, on the feed 1 x 70 W
 • Sound alarm and flashing light

Volumes

• Hydraulic oil tank 60/70 l 16/18.5 US gal
 • Hydraulic system, total 90/100 l 24/26 US gal
 • Compressor oil 8 l 2.1 US gal
 • Diesel engine oil 8 l 2.1 US gal
 • Diesel engine, cooling system 12 l 3.2 US gal
 • Diesel engine, fuel tank 70 l 18.5 US gal
 • Lubrication tank (ECL) 5 l 1.3 US gal

Tramming

• Tramming speed, max 3,5 km/h 2.2 mile/h
 • Traction force (low/high gear) 20 kN 4500 lbf
 • Ground clearance 230 mm 9"
 • Tramming angles
 downward/upward max. without winch ... 20°/20°
 downward/upward max. with winch 30°/30°
 laterally, max (left/right) 20°/20°

Environment

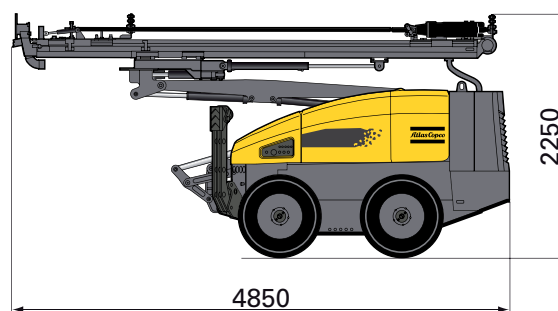
Noise levels
 Idling (1500rpm) 99 dB(A)
 Max. engine speed (2500rpm) 106 dB(A)
 Drilling (2500 rpm) 123 dB(A)

Hydraulic rock drill									
Rock drill	Impact power		Hydraulic pressure, max		Impact rate	Torque, max		Weight approx	
COP 1019 HF	4.5 kW	6 hp	175 bar	2 538 psi	70 Hz	162 Nm	119 lbf/ft	55 kg	121 lb
COP 1022 HF	5 kW	6.7 hp	190 bar	2 755 psi	73 Hz			50 kg	110 lb
COP 1028	5.5 kW	7.4 hp	185 bar	2 683 psi	53 Hz			51 kg	112 lb

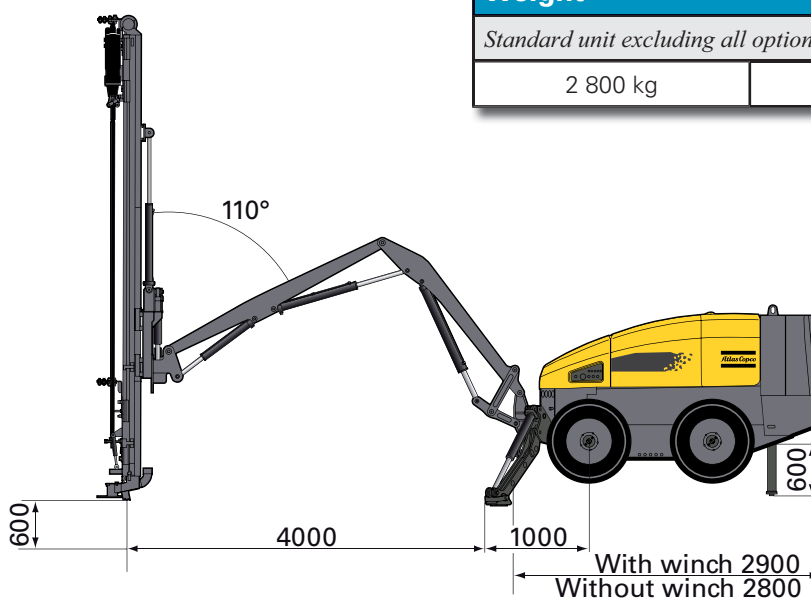
Transport dimensions

Height and length		
Feed dumped		
Height	2 250 mm	7' 5"
Width	1 770 mm	5' 10"
Length	4 850 mm	15' 11"

Feed dumped



Dimensions (mm) and weight



Weight	
Standard unit excluding all options and drill steel	
2 800 kg	6 172 lb

Optional equipment

Carrier

- Tropical ambient kit for 50° Celsius ambient temperature
- Hydraulic outlet for grinding machine
- Electrical engine heater
- Hydraulic winch including wire with towing eye and wire guides
- Electric refuelling pump
- Service hand lights inside canopy

Feed

- Hydraulic drill steel support, only combined with COP 1028

Hole measuring systems

- Mechanical hole inclination instrument, ROC-Angie

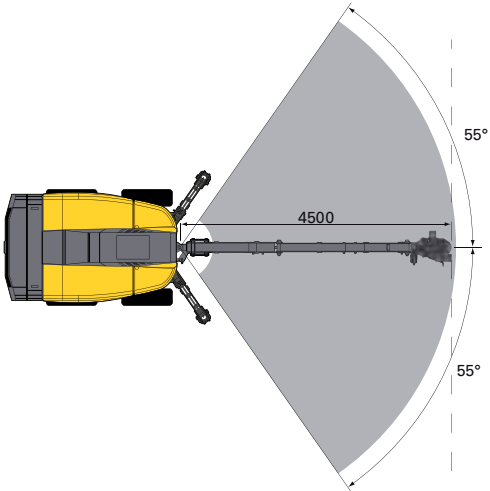
Lube oil, lube system and water mist system

- Artic hydraulic oil, VG 32
- Tropical hydraulic oil, VG 68
- Biological hydraulic oil, VG 46

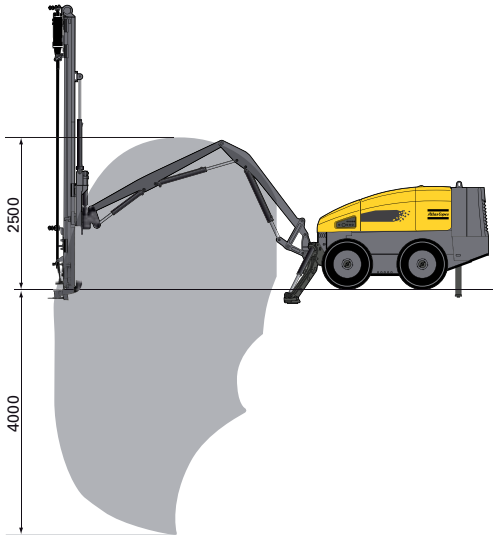
Delivered equipment, not mounted

- Gas charging equipment for rock drill
- First 50 hours service kit for compressor
- 1 set of extra manuals
- Lubrication kit (grease and COP oil)

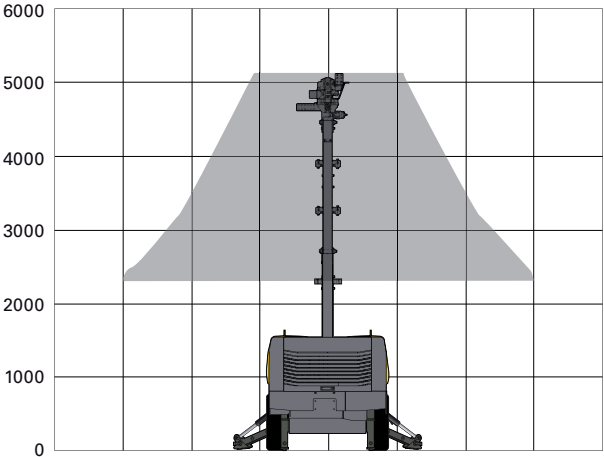
Coverage areas



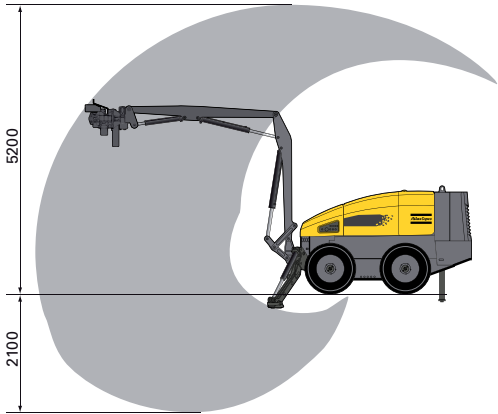
Horizontal reach (mm)



Vertical reach (mm)

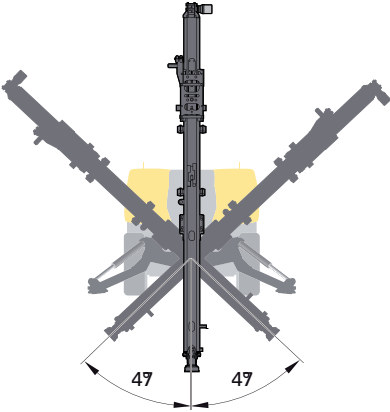


Horizontal drilling, forwards (mm)

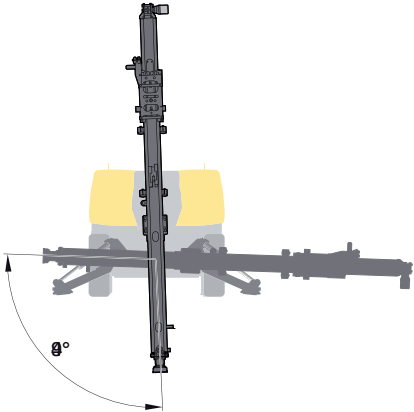


Horizontal drilling, sideways

Feed swing angles



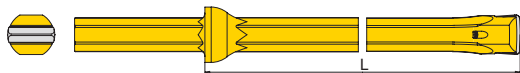
Alternative A:
Re-pinning position



Alternative B:
Re-pinning, any direction

Integral drill rods for COP 1019

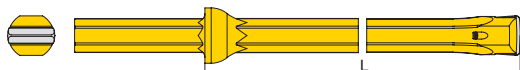
Shank hex. 19 mm (¾") × 108 mm (4¼"). Rod hex. 19 mm (¾").



Product no	Product code	Length (L)		Bit diameter	
		mm	foot/inch	mm	inch
90504891	724-1627,06-02	1600	5'3"	27	1 1/16
90514488	724-2424,06-03	2400	7'10 1/2"	24	15/16
90504897	724-2426,06-02	2400	7'10 1/2"	26	1 1/32
90514489	724-2724,06-03	2700	8'10 1/4"	24	15/16
90514565	724-3222,06-03	3200	10'6"	32	1 1/4
90515259	724-3224,06-03	3200	10'6"	24	15/16
90504898	724-3225,06-02	3200	10'6"	25	1
90514566	724-4022,06-03	4000	13'1 1/2"	22	7/8
90515550	724-4024,06-03	4000	13'1 1/2"	24	15/16
90514567	724-4822,06-03	4800	15'9"	22	7/8

Integral drill rods for COP 1022

Shank hex. 22 mm (7/8") × 108 mm (4¼"). Rod hex. 22 mm (7/8").



Serie	Product no	Product code	Length (L)		Bit diameter	
			mm	foot/inch	mm	inch
11	90503761	714-2432,05-02	2400	7'10 1/2"	32	1 1/4
	90503763	714-3231,05-02	3200	10'6"	31	1 1/32
	90503764	714-4030,05-02	4000	13'1 1/2"	30	1 1/16
	90503765	714-4829,05-02	4800	15'9"	29	1 5/32
12	90503762	714-2438,05-02	2400	7'10 1/2"	38	1 1/2
	90503801	714-3237,05-02	3200	10'6"	37	1 15/32
	90503798	714-4036,05-02	4000	13'1 1/2"	36	1 13/32
	90503866	714-4835,05-02	4800	15'9"	35	1 3/8

Tapered drill rods for COP 1022

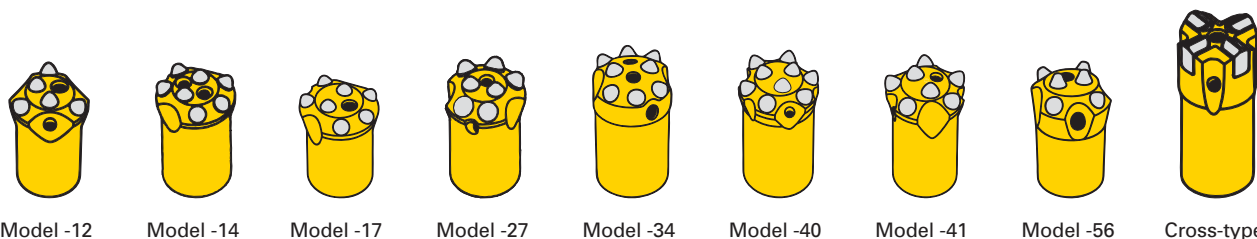
Shank hex. 22 mm (7/8") × 108 mm (4¼"). Rod hex. 22 mm (7/8").



Length (L)		Product no	Product code
mm	foot/inch		
7° taper			
2435	8'	90504828	573-0124,11
3200	10'6"	90504831	573-0132,11
3660	12'	90514346	573-0136,11
4000	13'1 1/2"	90513773	573-0140,11
4800	15'9"	90515495	573-0148,11

Length (L)		Product no	Product code
mm	foot/inch		
12° taper			
2435	8'	90505436	577-0124-C,02
2435	8'	90504841	577-0124,11
3200	10'6"	90504844	577-0132,11
3655	11'11 1/8"	90505438	577-0137-C,02
3655	11'11 1/8"	90504845	577-0137,11
3965	13'	90504846	577-0140,11
4800	15'9"	90504847	577-0148,11

Tapered drill bits for COP 1022

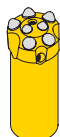


Diameter		Product no	Product code	Length		No of buttons	Buttons × button		Gauge buttons angle°	Front buttons angle°	Flushing hole	
mm	inch			mm	inch		Gauge	Centre			Side	Centre
BUTTON BIT - Spherical buttons. For 22 mm (7/8") hex. rod. 7° taper angle. Long skirt.												
35	1 3/8	90512663	173-5035-27,39-20	80	3 5/32	7	5×8	2×7	35°	–	1	1
35	1 3/8	90513908	173-5035-41,39-20	80	3 5/32	7	5×9	2×7	25°	15°	1	1
BUTTON BIT - Ballistic buttons. For 22 mm (7/8") hex. rod. 7° taper angle. Long skirt.												
32	1 1/4	90512799	173-5032-17-67,39-20	80	3 5/32	7	5×7	2×7	35°	–	1	1
33	1 5/16	90512800	173-5033-17-67,39-20	80	3 5/32	7	5×7	2×7	35°	–	1	1
33	1 5/16	90515546	173-5033-34-67,39-20	80	3 5/32	8	6×7	2×7	40°	–	1	2
33	1 5/16	90515547	173-5033-40-67,39-20	80	3 5/32	9	6×7	3×7	40°	20°	3	–
35	1 3/8	90512922	173-5035-41-67,39-20	80	3 5/32	7	5×8	2×7	35°	10°	1	1
37	1 15/32	90515584	173-5037-41-67,39-20	80	3 5/32	7	5×9	2×7	40°	15°	1	1
41	1 5/8	90514506	173-5041-41-67,39-20	80	3 5/32	7	5×9	2×8	40°	15°	1	1
CROSS-TYPE BIT - For 22 mm (7/8") hex. rod. 7° taper angle. Long skirt.												
32	1 1/4	90514526	173-7032-10,01-17	71	2 25/32	–	–	–	–	–	2	1
32	1 1/4	90509839	173-7032,01-17	71	2 25/32	–	–	–	–	–	2	1
35	1 3/8	90509643	173-7035-28,01-17	71	2 25/32	–	–	–	–	–	2	–
BUTTON BIT - Spherical buttons. For 22 mm (7/8") hex. rod. 12° taper angle. Short skirt.												
38	1 1/2	90509554	177-9038-27,39-20	55	2 5/32	7	5×9	2×7	35°	–	1	1
BUTTON BIT - Ballistic buttons. For 22 mm (7/8") hex. rod. 12° taper angle. Short skirt.												
32	1 1/4	90509650	177-9032-14-67,39-20	55	2 5/32	7	5×7	2×7	35°	–	1	2
32	1 1/4	90509841	177-9032-17-67,39-20	55	2 5/32	7	5×7	2×7	35°	–	1	1
32	1 1/4	90512817	177-9032-34-67,39-20	55	2 5/32	8	6×7	2×7	39°	15°	1	2
33	1 5/16	90512648	177-9033-14-67,39-20	55	2 5/32	7	5×7	2×7	35°	–	1	2
33	1 5/16	90509842	177-9033-17-67,39-20	55	2 5/32	7	5×7	2×7	35°	–	1	2
33	1 5/16	90510183	177-9033-56-67,50-20	55	2 5/32	6	4×7	2×7	35°	–	1	1
34	1 11/32	90509956	177-9034-27-67,39-20	55	2 5/32	7	5×8	2×7	35°	–	1	1
35	1 3/8	90509535	177-9035-27-67,39-20	55	2 5/32	7	5×9	2×7	35°	–	1	1
35	1 3/8	90510184	177-9035-56-67,50-20	55	2 5/32	6	4×7	2×7	35°	–	1	1
36	1 13/32	90512721	177-9036-27-67,39-20	55	2 5/32	7	5×9	2×7	35°	–	1	1
37	1 15/32	90512710	177-9037-27-67,39-20	55	2 5/32	7	5×9	2×7	35°	–	1	1
38	1 1/2	90512232	177-9038-12-67,39-20	55	2 5/32	5	3×9	2×8	40°	–	1	1
38	1 1/2	90512658	177-9038-17-67,39-20	55	2 5/32	7	5×9	2×7	40°	–	1	1
38	1 1/2	90512669	177-9038-27-67,39-20	55	2 5/32	7	5×9	2×7	35°	–	1	1
41	1 5/8	90512318	177-9041-27-67,39-20	55	2 5/32	7	5×9	2×7	35°	–	1	1
45	1 3/4	90512230	177-9045-12-67,39-20	55	2 5/32	5	3×9	2×9	40°	–	1	1
45	1 3/4	90512619	177-9045-27-67,39-20	55	2 5/32	7	5×9	2×7	35°	–	1	1
BUTTON BIT - Spherical buttons. For 22 mm (7/8") hex. rod. 12° taper angle. Long skirt.												
38	1 1/2	90502644	177-5038-27,25-20	71	2 25/32	7	5×9	2×7	35°	–	1	1
39	1 17/32	90510647	177-5039-27,39-20	71	2 25/32	7	5×9	2×7	35°	–	1	1
BUTTON BIT - Ballistic buttons. For 22 mm (7/8") hex. rod. 12° taper angle. Long skirt.												
32	1 1/4	90510640	177-5032-17-67,39-20	71	2 25/32	7	5×7	2×7	35°	–	1	1
33	1 5/16	90512847	177-5033-14-67,39-20	71	2 25/32	7	5×7	2×7	35°	–	1	2
33	1 5/16	90512297	177-5033-17-67,39-20	71	2 25/32	7	5×7	2×7	35°	–	1	1
33	1 5/16	90512825	177-5033-34-67,39-20	71	2 25/32	8	6×7	2×7	40°	15°	1	2
33	1 5/16	90512707	177-5033-40-67,39-20	71	2 25/32	9	6×7	3×7	40°	20°	3	–
34	1 11/32	90512955	177-5034-17-67,39-20	71	2 25/32	7	5×7	2×7	35°	–	1	1

Diameter		Product no	Product code	Length		No of buttons	Buttons × button		Gauge buttons angle°	Front buttons angle°	Flushing hole	
mm	inch			mm	inch		Gauge	Centre			Side	Centre
35	1 3/8	90512826	177-5035-34-67,39-20	71	2 ²⁵ / ₃₂	8	6×8	2×7	45°	15°	1	2
36	1 13/32	90512846	177-5036-34-67,39-20	71	2 ²⁵ / ₃₂	8	6×8	2×7	40°	15°	1	2
37	1 15/32	90515843	177-5037-27-67,39-20	71	2 ²⁵ / ₃₂	7	5×9	2×7	40°	-	1	2
41	1 5/8	90514693	177-5041-34-67,39-20	71	2 ²⁵ / ₃₂	8	6×7	2×7	35°	-	1	2
CROSS-TYPE BIT - For 22 mm (7/8") hex. rod. 12° taper angle. Long skirt.												
32	1 1/4	90503024	177-7032,01-17	71	2 ²⁵ / ₃₂	-	-	-	-	-	2	1
32	1 1/4	90512643	177-7032-10,01-17	71	2 ²⁵ / ₃₂	-	-	-	-	-	2	1
33	1 5/16	90509505	177-7033,01-17	71	2 ²⁵ / ₃₂	-	-	-	-	-	2	1
35	1 3/8	90500739	177-7035,01-17	71	2 ²⁵ / ₃₂	-	-	-	-	-	2	1
38	1 1/2	90500740	177-7038,01-17	71	2 ²⁵ / ₃₂	-	-	-	-	-	2	1
41	1 5/8	90503890	177-7041,01-17	71	2 ²⁵ / ₃₂	-	-	-	-	-	2	1
45	1 3/4	90503069	177-7045,01-17	71	2 ²⁵ / ₃₂	-	-	-	-	-	2	1

-67 = Ballistic buttons.

R25 drill bits for COP 1022



102-5035-27-67

Diameter		Product no	Product code	No of buttons	Buttons × button diameter (mm)		Gauge buttons angle°	Flushing hole	
mm	inch				Gauge	Centre		Side	Centre
BUTTON BIT - Ballistic buttons									
35	1 3/8	90509723	102-5035-27-67,39-20	7	5×9	2×7	25°	1	1
38	1 1/2	90505180	102-5038-27-67,39-20	7	5×9	2×7	40°	1	1
41	1 5/8	90505176	102-5041-27-67,39-20	7	5×9	2×8	40°	1	1

R25 extension rod for COP 1022

R25 (1") hex. Speedrod



Fully carburized. D = 35 mm. Rod section 28,5 mm.

Length (L)		Product no	Product code
mm	foot		
3050	10	90515578	202-0331-MF-C,02

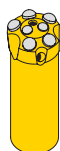
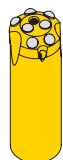
R25 shank end rod for COP 1022



Fully carburized.

Length (L)		Product no	Product code	Seal Product no	Seal Product code
mm	inch				
Shank hex. 22 mm (7/8") × 108 mm (4 1/4"). 25 mm (1") thread.					
265	10 3/8	90000237	502-0103-06-C,02	90002182	9232

Magnum SR28 drill bits for COP 1028



125-5033-17

125-5035-27

125-5041-37-67

125-5033-41-67

125-7033-44

Diameter		Product no	Product code	No of buttons	Buttons × button diameter (mm)		Buttons angle°		Flushing hole	
mm	inch				Gauge	Centre	Gauge	Centre	Side	Centre
BUTTON BIT - Spherical buttons										
33	1 ⁵ / ₁₆	90514200	125-5033-17,39-20	7	5×7	2×7	35°	–	1	1
33	1 ⁵ / ₁₆	90514117	125-5033-41,39-20	7	5×8	2×7	40°	15°	1	1
35	1 ³ / ₈	90514322	125-5035-27,39-20	7	5×9	2×7	25°	10°	1	1
38	1 ¹ / ₂	90514282	125-5038-27,39-20	7	5×9	2×7	30°	–	1	1
41	1 ⁵ / ₈	90515379	125-5041-27,39-20	7	5×9	2×8	40°	–	1	1
45	1 ³ / ₄	90514507	125-5045-27,39-20	7	5×11	2×8	30°	–	2	1
BUTTON BIT - Ballistic buttons										
33	1 ⁵ / ₁₆	90514137	125-5033-41-67,39-20	7	5×8	2×7	40°	15°	1	1
35	1 ³ / ₈	90514102	125-5035-27-67,39-20	7	5×9	2×7	25°	10°	1	1
38	1 ¹ / ₂	90516334	125-5038-41-67,39-20	7	5×9	2×8	40°	20°	1	1
41	1 ⁵ / ₈	90516383	125-5041-37-67,39-20	9	6×9	3×7	40°	–	–	3
45	1 ³ / ₄	90516422	125-5045-37-67,39-20	9	6×9	3×8	40°	–	–	3
CROSS-TYPE BIT					Insert					
					Width (mm)	Height (mm)				
33	1 ⁵ / ₁₆	90514429	125-7033-44,20-17		10,3	19,5			2	1

Magnum SR28 extension rod for COP 1028

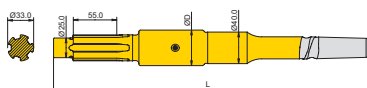
SR28 (1¹/₈" Hex. 25 mm (1") SR28 (1¹/₈"



Fully carburized. D = 34 mm. Rod section 28,5 mm.

Length (L)		Product no	Product code
mm	foot		
3050	10	90516350	225-0331-69-MF-C,02

Magnum SR28 shank adapter for COP 1028



Rock drill	Thread	Product no	Product code	Length (L) mm	Diam (D) mm	Flushing tube mm
COP 1028	SR28 (1 ¹ / ₈ "	90515870	425-07202,10	400	45,0	–