



Temporary spare parts list for
Tunnelling rig

BH 215
Boomer H115
(BVB 66H · BHU 32P)

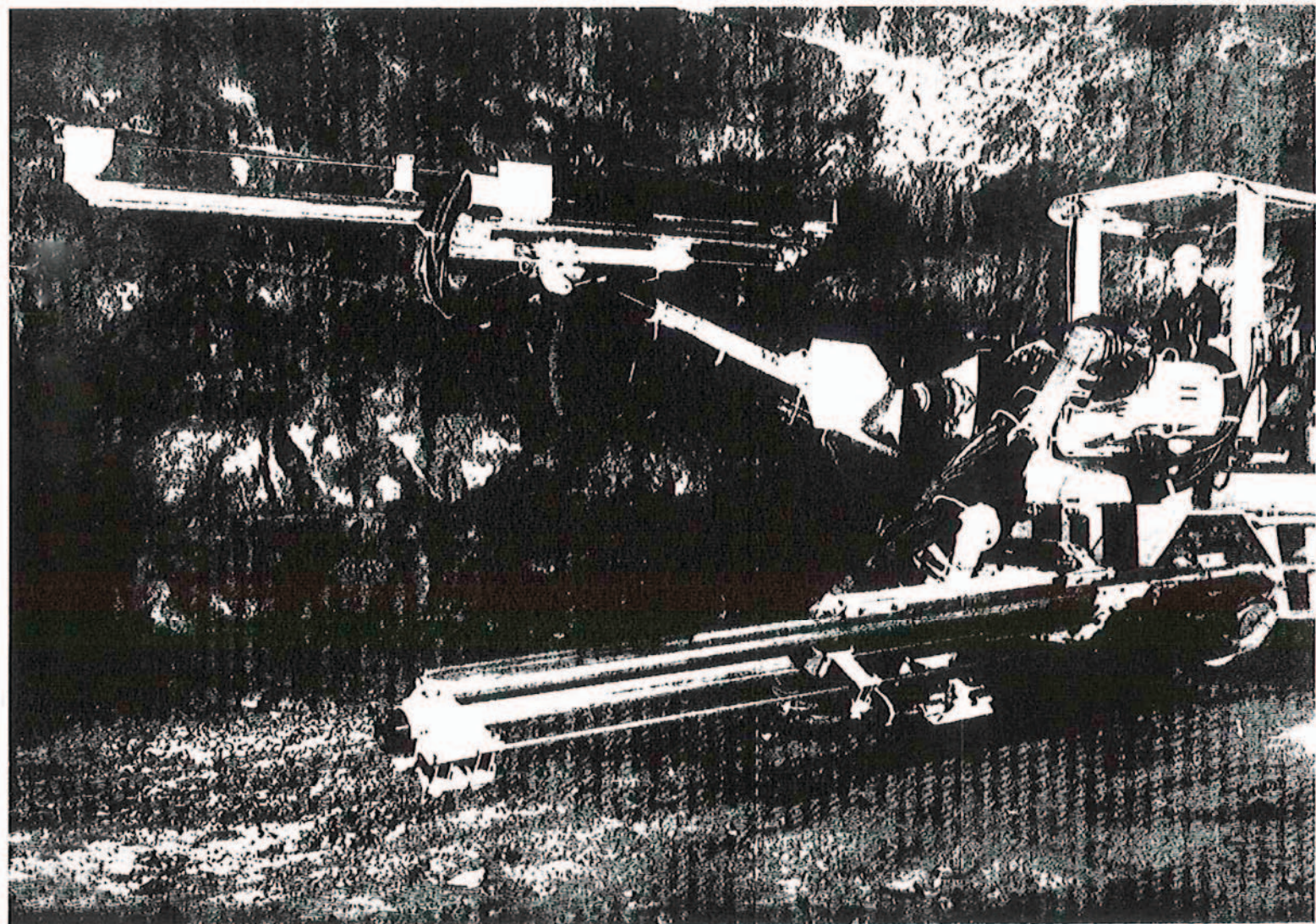
Temporär reservdelsförteckning för
Tunneldrivningsaggregat

Hydraulic boom

BUT 6

The small boom with the big possibilities

Atlas Copco



The BUT 6 hydraulic boom is intended for use in tunnelling and mining. It is designed for operation in small drifts and tight underground openings. Important features are the versatility in operation combined with low weight and compact dimensions.

BUT 6 features include:

- Telescopic boom function for versatility in positioning and compact transport dimensions.
- Automatic parallel holding takes the guesswork out of positioning and assures accuracy of the drilling pattern.
- Full 360° boom rotation gives complete coverage of the tunnel face. No blind spots restrict the positioning.
- Feed dump of 101° combined with the telescopic boom extension allows wall and roof drilling without repinning.
- The bolt-on attachment, low weight and compact dimensions facilitate mounting on small carriers.



Hydraulic rock drills

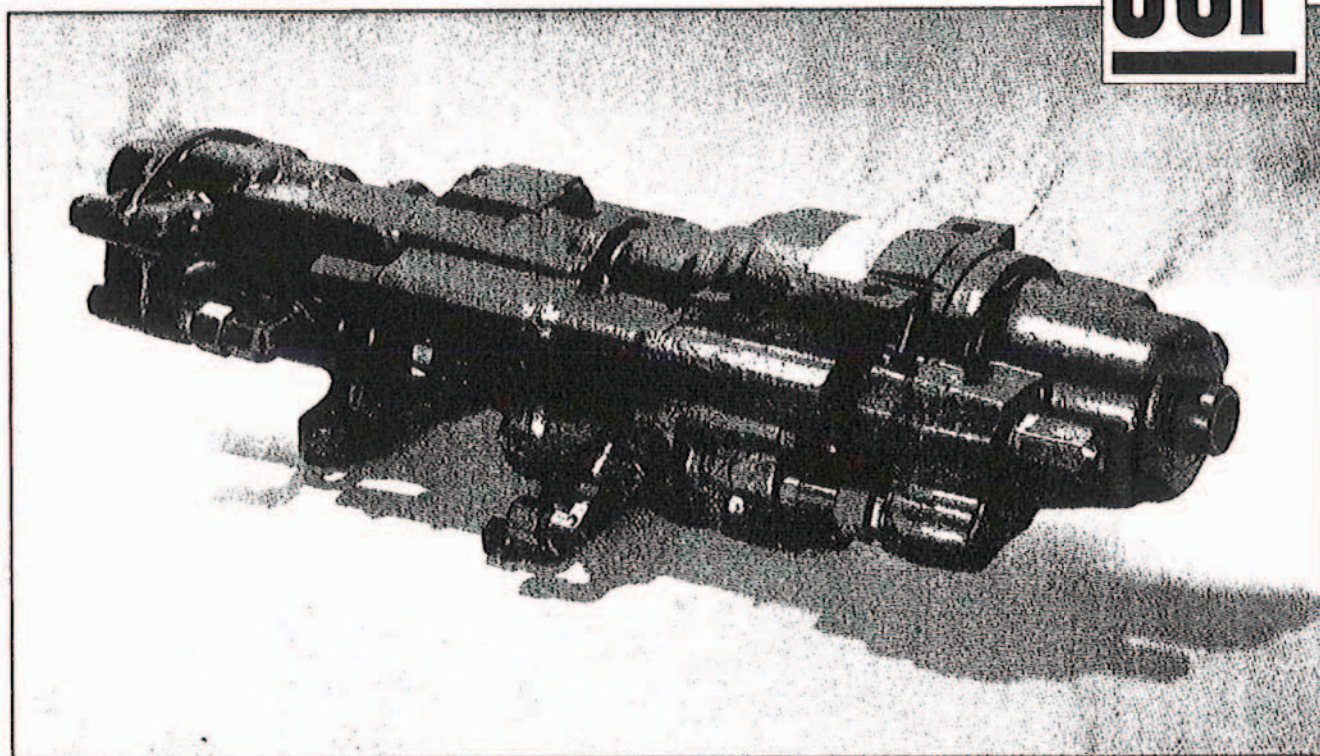
COP 1032HD

Medium-sized hydraulic rock drill for mechanized drifting with R32 rods and for rock bolting.

For 35 - 43 mm (1³/₈ - 1¹¹/₁₆ in) hole diameters

Atlas Copco

COP



41163-1

Features

- Long slender piston matched to the drill steel, permits optimal impact power without damaging the drill steel.
- Built in recoil dampener contributes to improved drill steel economy and reduces wear on rock drill, feed and boom.
- Adjustable stroke length makes it possible to adjust impact rate and energy to actual rock conditions and hole size.
- Separate reversible rotation with steplessly variable rotation speed.
- Pressurized fronthead lubricates the shank adapter and prevents dirt and water from entering the rock drill.
- External sealed off water flushing for pressures up to 10 bar ensures efficient removal of cuttings and better bit life.
- The low profile of COP 1032HD permits drilling close to walls with only 2° lookout angle.
- A nitrogen charged accumulator levels out pressure peaks in the hydraulic systems, reducing the vibrations and wear on hydraulic components.

Technical data

Weight, kg (lb)	110 (242)
Length, mm (in)	874 (34.4)
Width, mm (in)	260 (10.2)
Height, mm (in)	225 (8.9)
Height over drill centre, mm (in)	80 (3.2)
Impact rate,	
Hz (blows/min)	40-53 (2400-3180)
Impact power, kW (hp)	7.5 (10)
Hydraulic pressure, bar (psi)	150-240 (2175-3480)
Rotation speed, rpm	0-300
Rotation pressure, max, bar (psi)	100 (1450)
Rotation torque, max, Nm (lbf.ft)	200 (148)
Flushing water pressure, bar (psi)	4-10 (58-145)
Flushing water consump. at 6 bar,	
l/s (Imp.gal/min)	0.6 (7.9)
Lubrication air consump. at 2 bar, l/s (cfm)	1.7 (3.6)
Noise level, dB(A)	101
Shank adapter, female	R32
Suitable feed, type	BMH1112, BMH 1114

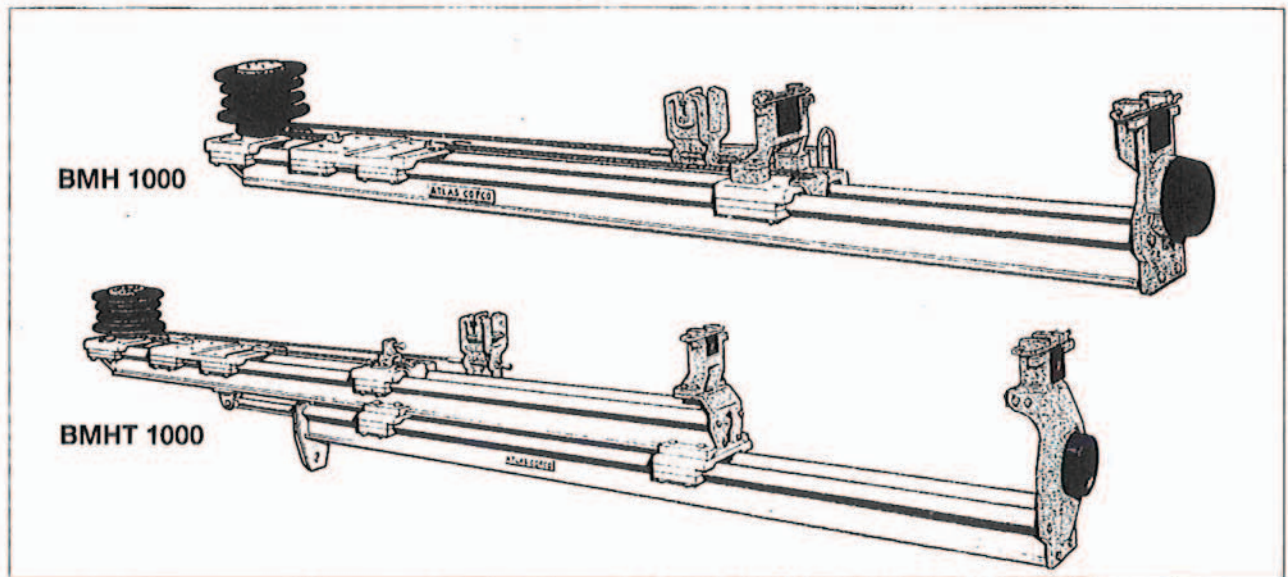
Hose dimensions

Oil to impact mechanism, mm (in)	12.5 (1/2)
Oil from impact mechanism, mm (in)	19 (3/4)
Oil to rotation (2), mm (in)	12.5 (1/2)
Flushing water, mm (in)	20 (3/4)
Lubricating air, mm (in)	6.3 (1/4)

Rock drill	Product No.
COP 1032HD	8311 1032 15

BMH 1000 series

Drifter feeds for medium-sized rock drills



The BMH 1000 series of hydraulic feeds are designed for use with BUT 25/28 booms on small and medium-sized drill rigs. New combinations of materials give greater load capacity together with significantly reduced maintenance costs.

In small drifts the telescopic versions BMHT 1000 are used together with two drill steel lengths, e.g. when drilling for drifting and roof bolting. The longer length is used for drilling the tunnel rounds, and shorter length of drill steel is used for drilling e.g. roof holes.

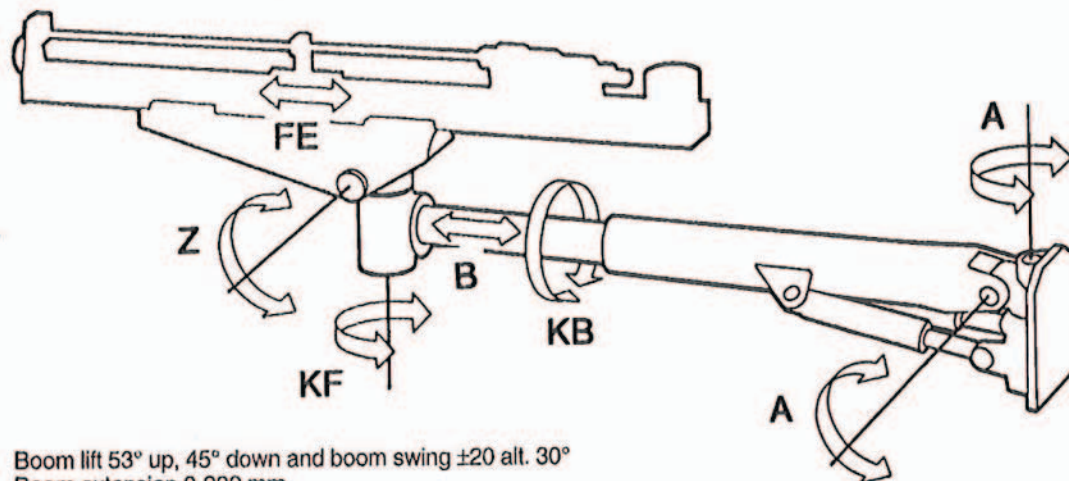
- Rigid, heavy-duty aluminium alloy feed beam with a special geometric profile, which gives lower weight and greater resistance to bending, torsional and vibrational stresses
- Easily, accurately guided cradle and perfectly centred rock drill ensure maximum service life for the shank adapter and drill steel
- Easy-to replace, stainless-steel guide sleeves maximise the service life of the feed beam
- High return speed
- Excellent overall economy

Feed force 10kN, 2250 lbf.

Note. The standard range of feeds below can be supplemented by semi-standard feeds to suit any drill steel length from 6 to 14 ft or rock drills.

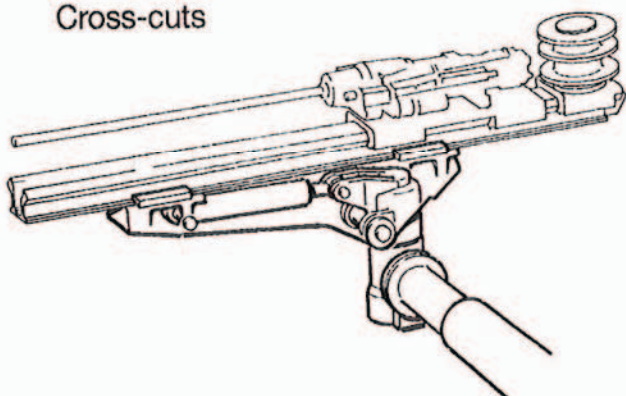
Type	Tele-scope extension	Product No.	Intended for rock drill	Drill steel type	Drill steel length	Hole depth	Total length	Weight net
					mm	mm	mm	kg
BMH 1108	—	3128 1007 00	COP 1032	R32-Hex32-R28	2500	2258	3662	238
BMH 1110	—	3128 1007 10		R32-Hex32-R28	3090	2848	4277	244
BMH 1112	—	8322 1111 16		R32-Hex32-R28	3700	3457	4882	254
BMH 1113	—	3128 1000 60		R32-Hex32-R28	4005	3762	5191	257
BMH 1114	—	8322 1111 24		R32-Hex32-R28	4310	4063	5488	260
BMH 1312	—	3128 1005 30	COP 1238	R38-Hex35-R32	3700	3446	5207	264
BMH 1313	—	3128 0700 30		R38-Hex35-R32	4005	3730	5488	267
BMH 1314	—	3128 0700 38		R38-Hex35-R32	4310	4051	5812	270
BMH 1512	—	3322 111165	COP 932	R32-Hex32-R28	3700	3439	4882	244
BMH 1514	—	3322 111181		R32-Hex32-R28	4310	4045	5488	250
BMHT 1110	Min Max	3128 1003 80	COP 1032	R32-Hex32-R28	1700 3090	1443 2832	2923 4287	326
BMHT 1110 R	Min Max	3128 1003 90		R32-Hex32-R28	1700 3090	1443 2832	2923 4287	326
BMHT 1112	Min Max	3128 1000 80		R32-Hex32-R28	1900 3700	1642 3442	3150 4897	338
BMHT 1114	Min Max	3128 0755 04		R32-Hex32-R28	2500 4310	2232 4046	3668 5501	350
BMHT 1312	Min Max	3128 1005 70	COP 1238	R38-Hex35-R28	2100 3700	1831 3431	3668 5217	346

BUT 4 boom movements

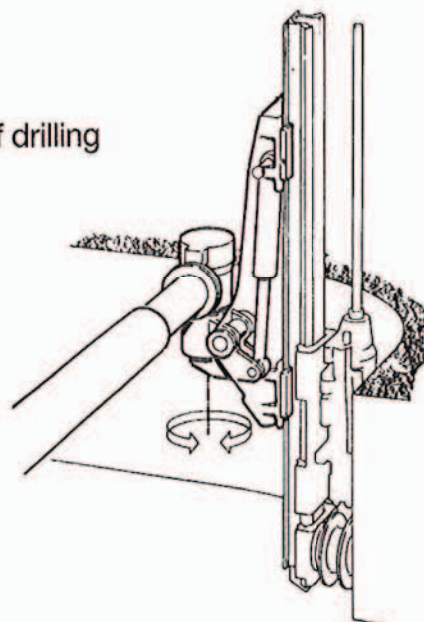


- A. Boom lift 53° up, 45° down and boom swing ± 20 alt. 30°
- B. Boom extension 0-900 mm
- KB. Boom rotation 360°
- Z. Look-out 20° up, 100° down
- KF. Feed rotation $\pm 98^\circ$
- FE. Feed extension 0-1500 mm

Cross-cuts



Roof drilling



The BUT 4 boom is a new boom concept with a centre-mounted feed with double rotation devices, which makes it possible to position the feed vertically on both sides of the boom. This arrangement gives the possibility to drill extremely close to the walls - both to the right and to the left - with the rock drill and drill string fully visible from the operator's position.

COP 1032HD

Hydraulic drifter feeds

	BMH 1112	BMH 1114
Total length, mm (in)	4866 (192)	5472 (215)
Steel length, mm (ft in)	3700 (12 1 ⁵ / ₈)	4305 (14 1 ¹ / ₂)
Max hole depth, mm (in)	3457 (136)	4063 (160)
Weight net, kg (lbs)	255 (562)	265 (584)
Feed force, kN (lbf)	10 (2250)	10 (2250)

ATLAS COPCO ROCK DRILLING TOOLS

Shank adapter

Length	Part No.
340 mm, extended fronthead	7803 3588 01
274 mm, earlier version	7803 3585 01

Drifter rods

	Length		Diameter		Part No.
	mm	ft	mm	In	
R32-Hex 32-R28 (first choice)	3090	10' 1 5/8"	32		7853 9231 20
	3700	12' 1 5/8"	32		7853 9237 20
	4005	13' 1 5/8"	32		7853 9240 20
	4305	14' 1 1/2"	32		7853 9243 20
R32-Hex 28-R28	2475	8' 1 7/16"	28		7853 2924 20
	3090	10' 1 5/8"	28		7853 2931 20
	3700	12' 1 5/8"	28		7853 2937 20
	4005	13' 1 5/8"	28		7853 2940 20
	4305	14' 1 1/2"	28		7853 2943 20
R32-Hex 32-R28 (slimmed part at shank end threads)	3700	12' 1 5/8"	32		7853 5737 20
	4005	13' 1 5/8"	32		7853 5740 20
	4305	14' 1 1/2"	32		7853 5743 20
R32-Hex 28-R25 (only rec. for 35 mm bit)	2475	8' 1 7/16"	28		7853 9824 20
	3090	10' 1 5/8"	28		7853 9831 20
	3700	12' 1 5/8"	28		7853 9837 20

Drill bits

	Diameter		Part No.
	mm	In	
R28 Button bits 2-wing type	38	1 1/2	7739 0238 40
	41	1 5/8	7739 0241 40
round 2-wing type	37	1 29/64	7739 0437 40 ¹
	38	1 1/2	7739 0438 40
	41	1 5/8	7739 0441 40
	43	1 11/16	7739 0443 40
R25 Button bits 2-wing type	35	1 3/8	7732 0235 40
	38	1 1/2	7732 0238 40
	41	1 5/8	7732 0241 40
round 2-wing type	35	1 3/8	7732 0435 40
	37	1 29/64	7732 0437 40 ¹
	38	1 1/2	7732 0438 40
	41	1 5/8	7732 0441 40
R28 Cross bits	38	1 1/2	7739 1438 42
	41	1 5/8	7739 1441 42
R25 Cross bits	35	1 3/8	7732 1435 42
	38	1 1/2	7732 1438 42
	41	1 5/8	7732 1441 42

1) Intended for Swellex

Reaming equipment

	Type	Diameter		Part No.
		mm	In	
Reaming 64 - 89 mm holes				
Pilot adapters (6° taper)	R28	26		7822 1526 00
	R25	26		7822 2526 00
Buttons bits		64	2 1/2	7722 6664 40
		76	3	7722 6676 40
		89	3 1/2	7722 6689 40
Reaming 89 - 102 mm holes				
Pilot adapters (12° taper)	R28	35		7821 1435 00
Button bits		89	3 1/2	7721 6489 40
		102	4	7721 6402 40

For further information see ATLAS COPCO ROCK TOOLS Selection Guide for Drifting and Tunnelling.

Atlas Copco

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The manufacturer reserves the right to make modifications without prior notice.