

COBRA

Fast food that's full of fibre: Cobra™ petrol-driven drill and breakers | Taste the real power



The **take-away** drill/breakers

Atlas Copco



A recipe for **success**



The Cobra™ machine has been building up a loyal fan-club since it was **first launched in the 1950's**. What's the secret behind its success? In one word: **productivity**.

Here's how: to begin with, the Cobra™ machine is extremely portable; second, there's virtually **no set-up time**; third, it's really **easy to start**; fourth, the **ergonomic design** helps boost productivity; and last but not least, the Cobra™ machine is **easy to service**.

Read on to discover new features and improvements that make the Cobra™ machine even more productive.



A breaker for **every taste**

Cobra™ comes in a range of different flavours. There is a Cobra™ that **doubles as a drill**, a Cobra™ that is especially made for **tie tamping** and a Cobra™ that **hits just plain hard**.

Add to this a smorgasbord of different working tools and you will find a Cobra™ that is exactly to your liking, whether you want it for **cutting** or **breaking, compacting** or **driving, drilling** or **splitting rocks**.

GENERATION 2010

Drill and breakers **to-go**



Easy to transport

The Cobra™ machine weighs just 25 kg and fits easily into car trunks. A wooden transport case is available.

The Cobra™ breaker is a machine you can just **grab and go**. That's because it's **petrol-driven**, so you don't need any compressors, hoses or cables.

The Cobra™ breaker is great for small, **quick-bite jobs**. Or fencing where you have to move down a line. Or for working in remote, inaccessible locations. In fact, the Cobra™ is so practical that it has become a fixture for emergency services around the world.

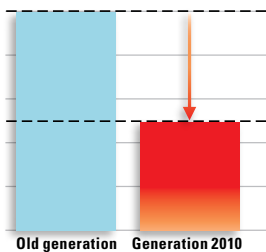
Cleaner emissions, lower vibrations, less noise

In 2010 and 2011 **stricter regulations on exhaust emission** for petrol driven breakers come into force, both in the USA and in Europe. To further whet your appetite, you'll be happy to hear that all Cobra models are already fully compliant with the new, stricter limits issued by the EPA for the US market and by the EU for the European market*.

Cobra breakers have **very good vibration values**. For example, improvements to the Cobra Combi have resulted in **reducing vibration levels even further** in comparison with the previous model. To help you compare, 3-axis vibration values are available, measured according to the ISO 20643 standard.

As operator comfort is a number one priority, a redesigned noise reduction system keeps the noise levels within set limits.

Exhaust emission comparison



Compared to the previous generation, the emission of hydrocarbons has been reduced by approx. 50 percent.

* EPA: Phase 3 Exhaust emission standards for small non-road engines (class 5)
EU: EG 97/68/EG with amendment 2002/88/EG



THE HEAVY HITTER – COBRA™ PRO

The breaker with the bite

The **Cobra™ Pro breaker** is the **heavy hitter** in the range. Clocking up an incredible 60 joules at the tool tip, it delivers almost twice the impact energy of other petrol-driven breakers on the market. In fact, it offers the same power-to-weight ratio as many pneumatic or hydraulic breakers, but without being tied down to a power source or hoses.

Always hungry

The Cobra™ Pro breaker helps you get the job done faster. This is due to a combination of **high percussive energy** and **high blow frequency**. Put them together, and you'll see why the Cobra™ Pro breaker is such a **productive** machine.

Whatever takes your fancy

With an extensive range of tools, you can use the Cobra™ Pro for everything from **cutting and breaking**, to **driving and compacting**.



Use the Cobra™ Pro to:

- break concrete
- cut asphalt
- dig
- drive posts and fences
- drive rods and spikes
- tamp and compact soil
- tamp ballast/ties

Cobra Pro & Cobra TT – ingredients behind the success



An easy starter

With a decompression valve and electronic ignition, the Cobra Pro and Cobra TT are **easy to start** in all weathers. A re-designed tank cap makes starting easier than ever.



Long lifetime

The high capacity air filter gives a longer lifetime. The filter is easy to access for fast servicing.

SPECIALLY MADE FOR TIE TAMPING – COBRA™ TT

The tie tamper with an appetite for work



The **Cobra™ TT** has been **specially designed for tie tamping**. It works at the relatively high frequency of 1,620 blows/min and the impact energy has been optimized to prevent pulverization of ballast.

Leaf springs to keep you refreshed

The first time you use a Cobra™ TT, you'll be surprised by the **low vibration levels**. This is thanks to a unique, patented vibro-dampening system that consists of leaf springs instead of the usual rubber bushings or spiral springs.

Drive-thru tamping

A petrol-driven breaker is **ideal for tie tamping**, since you don't have to worry about compressors, hoses or cables. And weighing just 25 kg, it **can be carried on and off track quickly and easily** by a single operator. By allowing for fast interventions, the Cobra™ TT reduces the need for closing tracks.

An extensive menu

In addition to tie tamping, the Cobra™ TT can be used for all kinds of maintenance work on tracks, crossings, access roads and railway stations –

- Spiking wooden sleepers
- Digging cable trenches
- Breaking concrete
- Cutting and compacting asphalt
- Driving posts and fencing



Audio Warning Device – AWD

Cobra TT AWD is compatible with AWD systems. An AWD system is designed to set off a siren and stop all breakers connected to the system when the lookout releases a switch on the approach of a train.



H.A.P.S
HAND AND ARM PROTECTION SYSTEM

Hand and arm protection
Atlas Copco's unique Hand and Arm Protection System (HAPS) reduces the negative effects of harmful vibrations at a given trigger time.



Vibro-reduction
The patented **vibration-dampening system** features leaf springs rather than rubber bushings or spiral springs.



SERVING **BREAKING & DRILLING** – COBRA™ COMBI

The **two-in-one** powerbar



Cobra™ Combi is not only a **breaker with a sting**, it's also doubles as a **powerful drill**. This multi-purpose machine can drill up to 30 cm per minute in solid granite and to depths of up to two metres, thanks to its built-in flushing device.

The Cobra™ Combi is great for those **light service jobs or working in remote locations**. It comes with its own carrying case which fits easily into the trunk of a car.

A **smorgasbord** of choice

With a range of many different working tools, you can use the Cobra™ Combi for everything from **breaking and drilling**, to **cutting, driving** and **compacting**. So whether you need to just break a small patch of concrete or split a rock, you can get the job finished with a petrol-driven machine in the same time that it takes to set up a compressor and hoses.

The multi-purpose Cobra Combi can:

- break concrete
- drill
- cut asphalt
- dig
- split rocks
- drive posts and fences
- drive rods and spikes
- tamp and compact soil
- tamp ballast/ties



An **easy starter**

With an electronic ignition, re-designed tank cap and choke, the Cobra Combi is **simple to start** in all weathers. An optional guide roller makes it easy to pull downwards to start the machine when it is placed higher up than the operator.



Function selector

Move the selector downwards for drilling. This will engage rotation and air flushing. For breaking, just move it upwards.



Long lifetime

The high capacity air filter and new **filter compensation** feature give a longer lifetime. The filter is easy to access for fast servicing.

Find the Cobra that suits **your taste**



		Cobra Pro	Cobra TT	Cobra Combi
Weight				
Weight	kg	25	25	25
	lbs	55	55	55
Dimensions				
Length	mm	927	927	732
	in	36	36	29
Depth	mm	331	331	281
	in	13	13	11
Width over handles	mm	611	611	585
	in	24	24	23
Drilling speed in granite	34 mm drill	-	-	250-300 mm/min
Max drilling depth	m	-	-	2
Capacity				
Impact energy	Joule	60 (at 1440 bpm)	40 (at 1600 bpm)	22-25 (at 2800 bpm)
Impact rate	bpm	720-1440	720-1600	2500-2800
Engine				
Type		90 cc single cylinder two-stroke	90 cc single cylinder two-stroke	185 cc single cylinder two-stroke
Power	kW	2,0 (at 5800 rpm)	1,5 (at 6500 rpm)	2,0 (at 2600 rpm)
Cooling system		Fan cooled	Fan cooled	Fan cooled
Starter system		Recoil starter	Recoil starter	Recoil starter
Recommended fuel		Petrol, 90-100 octane unleaded	Petrol, 90-100 octane unleaded	Petrol, 90-100 octane unleaded
Oil type		Atlas Copco two-stroke oil	Atlas Copco two-stroke oil	Atlas Copco two-stroke oil
Oil mix	%	2 (1:50)	2 (1:50)	2 (1:50)
Fuel capacity	l	1,0	1,0	1,2
	US gallon	0,26	0,26	0,31
Fuel consumption	l/hour	0,9	0,8	1,4
	US gallon/hour	0,24	0,21	0,37

Model	Tool shank		Part number
	mm	in	
Cobra Pro	32x160	1 1/4" x 6 1/4"	8318 0700 35
Cobra Pro	32x152	1 1/4" x 6"	8318 0700 37
Cobra Pro	28x160	1 1/8" x 6 1/4"	8318 0700 39
Cobra Pro	28x152	1 1/8" x 6"	8318 0700 41
Cobra TT	32x160	1 1/4" x 6 1/4"	8318 0700 43
Cobra TT	32x152	1 1/4" x 6"	8318 0700 45
Cobra TT	28x160	1 1/8" x 6 1/4"	8318 0700 47
Cobra TT	28x152	1 1/8" x 6"	8318 0700 49
Cobra TT - AWD	32x160	1 1/4" x 6 1/4"	8318 0700 51
Cobra Combi	22x108	7/8 x 4 1/4	8318 0800 08

		Cobra Pro	Cobra TT	Cobra Combi
Vibration & noise¹⁾				
Vibration level 3-axis (acc. to ISO 20643)	m/sec ²	4,3	4,5	5,8 (breaking) 9,3 (drilling)
Sound power level L _w (acc. to ISO 3744)	dB(A)	109	109	108
Sound pressure level L _p , r=1m (acc. to ISO 11203)	dB(A)	96	96	95

¹⁾ Full details of measurement is available in the Safety and operating instruction of the product.

Spices that keep the sting in your tail



Atlas Copco working tools are manufactured from a steel that is purpose designed and specified for breaker applications. A controlled heat treatment process imparts both strength and high wear resistance to deep surface layers while maintaining a tough shock-resistant central core to resist breakage.

Description	Tip width		Working length		Weight		Part number
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Shank H 32x160 mm (H 1 1/4 x 6 1/4 in)	Tip width		Working length		Weight		Part number
	mm	(in.)	mm	(in.)	kg	(lb)	
Moil point			380	15	3,5	7,7	3083 3205 00
Moil point			450	18	4,0	8,8	3083 3206 00
Moil point			1000	39	8,2	18,0	3083 3207 00
Narrow chisel	35	1 3/8	380	15	3,5	7,7	3083 3208 00
Narrow chisel	35	1 3/8	450	18	4,0	8,8	3083 3209 00
Narrow chisel	35	1 3/8	1000	39	8,2	18,0	3083 3210 00
Wide chisel	75	3	380	15	4,0	8,8	3083 3211 00
Asphalt cutter	115	4 1/2	300	12	3,8	8,4	3083 3212 00
Digging chisel	75	3	380	15	4,2	9,2	3083 3213 00
Digging spade	125	5	380	15	5,3	11,7	3083 3214 00
Clay spade	140	5 1/2	380	15	5,4	11,9	3083 3215 00
Wedge chisel	40	1 1/2	400	16	5,5	12,1	3083 3216 00
Tie tamper	100	4	400	16	4,5	9,9	3083 3217 00
Tie tamper	100	4	580	23	5,0	11,0	3083 3217 10
Shaft for tamping pad			235	9 1/4	3,6	7,9	3083 3218 01
Tamping pad, round	180	7			7,5	16,5	3083 3301 00
Tamping pad, square	150	6			8,3	18,3	3083 3302 00
Tamping pad, square	200	8			10,3	22,7	3083 3197 00

The striking face is end-milled, which results in better contact between the piston and the tool, improved transfer of energy, as well as less vibration and wear on both breaker and working tool.

At Atlas Copco we maintain a comprehensive range of working tools to ensure that you always have the right tool for the job.

More accessories can be found in the Consumables and Accessories catalogue: 9800 0304 01.

Description	Size	Part number
Fuel can	5,0 litre	9234 0008 97
Carrying harness		9238 2814 10
Guide roller		9234 0009 38
2-stroke oil	1,0 litre / 0,26 gallon	9238 2743 50
Trolley		9234 0006 54
Transport box		9234 0009 91



Use only authorized parts. Any damage or malfunction caused by the use of unauthorized parts is not covered by Warranty or Product Liability.

Tool type	Working length		Tip width		Weight		Part number
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Shank H 22x108 mm (H 7/8 x 4 1/4 in)	Working length		Tip width		Weight		Part number
	mm	(in.)	mm	(in.)	kg	(lb)	
Drill steel	1200	(47)	32	(1 1/4)	4,3	(9,2)	714-1232, 05-02
Drill steel	800	(31)	33	(1 5/16)	3,1	(6,5)	714-0833, 05-02
Drill steel	400	(16)	34	(1 3/8)	1,8	(4,1)	714-0434, 05-02
Reamer bit			76	(3)	1,2	(2,6)	175-5076, 39-20
Pilot drill.rod	800	(31)	26	(1)	3,3	(7,3)	575-3108, 11-17
Tie tamper	390	(15 1/2)	90	(3 1/2)	3,0	(6,5)	3083 3237 00
Tie tamper	460	(18)	90	(3 1/2)	3,2	(7,0)	9245 2823 30
Tie tamper	550	(22)	90	(3 1/2)	3,9	(8,5)	9245 2822 40
Moil point	350	(14)			1,4	(3,1)	3083 3228 00
Moil point	480	(19)			2,0	(4,5)	3083 3229 00
Wide chisel	240	(9 1/2)	45	(1 3/4)	1,2	(2,7)	3083 3231 00
Wide chisel	340	(13 1/2)	45	(1 3/4)	1,4	(3,1)	3083 3230 00
Wide chisel	380	(15)	75	(3)	2,6	(5,7)	3083 3232 00
Wide chisel	450	(18)	45	(1 3/4)	2,0	(4,5)	3083 4071 00
Asphalt cutter	350	(14)	125	(5)	3,0	(6,5)	9245 2812 90
Digging chisel	280	(11)	75	(3)	2,7	(6,0)	3083 3233 00
Digging spade	330	(13)	120	(4 3/4)	3,6	(8,0)	3083 3234 00
Wedge set 29 mm					1,5	(3,3)	9245 2813 81
Wedge set 34 mm					2,1	(4,6)	9245 2813 51
Ground rod driver	195	(7 3/4)	42	(1 11/16)	1,2	(2,6)	3083 3241 00
Clay spade	350	(14)	125	(5)	3,4	(7,5)	3083 3235 00
Wedge chisel	380	(15)	35	(1 3/8)	2,8	(6,2)	3083 3236 00
Driver blank	195	(7 3/4)	55	(2 1/8)	2,5	(5,5)	9245 2822 80
Shaft for pad	185	(7 1/4)			1,3	(2,9)	3083 3238 00
Tamping pad, round			175	(7)	7,5	(16,5)	3083 3252 10
Tamping pad, square			175	(7)	5,7	(12,5)	3083 3239 00
Tamper sq.,compl.	190	(7 1/2)	175	(7)	7,0	(15,5)	3083 3240 00
Driver pad, round			100	(4)	2,5	(5,5)	9245 2817 90
Post hole driver	460	(18)	Ø 40	Ø 1 1/2	4,2	(9,2)	9245 2822 31