

# Product Information

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our **power**, your **passion**

## NEW BRUSHCUTTERS BC 22 S - BC 22 T (EURO 1)

Mod. BC 22 T

Mod. BC 22 S



Emak presents its new range of the world's most lightweight brushcutters, establishing a new benchmark in their class.

The BC 22 S and BC 22 T range was developed for demanding private users who need to use a brushcutter regularly and are looking for a tool that is:

- lightweight: easy to handle and guaranteeing lasting efficiency,
- simple: easy starting, operation and maintenance
- compatible with fatigue-free operation

To meet these requirements, these new brushcutters use a series of technical solutions that are normally standard features only on professional models. Special attention was devoted to compliance with the most stringent anti-pollution regulations (Euro 1) and compatibility with alkylate petrol.

Thanks to the new super economy engines, these brushcutters will provide more than 50 minutes of continuous operation before refuelling.

## PERFORMANCE AND ENGINEERING SOLUTIONS

- **21.7 cm<sup>3</sup> 1.1 HP (0.82 kW) 2-stroke engines**, in compliance with regulations (Euro 1), compatible with alkyl petrol and featuring a high linear torque curve even at low revs.
- **Piston with 2 rings, diecast cylinder** with Nickel plating, forged con rod and crankshaft (Fig. 1): guaranteeing an extremely rugged and durable engine.

Fig. 1



- **Digital coil with electronic control** (Fig. 2) and revs limiter: for easier starting, improved performance thanks to uniform combustion, and reduced fuel consumption.

Fig. 2



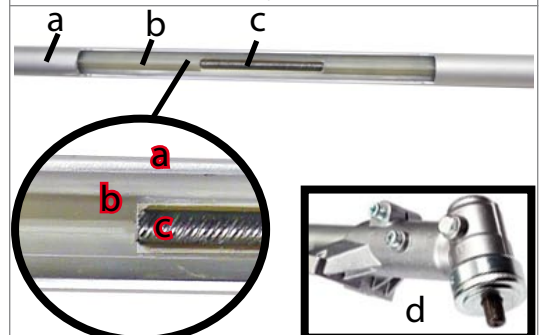
- **Aluminium clutch housing support** (Fig. 3): optimised and reduced weight of the tool while imparting high strength and lasting reliability.

Fig. 3



- **Ø 24 mm aluminium tube** (Fig. 4a), nylon sheath (Fig. 4b), 6 mm internal flexible shaft (Fig. 4c) and **aluminium bevel gear pair with M 10 male drive pin** (Fig. 4d), for unimpeded power transmission.

Fig. 4



## EASE OF USE

- **A graphic representation** of starting operations facilitates engine starting even for less expert users (Fig. 5a).
- **Air purge primer** (Fig. 5b) visible on the engine cover ensures easier access and operation.
- **The on/off switch** (Fig. 5c) returns automatically to the “on” position after each stop (always on).
- **Choke lever integral** with half-throttle setting for fast and easy starting.

Fig. 5



- **“Easy on” device** (Fig. 6) composed of a double spring in the starter cover combined with driver with two ratchets means reduced force with each pull and fast starting with fewer rope pulls.

Fig. 6



- **Filler cap with two grips** (Fig. 7a) (side and top) and tank filler neck (Fig. 7b) in vertical position for easier refuelling.

Fig. 7



- **Transparent fuel tank** (Fig. 7c) for instant view of the quantity of fuel remaining.

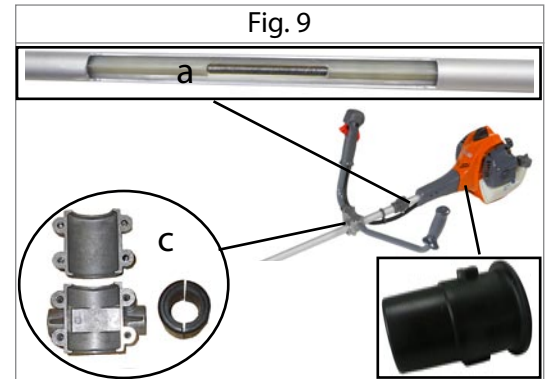
Fig. 8



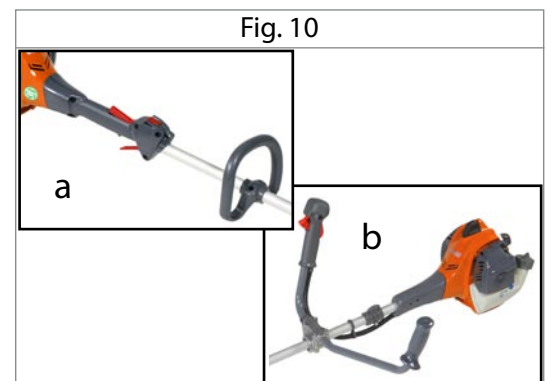
- **Innovative 110 mm Ø “LOAD & GO” line head** (Fig. 8): for straightforward line replacement - just 20 seconds to rewind the line and resume work.

## COMFORT

- **Built-in antivibration system:** greatly reduced vibrations felt by the operator during use of the tool (Fig. 9).



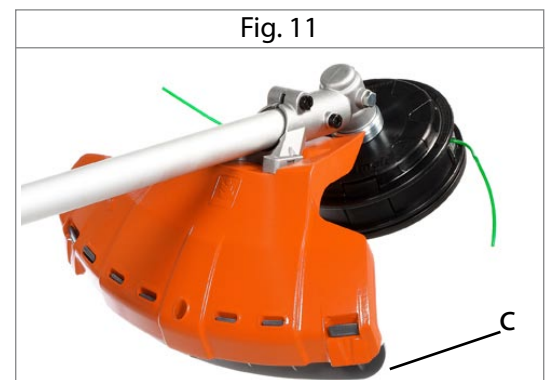
- **Ergonomic handles:** provide an anatomical and comfortable grip of the tool at all times.



- **150 mm drive tube:** the operator is always able to maintain an erect posture.

- **New stone guards** for efficient protection against projected debris.

In addition, simply removing the skirt with line cutter knife (Fig. 11c) makes the line head suitable for use with a metal blade.



- **Harness,** supplied as standard is easy to adjust and imparts greater freedom of movement allowing improved weight distribution in accordance with the operator's stature.



## EASE OF MAINTENANCE

- **Large size sponge air filter**: guarantees high filtration efficiency and easy maintenance
- **Patented “EMAK” air & fuel diode** (Fig 13b), this small but simple invention reduces natural two stroke spitback, offers great engine stability, cleaner longer life of filter, less fuel consumption. A great power tool engineering idea.

Fig. 13



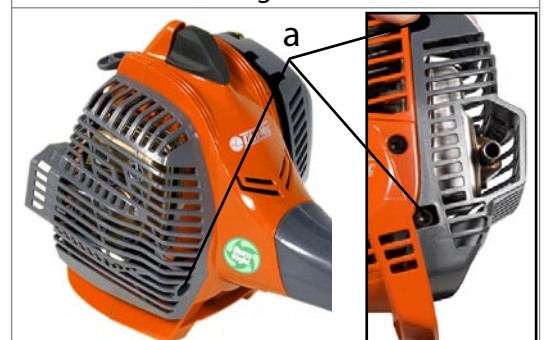
- **Filter cover accessible without tools** by means of specific knob (Fig. 14a): facilitates air filter inspection and cleaning.

Fig. 14



- **Silencer protection** (Fig. 15a) **separate** from the engine cover, removable by means of 3 screws: provides rapid access in the case of maintenance.

Fig. 15



- All **screws** are of the **TORX head type**, to allow the use of a single tool for most maintenance procedures (Fig. 16).

Fig. 16





## TECHNICAL SPECIFICATIONS

1	MODEL	BC 22 S		BC 22 T	
ENGINE					
TYPE			Emak 2-stroke / EURO 1		
DISPLACEMENT		cm³	21,7		
BORE x STROKE		mm x mm	32 x 27		
MAXIMUM POWER OUTPUT		HP/kW (rpm)	1,1 / 0,82 (8500)		
MAXIMUM TORQUE		Nm (rpm)	1,1 (6500)		
IDLING SPEED		rpm	2800-3100		
MAXIMUM NO LOAD SPEED		rpm	10300		
HOURLY FUEL CONSUMPTION (at max power output)		g/h (rpm)	410 - 450 (8500)		
IGNITION SYSTEM					
TYPE			Digital with variable ignition advance and speed limitetor		
COIL			WALBRO MBU53		
SPARK PLUG			NGK CMR7H		
EASY START			Yes		
FUEL & LUBRICATION SYSTEM					
CARBURETTOR			WALBRO WT-1041		
FUEL			Compatibility with alkylate mix		
FUEL TANK CAPACITY		l	0,4		
AIR FILTER			Sponge		
PRIMER			Yes		
TRANSMISSION SYSTEM					
DRIVE SHAFT ( Ø ) "Outer / Inner"		mm	Ø24 (Ø6 flex)		
BEVEL GEAR PAIR			Pin male M10x1,25 sx		
CLUTCH COVER			Plastic with aluminum drum support		
CLUTCH (DIMENSION)		mm	54		
ERGONOMICS					
HARNESS			Single harness		
FRONT HANDLE			Plastic loop	Steel handlebar	
REAR HANDLE			Plastic		
ON / OFF SWITCH			A button (always on)		
ANTI-VIBRATION SYSTEM			Nylon Sheath + damping rubber in clutch cover	Nylon Sheath + damping rubber in clutch cover+ 2 rubber in handlebar support	
CUTTING SYSTEM					
STANDARD CUTTING DISC			Optional	3 teeth Ø 10" / 255 mm thickness 1.8 mm	
STANDARD NYLON STRINGHEAD			Load &Go Ø110mm line 2,4 mm		
CUTTING GUARD - CUTTING WIDTH (with stringhead)		Ø mm	370		
IN COMPLIANCE WITH					
WEIGHT (Without cutting tools)		kg	4,25	4,8	
POWER-TO-WEIGHT RATIO		kg / Kw	5,2	5,9	



It's an Emak S.p.A. trademark Member of the Yama Group  
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