

# Product Information

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Nr.	203
Date	3/2012
Subject	BC 430 S - BC 430 T - BCF 430



our power, your passion

## NEW PROFESSIONAL BRUSHCUTTERS BC 430 S - BC 430 T - BCF 430

Mod. BC 430 T



Mod. BC 430 S

Mod. BCF 430



The new **BC 430 S - T** and **BCF 430** professional brushcutters are designed to meet the needs of professional users seeking a powerful, rugged and comfortable tool.

The new anti-vibration system, with 4 steel springs in the handlebar version, greatly reduces the transmission of vibration, ensuring perfect manoeuvrability of the cutting head.

The innovative filter support with fuel anti-backflow element (Emak patent), makes it possible to extend the time between filter replacements while simultaneously ensuring the maximum performance.

The **"LOAD & GO"** head simplifies and streamlines line reloading procedures.

In addition to the attractive new styling, these tools are characterised by their high power output, the rugged 28 mm diameter shaft arm, professional bevel gear pair with M10 external male drive pin, and professional harness.

### Performance

Excellent work rate under all conditions, even the toughest.

### Comfort

New anti-vibration system and ergonomic handles guarantee comfortable operation at all times, even after long stints.

### Simplicity

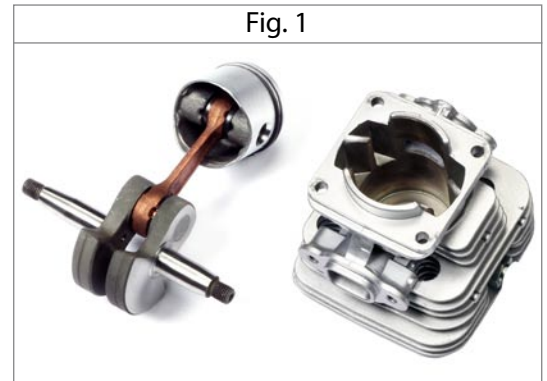
Easy to start, effortless to run, and simple to maintain.

### Low energy consumption

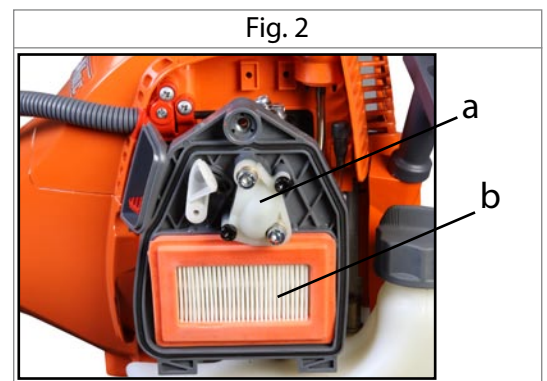
Economy in operation and long endurance.

## PERFORMANCE AND ENGINEERING SOLUTIONS

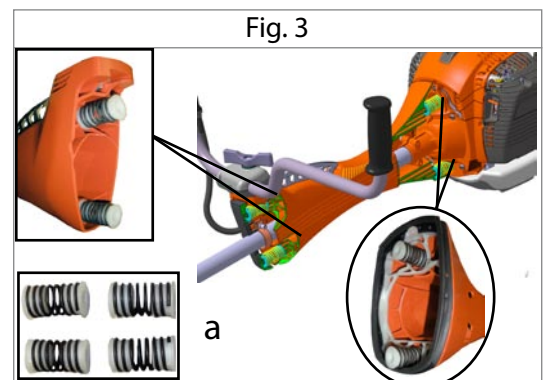
- **New 44 cc two-stroke Euro 2 engine** with **catalytic converter** of design complying with environmental standards and stringent regulations on emissions.
- **Professional-grade diamond-machined piston and nickel-plated cylinder** (Fig. 1): long-term durability and unfaltering performance guaranteed.
- **High torque** at all crankshaft speeds: effective cutting and unfailingly steady work rate, even on particularly dense vegetation.
- **Digital coil with electronic control**: ensures effortless starting and improves performance, always guaranteeing uniform combustion and low fuel consumption.



- **Filter support (Emak patent)** with **anti-backflow element** (Fig. 2a), (prevents the filter from becoming fouled by fuel) for longer operation between filter maintenance procedures.
- **Generously sized paper filter element** (Fig. 2b): optimum filtering action, ideal for heavily dust-laden environments.

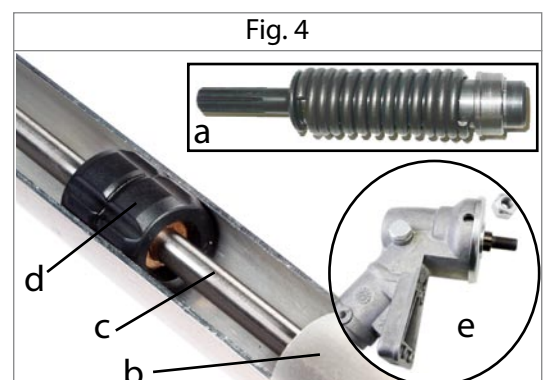


- **New shock absorber system** integrated in the operating handle: with 4 steel springs interposed between engine and transmission in the handlebar version (Fig.3a).



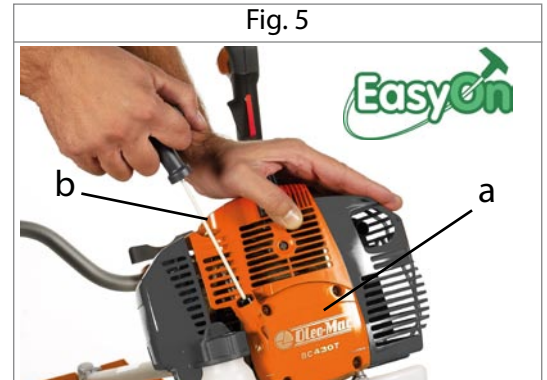
- The introduction of the **torsional damper** on the drive shaft (Fig. 4a) between bevel gear and transmission shaft (only for BC 430 S) enables a considerable reduction in vibration during acceleration of the engine.

- **Ø 28 mm aluminium tube** (Fig. 4b), **8 mm internal rigid shaft** (Fig. 4c) carried in **6 self-lubricating bushes** (Fig. 4d) and **aluminium bevel gear pair with M 10 male drive pin** (Fig. 4e), for unimpeded power transmission.

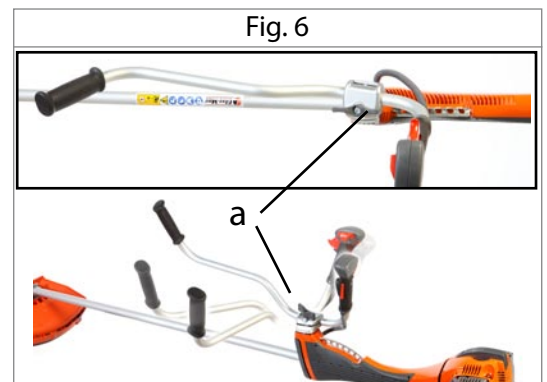


## EASE OF USE

- “Easy-on” starting system (Fig. 5a) for smooth and jerk-free starting,
- Primer (Fig. 5b) exposed to view on the engine cowling, for improved access and easier operation.



- On BC 430 T, the handlebar angle can be adjusted by means of a knob (Fig. 6a), with no need for any tool, and folded against the shaft to make the machine more compact for transport and storage purposes.







- Innovative 130 mm Ø “LOAD & GO” line head (Fig. 7): for straightforward line replacement - just 20 seconds to rewind the line and resume work.



- New harness attachment system: features a special “S” profile with 6 fixing points, making the snap easier to fasten and release.

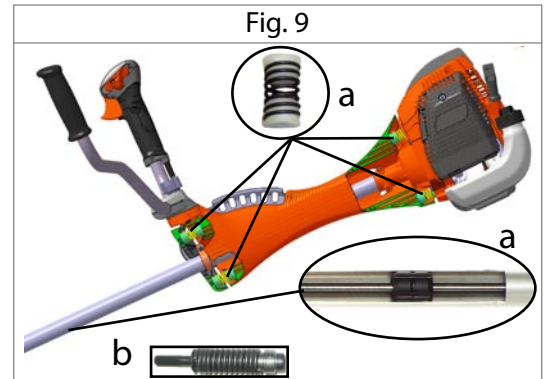
- Several optional accessories are available for the various versions (identified by the outer diameter of the shaft arm) to allow different kinds of uses, according to the particular application (Fig. 8).

Fig. 8

				
	EH 25 - 50	EP 120	EP 100	4188 901
BC 430 S			O	O
BC 430 T			O	O
BCF 430	O	O		

## COMFORT

- **Professional grade anti-vibration system** (Fig. 9a). The introduction of the torsional damper on the drive shaft (Fig. 9b) between bevel gear and transmission shaft (only for BC 430 S) enables a considerable reduction in vibration during acceleration of the engine.



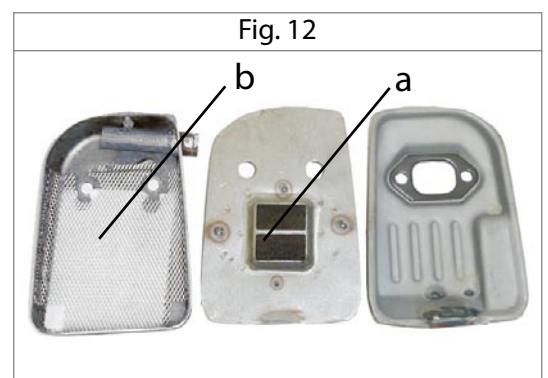
- **Ergonomic handles** (Fig. 10): plastic covered in soft rubber (loop handle), or aluminium with moulded rubber grips (handbar). The operator always has a firm and comfortable grip on the machine.



- **Professional harness** (Fig. 11) (BC 430 T model), easily adjustable, gives greater freedom of movement and favours a more even weight distribution, according to the height and build of the operator.



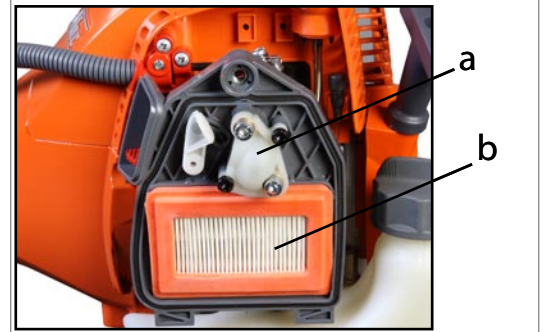
- **Exhaust system** (with deflector) designed to direct exhaust gases away from the operator. **Sound-proofed muffler** (Fig. 12b) with **catalytic converter** (Fig. 12a) designed to reduce pollution of non-combustible hydrocarbons and for silent operation.



## EASE OF MAINTENANCE

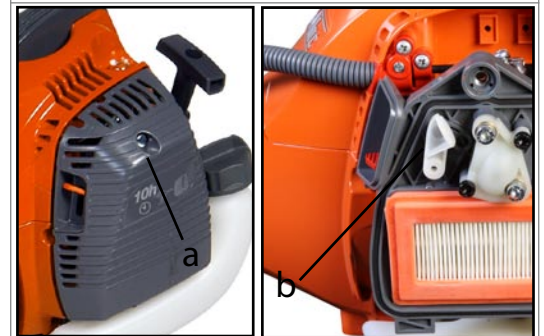
- **Filter support (Emak patent)** with **anti-backflow element** (Fig. 13a), (prevents the filter from becoming fouled by fuel) for longer operation between filter maintenance procedures.
- **Generously sized paper filter element** (Fig. 13b): optimum filtering action, ideal for heavily dust-laden environments.

Fig. 13



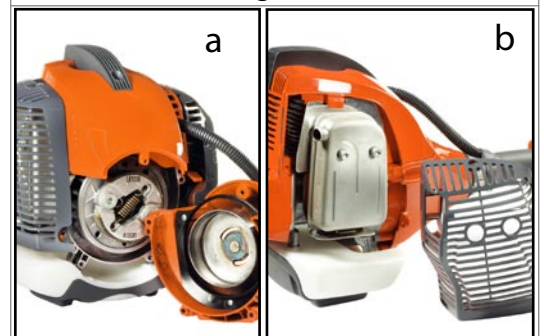
- The **screw-on air-cleaner cover** (Fig.14a) and **gasket** (Fig.14b) provide a hermetic seal thus greatly reducing the intake of microparticulate.

Fig. 14



- **Nose cone and muffler guard** (Fig. 15a-15b) independent of engine cover, and removable by undoing screws: sectional arrangement allows fast access to specific areas for servicing purposes.

Fig. 15



- The **shaft guard** (Fig.16a) made of wear and abrasion resistant material, can be easily removed and replaced by means of screws.

Fig. 16



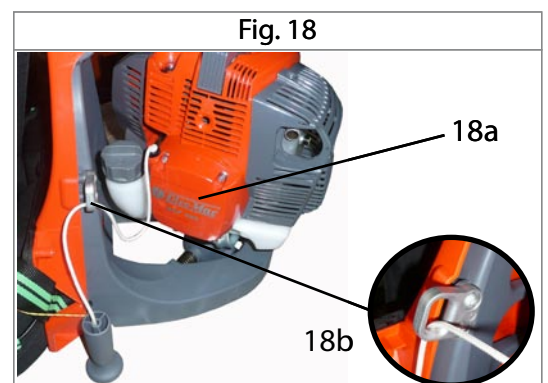
## BCF 430 SPECIFICATIONS

- **Innovative quick-release system** (Fig. 17a), with a straightforward action. Simply by pulling the red knob in the harness (Fig. 17b), the operator can quickly jettison the machine in hazardous situations.



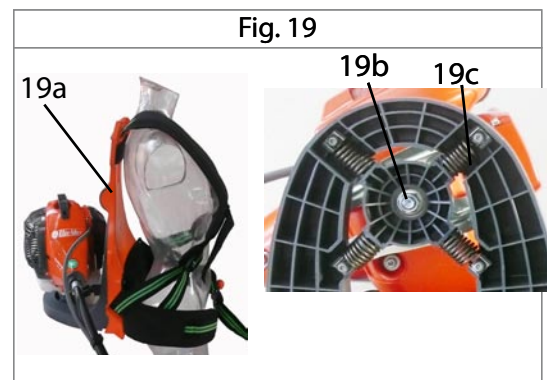
- **"Easy-on" starting system** (Fig. 18a) for smooth and jerk-free starting, without having to remove the backpack.

- The **ring** that can be connected to either side of the backpack (Fig. 18b) enables the position of the starter rope to be switched so that starting is equally easy for left-handed and right-handed operators.



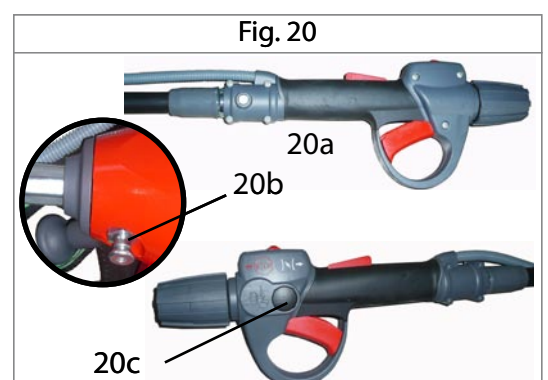
- **Ergonomic backpack** which allows operators to twist and bend without restriction, ensuring maximum freedom of movement (Fig. 19a).

- **Professional grade anti-vibration system** (Fig. 19) consisting of a bearing-mounted engine frame (Fig. 19b), 4 anti-vibration steel springs (Fig. 19c) and 6 self-lubricating bushes in the aluminium shaft arm, ensures effective shock absorption.



- **New 350° rotating handgrip** (Fig. 20a) which can be easily detached from the shaft arm without interfering with the cables, for fuss-free transport.

- The quick-release device for the **transmission** (Fig. 20b) on the flexible sheath side (Fig. 20c), aluminium shaft arm side, means that the machine can be assembled without the use of tools.





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## TECHNICAL SPECIFICATIONS

MODEL	BC 430 S	BC 430 T	BCF 430	
<b>ENGINE</b>				
TYPE		Emak 2-stroke / EURO 2 (with Catalyst)		
DISPLACEMENT	cm <sup>3</sup>	44		
MAXIMUM POWER OUTPUT	HP/KW (rpm)	2,5 / 1,83 (7500)		
MAXIMUM TORQUE	Nm (rpm)	2,5 (5500)		
IDLING SPEED	rpm	3000		
MAXIMUM NO LOAD SPEED	rpm	10700		
HOURLY FUEL CONSUMPTION (at max power output)	g/h (rpm)	750 (7500)		
<b>IGNITION SYSTEM</b>				
TYPE		Digital		
EASY ON		Yes		
<b>FUEL &amp; LUBRICATION SYSTEM</b>				
CARBURETTOR		Walbro WT 1053		
FUEL		Mix 4% with PROSINT oil 2% (50:1)		
FUEL TANK CAPACITY	l	0,75		
AIR FILTER		Paper		
PRIMER		Yes		
<b>TRANSMISSION SYSTEM</b>				
DRIVE SHAFT ( Ø ) "Outer / Inner"	mm	28 (with steel shaft Ø 8mm)	26 (with steel shaft Ø 7 mm)	
ROD LENGTH	mm	1556		
BEVEL GEAR PAIR		with M10 male thread		
CLUTCH (DIMENSION)	mm	2 elements with FERODO PADS (75 x 18)		
<b>SAFETY</b>				
SOUND PRESSURE (LpA EN ISO 11806 - EN 22868)	dB(A)	disc 102	disc 102	disc 100
		nylon head 107	nylon head 107	nylon head 101,2
SOUND POWER (LwA 2000/14/EC - EN 22868 - EN ISO 3744)	dB(A)	disc 110	disc 110	disc 113
		nylon head 117	nylon head 117	nylon head 117
VIBRATION LEVEL ( EN 11806 - EN 22868 - EN 12096 )	m/s <sup>2</sup>	disc 7,4 SX - 11,4 DX	disc 3,5 SX- 4,5 DX	disc 2,6 SX - 2,1 DX
		nylon head 6,7 SX - 10,6 DX	nylon head 3,1 SX - 3,2 DX	nylon head 4,2 SX - 3,7 DX
<b>ERGONOMICS</b>				
HARNESS		Single	Professional full body harness	Ergonomic backpack frame with padded shoulder straps
FRONT HANDLE		ERGONOMIC Loop	ERGONOMIC Handlebar	ERGONOMIC Loop
REAR HANDLE		Standard with throttle trigger lockout	Ergonomic with moulded rubber grips	Standard with throttle trigger lockout
ANTI-VIBRATION SYSTEM		6 self lubricating brass and rubber bushings in drive shaft. 1 rubber in the clutch housing to shaft.	6 self lubricating brass and rubber bushings in drive shaft.+ 1 rubber in the clutch housing to shaft. + 4 steel springs between handle-bar and tube.	4 steel springs on the backpack support and 6 bushings on antivibration mounts inside the drive tube.
<b>CUTTING SYSTEM</b>				
STANDARD CUTTING DISC		Steel disc cutter with 3 teeth Ø 10" / 255 mm, thickness 1,8 mm		
STANDARD NYLON STRINGHEAD		Load & Go Ø 130 mm with Ø 3.0 mm nylon line		
CUTTING GUARD - CUTTING WIDTH (with stringhead)	mm	Plastic (380)		
WEIGHT (Without cutting tools)	kg	7,7	8,5	9,4
POWER-TO-WEIGHT RATIO	kg / Kw	5,147	5,57	4,5



CODICE CLIENTE:

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