

## Product Information

Language	INGLESE
Nr.	139
Date	1/2009
Subject	SPARTA 42 BP



our power, your passion

# NEW SPARTA 42 BP BACKPACK BRUSHCUTTER



**Mod. SPARTA 42 BP**

The new **SPARTA 42 BP** brushcutter is the ideal machine for all kinds of work on irregular terrain and slopes and for clearing ditches, embankments and woodland undergrowth.

Devised specifically for intensive jobs and meticulously designed to alleviate the operator's workload and enhance comfort in any situation. The new model provides the best combination of robustness, high performance and manoeuvrability to ensure:

### **Performance**

Professional engine delivers high efficiency and maximum productivity.

### **Easy use**

So that even less expert users can operate the machine adeptly and safely.

### **Comfort**

The even distribution of weight on the shoulders, the cushioned back support, padded straps, ergonomic control grip and antivibration system with 4 steel springs, all contribute to a more pleasurable working experience.

### **Simple use and maintenance**

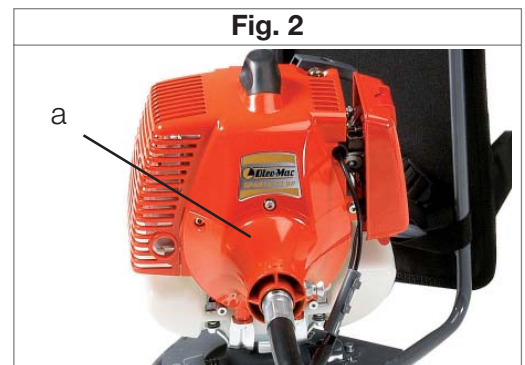
Digital coil for easy starting, handgrip incorporating all the controls, snap-fit filter cover and transmission with flexible sheath and shaft which are removable without the need for tools.

## PERFORMANCE AND ENGINEERING SOLUTIONS

- **Professional 2-stroke engine** with capacitive electronic ignition: guarantees high performance, easy starting and long-term durability.
- **2-ring piston with nickel-plated cylinder:** for consistent long-term efficiency, even in the case of prolonged use in tough operating conditions (Fig 1).



- **Aluminium housing,** resistant to high operating stresses (Fig 2 a).

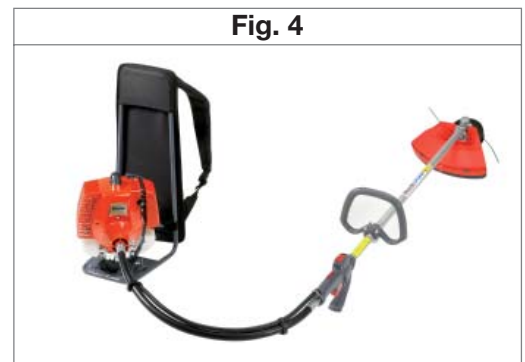


- **Digital coil with electronic control:** for effortless starting and improved performance, in addition to uniform combustion and low fuel consumption.

- **0.87L fuel tank capacity:** this, together with the engine's reduced fuel consumption, extends the operating time to over 1 hour between refuelling stops.



- **Cloth air filter edged with elastomer moulding:** for more effective filtration, especially in dust-laden environments, as well as easier maintenance (Fig. 3).



- **Transmission** comprising flexible elements (sheath and shaft) and a Ø 26 mm aluminium tube with Ø 7 mm **steel rod**, supported by 5 rubber antivibration mounts: gives high resistance to stresses, reducing vibration (Fig. 4).

## EASE OF USE

- **Digital coil (Fig. 5):** ignition advance with variable timing optimises initial firing and combustion, making the machine easier to start.

- **Primer** (Fig. 6a) exposed to view on engine cowling, affording improved access and easier operation.

- **Transparent fuel tank** (Fig. 6 b) for instant fuel level monitoring.

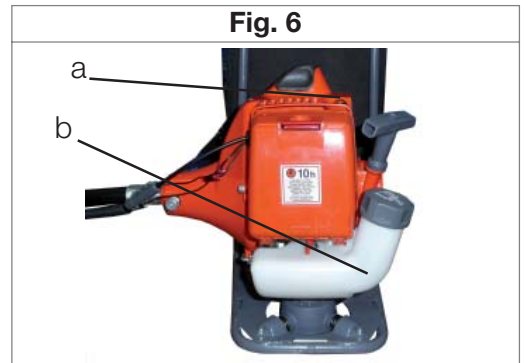
- **Quick-fit** flexible joint system simplifies assembly operations (Fig. 7a).

- **Transmission can be separated into two parts** for convenient transport and storage (Fig. 8).

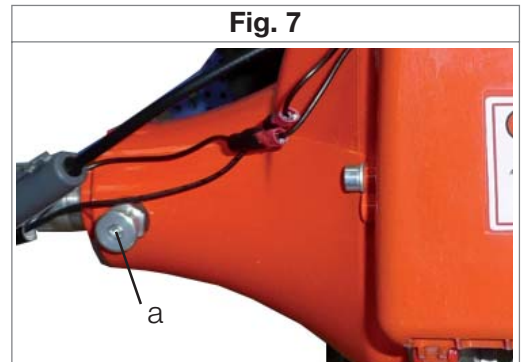
**Fig. 5**



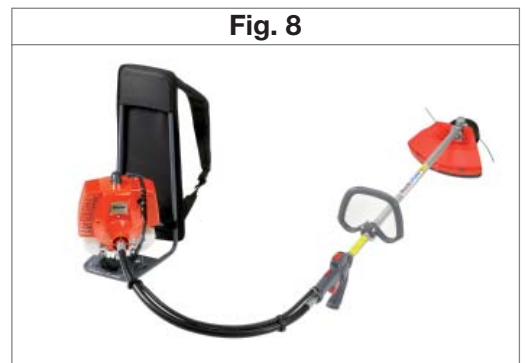
**Fig. 6**



**Fig. 7**



**Fig. 8**



## COMFORT

- **Special antivibration system with 4 steel springs (Fig. 9):** isolates the engine, minimising the transmission of vibration to the body so that operators can work longer hours without fatigue.

- **Transmission** comprising flexible elements (sheath and shaft) and a  $\varnothing$  26 mm aluminium tube with  $\varnothing$  7 mm **steel rod**, supported by **5 rubber antivibration mounts**: gives high resistance to stresses, reducing vibration (Fig. 10).

- **Padded backpack frame** and **straps** for maximum comfort during use (Fig. 11).

- **Ergonomic operating handle:** all controls grouped together for easy access (Fig. 12).

Fig. 9

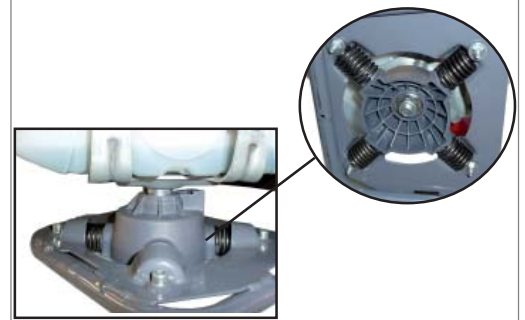


Fig. 10



Fig. 11



Fig. 12



## EASE OF MAINTENANCE

- **Generously proportioned cloth air filter edged with elastomer moulding** (Fig. 13): longer intervals between cleaning operations.

Fig. 13



- **Filter cover removable without tools** (Fig.14) simply by pressing a release catch: air filter easier to inspect and clean.

Fig. 14



- **Independent engine housing and cover** (Fig. 15-16) which can be removed by unscrewing the relative screws: sectional arrangement allows fast access to specific areas for servicing purposes.

Fig. 15



Fig. 16





our power, your passion

## TECHNICAL SPECIFICATIONS

MODEL		SPARTA 42 BP	
<b>ENGINE</b>			
TYPE		Emak 2-stroke (EURO I / EPA I)	
DISPLACEMENT	cm <sup>3</sup>	40,2	
BORE x STROKE	mm x mm	40 x 30	
MAXIMUM POWER OUTPUT	HP/kW (rpm)	2.1 / 1.6 (7500)	
MAXIMUM TORQUE	Nm (rpm)	2.08 (5500)	
IDLING SPEED	rpm	2800	
MAXIMUM NO LOAD SPEED	rpm	11700	
HOURLY FUEL CONSUMPTION (at max power output)	g/h (rpm)	750 (7500)	
<b>IGNITION SYSTEM</b>			
TYPE		Capacitive electronic	
SPARK PLUG		Champion RCJ7Y or NGK CMR7H	
<b>FUEL &amp; LUBRICATION SYSTEM</b>			
CARBURETTOR		ZAMA diaphragm type	
FUEL		4% (25:1) mix - with Efcó PROSINT oil 2% (50:1)	
FUEL TANK CAPACITY	l	0,87	
AIR FILTER		Cloth	
PRIMER		Yes	
<b>TRANSMISSION SYSTEM</b>			
DRIVE TUBE ( Ø )	mm	26 with steel shaft Ø 7	
DRIVE TUBE LENGTH	mm	1485	
BEVEL GEAR PAIR (REDUCTION RATIO)		1.375 : 1	
CLUTCH		Centrifugal (engaging at 4100 rpm)	
<b>SAFETY</b>			
SOUND PRESSURE (LpA EN ISO 11806 - 22868)	dB(A)	Head 100.3	Blade 96.5
SOUND POWER (LwA EN ISO 3744 2000/14/EC 22868)	dB(A)	Head 116	Blade 110
VIBRATION LEVEL ( EN ISO 11806 - 22867 - 12096)	m/s <sup>2</sup>	Head 3.4 lh 2.8 rh	Blade 1.7 lh 2.1 rh
<b>ERGONOMICS</b>			
HARNESS		Backpack frame with padded shoulder straps	
FRONT HANDLE		Loop	
REAR HANDLE		Standard with safety lever	
ANTI-VIBRATION SYSTEM		4 steel springs on the backpack support and 5 bushings on antivibration mounts inside the drive tube	
<b>CUTTING SYSTEM</b>			
CUTTING BLADE		3-tooth blade in special steel Ø 10" / 255 mm, thickness 1.8 mm	
HEAD with nylon line		Tap'n go head Ø 130 M8 x 1.25 left-hand thread, line Ø 3.0 mm	
CUTTING GUARD		Plastic	
<b>WEIGHT (without cutting tools and guard)</b>	kg	9,5	
<b>POWER-TO-WEIGHT RATIO</b>	kg/kW	5,9	



It's an **Emak S.p.A.** trademark Member of the Yama Group  
Via E. Fermi, 4 • 42011 Bagnolo in Piano (Reggio Emilia) Italy  
Tel. +39 0522 956611 • Fax +39 0522 951555  
venditeitalia@oleomac.it • [www.oleomac.it](http://www.oleomac.it)

