

# Product Information

Language	INGLESE
Nr.	258
Date	10/2016
Subject	SPARTA 381 S / T - SPARTA 441 S / T (EURO 2)



our power, your passion

## NEW SPARTA 381 S/T - 441 S/T BRUSHCUTTERS

Mod. SPARTA 381 S



Always On

Easy On

LOAD & GO

Mod. SPARTA 441 T



The new SPARTA 381 S/T - 441 S/T brushcutters are designed to offer high efficiency and unfaltering quality over time, even in the face of heavy and prolonged use.

They are characterized by:

New professional 2-stroke engine, alluminium drive shaft (Ø 28 mm) with steel shaft (Ø 8 mm), 6 flexible bushings, LOAD & GO nylon head, 3 teeth disc cutter. The machine incorporates numerous features and is ideal for tough jobs like cutting thick grass, clearing brushwood, and thinning reed beds. Every detail has been designed with care to render brushcutting duties easy and effortless, even for the inexperienced user, the pluses are:

- High performance, for maximum productivity
- Accuracy of cut, avoiding damage to vegetation around the work area and obtaining best possible results
- Total comfort, with muscle fatigue minimized both when starting the machine and during prolonged use. It allows an ergonomically correct posture for the operator
- Ease of use, allowing even comparative novices to operate the equipment ultra-simply and in complete safety.
- Low fuel consumption and low emissions, for minimal environmental impact
- Easy maintenance for quick machine check-up and intervention.

## PERFORMANCE AND ENGINEERING SOLUTIONS

- **Piston with 2 rings, chrome-plated cylinder**, forged con rod and crankshaft (Fig. 1): guaranteeing an extremely rugged and durable engine.

- **High torque** at all crankshaft speeds: effective cutting and unfailingly steady work rate, even on particularly dense vegetation.

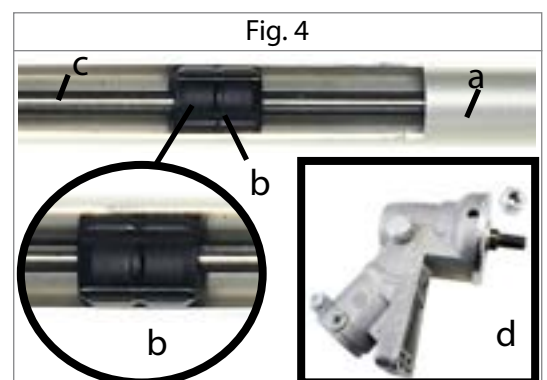
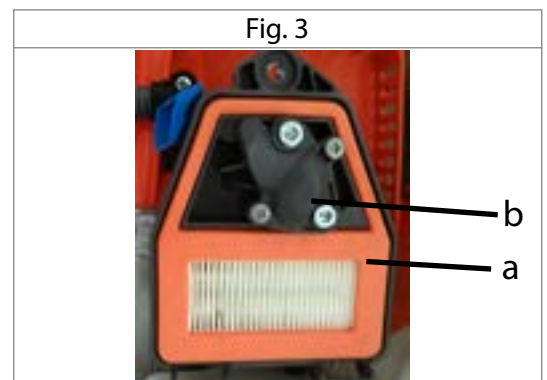
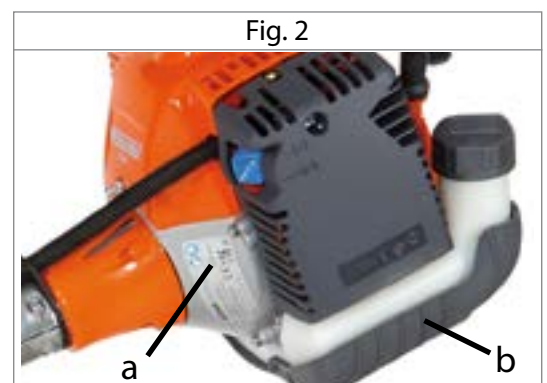
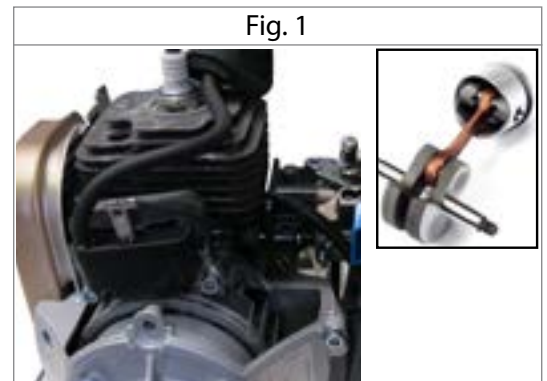
- For a longer working life the machine is fitted with an **magnesium clutch housing** (fig 2a), resists heavy operating conditions, along with the lower support (Fig 2b) to protect against accidental damage.

- **Digital coil with electronic control**: ensures effortless starting and improves performance, always guaranteeing uniform combustion and low fuel consumption.

- **Generously sized paper air filter**: guarantees high filtration efficiency and easy maintenance (Fig. 3a).

- **Filter support (Emak patent) with anti-backflow element** (Fig. 3b), (prevents the filter from becoming fouled by fuel) for longer operation between filter maintenance procedures.

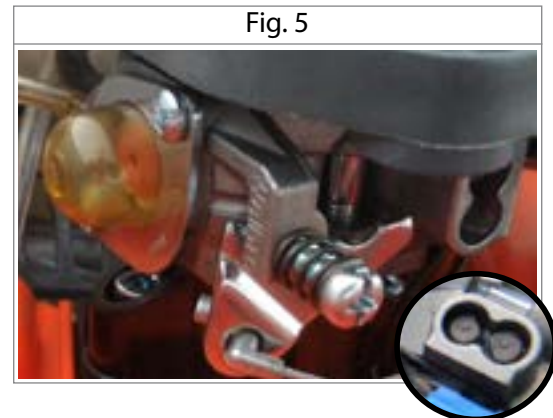
- **Ø 28 mm aluminium drive tube** (Fig. 4a), with 6 self-lubricating antivibration bearings (Fig. 4b), **8 mm internal rigid shaft** (Fig. 4c) and **aluminium bevel gear pair with M 10 male drive pin** (Fig. 4d), for unimpeded power transmission.



## EASE OF USE

- **Air purge primer** (Fig. 5) visible on the carburetor ensures easier access and operation.

- **Walbro carburetor** ensures specific mix of fuels, with the option to be adjusted to the user's needs (Fig 5) with D-style screwdriver.



- **"Easy on" device** (Fig. 6a) 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.

- **Dual grip filler cap** (side and top) and **vertical filler neck** (Fig. 6b) designed for ease of refuelling.



- **Innovative 130 mm Ø "LOAD & GO"** with 3,0 mm line head (Fig. 7): for straightforward line replacement - just 20 seconds to rewind the line and resume work.

- **Steel disc cutter with 3 teeth** Ø 10" / 255 mm, thickness 1,8 mm (standard only "T" version)

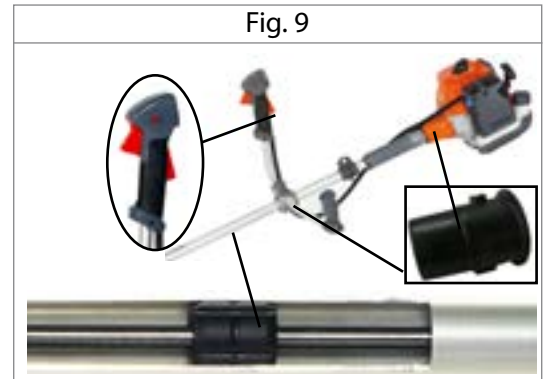


- Several **optional accessories** are available for the various versions (identified by the outer diameter of the shaft arm) to allow different kinds of uses, according to the particular application (Fig. 8).



## COMFORT

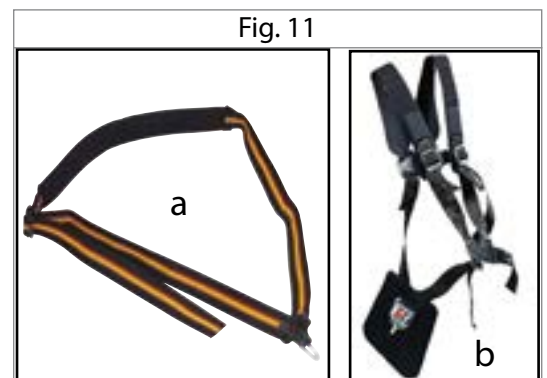
- **Built-in antivibration system:** greatly reduced vibrations felt by the operator during use of the tool (Fig. 9).
- **Ergonomic handle** (Fig. 10): aluminium with moulded rubber grips. The operator always has a firm and comfortable grip on the machine.



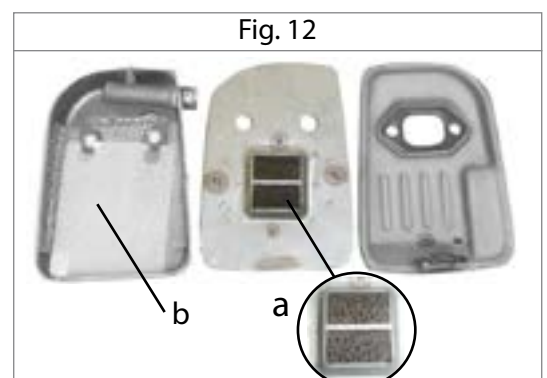
- **The on/off switch** (Fig. 10a) returns automatically to the “on” position after each stop (always on).



- **Single harness for “S” version** (Fig 11a), **double harness for “T” version** (Fig 11b), ergonomically contoured: designed to facilitate operations even on slopes and slippery surfaces.



- **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

- **Generously proportioned paper filter element** (Fig. 13): ensures longer intervals between cleaning operations.

Fig. 13



- **Filter cover accessible with tools** by means of specific knob (Fig. 14a): facilitates air filter inspection and cleaning.

Fig. 14



- **A new filtering grid** (Fig 15) has been equipped to keep off grass and dust from the engine ventilation area, together with a new modified crancck-case to better ensure an adequate system cooling while running the unit.

Fig. 15



- **Muffler guard** (Fig. 16) independent of engine cover, removable by undoing screws: sectional arrangement allows fast access to specific areas for servicing purposes.

Fig. 16





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## TECHNICAL SPECIFICATIONS

MODEL	SPARTA 381 S		SPARTA 381 T		SPARTA 441 S		SPARTA 441 T	
<b>ENGINE</b>								
TYPE		Emak 2-stroke / EURO 2 (with Catalyst)						
DISPLACEMENT	cm <sup>3</sup>	36,27				40,2		
BORE x STROKE	mm x mm	38 x 32				40 x 32		
MAXIMUM POWER OUTPUT	HP/kW (rpm)	1,8 / 1,3 (7500)				2,1 / 1,6 (7500)		
MAXIMUM TORQUE	Nm (rpm)	1,86 (5500)				2,08 (5500)		
IDLING SPEED	rpm	2800						
MAXIMUM NO LOAD SPEED	rpm	10700				11700		
HOURLY FUEL CONSUMPTION (at max power output)	g/h (rpm)	750 - 780 (7500)						
<b>IGNITION SYSTEM</b>								
TYPE		Digital						
COIL		Walbro						
SPARK PLUG		CMR7A						
<b>SISTEMA DI ALIMENTAZIONE E LUBRIFICAZIONE</b>								
CARBURATORE A membrana		Walbro						
CAPACITÀ SERBATOIO CARBURANTE	l	0,75						
FILTRO ARIA		Paper + anti-backflow element						
PRIMER		Yes						
<b>TRANSMISSION SYSTEM</b>								
DRIVE SHAFT ( Ø ) "Outer / Inner"	mm	28 (with steel shaft Ø 8 mm)						
ROD LENGTH	mm	1500						
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)	with disc 96,1			with disc 97,3			
		with nylon head 98,1			with nylon head 99,3			
SOUND POWER (Lwa 2000/14/EC - EN 22868 - EN ISO 3744)	dB(A)	with disc 110			with disc 112			
		with nylon head 113			with nylon head 114			
VIBRATION LEVEL ( EN 11806 - EN 22868 - EN 12096 )	m/s <sup>2</sup>	with disc 6,1 SX - 7,2 DX		with disc 5,8 SX- 6,6 DX		with disc 6,1 SX - 7,2 DX		with disc 5,8 SX- 6,6 DX
		with nylon head 6,8 SX - 5,9 DX		with nylon head 6,3 SX - 7,5 DX		with nylon head 6,8 SX - 5,9 DX		with nylon head 6,3 SX - 7,5 DX
<b>ERGONOMICS</b>								
HARNESS		Single		Double		Single		Double
FRONT HANDLE		ERGONOMIC Loop		ERGONOMIC Handlebar		ERGONOMIC Loop		ERGONOMIC Handlebar
REAR HANDLE		Standard with throttle trigger lockout		Ergonomic with moulded rubber grips		Standard with throttle trigger lockout		Ergonomic with moulded rubber grips
ON / OFF SWITCH		A button (always on)						
ANTI-VIBRATION SYSTEM		7 self lubricating brass and rubber bushings in drive shaft. + 1 rubber in the clutch housing to shaft.		7 self lubricating brass and rubber bushings in drive shaft. 1 rubber in the clutch housing to shaft. between handle-bar and tube.		7 self lubricating brass and rubber bushings in drive shaft. + 1 rubber in the clutch housing to shaft.		7 self lubricating brass and rubber bushings in drive shaft. 1 rubber in the clutch housing to shaft. between handle-bar and tube.
<b>CUTTING SYSTEM</b>								
CUTTING DISC with 3 teeth Ø 10" / 255 mm, thickness 1,8 mm		OPTIONAL		STANDARD		OPTIONAL		STANDARD
STANDARD NYLON STRINGHEAD		Load & Go Ø 130 mm with Ø 3.0 mm nylon line						
CUTTING GUARD - CUTTING WIDTH (with stringhead)	mm	Plastic (390)						
WEIGHT (Without cutting tools)	kg	7,2		7,9		7,3		8
POWER-TO-WEIGHT RATIO	kg / kW	5,5		6,1		4,6		5,0



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

