

# Product Information

Language	INGLESE
Nr.	147
Date	6/2009
Subject	SPARTA 380 S - 380 T



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

## NEW SPARTA 380 S - 380 T BRUSHCUTTER

**Mod. SPARTA 380 S**



**Mod. SPARTA 380 T**

The new Sparta 380 brushcutter is designed to offer high efficiency and unfaltering quality over time, even in the face of heavy and prolonged use. The new professional 2-stroke engine, alluminium drive shaft (Ø 28 mm) with steel shaft (Ø 8 mm), 6 flexible bushings, 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

- **Professional** 2-stroke **engine** with capacitive electronic ignition: guarantees high performance, easy starting, long life, and compliance with EURO 2 standards.

- **Piston** with **2 rings**, and **nickel-plated cylinder**: constant efficiency assured over time, even in tough operating conditions (Fig. 1).

- **0.87** litre **fuel tank capacity**, together with low specific fuel consumption, extends the intervals between refuelling stops (over 1 hour).

- **Cloth air filter** element edged with elastomer: guaranteed more effective, especially in dust-laden environments, and simplifies maintenance (Fig. 2).

- **Ø 28 mm transmission** with **8 mm steel shaft** carried in **6 flexible bushings** ensures strong resistance to stresses, reducing vibrations (Fig. 3).

- **Flywheel** designed to guarantee smoother operation of engine and better cooling even in adverse weather conditions (high temperatures).

- For extended working life the machine features a high strength **aluminium shroud** (Fig. 4), that is ideal for heavy duty working conditions.

Fig. 1

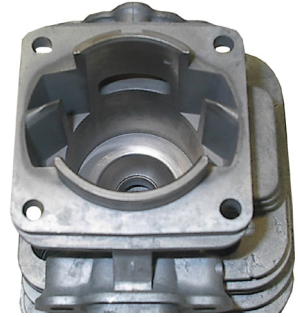


Fig. 2

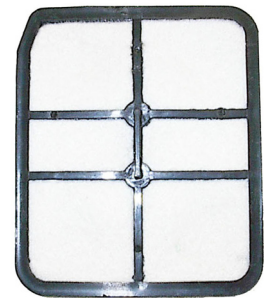


Fig. 3



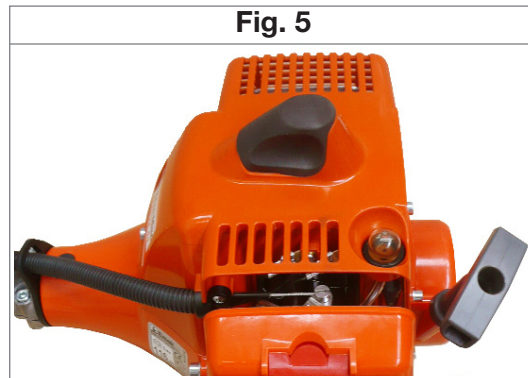
Fig. 4



## EASE OF USE

- **“Primer”** ensures easy starting from cold, after refuelling, or following lengthy idle periods (Fig. 5 ).

Fig. 5



- **Shaped tube** protects the spark plug from impact and prevents the escape of cooling air, improving its effectiveness (Fig. 6)

Fig. 6



- **Handgrip** with **palm-operated** safety switch: ensures the trigger cannot be activated accidentally (Fig. 7).

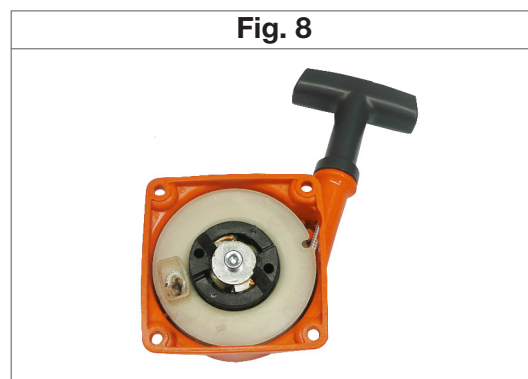
Fig. 7



- **Throttle trigger, palm-operated safety switch** and **on/off lockout switch** all incorporated into the grip, immediately to hand (Fig. 7).

- **Front-coupled starting system** designed to avoid kickback when starting the machine (Fig. 8).

Fig. 8



## COMFORT

- Pull-start handle of **new design** minimizes effort and discomfort when starting the machine (Fig. 9).



- **“Primer”** positioned on engine cowling rather than beneath the carburettor, for improved access and easier operation (Fig. 10).



- **Exhaust pipe** designed to carry hot gases toward the rear of the machine, eliminating any possibility of bodily contact with operator.



- **Engine completely isolated from shaft** by anti-vibration mounts: reduction of vibration through the machine.

- **Double harness**, ergonomically contoured: designed to facilitate operations even on slopes and slippery surfaces (Fig. 11).



- **Sound-insulated exhaust silencer 2 stroke Emak EURO 2** (with catalyst): noise emissions significantly reduced (Fig. 12).

## EASE OF MAINTENANCE

- **One-piece engine and silencer cowlings:** inspection made easy with only 3 screws to undo (Fig. 13).

Fig. 13



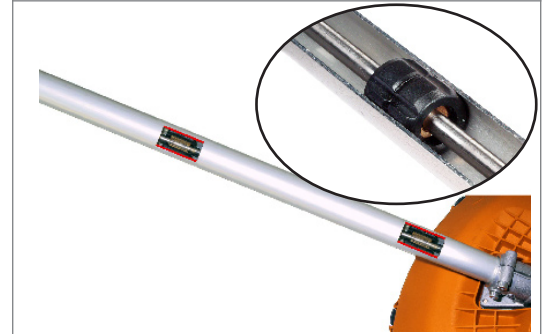
- **Snap-fit filter cover:** no tools required for inspection and replacement of filter element (Fig. 14).

Fig. 14



- **Ø 28 mm transmission** with **8 mm steel shaft** carried in **6 flexible bushings** ensures strong resistance to stresses, reducing the time and frequency of maintenance (Fig. 15).

Fig. 15



- **Bevel gear with M10 male shaft** (Fig. 16), improving the robustness of the transmission even in the toughest working condition.

Fig.16



# TECHNICAL SPECIFICATIONS

MODEL	OM	SPARTA 380 S	SPARTA 380 T
ENGINE			
TYPE		2 stroke Emak EURO 2 (with catalyst)	
DISPLACEMENT	cm³	36.2	
BORE x STROKE	mm x mm	38 x 32	
MAX POWER	HP/kW (rpm)	1.8 / 1.3 (7500)	
MAX TORQUE	Nm (rpm)	1.86 (5500)	
IDLE RPM	rpm	2800	
MAX RPM AT NO LOAD	rpm	10500 / 10700	
FUEL CONSUMPTION (max power)	g/h (rpm)	750/780 (7500)	
IGNITION SYSTEM			
TYPE		Capacitive electronic	
SPARK PLUG		Champion RCJ7Y o NGK CMR 7H	
FUEL AND LUBRICATION SYSTEM			
CARBURETTOR		WALBRO	
FUEL		Mix 4% (25:1) - with PROSINT 2% (50:1)	
FUEL TANK CAPACITY	l	0.87	
AIR FILTER		Cloth	
PRIMER		Yes	
TRANSMISSION SYSTEM			
DRIVE SHAFT ( Ø )	mm	28 with steel shaft Ø 8	
ROD LENGTH	mm	1500	
BEVEL GEAR PAIR (TRANSMISSION RATIO)		1.375 : 1	
CLUTCH		Centrifugal (4100 rpm clutch engagement)	
SAFETY			
NOISE PRESSURE(LpA av EN11806 - EN 22868)	dB(A)	Disc 98 - Head 100	Disc 97 - Head 99
NOISE POWER(LwA 2000/14/EC EN 22898 EN ISO 3744)	dB(A)	Disc 110 - Head 116	Disc 109 - Head 115
VIBRATION LEVEL(EN 11806 EN 22867 EN 12096)	m/s²	Disc 6.0 sx 5.5 dx - Head 5.7 sx 6.2 dx	Disc 5.1 sx 5.8 dx - Head 3.7 sx 5.4 dx
ERGONOMICS			
HARNESS		Single and ergonomic	Double and ergonomic
FRONT HANDLE		Loop	Handlebar
REAR HANDLE		Standard with safety switch	-
ANTI-VIBRATION SYSTEM		On the transmission tube	
CUTTING SYSTEM			
DISC CUTTER		Steel disc cutter with 3 teeth Ø 10" / 255 mm, thickness1.8 mm	
HEAD with nylon line		Tap's and go head Ø 130 M10 female x 1.25sx, line Ø 2.4 mm	
CUTTING GUARD		In plastic	
WEIGHT (Without cutters and guard)	kg	6.8	7.3
WEIGHT POWER RATIO	kg/kW	5.2	5.6





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](mailto:venditeitalia@oleomac.it) • [www.oleomac.it](http://www.oleomac.it)

