

Product Information

Language	INGLESE
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Subject	K500, K600, K700, K 800 (OHV)



our power, your passion

NEW EMAK 4 STROKE ENGINES K500, K600, K700, K 800 (OHV)



Mod. K 500 - K 600



Mod. K 700 - K 800

The new 4-stroke engines, with displacements from **140 to 196 cc**, are designed for the toughest of applications and guaranteed to deliver dependable long-term quality.

Emak K 500, K 600 (140 cc), K 700 and K 800 (196 cc) engines are all characterized by:

- Overhead valve design (OHV), with inlet and exhaust valves positioned directly above the combustion chamber.
- cast iron cylinder liner
- piston with two rings (and wiper seal).
- exclusive new engine cover design

These engines are compliant with the limits imposed by current emission regulations in respect of side-valve **engines delivering similar levels of performance:**

- **EXTRA TORQUE**
- **LOWER FUEL CONSUMPTION**
- **LONGER SERVICE LIFE**
- **LOWER EMISSIONS**
- **LOWER OIL CONSUMPTION**
- **REDUCTION OF NOISE LEVELS AND NOTICEABLE VIBRATIONS**

PERFORMANCE AND ENGINEERING SOLUTIONS

Compared to 4-stroke side valve engines of similar displacement, **EMAK engines** incorporating **overhead valve** design are characterized by **higher power** and **higher torque**.

- **The OHV layout** enables a more uniform flow of fuel into the combustion chamber, as well as favouring a faster and more thorough release of exhaust gases. All these advantages combine to give better fuel economy and, with fewer stops for refuelling: higher productivity.

Constructional design of engines with:

- Overhead valves (fig.1)
- Side valves (fig.2)

- With **lower fuel consumption**, the **engine can keep running** for at least **30%** longer (fig.3) before refuelling, compared to a side-valve engine with similar performance specifications.

- And with a **more even burn**, consequently, it becomes possible to adopt a higher compression ratio, achieving improved levels of combustion efficiency and avoiding the effects of carbon concentration. In short, the emissions from an overhead valve engine are decidedly lower than those of a side-valve type.

For example, **Emak K 700** - 196 cc - HC + NOx 10.2 g/kWh

- The **distribution geometry** and **balanced crankshaft** reduce engine vibration and noise.

- And the **overhead valve design** also **guarantees excellent thermal equilibrium**, which helps to minimize cylinder deformation, reduce the amount of oil consumed and prolong the useful life of the engine (fig.4).

Fig. 1

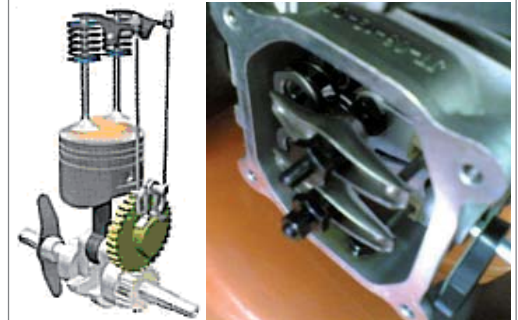


Fig. 2

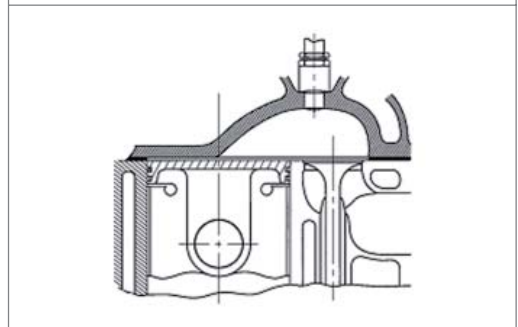


Fig. 3

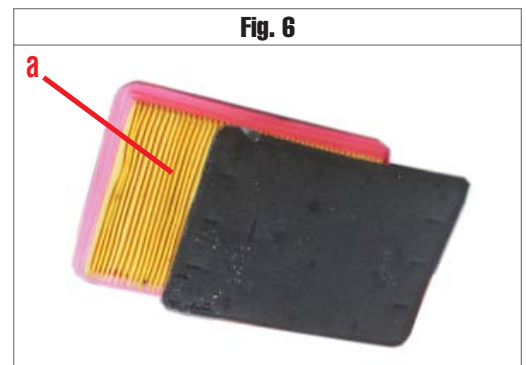
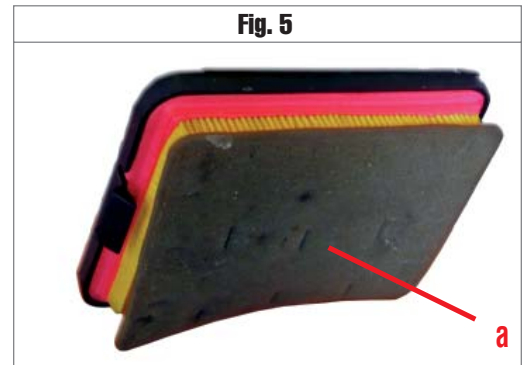


Fig. 4



EASE OF USE AND MAINTENANCE

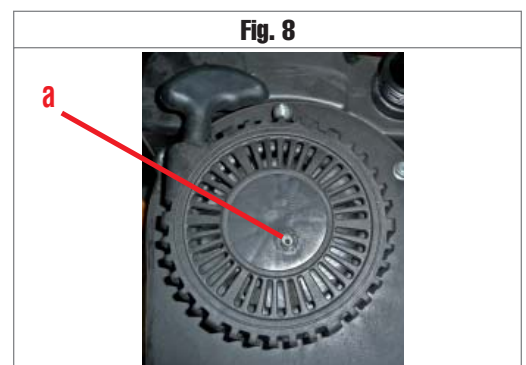
- **A dual filter system**, using one foam element (fig.5a) combined with a larger paper element (fig.6a), provides the engine with maximum protection against airborne contaminants to guarantee unwavering long-term performance.



- **The filter cover, snap-fitting** (fig.7a), guarantees quick and simple inspection of the filter elements, with no tools required.



- The **new one-piece engine cover** (Fig.7b) is secured to the engine using only 3 screws, simplifying maintenance checks.



- The **pull-start mechanism** ensures that **less effort** is needed to **set the engine running**.



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TECHNICAL SPECIFICATIONS

MODEL		EMAK K500	EMAK K600
Type		4-stroke, OHV, Air-cooled	
Displacement	cc	140	
Bore x Stroke	mm	61 × 48	
Compression ratio		8:01	
Ignition system		Digital electronic	
Fuel consumption	g/kW·h	395	
Oil consumption	g/kW·h	6.8	
Fuel tank capacity	l	1	
Oil reservoir capacity	l	0.55	
Lubrication system		splash	
Air filter		Dual element - paper and foam	
Overall dimensions / excluding shaft (LxWxH)	mm	395 x 335 x 340	
Dry weight	kg	12	

MODEL		EMAK K700	EMAK K800
Type		4-stroke, OHV, Air-cooled	
Displacement	cc	196	
Bore x Stroke	mm	70 × 51	
Compression ratio		8:01	
Ignition system		Digital electronic	
Fuel consumption	g/kW·h	395	
Oil consumption	g/kW·h	6.8	
Fuel tank capacity	l	1,5	
Oil reservoir capacity	l	0.6	
Lubrication system		splash	
Air filter		Dual element - paper and foam	
Overall dimensions / excluding shaft (LxWxH)	mm	411 × 355 × 345	
Dry weight	kg	13	



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