



STIHL

THE FIRST CHAINSAW OF THE FUTURE

THE STIHL MS 500i CHAINSAW

THE FIRST CHAINSAW IN THE
WORLD TO FEATURE ELECTRONICALLY
CONTROLLED FUEL INJECTION



YOUR ENGINE IS IGNITING A NEW ERA.

THE STIHL MS 500i
CHAINSAW



The STIHL MS 500i is the first chainsaw in the world to feature electronically controlled fuel injection, making it a true innovation. When it comes to professionally harvesting large trees, this high-torque machine can be guided through wood with ease. Rapid acceleration and dynamic pivot behaviour mean that the MS 500i is perfect not only for felling and cutting into lengths, but also pruning. With sensor-controlled fuel metering it is an excellent starter with outstanding engine performance, regardless of the height and ambient temperature. There's also no starting lever, which makes starting very easy under all conditions. Its engine technology, which is revolutionary for chainsaws, and resulting intelligent lightweight construction results in the best power-to-weight ratio on the market: a unique 1.24 kg/kW.





REVOLUTIONARY INJECTION TECHNOLOGY

**i FOR INJECTION.
i FOR INNOVATION.**

1 OPTIMUM ENGINE PERFORMANCE FROM THE FIRST ROTATION UNDER ALL CONDITIONS

In addition to its external temperature sensor, the MS 500i also has a **pressure and temperature sensor** on the engine. This measures the environmental pressure on start-up, and during operation it checks the engine temperature and the pressure in the crankcase. The electrical voltage generator provides the required

speed information. The control unit processes these values, meaning that the system adapts to the usage conditions. The fuel is then dispensed at the optimum level, quickly resulting in perfect running characteristics.

2 LOWER WEIGHT MEANS MORE ERGONOMIC WORKING

Thanks to an intelligent lightweight design, implemented flawlessly, the MS 500i has a displacement of just 79.2 cm³ and is the lightest in its class. Its **flywheel** features reduced design height and low weight. Lower gyroscopic forces makes the machine easier to pivot, making pruning more straightforward.



The STIHL injection technology enables the MS 500i to achieve extremely high performance with extraordinarily low displacement and weight - perfection in intelligent lightweight structure.



3 THE BEST POSSIBLE ORIENTATION FOR PLUNGE CUTS

In addition to the felling guide, the air fan housing is equipped with a **raised, imprinted plunge guide** that runs parallel to the symmetrical line in the guide bar. This is a perfect tool for monitoring the cut direction when making plunge cuts.

4 INTUITIVE OPERATION

The machine can be quickly and easily switched off using the **stop button**.

5 VERY EASY TO START, WHETHER COLD OR WARM STARTING

No need for a start position, and easy access to the **purger** mean a perfect starting process.

6 EASIER MAINTENANCE

No tools are required to remove the **filter cover**. This makes it easier to maintain the air filter as it can be effortlessly accessed and removed.



FROM 0 TO POWER.

— ONE MACHINE - MANY ADVANTAGES

- With its innovative technology, the MS 500i achieves **rapid acceleration** from 0 to 100 km/h^① in an **unbelievable 0.25 seconds**, enabling this high-torque machine to provide power immediately.
- Its intelligent lightweight construction promotes **effortless, ergonomic working**. Its **optimised design** - with a lightweight sprocket cover, more compact engine unit, flywheel with a low design height, and a reduced-weight crankshaft adapted to the weight of the flywheel - makes work significantly more comfortable.
- Its high engine power, dynamic pivot behaviour enabled by the small and lightweight flywheel, and extraordinary acceleration enable you to make **quick progress** with your work. And so does the machine's perfectly balanced design.
- The chainsaw's low total weight, paired with good pivot behaviour, results in optimal guidance when pruning. The geometry of the bumper spikes provides additional support in this respect.
- The **captive nuts** are individually connected to the sprocket cover so that they don't get lost in the process of replacing the cutting attachments.

① Chain speed

PRODUCT FEATURES STIHL MS 500i

- STIHL Injection
- Controlled-delivery oil pump
- Side-mounted chain tensioning
- Decompression valve
- STIHL ElastoStart
- HD2 filter
- STIHL anti-vibration system
- Tool-free fuel cap
- Captive nuts

EQUIPMENT VERSION STIHL MS 500i W

The MS 500i is also available in a version with heated handles. If needed, no-maintenance, wear-free heating strips can be added to the front and rear handles to keep your hands warm and dry, your grip strong, and use of the machine safe in winter..

	MS 500i	MS 500i W
Displacement (cm ³)	79,2	79,2
Power output (kW/hp)	5,0/6,8	5,0/6,8
Weight (kg) ^①	6,2	6,3
Power-to-weight ratio (kg/kW)	1,24	1,26
Sound pressure level ^② (dB(A))	106	106
Sound power level ^② (dB(A))	119	119
Vibration level ^③ left/right (m/s ²)	4,2/4,0 m	4,2/4,0
Volume of fuel tank / chain oil (cm ³)	780/325	780/325
STIHL Oilomatic saw chain		
pitch	$\frac{3}{8}$ "	$\frac{3}{8}$ "
Type	RS ^④	RS ^④
ES Light lightweight guide bar (bar length, cm) ^④	50/63/71	50/63/71
^① Excluding fuel, guide bar or saw chain ^② K factor according to Dir. 2006/42/EC = 2.0 dB(A) ^③ K factor according to Dir 2006/42/EC = 2 m/s ²	^④ Depending on the type of chainsaw the actual bar length may be shorter than the bar length indicated ^④ RS: Rapid Super	



STIHL Injection technology

Sensors measure air pressure and internal and external temperature, and pass information on to the control unit. This can use the identified values to determine the optimum fuel quantity and ignition timing. As a result, fuel dosing is assured through the opening and closing of the valve.

PEAK QUALITY PRODUCED IN-HOUSE

ORIGINAL STIHL SAW CHAINS

- **An optimal combination:** Alongside its powerheads, STIHL develops and produces its own saw chains and guide bars. This means that the three components are always guaranteed to match beautifully.
- **Unique production quality:** Our saw chains are manufactured with Swiss precision in our STIHL factory in Wil, Switzerland. They are made using special machines that have also been developed and manufactured by STIHL.



ORIGINAL STIHL ACCESSORIES

- **Lubricants:** Our fuels and lubricants, precisely attuned to the requirements of your tools, are developed in-house.
- **Tools:** We offer a comprehensive range of tools and accessories for all your daily work needs.
- **Personal protective equipment:** Our wide selection of comfortable protective clothing meets our high STIHL quality standards, without exception.

Do you have any questions? Your local STIHL authorised dealer will be happy to answer any questions you may have on products and accessories.

FOR FURTHER INFORMATION AND ADVICE:

WWW.STIHL.COM

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