

PRODUCT INFORMATION

NO. 108
DATE 12 - 2007

SUBJECT GS 720 - GS 820

NEW GS 720 - GS 820 CHAINSAWS



The new **GS 720** and **GS 820** chainsaws are powerful professional machines, designed for felling and cutting up trees of appreciable size into planks and boards.

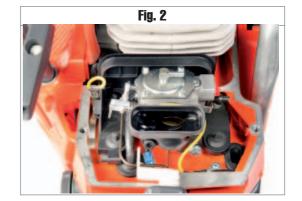
Numerous leading edge solutions - new cylinder and piston geometry, carburettor isolated from the crankcase by a bracket with 4 anti-vibration mounts, digital coil with rpm limiter, metal crankcase (GS 720 Magnesium, GS 820 Aluminium), anti-vibration system with springs and rubber stops - ensuring:

- **High performance** under all operating conditions.
- Long-term reliability and strength.
- Ease of use and comfort guaranteed to minimize muscle fatigue after long hours at work.
- Ease of maintenance for simplified cleaning and routine servicing.

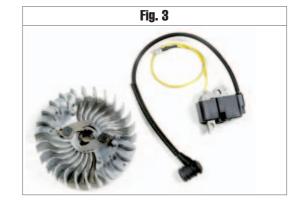


1 - PERFORMANCE AND ENGINEERING SOLUTIONS

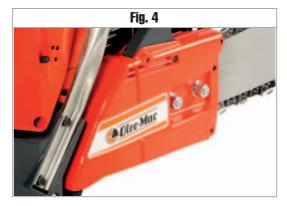
- Professional grade 2-stroke engine of 70.8 80.7 cm³ displacement (fig. 1): 3-piece forged steel crankshaft, machined and balanced, diamond-machined aluminium piston with 2 rings, forged connecting rod, 2 roller bearings, metal crankcase, all guaranteeing high performance, mechanical strength and long-term durability.
- Fig. 1
- Starter housing of new design with large air intake slots: ensures increased air flow and consequently optimum engine cooling.
- Carburettor bracket with 4 anti-vibration mounts: guarantees stable fuel burn under all operating conditions, and longer life of carburettor (fig. 2).



• Digital coil with variable ignition advance and rpm limiter (fig. 3), and flywheel with new fin geometry: engine guaranteed to run more smoothly with cooling rendered more efficient, at whatever speed, even in difficult climatic conditions (high temperatures).



• Magnesium chain guard: ensures optimum protection of chain brake and clutch, maximum strength combined with minimal weight (fig. 4).

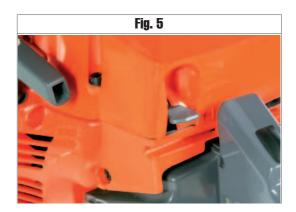


• Fuel tank of new design: whatever the position in space during operation, the fuel filter will always be ideally positioned to give a steady fuel burn.



2 - EASE OF USE

• On/off switch, choke and half-throttle control incorporated into a single multifunction lever: guaranteed practical and simple to use (fig. 5).



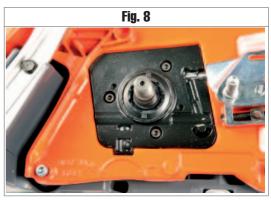
• "Decompressor" valve (fig. 6): when activated, reduces pressure in the combustion chamber to ensure the engine will start easily, even from cold.



• "Ice device" (fig. 7): ensures the machine can operate without difficulty even at low temperatures (below 0 °C), avoiding the formation of ice on the air filter.



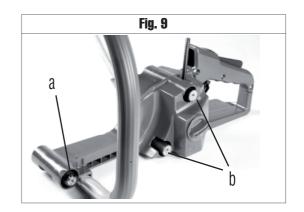
• Chain lubrication oil pump (metal) with adjustable flow rate: facilitates the task of the operator by allowing variation of the oil feed to suit the workload on the machine and the type of wood (fig. 8).



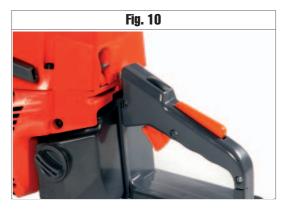


3 - COMFORT

• Anti-vibration system using 6 mounts, comprising 2 spring dampers (fig. 9a) and 4 rubber stops (fig. 9b) located between the handle and the crankcase: with hands and body completely isolated from machine vibrations, the operator benefits through increased comfort.



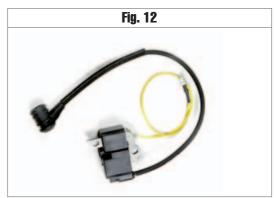
• Ergonomic controls: all functions of the machine are easily reachable with just one hand (fig. 10), so that the operator can work confidently without ever letting go of the handle.



• Front handle made of aluminium (fig. 11), covered in soft rubber: ensures a firm, anatomically correct and comfortable grip.



• **Digital coil** with **variable ignition advance**: easy starting guaranteed, even at low revolutions (fig. 12).

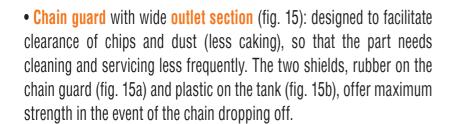


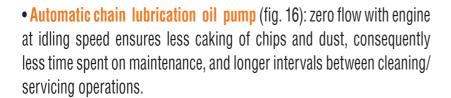


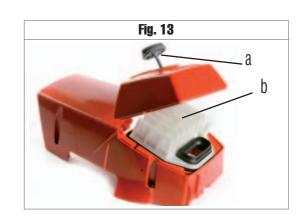
4 - EASE OF MAINTENANCE

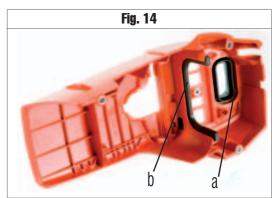
- Filter cover with knob: gives swift access to the filter, the "ice device" and the spark plug recess, with no tools required (easy servicing) (fig. 13a).
- **Nylon filter**, easy to clean: longer interval between one filter servicing operation and the next, thanks to a generously proportioned filtration surface (fig. 13b).

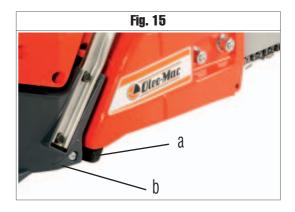
















-TECHNICAL SPECIFICATIONS-

| MODEL | | GS 720 | GS 820 | |
|---|-----------------|---|--|--|
| ENGINE | | | | |
| TYPE | | Emak 2-stroke (EURO I) | | |
| DISPLACEMENT | cm ³ | 70.8 | 80.7 | |
| BORE x STROKE | mm x mm | 50 x 36 | 52 x 38 | |
| MAXIMUM POWER OUTPUT | HP/kW (rpm) | 5.4 / 4.0 (9000) | 6.0 / 4.4 (9000) | |
| MAXIMUM TORQUE | Nm (rpm) | 4.5 (6000) | 5.1 (6000) | |
| IDLING SPEED | rpm | 3000 | | |
| MAXIMUM NO LOAD SPEED with limiter | rpm | 13500 | 12500 | |
| HOURLY FUEL CONSUMPTION (at max power output) | g/h (rpm) | 1770 (9000) | 1950 (9000) | |
| CRANKCASE | | Magnesium | Aluminium | |
| IGNITION SYSTEM | | | | |
| TYPE Capacitive electronic | | | | |
| COIL | | Digital electronic with variable ignition advance and limiter | | |
| LIMITER | rpm | 13500 (+/-200) | 12700 (+/-200) | |
| SPARK PLUG | | NGK BPMR8Y | | |
| ICE DEVICE SYSTEM | | Yes | | |
| DECOMPRESSOR | | Yes | | |
| FUEL & LUBRICATION SYSTEM | | | | |
| CARBURETTOR | | WALBRO |) WJ-121 | |
| AIR FILTER | | Nylon | | |
| FUEL | | Mix 4% with PROSINT oil 2% (50:1) | | |
| FUEL TANK CAPACITY | 1 | 0.80 | | |
| PRIMER | | N° | | |
| TRANSMISSION SYSTEM | | | <u>'</u> | |
| TRANSMISSION | | Spre | ocket | |
| CLUTCH | | 3 parts | | |
| N° SPROCKET TEETH | | 7 | | |
| CHAIN SPEED | m/s | 21 | | |
| TYPE TEST APPROVALS | 11//3 | | .1 | |
| SOUND PRESSURE (LpA av EN 11681-1, EN 22868) | dB(A) | 102 | 101 | |
| SOUND POWER (LwA 2000/14/EC, EN 22868, EN ISO 3744) | dB(A) | 114.6 | 114.3 | |
| VIBRATION LEVEL (EN 11681-1,EN 22867,EN12096) | m/s² | 6.1 (SX) - 6.1 (DX) (with bar/chain 20") | 6.5 (SX) - 6.1 (DX) (with bar/chain 20") | |
| | m/s² | | | |
| UNCERTAINTY (EN 12096) ERGONOMICS | 111/5- | 0.9 (with bar/chain 20") | 1.6 (with bar/chain 20") | |
| | 1 | Dulhhau | | |
| FRONT HANDLE | | Rubber covering Plastic | | |
| REAR HANDLE | | 2 spring dampers and 4 rubber stops | | |
| ANTI-VIBRATION SYSTEM | | 2 spring dampers and 4 rubber stops | | |
| BAR AND CHAIN CUTTING SYSTEM | am (in ah) | 40 51 50 04 70 (10 00 00 05 00) | F1 F0 C4 7C (00 00 0F 00) | |
| BAR LENGTH | cm (inch) | 46-51-58-64-76 (18-20-23-25-30) | 51-58-64-76 (20-23-25-30) | |
| CHAIN PITCH | inch | 3/8 x .058 Inertia-activated | | |
| CHAIN GUARD | | | | |
| CHAIN GUARD | | Magnesium | | |
| CHAIN TENSIONER | | Front | | |
| OIL RESERVOIR CAPACITY | l I | 0.45 | | |
| OIL PUMP | | Metal | | |
| OIL PUMP | | Adjustable | | |
| BUCKING SPIKE | | Ste | eel | |
| TYPE TEST APPROVALS | | | I | |
| WEIGHT (without bar/chain) | kg | 6.8 | 7.1 | |
| POWER-TO-WEIGHT RATIO | kg/kW | 1.7 | 1.6 | |

