

STIHL

STIHL HS 82

Instruction Manual



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- 4 Throttle Trigger
- 5 Handle Lock
- 6 Filter Cover
- 7 Manual Fuel Pump
- 8 Spark Plug Boot
- 9 Front Handle
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- 11 Stop Switch
- 12 Fuel Tank Cap
- 13 Fuel tank
- 14 Muffler
- 15 Fan Housing
- 16 Choke Lever
- 17 Blade Scabbard
- 18 Cutter Guard
- 19 Cutting Blades
- # Serial Number

Specifications

Engine

STIHL single cylinder two-stroke engine

Displacement:	22.7 cc
Bore:	34 mm
Stroke:	25 mm
Engine power to ISO 7293:	0.7 kW (1 bhp) at 8,500 rpm
Idle speed:	2,800 rpm
Cut-off speed:	9,300 rpm

Ignition System

Electronic magneto ignition

Spark plug (resistor type):	NGK CMR6H, BOSCH USR 4 AC
Electrode gap:	0.5 mm

Fuel System

All position diaphragm carburetor with integral fuel pump

Fuel tank capacity:	460 cc (0.46 l)
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Weight

complete with cutting attachment, dry, without blade scabbard

HS 82 T

500 mm blade:	4.9 kg
600 mm blade:	5.1 kg
750 mm blade:	5.3 kg

HS 82 R

600 mm blade:	5.3 kg
750 mm blade:	5.6 kg

HS 82 RC

600 mm blade:	5.3 kg
750 mm blade:	5.7 kg

Cutting blades

Sharpening angle to horizontal:	45°
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Noise and Vibration Data

Noise and vibration data are measured at idling and maximum rated speed in a ratio of 1:4.

For further details on compliance with Vibration Directive 2002/44/EC visit www.stihl.com/vib.

Sound pressure level L_p to ISO 22868

HS 82 T

500 mm blade:	95 dB(A)
600 mm blade:	95 dB(A)
750 mm blade:	95 dB(A)

HS 82 R

600 mm blade:	94 dB(A)
750 mm blade:	94 dB(A)

HS 82 RC

600 mm blade: 94 dB(A)

750 mm blade: 94 dB(A)

Sound power level L_w to ISO 22868**HS 82 T**

500 mm blade: 107 dB(A)

600 mm blade: 107 dB(A)

750 mm blade: 107 dB(A)

HS 82 R

600 mm blade: 107 dB(A)

750 mm blade: 107 dB(A)

HS 82 RC

600 mm blade: 107 dB(A)

750 mm blade: 107 dB(A)

Vibration measurement $a_{hv,eq}$ to ISO 22867 (without tip guard)**HS 82 T**

	Handle, left	Handle, right
500 mm blade:	3.1 m/s ²	2.4 m/s ²
600 mm blade:	2.7 m/s ²	2.1 m/s ²
750 mm blade:	3.6 m/s ²	2.2 m/s ²

HS 82 R

	Handle, left	Handle, right
600 mm blade:	2.7 m/s ²	3.1 m/s ²
750 mm blade:	2.4 m/s ²	2.8 m/s ²

HS 82 RC

	Handle, left	Handle, right
600 mm blade:	2.7 m/s ²	3.1 m/s ²
750 mm blade:	2.4 m/s ²	2.8 m/s ²

Vibration measurement $a_{hv,eq}$ to ISO 22867 (with tip guard)**HS 82 T**

	Handle, left	Handle, right
500 mm blade:	2.7 m/s ²	2.2 m/s ²
600 mm blade:	2.7 m/s ²	2.1 m/s ²
750 mm blade:	3.6 m/s ²	2.1 m/s ²

HS 82 R

	Handle, left	Handle, right
600 mm blade:	2.4 m/s ²	2.6 m/s ²
750 mm blade:	2.6 m/s ²	2.7 m/s ²

HS 82 RC

	Handle, left	Handle, right
600 mm blade:	2.4 m/s ²	2.6 m/s ²
750 mm blade:	2.6 m/s ²	2.7 m/s ²

The K-factor in accordance with Directive 2006/42/EC is 2.0 dB(A) for the sound pressure level and sound power level; the K-factor in accordance with Directive 2006/42/EC is 2.0 m/s² for the vibration level.

REACH

REACH is an EC regulation and stands for the Registration, Evaluation, Authorisation and Restriction of Chemical substances.

For information on compliance with the REACH regulation (EC) No. 1907/2006 see www.stihl.com/reach.

Exhaust Emissions

The CO₂ value measured in the EU type approval procedure is specified at www.stihl.com/co2.

The measured CO₂ value was determined on a representative engine in accordance with a standardized test procedure under laboratory conditions and does not represent either an explicit or implied guarantee of the performance of a specific engine.

The applicable exhaust emission requirements are fulfilled by the intended usage and maintenance described in this instruction manual. The type approval expires if the engine is modified in any way.