

Specifications

Engine

STIHL single cylinder four-stroke engine with mixture lubrication

HT 102, HT 103

Displacement:	31.4 cc
Bore:	40 mm
Stroke:	25 mm
Engine power to ISO 8893:	1.05 kW (1.4 bhp) at 7,000 rpm
Idle speed:	2,800 rpm
Cut-off speed (rated):	9,500 rpm
Valve clearance	
Inlet valve:	0.10 mm
Exhaust valve:	0.10 mm

HT 132, HT 133

Displacement:	36.3 cc
Bore:	43 mm
Stroke:	25 mm
Engine power to ISO 8893:	1.4 kW (1.9 bhp) at 8,500 rpm
Idle speed:	2,800 rpm
Cut-off speed (rated):	9,500 rpm
Valve clearance	
Inlet valve:	0.10 mm
Exhaust valve:	0.10 mm

Ignition System

Electronic magneto ignition

Spark plug (resistor type):	
HT 102, HT 103:	Bosch USR 7 AC
HT 132, HT 133:	NGK CMR 6 H
Electrode gap:	0.5 mm

Fuel System

All position diaphragm carburetor with integral fuel pump

Fuel tank capacity: 710 cc (0.71 l)

Chain Lubrication

Fully automatic, speed-controlled oil pump with rotary piston

Oil tank capacity: 120 cc (0.12 l)

Weight

dry, without bar and chain

HT 102:	5.5 kg
HT 103:	7.2 kg
HT 132:	5.7 kg
HT 133:	7.2 kg

Cutting Attachment

Actual cutting length may be less than the specified length

Rollomatic E Mini guide bars

Cutting length:	25, 30 cm
Pitch:	1/4" P (6.35 mm)
Groove width:	1.1 mm

1/4" P chain

Picco Micro 3 (71 PM3) Type 3670	
Pitch:	1/4" P (6.35 mm)
Drive link gauge:	1.1 mm

Chain Sprocket

8-tooth for 1/4" P

Noise and Vibration Data

Noise and vibration data measurements include idling and rated maximum speed with the same duration of exposure.

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

Sound pressure level L_p to ISO 22868

HT 102:	87 dB(A)
HT 103:	89 dB(A)
HT 132:	92 dB(A)
HT 133:	93 dB(A)

Sound power level L_w to ISO 22868

HT 102:	104 dB(A)
HT 103:	106 dB(A)
HT 132:	108 dB(A)
HT 133:	109 dB(A)

Vibration level $a_{hv,eq}$ to ISO 22867

HT 102, HT 132

Drive tube (shaft):	
HT 102	2.7 m/s ²
HT 132	4.9 m/s ²

Control handle:	
HT 102	4.2 m/s ²
HT 132	4.7 m/s ²

HT 103, HT 133	
Shaft compressed:	
HT 103	3.6 m/s ²
HT 133	3.6 m/s ²

Control handle:	
HT 103	4.3 m/s ²
HT 133	4.3 m/s ²

Shaft fully extended:	
HT 103	3.9 m/s ²
HT 133	3.8 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.