

# Product Overview

## Machines

	HAWK			SOL		
	HAWK Spirit	HAWK Thunder	HAWK Pen	SOL Nova	SOL Luna	SOL Terra
<b>Design</b>	Angled	Angled	Pen	Pen	Angled	Angled
<b>Engine</b>	with brushes	with brushes	with brushes	brushless	brushless	brushless
<b>Voltage Range</b>	5.0 - 12.6 V	5.0 - 12.6 V	5.0 - 12.6 V	5.0 - 12.6 V	5.0 - 12.6 V	5.0 - 12.6 V
<b>Vibration Aw(vec) A(8)* (max. needle depth, 100 Hz, 27 magnum, machine free-floating, grip M)</b>	0.6 m/s <sup>2</sup>	0.9 m/s <sup>2</sup>	1.8 m/s <sup>2</sup>	0.75 m/s <sup>2</sup>	0.6 m/s <sup>2</sup>	0.8 m/s <sup>2</sup>
<b>Responsive Mode/Steady Mode</b>	•/○	•/○	•/○	○/•	•/•	•/•
<b>Stroke</b>	2.5 mm	4.0 mm	3.5 mm	3.5 mm	2.5 mm	4.0 mm
<b>Needle depth</b>	0 - 4.0 mm	0 - 4.0 mm	0 - 4.0 mm	0 - 4.0 mm	0 - 4.0 mm	0 - 4.0 mm
<b>Frequency</b>	70 - 180 Hz	65 - 170 Hz	55 - 160 Hz	25 - 150 Hz	25 - 150 Hz	25 - 150 Hz
<b>Lining</b>	•••	••••	••••	••••	•••	•••••
<b>Color Packing</b>	•••	••••	••••	••••	•••	•••••
<b>Shading</b>	••••	•••	••••	••••	•••••	•••
<b>Filling</b>	••••	•••	••••	••••	•••••	•••
<b>Dot Work</b>	•••	••••	•••	•••••	•••••	•••••
<b>Pepper Shading</b>	•••	••••	•••	•••••	•••••	•••••
<b>Available grips</b>	S (22.0 mm) M (25.4 mm)	S (22.0 mm) M (25.4 mm)	S (Conical) M (25.4 mm) Disposable Grip Ergo 1-Inch Disposable Grip Ergo Round Disposable Grip Ergo Long	Standard (33.0 mm) Disposable Grip Ergo 1-Inch Disposable Grip Ergo Round	S (22.4 mm) M (25.4 mm) L (33.0 mm)	S (22.4 mm) M (25.4 mm) L (33.0 mm)
<b>Included grip</b>	-	-	M	Standard	-	-
<b>Color</b>	Black Red Silver Purple Orange	Black Red Silver Purple Orange	Black Red Silver Bronze Purple Orange	Black Red Silver Gold Purple Orange	Black	Black
<b>Plug</b>	3.5 mm jack male in jack cage	3.5 mm jack male in jack cage	3.5 mm jack male in jack cage	3.5 mm jack male in jack cage	3.5 mm jack male in jack cage	3.5 mm jack male in jack cage
<b>Dimensions incl. grip (W x L x D) [mm]</b>	110 x 29 x 77	111 x 32 x 77	123 x 25.4	102 x 33	115 x 36 x 57	115 x 36 x 57
<b>Weight</b>	90 g (without grip)	95 g (without grip)	130 g	150 g	87 g (without grip)	85 g (without grip)

\*Aw(vec) A(8) is a value determined according to DIN EN ISO 5349. It describes the strength of the vibrations as the sum of the vibrations in the three spatial directions x, y, z. In addition, this value contains a weighting of the different frequency components of an oscillation, because not every frequency is perceived equally strongly by humans, and is harmful in different ways. In addition, this value is normalized to 8 hours to reflect the load of an entire working day. A maximum of 5 m/s<sup>2</sup> is permitted. From a value of 2.5 m/s<sup>2</sup>, countermeasures must be taken and the user must be made aware of possible hazards.

CHEYENNE