

Machine Comparison

	HAWK			SOL				
	HAWK Spirit	HAWK Thunder	HAWK Pen	SOL Nova	SOL Luna	SOL Terra	SOL Nova Unlimited 3.5	SOL Nova Unlimited 4.0
Design	Angled	Angled	Pen	Pen	Angled	Angled	Pen	Pen
Engine	with brush	with brush	with brush	brushless	brushless	brushless	brushless	brushless
Voltage range	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	-	-
Vibration Aw(vec) A(8)* (max. needle depth, 100 Hz, 27 Magnum, machine free-floating, Grip M)	0.6 m/s ²	0.9 m/s ²	1.8 m/s ²	0.75 m/s ²	0.6 m/s ²	0.8 m/s ²	0.91 m/s ²	1.03 m/s ²
Responsive Mode/ Steady Mode	•/°	•/°	•/°	•/°	•/°	•/°	•/°	•/°
Stroke	2.5 mm	4.0 mm	3.5 mm	3.5 mm	2.5 mm	4.0 mm	3.5 mm	4.0 mm
Needle depth	0-4.0 mm	0-4.0 mm	0-4.0 mm	0-4.0 mm	0-4.0 mm	0-4.0 mm	0-4.0 mm	0.25-4.25 mm
Frequency	70 - 180 Hz	65 - 170 Hz	55 - 160 Hz	25 - 150 Hz	25 - 150 Hz	25 - 150 Hz	25 - 140 Hz	25 - 140 Hz
Lining	•••	••••	••••	••••	•••	•••••	••••	•••••
Color Packing	•••	••••	••••	••••	•••	•••••	••••	•••••
Shading	••••	•••	••••	••••	•••••	•••	••••	•••
Filling	••••	•••	••••	••••	•••••	•••	••••	•••
Dot Work	•••	••••	•••	•••••	•••••	•••••	•••••	•••••
Pepper Shading	•••	••••	•••	•••••	•••••	•••••	•••••	•••••
Available grips	S (22.0 mm) M (25.4 mm)	S (22.0 mm) M (25.4 mm)	S (Conical) M (25.4 mm) D-Grip Ergo 1-Inch D-Grip Ergo Round D-Grip Ergo Long	Standard (33.0 mm) D-Grip Ergo 1-Inch D-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)	Standard (33.0 mm) Disposable Grip Ergo 1-Inch Disposable Grip Ergo Round	Standard (33.0 mm) Disposable Grip Ergo 1-Inch Disposable Grip Ergo Round
Included grip	-	-	M	Standard	-	-	Standard	Standard
Color	Black Red Silver Purple Orange	Black Red Silver Purple Orange	Black Red Silver Bronze Purple Orange	Black Red Silver Gold Purple Orange	Black	Black	Black	Black
Plug	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	-	-
Dimensions incl. grip (W x L x D)	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	125 x 33	125 x 33
Weight	90 g (without grip)	95 g (without grip)	130 g	150 g	87 g (without grip)	85 g (without grip)	184 g (152 g without battery)	184 g (152 g without battery)

* 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/s² is permitted. From a value of 2.5 m/s², countermeasures must be taken and the user must be made aware of possible hazards.