

# VIBRATION OUTPUT TABLE

www.beavertoolhire.co.uk

**BEAVER**  
TOOL HIRE

MACHINE	VIBRATION (m/s <sup>2</sup> )	MACHINE	VIBRATION (m/s <sup>2</sup> )
<b>Breakers</b>			
Cobra petrol breaker	8	Rotovator	6
Breaker gun (hydraulic air)	6	Brush cutter	3
Combi hammer drill	11	Hedge trimmer	4
Medium duty	10	Long reach hedge trimmer	3.5
Heavy duty	11	Turf cutter	2.5
<b>Rotary Drills</b>			
<b>Compaction</b>			
Small vibrating plate	5	Light rotary hammer	10
Vibrating plate	8	Medium rotary hammer	10
Trench rammer	4.5	Cordless hammer drill	10
Vibrating roller petrol	4.0	Diamond drill rig	6
<b>Concreting</b>			
Vib poker 38mm	6	Cordless drill	5.5
Vib poker 50-75mm	6.5	Right angle drill	3
HF poker	3	Percussion drill	3.5
Air driven poker	4	<b>Sanding</b>	
Easy screed	2.5	Belt sander	3
Power float	7	Edge sander	3
Vibrating screed	6.5	Floor sander	3
<b>Cutting &amp; Sawing</b>			
Circular saw	3	Orbital sander	5
Jigsaw	3.5	Disc sander	3
TCT saw	7	Wood plane	2.5
Cut off saw	3.5	<b>Surface preparation</b>	
Cut off saw petrol	6	Artex remover	3
Small grinder	3	Tile lifter	10
Medium grinder	6.5	Floor scrubber/polisher	2.5
Tyranosaw	4	Single & triple head scabblers	11
Nibbler	3	Single & triple scabblers LV	6
Pipe saw	8	Pole scabblers	12
Floor saw	5	Pole scabblers-low vibration	5.5
Masonry saw bench	4.5	Needle gun	12
Diamond tile saw	2.5	Needle gun low vibration	5.5
Diamond wall chaser	3.0	Floor scabblers	8
<b>Garden &amp; Groundwork's</b>			
Petrol chainsaw	8	<b>Wrenches</b>	
		TEK gun	3
		Impact wrench	6
		Auto feed screwdriver	3
		Cordless drill/driver	3

## VIBRATION CALCULATOR

Almost all machines we hire out have a laboratory measured vibration value. This value is shown in meters per second squared (m/s<sup>2</sup>).

From this value we can work out how long a piece of equipment can be used in an 8-hour period.

These figures do not always reflect the actual vibration of the tool in real conditions. This table must only be used as a guide and you should always carry out your own risk assessment.

Vibration Value (m/s <sup>2</sup> )	Safe usage in Hrs	Risk
2.5	8 hours	LOW
3.0	6 hours 58 mins	LOW
3.5	5 hours	LOW
4.0	3 hours 40 mins	LOW
4.5	3 hours	LOW
5.0	2 hours 20 mins	LOW
5.5	2 hours	MEDIUM
6.0	1 hour 30 mins	MEDIUM
6.5	1 hour 15 mins	MEDIUM
7.0	1 hour	MEDIUM
7.5	55 mins	MEDIUM
8.0	50 mins	MEDIUM
8.5	45 mins	MEDIUM
9.0	40 mins	MEDIUM
9.5	36 mins	MEDIUM
10.0	32 mins	HIGH
10.5	29 mins	HIGH
11.0	27 mins	HIGH
11.5	25 mins	HIGH
12.0	24 mins	HIGH