



# Vibration

## Safety Guide

- **BREAKING**
- **DRILLING**
- **SCABBLING**
- **SANDING**
- **SAWING**
- **COMPACTION**

**BRANDON**  
Tool Hire

Keeping you working

# VIBRATION WHITE FINGER

Vibration white finger is the most common form of hand arm vibration syndrome; it is also sometimes called white finger disease or Raynauds phenomenon. The condition effects people who regularly use **HIGH VIBRATION EQUIPMENT** such as power tools in all industries, the longer the person is exposed the greater the risk. With this in mind Brandon Tool Hire has produced the following information to assist users and employers in reducing the potential damage caused by prolonged exposure to high vibration levels.

## How to use this Guide:

To gain an indication of the safe working time for a power tool take the vibration value in the output table and find the corresponding value in the Vibration Safety Chart. The figure parallel to the vibration value gives the approximate maximum time of use in any eight hour working shift.

For instance; a 14" Petrol Floor Saw has a Vibration value of 7.5m/s<sup>2</sup>. In the Hand Arm Vibration Safety Chart the corresponding figure shown is 67 Mins meaning the approximate length of time an operator can use that tool in an eight hour shift is 67 minutes.

There are other factors, which may influence the effect of Vibration on the body for example stature and temperature; therefore this scale should be used for broad guidance only.

**For more precise data on any tool hired from Brandon Hire contact our SAFETY ADVICE LINE.**

# HEALTH & SAFETY

When selecting new tools for purchase, Brandon Tool Hire's policy is to favour those with reduced vibration characteristics. An explanatory leaflet outlining the hazards symptoms and control measures relating to vibration white finger is provided **FREE** from Brandon Hire with equipment, which produces vibration.



**The following steps will help reduce the risk from vibration:**

- Wear gloves and keep warm. At present anti vibration gloves generally provide negligible attenuation of vibration.
- Do not use excessive force on the tool, the tighter the grip the greater the vibration.
- Avoid using blunt points, chisels & drill bits.
- Follow safety instructions provided with equipment.

## HOW DO I monitor my usage?

### TOOL TIMERS TRIGGER TIME

Brandon Hire has an industry exclusive device for use on electronically or pneumatically powered tools and offers a practical solution to monitoring tool use in the work place (see page 39 of our 2007 catalogue for details). These assist in the management and control of vibration exposure, and help to meet the requirements of the Control of Vibration at Work Regulations 2005.



# VIBRATION OUTPUT TABLE

E CODE	EQUIPMENT	VIBRATION (m/s <sup>2</sup> )	E CODE	EQUIPMENT	VIBRATION (m/s <sup>2</sup> )	E CODE	EQUIPMENT	VIBRATION (m/s <sup>2</sup> )	
<b>SANDERS</b>			<b>2 STROKE BREAKERS</b>			<b>METAL CUTTING/FABRICATION</b>			
0107	Floor Sander	2.5	0527	Cobra 2 Stroke Breaker	2.5	1902	Hand Held Threader 110v Rems	2.5	
0103	Belt Sander	2.5	0529	Wacker BH23	12.8	1911	Bevel Cutter	2.5	
0105	Orbital Sander	5	<b>CONCRETING</b>			1916	Hole Cutting Saw	2.5	
0101	Edge Sander	2.5	1018	Vibrating Poker 1"	4	1976	Powered Pipe Cutter	2.5	
0109	Disc Sander	2.5	1019	Vibrating Poker 1.5"	5	1988	Rebar Cutter/Bender	2.5	
0113	Wood Plane	2.5	1020	Vibrating Poker 2"	7	1989	Cordless Stud Cutter (Hitachi CL1002)	2.5	
0115	Router	2.5	1021	Vibrating Poker 3"	5.5	1996	Portable Power Bender	2.5	
0117	Laminate Trimmer	2.5	1022	High Frequency Poker 110v	2.5	19AA	Mini Conduit Threader	2.5	
0133	Finishing Sander	<2.5	1025	Air Driven Pokers	4.5	<b>GARDEN MACHINERY</b>			
<b>SAWING/CUTTING/GRINDING</b>			1026	High Frequency Poker 8m x 57mm	2.5	2112	2 Stroke Chainsaw	9	
0203	6" - 9" Circular Saw	2.5	1064	High Frequency Poker 5m x 57mm	2.5	2113	Rotavator	7.1	
0205	Jigsaw	3.2	1097	High Frequency Poker 5m x 45mm	2.5	2114	Cultivator	2.1	
0208	Arbortech TCT Saw	6.9	1098	High Frequency Poker 5m x 38mm	2.5	2115	2 Stroke Brush Cutter	2.5	
0210	Door Trimming Saw	3.4	1099	High Frequency Poker 5m x 57mm	2.5	2117	2 Stroke Hedge Cutter	3.5	
0211	Cut Off Saw	2.5	100B	Easy Screed	1.5	2154	Turf Cutter Petrol	2.1	
0221	4 _ Mini Grinder	2.5	1027	Powered Float	6.6	2160	Long Handled Hedge Trimmer (2-St)	2.5	
0223	7" - 9" Grinder	7.5	100P	Power Trowel Electric	2.5	2170	Powered Sweeper 2-Stroke	7.6	
0225	12" Grinder	7.5	1028	Vibrating Screed	5.3	<b>CONCRETE CUTTING/DRILLING HYDRAULIC</b>			
0227	2 Stroke 12" Cutter	5.5	1079	Roller Striker Hydraulic	4	1131	Diamond Core Drill Hydraulic	2.5	
0228	Metal Shears	3.2	1094	Roller Striker Air	4	1135	Masonry Chainsaw Hydraulic	3.5	
0232	Nibbler	2.5	<b>SURFACE PREPARATION</b>			1141	Diamond Core Drill Hydraulic	3.0	
0234	Heavy Duty Nibbler	2.5	2325	Floor Polisher Scrubber	2.1	<b>HAND ARM VIBRATION SAFETY CHART</b>			
0236	Pipe Saw 110v	16	2332	Surface Preparation Refina	1.67	<b>Vibration Value (m/s<sup>2</sup>)</b>		<b>Max Usage period in 8 Hrs (Mins)</b>	
0249	Tyranosaw	4	2337	Floor Scrubber Dryer	1.4	<b>LOW</b>	2.5	480 mins	in 8 Hours
0250	Metal Cutting Circular Saw	2.3	1044	Concrete Planer	2.5	<b>LOW</b>	3.0	333 mins	in 8 Hours
0261	Biscuit Jointer	2.5	1058	Small Multi Stripper	16.7	<b>LOW</b>	3.5	245 mins	in 8 Hours
0262	Rotary Scabbler	2.5	1058	Large Multi Stripper	13.4	<b>LOW</b>	4.0	188 mins	in 8 Hours
0266	Reciprocating Saw	8	1067	Tile Lifter MS330	13.42	<b>LOW</b>	4.5	148 mins	in 8 Hours
0277	Jigsaw Cordless	8	1011	FR200 Petrol De-Chipper	4	<b>MEDIUM</b>	5.0	120 mins	in 8 Hours
0282	Powered Stone Splitter	2.5	0289	Surface Blaster	2.4	<b>MEDIUM</b>	5.5	99 mins	in 8 Hours
0285	Cordless Trim Saw	2.5	0293	Paint & Artex Remover	2.1	<b>MEDIUM</b>	6.0	83 mins	in 8 Hours
0291	Cut Off Saw TCT	2.5	<b>COMPACTION PLATES/RAMMERS</b>			<b>MEDIUM</b>	6.5	71 mins	in 8 Hours
0294	Band Saw	2.5	1037	Trench Rammer	3.5	<b>MEDIUM</b>	7.0	61 mins	in 8 Hours
0298	Metal Cutting Saw 230mm	3.9	1015	18" Petrol Plate	6.9	<b>MEDIUM</b>	7.5	53 mins	in 8 Hours
020B	Precision Laminate Saw	2.5	1039	Forward/Reverse Diesel	4.9	<b>MEDIUM</b>	8.0	47 mins	in 8 Hours
<b>ROTARY HAMMER DRILLS</b>			1085	Lightweight Plate	4.7	<b>MEDIUM</b>	8.5	42 mins	in 8 Hours
0301	General Purpose Drill	4	<b>AIR BREAKERS/AIR DRILLS/AIR TOOLS</b>			<b>MEDIUM</b>	9.0	37 mins	in 8 Hours
0305	Heavy Duty Drill	2.5	1545	Air Pick 15kg - Low Vibration	6.5	<b>MEDIUM</b>	9.5	33 mins	in 8 Hours
0309	Right Angle Drill	2.5	1556	Demo Pick 9kg - Low Vibration	8.9	<b>HIGH</b>	10.0	30 mins	in 8 Hours
0311	2.2kg Cordless Drill	8	1562	Breaker 27kg - Low Vibration	3.4 to 4.6	<b>HIGH</b>	10.5	27 mins	in 8 Hours
0314	3.9kg SDS	11	<b>MEGA MIXER</b>			<b>HIGH</b>	11.0	25 mins	in 8 Hours
0318	5.9kg Combi Hammer	6.5	1730	Mega Mixer	2.1	<b>HIGH</b>	11.5	23 mins	in 8 Hours
0322	7.9kg Combi Hammer	7	<b>FLOOR SAWS</b>			<b>HIGH</b>	12.0	21 mins	in 8 Hours
0330	2.3kg SDS Light Duty	10	1104	14" Petrol Floor Saw	1.9	<b>PLEASE NOTE:</b>			
0331	Dry Diamond Drill 110v	7	1105	18" Petrol Floor Saw	4.5	Makes and Models may differ, in these cases the highest value is given. The figures are for guidance and comparison of equipment only.			
0334	4.2kg Cordless Drill	11	1110	Radial Arm Saw Masonry	2.5	* Trigger time measured in minutes			
0335	Dry Diamond Drill 240v	7	1112	Masonry Saw Bench Petrol	4.6	The information provided on this chart superceeds any previous given information.			
0348	4.7kg Cordless Drill	5	1113	Masonry Saw Bench 110v	4.0				
<b>IMPACT WRENCHES/SCREW DRIVERS</b>			1123	Diamond Tile Saw	2.5				
0401	TEK Gun	2.5	<b>WALL CHASERS</b>						
0403	Screwdriver 110v	2.5	1122	Twin Blade Wall Chaser	2.5 to 4				
0412	Electric Impact Wrench	7	<b>SCABBLERS/NEEDLE GUNS</b>						
0419	Drywall Auto Feed Screwdriver	2.5	1520	Needle Gun Standard	12.2				
0435	Cordless Impact Driver	12	1521	Single Headed Hand Scabbler-(ST)	8.5				
<b>ELECTRIC BREAKERS</b>			1528	Triple Headed Hand Scabbler-(ST)	9.9 to 15				
0501	Light Duty Demo Hammer 5kg	10	1543	Pole Scabbler	24				
0503	Med Duty Demo Hammer 10kg (AV)	14	1558	Needle Gun Low Vibration	5.5				
0509	Heavy Duty Breaker 29kg	13	1559	Single Headed Hand Scabbler-(LV)	5.5				
0514	TE 704	11	1560	Triple Headed Hand Scabbler-(LV)	4.1				
0526	Med Duty Demo Hammer 11kg (AV)	8	1561	Pole Scabbler - Anti Vibration	3.5				
<b>HYDRAULIC BREAKERS</b>									
0511	Heavy Duty Gun 25kg (VD)	5.5							
0513	Light Duty Gun 22kg (VD)	5.5							

Call our **Safety Advice Line** on

 **0117 9778918**

**BRANDON HIRE**

72 - 75 Feeder Road

St Philips

BRISTOL

BS2 0TQ

TEL: 0117 971 9119

FAX: 0117 972 0116

**BRANDON**Hire

Keeping you working

[brandonhire.co.uk](http://brandonhire.co.uk)

A WOLSKLEY Group