MASTER ABRASIVES

Tool Services

SOLUTIONS FOR INDUSTRY

www.master-abrasives.co.uk

Introduction

Master Abrasives

At Master Abrasives, we have a hard and long earned reputation in the UK abrasives market for providing solutions with high-quality products and professional service. Established in Daventry in 1967, we have served British industry for over half a century, now as an independent UK owned abrasive company with an extensive range of abrasive products and applications engineering support.

Master Tool Services has developed into a strategically important part of Master Abrasives portfolio and in 2013 it moved to a larger location on-site to carry out tool repair and services.

The dedicated tool service team offers tool servicing and repairs to companies across the country. Once the tools are beyond economic repair, we can also offer new tools from a range of different brands.

We also promote the safety of tools and abrasives, offering Hand Arm Vibration services, Noise Assessments and PAT testing to help companies protect employees and comply with legislation.

Our team of experienced technicians and representatives work with a variety of customers to find solutions to suit them.

Tool Services

As a leading supplier of quality abrasive consumables, we know the importance of ensuring that the power tools used are right for the job and that they are kept in good working condition.

To assist our customers in their varying manufacturing processes, Master Tool Services offering includes the following products and services:

Tool & Consumable Audit
Our technical sales team analyse the tools and consumables utilised by the customer to see if increased performance of tool and consumable and / or safety improvements can be made.

Tool Servicing and Repairs
Maintenance programme plans and reactive breakdown repairs can be offered for all makes and models of electric and pneumatic tools.

Hand Arm Vibration Services
We offer Hand Arm Vibration (HAV) Services including tool testing, monitoring systems and training.

Other Services
Our service offering also incorporates Noise Assessments, Airline Efficiency Assessments and PAT Testing.

Tools Sales
We are agents for several high-quality power tool brands therefore offering a wide selection of tools to match customer needs and provide them with a choice of tool options.

Tool & Consumable Audit

A tool audit involves logging and numbering all tools on-site along with their applications and consumables used. When the right power tool is selected to run an abrasive consumable, you get the **optimum performance from the abrasive product**; providing **savings on your consumable bill** and **increasing the product performance and overall productivity**. The tool and consumable audit is a vital first step to managing Hand Arm Vibration risk and efficient use of tools and consumables. It is also the first step of our preventative maintenance programme, offered free of charge with the programme.

Review Process

1

Consultation

One of our sales representatives discusses the requirements with the customer.

2

Full Site Survey

Our sales representative visits the customer site to review the different applications and processes.

3

Tools

We list the different tools being used. The tools can be registered and marked with a unique number.

4

Consumables

We register types of consumables being used with the tools.

5

Appraisal of Tool & Consumable Suitability

Our sales representative will review the tool and consumable lists and how the two are used together. Any health and safety concerns are brought to the customer's attention.

6

Improvements

Potential improvements to the tool and consumable combinations are made.

Tool Servicing & Repairs

We offer repair and servicing options for our customers to suit the number of tools on site and the frequency of servicing required.

For employers to assess and identify measures to reduce risks from exposure to HAV and ensure employees are protected from risks to their health, they should consider appropriate maintenance programmes for work equipment, the workplace and workplace systems.

Preventative Maintenance Plan

We can offer preventative maintenance programmes for any number of tools, recalling them for servicing on a planned and managed schedule with adjustable intervals according to your needs. This helps to ensure that tools are kept in their best possible condition, reducing the risk of injury from HAV and the cost of replacing parts. The plan has many key benefits:

Lower costs
Having a preventative maintenance plan allows customers to accurately budget their tool costs as there are no unplanned costs. Regular servicing prevents unnecessary deterioration of major parts saving money in replacing those key components. Tool life is also extended with regular maintenance, delaying the requirement to buy new costly tools.

Maximise productivity
If the tools are regularly checked, they will also be more reliable and perform better, allowing customers to use the full potential of the tools. They will be less likely to break down suddenly and cause costly down time. Planned intervals also allow advance ordering of spares, therefore allowing us to carry out repairs swiftly. Repairs are also carried out only when necessary, if tools are received by us in good condition, they will be returned after the maintenance check.

Reduce HAV risks
Employers can reduce the risk of their employees being affected by HAV. Tools kept in optimum condition are less likely to cause HAV; incorrectly running tools can transmit higher than normal levels of vibration.

Reactive Breakdowns

We offer tool servicing and repairs on reactive breakdowns where tools are repaired when they break down without any existing contract required. We repair **all major brands and models**, and **next day collection service** is available.

We **itemise all quotations**, detailing parts required and labour charges for transparency. **80% of our repairs turned around in less than 5 working days** to reduce customers' costly down time.

As an additional service we **can arrange customers' tools to be HAV tested after repair**. We keep repair history of all tools to ensure we are able to answer customer queries regarding their service or repair long after the event took place.

Service and Warranty Repairs

Whilst we can repair all major brands of tools, we are also the only authorised service and warranty centre for Mirka and Lamello tools in the UK.

Hand Arm Vibration Services

Overview

Hand Arm Vibration (HAV) is vibration generated by tools and transmitted to the hands and arms of the user. The regular use of hand-held power tools can cause significant ill health, including painful and disabling disorders of the blood vessels, nerves and joints.

HAV legislation came into effect in July 2005, introducing both action and limit values for hand-arm and whole-body vibration. The Control of Vibration At Work Regulations 2005 state that the measures taken by the employer in compliance with the regulations shall be based on the general principles of prevention set out in Schedule 1 to the Management of Health and Safety at Work Regulations 1999(a). Employers are required to assess and identify measures to eliminate or reduce risks from exposure to HAV to ensure employees are protected from the risks to their health.

We offer tool services solutions to help companies comply with legislation and protect employees from significant ill health caused by HAV, offering services such as HAV Tool testing, HAV monitoring systems and training.

MASTER TOOL SERVICES

Client: EXAMPLE

Date of Test: 06 June 2019

Tool I.D.	Make:	Model:	Tool Type:	Consumable:	Users:	2019 Vibration magnitude m/s² r.m.s.	Exposure points per hour	Time to reach EAV 2.5 m/s² A (8) hours	Time to reach EAV 2.5 m/s² A (8) minutes	Time to reach ELV 5 m/s² A (8) hours	Time to reach ELV 5 m/s² A (8) minutes
EX-0090	MANUFACTURER 1	DHR202	SDS HAMMER DRILL 18V	6 X 100MM SDS DRILL BIT	MAINTENANCE	8.70	151	0	40	2	39
EX-0091	MANUFACTURER 1	DJR186	RECIPROCATING SAW 18V	150MM BLADE	MAINTENANCE	7.20	104	0	58	3	51
EX-0092	MANUFACTURER 2	RP1274	AIR DRILL	2MM DRILL BIT	MAINTENANCE	1.37	4	>24		>24	
EX-0093	MANUFACTURER 3	DB3DL	DRIVER 3.6V	DRIVER BIT	MAINTENANCE	1.05	2	>24		>24	
EX-0094	MANUFACTURER 4	GA1011L	ANGLE GRINDER	100MM DISC + PAD	SPARE PARTS	1.10	2	>24		>24	
EX-0095	MANUFACTURER 1	DDF453	DRILL 18V	3MM DRILL BIT	MIDI ASSY	1.12	3	>24		>24	

Tool Testing

Our Tool Services team consists of technicians who are qualified to carry out HAV tests either at customer's premises or our facility. We measure the vibration magnitude of tools while they are in typical use, in accordance with ISO 5349-2, to ensure the results are realistic.

Data Collection

After the testing has taken place, a database is compiled of all the customer's power tools, listing the make, model, location and condition of the tool, consumables used with the tool and the vibration magnitude. To give our customers maximum amount of useful information, the database also shows Exposure Points Per Hour, Time to reach Exposure Action Values (EAV), Time to reach Exposure Limit Values (ELV) for each tool and it is colour coded indicating low, medium or high vibration. The database can be arranged as required by client, by tool number, department or user.

Report

A detailed and unbiased report will be compiled using the test data and the results of this can be used as part of your risk assessment. This information produces a full inventory of all the tools on-site, records of HAV testing and if required a complete history of the tools' service history. Tools can also be tagged with identity and vibration magnitude and colour-coded according to their risk.

Implementation

Once you have the HAV test data you can then start to plan a management package to control HAV issues on-site, such as job rotation, application review, sourcing lower vibration tools and consumables and regular servicing of tools.

The next step to protecting your employees from HAV is implementing a monitoring system such as a Hand Arm Vibration management system package.

Monitoring Systems

To help manage HAV information and monitor employee's exposure levels, we offer advice on systems that can be considered personal protective equipment for HAV.

A full HAV management system can quantify daily HAV exposure. Trigger time monitors display when the EAV and ELV have been reached, ensuring employees can be kept safe from the effects of HAV.

On-site demonstrations on the use of these monitoring systems can be arranged.

Training

We offer an IOSH accredited Toolbox talk on HAV to help the attendees to understand, control and reduce the risks involved. Topics of the training include the following:

- Definitions
- At risk tools
- Causes & health effects
- Measurement and assessment of HAV
- Vibration directive
- HSE points system
- Trigger time
- Control measures
- PPE

Other Services

We also offer the following services

Noise Assessments

PAT testing

Airline Efficiency Assessments

Tool Sales

With our expertise in abrasive consumables as a leading supplier for over 50 years and along with our knowledge of power tools, we **can make recommendations** for the tools best suited to customer applications, from both performance and safety perspectives.

Within our product portfolio we have **a wide range of power tool brands** enabling us to offer a wide choice to match our customers' requirements. Along with an extensive range of **low vibration and low noise tools**, we can also offer a range of tools depending on our customers budgets and requirements.

Customers may wish to invest in high-quality tools and put **service packages** in place to ensure they get the optimum performance and life from them. Or they may wish to opt for lower cost tools that are replaced on a regular basis rather than the added costs associated with servicing them. Either way, we can make suggestions and recommendations.

We offer both **pneumatic and electric or battery power tools** from the following brands:

metabo® PROFESSIONAL POWER TOOL SOLUTIONS · Atlas Copco · DYNABRADE® · Cleco® Dotco™ · 3M · ZIPP® AIR TOOLS

Please contact our customer service team, technical sales representative or visit our website for further information.

Abrasive Consumables

Master Abrasives has built a hard-earned reputation for the quality of our product range; the quality of the abrasive consumable used is critical in reducing both the HAV levels and the overall trigger time of the power tool. You can find an overview of some of our own Master® product ranges below. Master® products allow us to offer our customers quality products at affordable prices. For more information please request or download our product brochures and contact a member of our sales team.

Aerospace | Tooling | Fabrication | Power Generation | Medical | Heavy Engineering | Automotive | Bearing | Oil & Gas | Woodwork

SOLUTIONS FOR INDUSTRY

For further information on Master Abrasives' products and services
or technical applications support, please contact us

MASTER ABRASIVES

High March, Long March Industrial Estate, Daventry, Northants NN11 4PG
Tel: 44 (0) 1327 703813 Email: sales@master-abrasives.co.uk
www.master-abrasives.co.uk

MA-010519