

# MASTER ABRASIVES

## New MASTER mounted point kit complements the range

Master Abrasives has been providing industry with high quality mounted points and carbide burrs along with application support as part of its package for many decades. A new development in the MASTER® brand is a mounted point kit to complement the existing range of MASTER carbide burr kits.

The new MASTER mounted point kit contains 12 points mounted on a 6mm shank, supplied in a MASTER presentation box which also provides storage. All points are in a 60 grit pink Aluminous Oxide grade with low to medium Chromium Oxide content, ideal for general grinding applications. This general purpose grade and grit has been specified for a combination of excellent metal removal together with a good quality finish. The interior lid lists the FEPA shapes contained and their maximum operating speeds as well as sizes for the customers future reference.



A mounted point is effectively a small diameter hard grinding wheel that is securely adhered to a steel mandrel. They are classified in shape groups A, B and W. These shapes are generally designed for offhand grinding, but in certain circumstances may be used in precision grinding applications. 'A' shapes are generally used in heavier duty applications in the foundry and fabrication industries. The 'B' shaped mounted points being widely used throughout the investment casting industry, tool & die, and so on where smaller material removal rates and more intricate parts are common. The cylindrically shaped 'W' points and are widely used for machining weld overlaps, casting lines and breaking sharp corners and burrs. These points range from 3mm to 50mm in diameter and therefore cover many different requirements.

Master Abrasives' aluminium oxide mounted points are manufactured on advanced production lines to high standards of concentricity, dimensional accuracy, and stability, in tightly controlled recipes. This combination provides consistent quality and superior performance for extended tool life and market leading product development. They are extensively used in the investment casting industry, other foundry applications, tool & die, precision and heavy duty fabrication industries for specialised and general deburring applications, in addition to maintenance based operations. MASTER mounted points are ideal for difficult grinding and finishing

applications involving alloyed and unalloyed steel, grey and nodular cast iron, stainless steel, aluminium and exotic metals.

The existing MASTER kits for carbide burrs include a set of 5 double cut burrs on a 6mm shank and a set of 10 double cut burrs on a 3mm shank, both in a MASTER presentation box which provides storage and protection. The selection of burrs in each kit provides a range of shapes which allows customers to try the different types for their applications.

All tungsten carbide rotary burrs from Master Abrasives are CNC machine ground from carefully selected grades of tungsten carbide designed to produce high stock removal rates together with long life. The bespoke fully automated manufacturing process and subsequent rigorous burr quality testing ensures a reliable product that on many occasions exceeds the customers' expectations.

Even hardened steels up to 67 HRC can be machined using tungsten carbide and used correctly the tool life can be between 50 to 100 times that of the equivalent burr in high speed steel (HSS). Tungsten carbide allows heavier cuts with more aggressive feed rates and can produce an exceptional surface finish.

The extreme hardness of the tungsten carbide grades offered by Master Abrasives means that they can be used in a wide variety of applications, typically in the automotive, aerospace, precision engineering and foundry industries. The rotary burrs can be used to machine castings, sand cores, ceramics, plastics, glass fiber and other composite materials. Tough materials that are welded, forged or used within the mould & die industry, such as cobalt, nickel and chrome steels can be smoothly blended. And, hard materials such as high speed steel, chilled iron and stellite can be machined with precision and tool longevity.

MASTER tungsten carbide burrs are produced and stocked in a wide range of shapes and sizes, mounted on 3 mm or 6 mm as standard or 8 mm shanks on request. They are also available in long shank and double ended versions to suit customer applications. Special shapes, sizes and flute cuts can be supplied to customer specifications with the help of Master Abrasives technical applications team.

This new range of MASTER kits provides another solution for industry for customers small and large, web-based and traditional. Contact Master Abrasives or your local MASTER distributor for more information.

