

## The Total Solution to the Metal Finishing Process

There are several stages in the metal finishing process which generally involves grinding, forming and finishing. In order for the job to be completed efficiently and with minimum use of resources, the correct abrasives should be used at each stage in the metal finishing process.

Outlined below are the common stages in the metal finishing process and the recommended abrasives to achieve the desired result.

### Grinding – heavy metal removal

Depressed centre grinding wheels are designed for use on angle grinders to achieve fast, safe stock removal on a variety of materials.

Depressed centre grinding wheels, such as Flexovit's A24/30T-BF27 and A30S-BF27 wheels are for long life general purpose grinding of ferrous metals. These wheels are also available in an "iron free" version, which are designed for use on stainless steels.

For rapid stock removal of harder metals such as alloy steels and mig weld, the A24/30P-BF27 is ideal. Another heavy metal performer is the ZA24R-BF27 which delivers excellent wheel life and stock removal. When grinding aluminium and other soft ferrous metals, the specially formulated A24/30P-BF27-ALU is recommended.



### Forming – intermediate metal removal

Flexovit flap discs and fibre discs are recommended for light metal removal and the blending of weld seams. Designed to deliver a consistent finish with a uniform rate of cut, Flexovit flap discs wear away, continually exposing fresh abrasive grains. Flap discs provide extra grinding / blending life and are available in coarse (40g) to fine (120g) grits. For conformability and the blending of contours, Norton Metalite resin fibre discs are ideal.



Hard to reach and compact areas will require a smaller more accommodating abrasive. The Lock-It discs are a quick change device that suits these working conditions. Lock-It discs are available in both abrasive cloth and surface conditioning style discs for the total solution.

### Final surface finishing

Final surface finishing is a process of achieving the look and finish to the component without changing the actual geometry of the product. This is generally accomplished by use of non-woven materials, which remove little to no metal from the surface.

Coventry Fasteners offers a comprehensive range of abrasives to cover every step in the metal finishing process. Contact your closest Coventry Fasteners branch for more information.

