



The industry leader in
Burnishing Tools



MIRROR FINISH

and accurate sizing in one pass

ELIMINATE HONING!

cogsdill.co.uk

Ready to roll

Cogsdill Roll-a-Finish tools offer you a fast, clean, and economical method of sizing, finishing and work hardening metal parts to exacting specifications. The tools can be operated on any spindle. Parts of virtually any configuration and material are accurately sized within “microns,” with surface finishes as fine as 2 µin (0.05 µm)... in seconds!

Standard Roll-a-Finish tools are available from stock for inside diameters from 3.97 to 178mm, and for outside diameters from 1.0 to 65.1mm. The tools are easily adjustable, with a typical range of 1.1mm.

Standard internal range is offered in three styles:

- **SRMR:** Through-hole style (machine-feeding)
- **SRMR-helix:** Through-hole style with helix cage (self-feeding)
- **SRMB:** Bottoming-style for blind hole (machine-feeding)



Universally speaking

Using Cogsdill's proven diamond insert geometry, our premium range of burnishing tools can achieve low Ra surface finishes in one pass – achieving results not attainable from any other metal removal process.

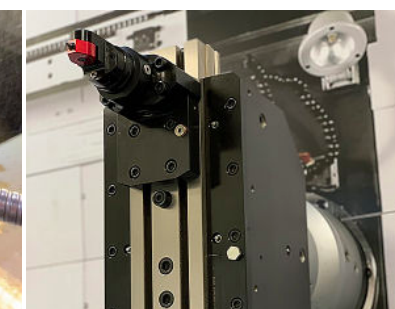
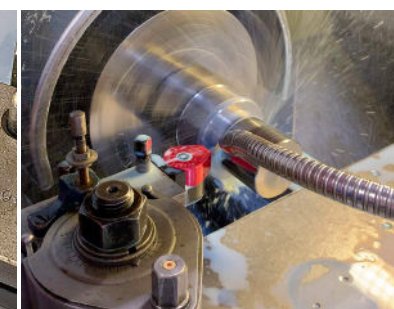
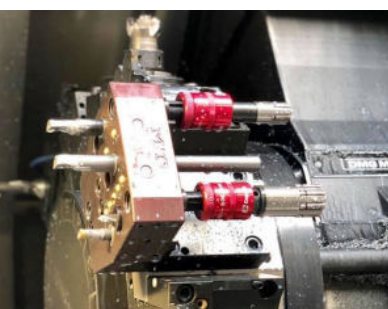
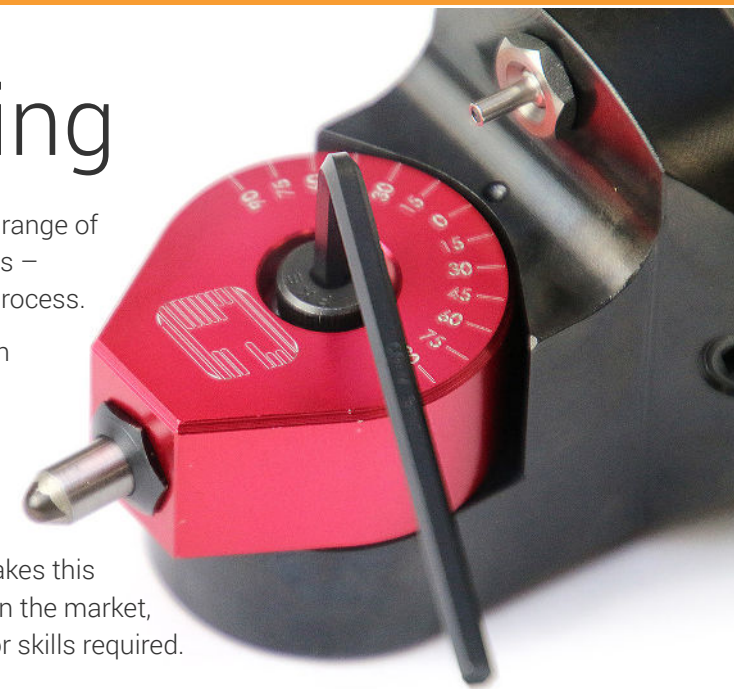
UDBT are designed to be adjustable through 180 degrees, which makes them the ideal choice tool for lower volume batch components where a designated orientated tool is not required.

Offers flexibility for burnishing large bores, outside dia's, tapers and faces – and a superior finish compared to turning alone.

The quick and simple castellated adjustment makes this the most versatile diamond burnishing tool on the market, with simple set-up and no special operator skills required.

There are currently 2 standard models available:

- UDBT-S-25 (Straight Shank with 25mm square section)
- UDBT-C6 (Capto C6 Shank) – which is supplied with through coolant capability



Whether large or small diameters, tapers, faces, contours – virtually any part configuration.

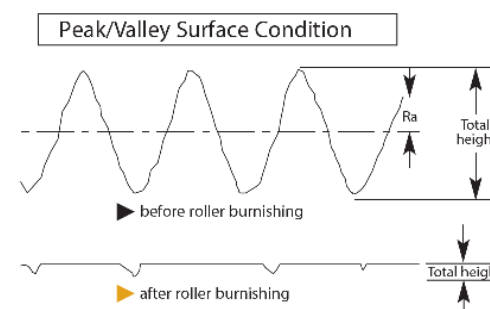
Special application tools on request.



Eliminate honing with a Roller Burnishing Tool

Accurate sizing. Mirror-like finish. In one-pass.

With a tough, work-hardened surface, a roller burnished surface is smoother and more wear-resistant than an abraded surface of the same profilometer reading.



In process manufacture, no other operations required.

Mini Series

ACTUAL SIZE

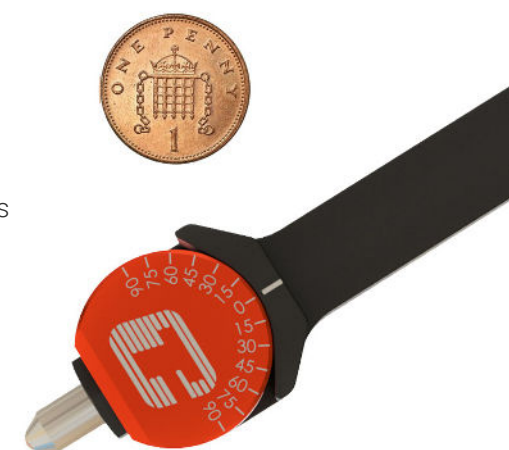
Developed as a solution for burnishing on CNC Swiss-type sliding head machines to streamline operations significantly.

Cogsdill Universal Diamond Burnishing Tool Mini Series (UDBTM) is a compact burnishing solution, with the adjustment head not much bigger than a penny (as shown in the illustration). But don't let its small size fool you, this tool offers huge return on investment.

The tools can be utilised in either left or right-handed machine configurations, with either round or square shanks to suit tool post or collet installation.

There are currently two different models available:

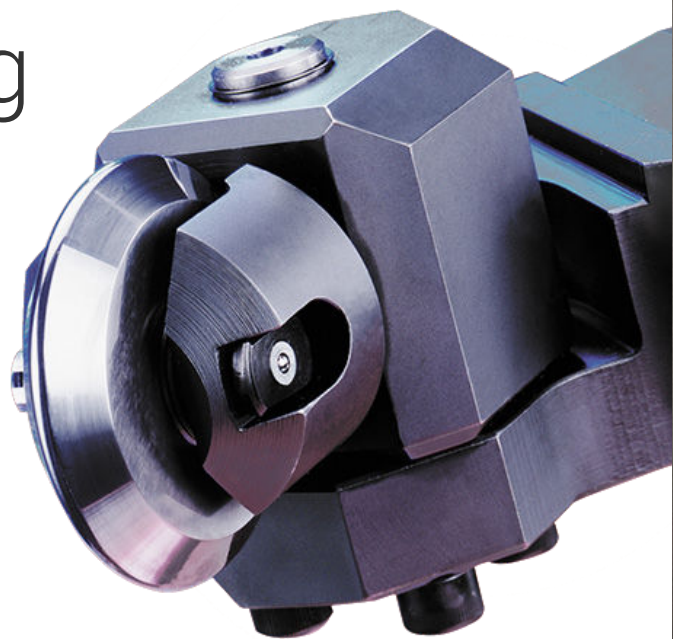
- UDBTM-S-12 (Square Shank with 12mm section + included clamp plate assembly)
- UDBTM-R-16 (Round Shank with 16mm diameter)



Versatile Burnishing

Cogsdill Universal Burnishing Tools are designed for burnishing shafts, faces, tapers, contours, and relatively large IDs (greater than 2.750 inches/69.85mm).

- Boring-Bar style and Indexable turning-holder style designs
- Turning-Holder styles available with force gauges.
- Tool designs to suit any part size or configuration, or any turning machine
- Low surface finishes
- Standard, available off-the-shelf
- Adjustable for optimum burnishing pressure
- Hardened steel or carbide rollers



We hold a range of tools and spare Carbide and HSS rolls in stock – here in the UK.



Two styles are available:

Boring-Bar Style

The Cogsdill UBT-B series are designed for use in a machine turret configuration on a CNC lathe, where differing diameters are required from a single tool set-up.

Turning-Holder Style

The Cogsdill UBT-T series are designed for use in an indexable turning holder configuration, mounted to a machine turret on a lathe.



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See our tools
in action on



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