



ZEEKO

INDUSTRIAL

Micron perfect polishing
From your existing CNC machinery



www.zeeko-industrial.co.uk



Zeeko polishing processes have been developed over the last 22 years by the parent Company of Zeeko Industrial. The development has been focussed on the “high-end” polishing of optical surfaces for satellite mirrors, X-ray telescopes, scanner technologies as well as the equally demanding market of mobile phone camera technology.

Zeeko-Industrial has taken that well-developed high-end technology, simplified it, re-engineered it by adding a fast high removal rate process supported by specialist tools and software and integrated it to regular industrial robots and CNC machine tools. This automated surface finishing process is now available to the industrial market and is being used for both machined and 3D printed precision components.

Typical applications are aerospace parts, precision moulds, turbine blades, orthopaedic joints, medical devices and other consumer applications including moulds for automotive Head Up Displays (HUD's).

- The Process runs on existing machine tools (just like yours) – 3, 4 and 5 axis machines from Mazak, Fanuc, DMG, Hurco, Doosan, Haas and 6 axis robots from all the major suppliers like Fanuc, ABB, Yaskawa, Staubli and many others
- The process is intuitive for simple parts that need “shining” and remains uncomplicated on even the most complex and challenging high precision surfaces. In all applications it maintains a straightforward uncomplicated procedure and retains its “one button” interface wherever possible.

To Adopt The Process:

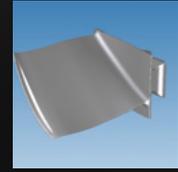
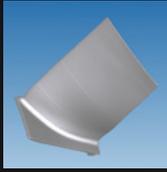
You will need to purchase “Zephyr Tools” from Zeeko Industrial as well as either renting or buying a software licence for the revolutionary ZephyrCAM Industrial software.

The user will need a clean 3, 4 or 5 axis CNC machine or a 6-axis robot equipped with some form of part probing.

Zeeko Industrial advisers (who provide 24x7 support) will help you integrate the software to the machine, advise on the loading and application of the tools and also advise about any other peripheral parts required.

A 3-D scanner may also be needed depending on the accuracy of the process chosen.

Example part scans



Scan & Polish

- 1 Scan the part
- 2 Load scan to the ZephyrCAM software to generate a toolpath
- 3 Press "GO" to Polish

CAD & Polish

- 1 Load the CAD to the ZephyrCAM software
- 2 Generate the Toolpath
- 3 Press "GO" to Polish

Scan *corrected* CAD & Polish

- 1 Scan the Part
- 2 Load the CAD and then the Scan Correct the CAD
- 3 Confirm the corrected Shape and Generate the Toolpath
- 4 Press "GO" to Polish

**50+ Tools to choose from
5 Key Tool Geometries:**

Teardrop



Cap



Disk



Bonnet



Drum



Full details available in our tooling brochure





If You Have No Machines Available: No Problem! Introducing...

Zeeko RPC

The Zeeko RPC (Robot Polishing Cell) offers truly flexible multi-configurable solutions and cost-effective output for any organisation that needs high speed dedicated polishing, partially or fully equipped for sale or rental (subject to strict terms and conditions) ready to be delivered and set up for your use.



99% Repeatability



Low Cost Solution



Retrofit Existing Machinery



Remote 24/7 Support

Zeeko LTD
4 Vulcan Court
Vulcan Way
Coalville
Leicestershire
LE67 3FW
United Kingdom

t +44 1530 815 832

f +44 1530 839 631

e info@zeeko-industrial.co.uk

www.zeeko-industrial.co.uk

