
7 Most Asked Questions About Mass Finishing Answered

If you are looking to include Mass Finishing into your operations or you are using a Mass Finishing process but you haven't managed to obtain the most optimum results, we recommend reading our e-books.

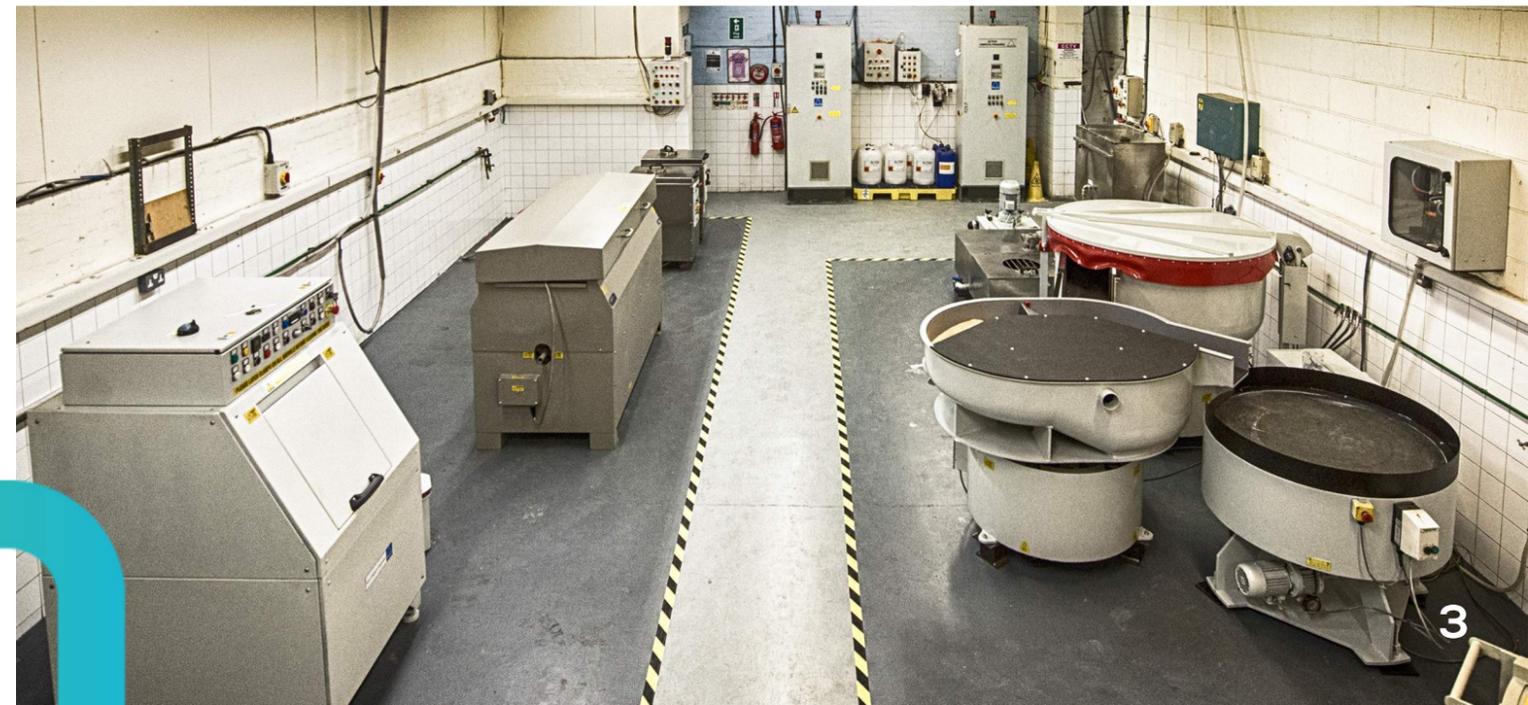
The first e-book responds to the 7 most asked questions related to Mass Finishing:

1. What is Mass Finishing?
2. What can I achieve through Mass Finishing?
3. What can't be done?
4. What type of Mass Finishing process can I use?
5. Can I finish any components?
6. What technology do I need to Mass Finish my parts?
7. What are the advantages of using Mass Finishing?

We believe that by sharing our knowledge with our customers we can help you better understand the finishing process which will add value to your operations.

What is Mass Finishing?

- Mass Finishing is a process that automates the mechanical and chemical finishing of various shaped parts.
- A combination of media, parts and compound are placed in a finishing machine. The vibrations cause the contents to move in a circular motion and the media to grind against the part to get the desired finish.
- This stage in the manufacturing process of components, allows large numbers of parts to be finished simultaneously.
- The process can be wet or dry and can run with or without media.
- Mass Finishing techniques are usually implemented in the manufacturing processes for the economic advantages, and the consistent results achieved.
- ActOn's Mass Finishing solutions improve current processes, achieving the repeatability and quality desired by manufacturers.



What can I achieve through Mass Finishing?

The aim of this process can vary based on the type of application:

- Deburring
- Removing heat treat scale, coatings, grease, oil
- Cutting down / blending of cast / forged surfaces and split lines
- Stress relieving
- Removal of tooling marks
- Pre-plating and anodising
- Generating unformed radii on component edges
- Removing cutting / machining lines
- Removal of surface defects
- Cleaning
- Smoothing
- Polishing
- Brightning
- Drying
- Corrosion Protection
- Super-Finishing

What can't be done?

- Small internal bores/ blind holes cannot be deburred/ polished etc.
- Material removal from selective areas (unless protected by mask)
- Heavy burr removal (parent material) – this would be rounded only

What type of Mass Finishing process can I use?

- Continuous Systems: Parts enter at one end and are continually discharged at the exit in the finished stage
- Batch Systems: Parts are processed by batch. Once one batch is processed, it is removed and the next batch is run.
- Sequenced Systems: Running parts through multiple processes to produce the desired finish.
- Single Part Systems: Large parts are processed individually.

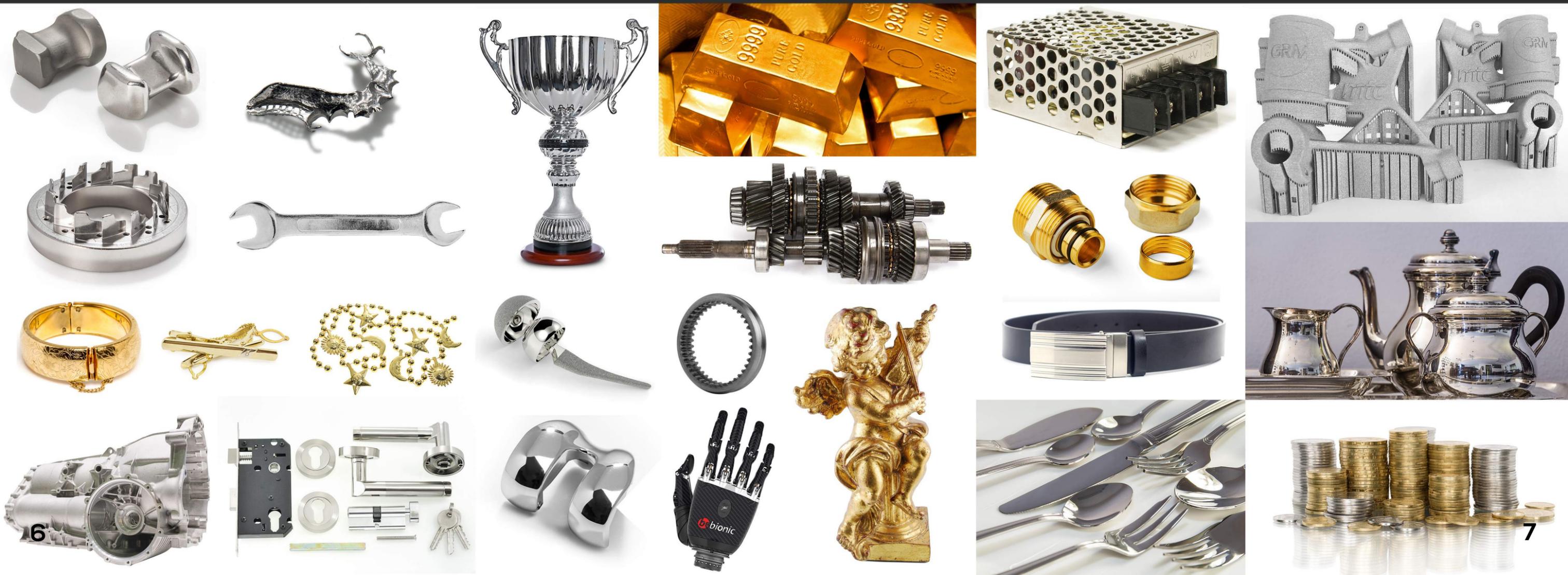


Can I finish any component?

Using our Mass Finishing technology you can process components:

- Of any size and shape
- Made of ferrous materials such as carbon steel, hardened steel, iron and stainless steel
- Made of non-ferrous materials such as aluminium, brass, ceramic, copper, magnesium, plastic, titanium and zinc

We have also developed finishing solutions that apply to various industries such as Aerospace, Automotive, Coin Blanking, Fashion, General Engineering, Hospitality, Manufacturing and Medical.



What technology do I need to finish my parts?

The recipe to achieve the required surface finish involves using the correct finishing machinery, media and compound.



Finishing Machine
Vibratory Finishing Machine
High Energy Finishing Machine
Automated System

Media
Ceramic & Plastic Media
Agro & Pre-treated Media
Special Media



Compound
Liquid Compound
Powders & Pastes
Special Compounds

What are the advantages of using Mass Finishing?

- Reduced processing times in comparison with manual finishing
- Lower cost per part
- Producing repeatable and quality finish on all products
- Environmental friendly
- Finishing solutions can be customised to suit user applications
- Parts of any shape, size and material can be mass finished



Need more information?

Visit www.acton-finishing.co.uk to learn more about Mass Finishing technology and solutions that we offer. Alternatively call our technical team at +44 (0) 24 7646 6914.

we redefine

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