

Alliance Technologies

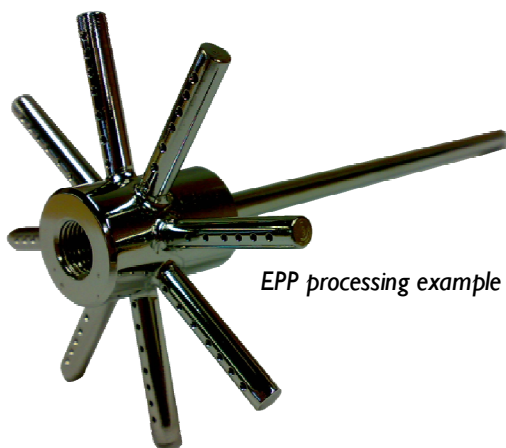
The answer to *All Technological challenges*

www.the-alliance.eu

Plasma Polishing – EPP

To comply with the high standards and demands of our clients, a number of processes for applications on micron-scale are developed on our own account. One of these systems is EPP (acronym of Electro Plasma Polishing) which is particularly suitable for **deburring and high-gloss finishing of peculiar shaped metal objects**. EPP ensures the finest finish without stressing the object (i.e. no physical force is applied to it during the procedure). This method was originally developed to deburr and polish delicate high-accuracy mechanical parts.

The objects are submerged in a liquid which under the influence of a high voltage allows for a plasma to form on the surface of the metal. The plasma forms on all surfaces in the fluid, therefore the **interior surfaces are affected by the process as well**. Consequently only one treatment is required for most items.



EPP processing example



The advantages over conventional methods:

- Suitable for Titanium, Aluminium and Stainless steel
- Polishing and deburring of both inner and outer surface, dimensionally stable
- Hardens the surface and enhances the resistance to oxidizing
- Grease and dirt are removed as well as superficial corroded areas
- No physical force is applied, hence the shape of the object is not distorted, particularly relevant for delicate parts
- The procedure does not release any dust-particles and moreover does not require an acid

Are you interested to test EPP on your products or require more information?
Visit our website or contact us using the information below.

Alliance Technologies B.V.

Hidalgoweg 6, NL-8938 BA LEEUWARDEN

Tel (+31)58 2895 918 **Fax** (+31)58 2895 899 **E-mail** info@the-alliance.eu

Web www.the-alliance.eu **Trade register** 01119188