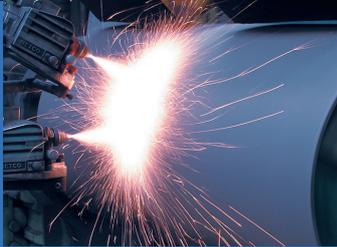
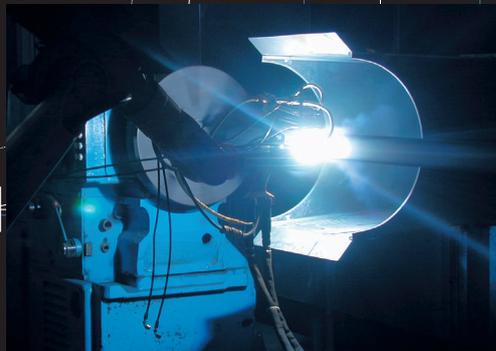


Habets

INDUSTRIAL COMPONENTS & SURFACE TECHNOLOGY



Habets makes the difference



A world of difference

There is often a world of difference between the old and the new – a difference in quality and reliability as well as functionality. This applies to many things, and it also applies to the expensive components which keep your production processes up and running. When these components reach the end of their normal lifespan, you generally have two options: making a major investment and replacing them or investing significantly less and having them reconditioned by a company specialised in this kind of work – a company that has built up an excellent reputation since 1944 as a leading supplier and service partner in the world of industrial components and surface technologies. Welcome to the world of Habets Industrial Components & Surface Technology.

We are a globally oriented organisation with over six decades of experience in metal machining, machine building, and reconditioning large industrial components. We also have over 40 years of experience with thermal spraying processes for extending the usable lifespan of components and have been active for many years as a producer and service partner for customer-specific process rollers such as conveyor belt rollers, transport rolls and guiding rolls. In themselves, these three areas of activity are not that unusual, but the fact that we carry out all three under one roof makes us a unique partner in the industry. Thanks to this combination and our extensive track record, we can make a difference for you as well!



Habets has been a leading specialist in machining and/or reconditioning large and complex industrial components for decades.

Meeting and surpassing client expectations

Cost containment, extending tool life, quality, short delivery times, and excellent reliability are the most important reasons why our clients call on our expertise – clients who value our services even more when large and complex industrial components are involved. “Large, heavy, long and round” are our bread and butter. After all, our ultra-modern machine park is designed to handle these and more. The same is true of the approximately 65 professionals working with these machines – a good mix of experienced workers and enthusiastic younger ones, all of them with a “heart of steel.” They bring a passion for excellence and an eye for detail to their daily work, regardless of whether it involves

machining completely new parts or reconditioning worn-out components.

Thermal spraying can be part of the reconditioning process. It is a technology for extending the lifespan of industrial components, and we have specialised in it for over 40 years. We are proud to have become the first Dutch company that was awarded full GTS certification for HVOF, combustion powder, combustion wire and atmospheric plasma spraying. This certification is a quality hallmark awarded by the prestigious German association of thermal spraying companies, which has a great many leading European companies among its members.

Our unique combination of expertise in thermal spraying and (large-scale) machining processes makes us a valued partner in the following industries:

- steelwork and mills
- paper and printing
- chemical/petrochemical
- textiles
- offshore
- automotive
- trans-shipment
- ceramics
- dredging
- shipping
- energy

In each of these industries, we have the same goal: providing the very highest quality in terms of products and services. Our clients, mostly organisations dependent upon continuous operational processes, expect nothing less and deserve nothing less. Downtime is very expensive, so it is only logical that they demand predictable and reliable levels of performance in order to guarantee the continuity of their processes. For our part, we continually aim to not only meet but surpass their requirements and expectations in terms of product quality, cost and delivery time. To help realise this, we work on the basis of a quality management system which is ISO 9001:2000 certified.



Thermal spraying unknown becomes unprecedented

Although the technology of thermal spraying is still relatively unknown, it has been in existence for over a century. In 1882, the Swiss Max Ulrich Schoop submitted his first patent application for a technique based on the melting of wires in a modified "pistol." Since then, the development of various spraying technologies has gone through a great many phases. We have been closely involved in these developments for over four decades, and look forward to sharing our experience and expertise in this area with you. Once you become familiar with it, we are sure you will no longer view it as an unknown but rather as a technology that can provide unprecedented benefits.

Combining technologies

Thermal spraying: the strongest link

Thermal spraying technology uses energy to heat the material to be sprayed, in wire or powder form, until it approaches its melting point, after which it is converted into a spray. Compressed air or a detonation is used to spray the melted particles onto the workpiece, which is thereby covered with an extremely long-lasting and wear-resistant metal, ceramic or hard metal coating. This technology greatly extends the usable lifespan of machine components which are sensitive to wear and tear, corrosion, chemicals etc. In addition, thermally sprayed-on coatings can be used to make dimensional

corrections. This means that we can restore your component to its original specifications with a very high level of accuracy. Finally, thermal spraying also significantly improves the surface quality of the part that has been sprayed. For example, a process roller that has undergone thermal spraying is much less likely to damage your products. Regardless of whether they find use in the steel industry, chemical industry or paper industry, the components treated by us are always the strongest link in the chain.



Thermal spraying offers unprecedented possibilities when it comes to extending the usable lifespan of machine components and/or carrying out dimensional corrections.

Our thermal spraying processes:

- Autogenic (metal coatings for dimensional corrections or protection against corrosion)
- Plasma (ceramic coatings to improve corrosion resistance and wear resistance)
- Electric arc spray (repairs, zero layers)
- HP HVOF (carbide coatings to increase wear resistance)

Large-scale machining: our world

Our company is very much at home in the world of large-scale machining processes. Over the years, what originally began as just a few machines in a shed has grown into a highly specialised and complex operation that includes CNC turning, milling and boring, grinding etc. We are equipped to handle a very wide range of sizes and shapes, from components that are many metres in length to parts weighing many tonnes.

Horizontal CNC turning up to:

- 8000 mm
- Ø 1600/1260
- 35/50 tonne

Vertical carousel turning up to:

- 1940 mm in height
- Ø 3600
- 25 tonne

CNC milling/boring up to:

- 8000 mm in length
- 2000 mm in height
- 1000 mm working width/ depth
- 25 tonne

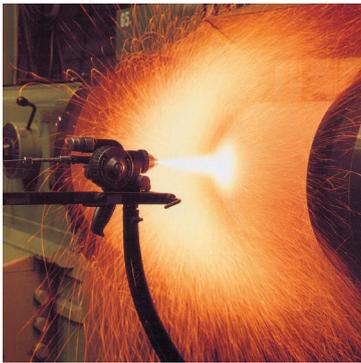
A powerful combination

Of course, there are many others who, like us, are specialised in machining processes, although few can process components as large and heavy as we do. Of course, there are also many others with expertise

in thermal spraying processes, although few come close to matching our quality. But what really makes us unique is the combination of both these specialisations under one roof. It is this combination which enables us to provide our clients with a great deal of added value when it comes to manufacturing, repairing and servicing industrial components which have a lot to endure within their production processes – from bearing blocks to process rollers and from rolls to drive components.



Well worth the effort



Thermal spraying

This process roller for a zinc line in the steel industry was equipped with a hard metal coating. The result: the client could be sure that the component would continue to retain its excellent characteristics in terms of wear resistance and surface quality for an unprecedented period of time.



Industrial components

This planetary carrier transfers wind energy to a generator. A high level of dimensional precision in combination with large size is essential for ensuring that this critical component of a windmill can function optimally.



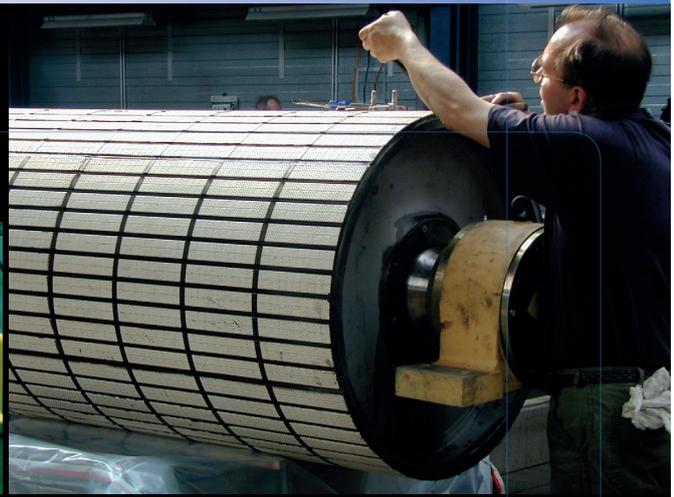
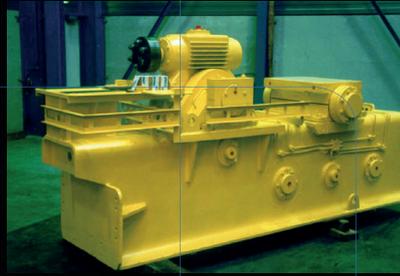
Like new

This built-in element, thought by some to be "finished", was completely reconditioned. After pre-treatment, thermal spraying, and final treatment, your component is returned to you quickly and as good as new but for a fraction of the original price.





Expensive machine components are given a new lease of life after a thorough reconditioning and the application of a thermal coating.



Why Habets?

Having us recondition or machine your critical and expensive components provides you several benefits, the most important of which are:

- Extending tool life**
 By applying a thermal coating, we can significantly extend the tool life of your components, as they become more resistant to wear and tear, corrosion and chemicals.
- Cost savings**
 Our highly effective solutions for dimensional corrections and improvement of surface quality have a significant effect, in the short term as well as long term, on reducing the cost of your production equipment, increasing your output, and greatly reducing the risk of damage to your products.

- Short delivery times**
 Whereas waiting times for components that are difficult to obtain can sometimes extend to years, we recondition your components so that they are as good as new and often even of better quality in a fraction of that time.

This brochure briefly describes some of the ways in which we can be of service to you. If you would like more information or are interested in one or more of our special areas of expertise, please feel free to contact us via +31 (0)45 – 565 63 00 or via: sales@habets.nl.



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