

## CERAMANT® is specialised in wear protection of machine parts for the pulp and paper industry

**Ceramant®** focuses on wear protection of machine parts for the pulp production and waste paper preparation.

Parts that are produced, processed

or repaired by Ceramant are characterized by a long life time and highest effectiveness.

Ceramant®-coatings are always adapted to the customer requirements.

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The thickness of Ceramant®-coatings is always adapted depending on the maximum allowed wear pattern.

## Pulping and Screening Aggregates

### Rotors

#### New / retrofit

Ceramant® produces all common types newly according to samples. Regarding efficiency and profitability, these rotors exceed almost all existing products on the market.

Reparation based on original geometry. New or coated parts produced by Ceramant® can be repaired very reliably in later cases of service. Even after several repairs, Ceramant® processed parts always have a comparable quality to new parts.



### Screen plates

#### New / retrofit

New parts, produced according to samples, are retrofitted with massive high performance edges which are attached in robot technology and guarantee highest durability, efficiency and life cycle.

Retrofitted screen plates by Ceramant® achieve at least the performance of new parts. Usually, a reparation of the screen plates is possible. Screen plates are very expensive and are often knocked out in the early stages due to failure of the edges. Even for retrofitted screen plates, Ceramant®-“high performance edges” assure a considerably longer operating period.



## Wear Protection - Pressure Screen

### Pressure Screen Rotors

#### Retrofit

In most of the cases, the rotors are coated with the Ceramant®-Ceramic CD1 or CDH (Ceramant®-Detonation-Hybrid) wear protection. This leads to a higher economic efficiency. Dynamic balancing in two levels is a standard.



### Screen Baskets

#### Wear protection / retrofit

With the special Ceramant®-procedure it is possible to coat new and used screen baskets with a wear protection. Irregularities of the slot width of a used basket can be corrected up to the accuracy of a new one. With this procedure, the retrofit basket will not only have an excellent accuracy, but it will also reach a longer life time.



## Wear Protection - Stock Pumps

### Pump Rotor

#### Retrofit

The used parts are measured and analyzed on possible crack formations. After that, the geometry of the impeller will be repaired with original material close to the nominal dimensions.

A considerable advantage compared to a new impeller is the application of the CS2® at the working edges. The life time of the retrofitted impeller will be correspondingly longer.



before retrofit

after retrofit

### Pump Housing

#### Retrofit

Based on various technological production possibilities, Ceramant® is able to offer the retrofit of casted stainless-steel pump housing as a very economic and special service.



### PulSint® Technology

#### Wear Protection

Unique and revolutionising technology for retrofitted pump spare parts. A highlight of this technology is the possibility to reprofile worn pump walls with significantly better wear qualities than original spare parts. The coating material is attached to the worn part to the final shape, in a powder metallurgical application. The 100% homogenous compound of the coating material to the basic material is guaranteed by a gas-sinter-process.



### Press Screws

#### New / retrofit

Ceramant® offers wear protection and services for standard reject press screws up to inside steam heated special screws. Complex screw geometries are coated in numerous variations by mathematically programmed robotic systems.



## Wear Protection - in General

### Bed Knives

#### New / retrofit



### General Components