

# BUSINESSCASE

## JULIUS KLINKE



**JULIUS KLINKE**  
Präzisionsdrehteile  
Klavierbestandteile

## Optimised production flow with DST-DEGREEZ®

Julius Klinke Präzisionsdrehteile Klavierbestandteile manufactures simple as well as complex precision turned components of all appropriate materials and in all sizes up to Ø65mm on automatic bar machines and up to Ø250mm on face lathes. The products are available with all heat treatments and surface treatments. Castings and forgings are processed and modules are mounted.

For further information visit: [www.julius-klinke.de](http://www.julius-klinke.de)

Julius Klinke manufactures simple as well as highly complex precision turned components. Large amounts of oil or emulsions are used for turning components in the high-tech machines. Having processed the components, it is important to wash them quickly in order to prevent the oil or emulsion from drying.

Washing takes place in two continuously running plants. Before changing to DST-DEGREEZ®, the washing plant included an Aquaclean evaporator

**DST DEGREEZ®**

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with a thermal performance of 18kW. Both washing plants had a bath temperature of 80°C. The process also included very arduous, manual handling of used degreasing products. Trial and error methods were often needed adding different agents just to achieve a fairly satisfactory result.

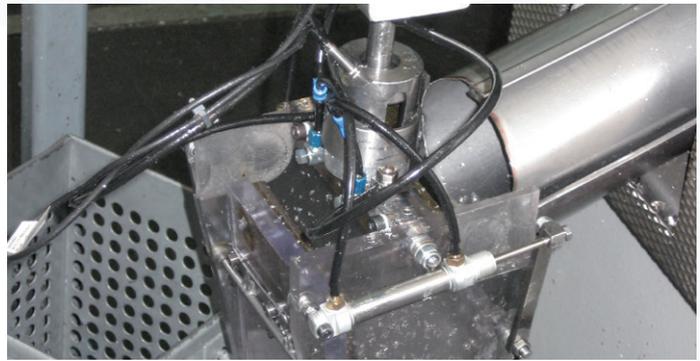
The big bottleneck at the washing plants occurred during the bath change which could easily take up to two days. First the water had to be cooled from 80°C down to a temperature where it could be disposed of. The entire washing machine then had to be cleaned and new water filled which then had to be heated to 80°C. The inevitable happened during the long process: the oil and emulsion dried on the components ready to be washed which resulted in many re-washes. The long wait often also caused rejects of brass components in particular. When the washing machines were finally running again, the many re-washes of dried-up components resulted in additional washing delays of new components. This meant that a bath change could result in delays of several days; and the bath had to be changed every 6 to 8 weeks!

## AFTER THE CHANGE TO DST-DEGREEZ®

At Julius Klinke, there will be no more components with dried-up oil and emulsion as a result of a prolonged and highly elaborate process in connection with bath change. At the same time, quality will not be compromised and the washing process is now fully stable.

Production manager Udo Nattermüller heard about DST-DEGREEZ® in early 2007, and the conversions of all washing plants were soon completed. Despite the increased use of DST-DEGREEZ® products, the results are obvious: the quality of the washed components is constant and unrivalled. The product is now being dosed automatically with the water. No more dried-up oil and emulsion as the bath change takes only a few hours.

Production manager Udo Nattermüller's biggest wish has been fulfilled: stable washing process and thus stable production flow. An indirect result of this is that several shifts are possible, without any cleaning technical problems.



## FACTS

- The temperature has been lowered from 80°C to 45°C
- Bath lives have been extended significantly
- The evaporator has been turned off and an oil skimmer mounted
- Huge water savings
- Unrivalled and constant quality
- Stable washing process

## STABLE WASH PROCESS

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