



**PULVER
BESCHICHTUNG
SCHREINER**

Pulverbeschichtung Schreiner • Auf der Höhe 5 • D-36323 Grebenau

Pulver Beschichtung Schreiner GmbH & Co. KG
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Fa.
LOFT Anlagenbau und Beratung GmbH
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The following criteria were of particular importance to us when we decided to obtain a new process water processing unit in 2002:

- low operating costs
- minimum personnel requirements
- water recovery and reuse of the distillate produced
- low water content in the concentrate and therefore minimum disposal costs
- high availability of the system
- environment-friendly process
- least possible use of chemicals

Following extensive screening in the marketplace, we decided to acquire an evaporator from Messrs. LOFT based on economic reasons and positive experience reported by other companies.

From the very beginning it was evident that with LOFT we had found an expert and dedicated supplier. Along with supply of the evaporator, LOFT was given the task of integrating the existing components (the tanks, monitoring technology and deionization system) in a new process configuration. In addition they were entrusted with modernizing the complete control system including PC-operated process visualization. All conversion work had to be carried out during shutdown of the line on weekends.

Following joint preliminary planning the decision was made to replace our existing chemical-physical processing system with a LOFT DESTIMAT® LE 1000 evaporator providing a nominal processing capacity of 1000 l/h. Both the wash water and all rinse waters had to be processed from a total of three pretreatment stations.

Detoxification of the chromium-polluted wastewater was done prior to processing as was previously the case with the C/P system. The distillate produced is recycled back into the process. The effective evaporator capacity attained over a year's operation averaged 1051 l/h! The wastewater blend (wash water and rinse water) is concentrated by a factor of 33, i.e. a concentrate amounting to 3 % of the original volume must be disposed of.



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Based on the costs saved from the C/P unit previously employed, the LOFT unit paid for itself in less than 2.5 years time.

Since the conversion to LOFT evaporator technology, no more fresh water consumption is required for the pretreatment unit. Rainwater collection is sufficient to replenish any water losses caused by vapour release and entrainment.

The new process design installed is extremely ecologically friendly as evidenced by the recycling of the distillate back into the process and minimal use of chemicals (e.g. in cleaning).

By means of this letter we would like to thank you again for the extremely successful cooperation with your company. All performance capacities and results promised to us were fulfilled or exceeded. We can readily recommend working with you.

Sincerely yours,

Harald Schreiner
Managing director

A large, stylized handwritten signature in black ink, written over the printed name and title.