



CASE STUDY

GRANULDISK POT AND PAN WASHING AT HOTEL KÖNIG LUDWIG SCHWANGAU; GERMANY

# 56.3%

**WATER SAVINGS** IN THE KITCHEN

**GRANULDISK®**

# JUST ADD LESS WATER.

## SUMMARY

Before:

- Manual pre-rinsing in sinks and soaking, followed by washing in a standard pot & pan washer without Granules
- Daily water consumption of 1 977 litres

After:

- 60 washing cycles daily with GRANULDISK® Granule Smart Machine
- Daily water consumption of 844 litres

Result:

- 56.3% less water used in the scullery
- Savings of 395 000 litres of water annually
- The work load is reduced and the job quality increased for the staff



### THE SITUATION BEFORE.

The ware to be washed (pots, pans, GN containers, baking trays) was pre-rinsed and soaked in two sinks and then subsequently washed in a standard water-based pot & pan washer. This often involved very dirty utensils being soaked for several minutes and then being vigorously scrubbed with a wire sponge until almost completely clean, before they could then be washed clean in the pot & pan washer.

This existing washer was already very old and its operation resulted in high maintenance and energy costs.

The water consumption was measured for a week at an average hotel occupancy rate of 75% and then extrapolated for the entire year.



### THE SITUATION AFTER.

A hygienically clean sink without the accumulation of food rests from dirty pots and pans; eases the work pressure on employees thanks to the fact that the innovative Granule washing from GRANULDISK® allows them to wash up to 180 dirty and burned-on GN containers an hour.

Approximately 60 washing programmes are run each day, using no more than 840 litres of water; this corresponds to a water saving of 56.3%.

## Active commitment towards achieving economic and environmental sustainability

As early as the 1990s, the first steps were taken within the hotel industry in order to work towards improving economic and environmental sustainability. The main focus was directed on the costs and water wastage that the washing of countless towels entailed. Today, almost 30 years later, there are now a wide variety of different environmentally friendly initiatives in place to reduce the environ-

mental footprint ranging from the recycling of rain water for use in toilets and for watering plants, through to the use of the sun and wind for energy generation.

Thanks to customers' positive feedback and the industry providing a way to reward and certify skilled and enterprising hotels, the hotel industry has become a pioneer in environmental activities.



## LOOKING TO THE FUTURE.

A comprehensibly structured working environment helped by GRANULDISK® massively eases the washing-up process, which now no longer requires the additional use of pre-rinsing water, soaking or the manual scrubbing of the wash ware, but now only requires PowerGranules® to be added to the machine in order to guarantee a hygienically clean wash result in only 2 minutes.

Environmental sustainability is also an unavoidable must in the hotel industry, and can be achieved in the area of the washing-up of pots and pans with the help of GRANULDISK®; it has been verifiably shown that energy, water and chemical consumption have been halved and this allows us to look to the future with gratitude and a clear conscience.

*“The GRANULDISK® Machine is a far cleaner solution for us compared to constant scraping and soaking”.*

*Mr. Andreas Euler, Kitchen Manager at Hotel König Ludwig*

*“Purchasing a GRANULDISK® machine was a necessity for us in order to be able to effectively and quickly clean very dirty pots and pans, while also reducing the work load and increasing the job quality for our staff!”*

*Mr. Florian Lingenfelder, Owner and Managing Director of Hotel König Ludwig*

## WATER CONSUMPTION

(for pot washing annually)

Before: **702 000 litres**      After: **307 000 litres**

Costs before: **€3 160**      Costs after: **€1 380**



## WATER SAVINGS

# 56%

## ENERGY CONSUMPTION\*

(for pot washing annually)

Before: **27 628 kWh**      After: **7 407 kWh**

Costs before: **€4 140**      Costs after: **€1 110**



## ENERGY SAVINGS

# 73%

## CHEMICAL CONSUMPTION\*

(for pot washing annually)

Before: **1 808 litres**      After: **616 litres**

Costs before: **€2 930**      Costs after: **€1 380**



## CHEMICAL SAVINGS

# 65%

\*Consumption based on the water consumption.



## SEE FOR YOURSELF. **WASH THEM LIVE.**

*Book a free Live Wash demonstration and experience the Granules LIVE. Scan the QR code, go to [www.granuldisk.com](http://www.granuldisk.com) or contact your GRANULDISK® dealer for further information.*



GRANULDISK® pot washing machines use PowerGranules®, water and a small amount of detergent to mechanically scrub pots and pans clean. The blasting power combined with high temperatures washes **hygienically clean in a matter of minutes, using up to 90 % less water, energy and chemicals** than any other pot washing methods.

**A smart, sustainable and economic solution – eliminating pre-washing.**

GRANULDISK® pot washing machines are a Swedish innovation which have been on the international market since 1987.

**GRANULDISK®**