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**This Swedish washing robot will do the cleaning work in the European piggeries.**

**It works around the clock, it runs on battery power and it doesn't need a holiday.**

**The robot is at this time being introduced all over Europe and will do almost all of the worst cleaning work a human can do to but at a very competitive price.**

Washing and cleaning animal houses can be the worst, dirtiest and most unpleasant work areas in the agriculture sector. It is wet, heavy and filthy without any aid or personal protection – and this is the working environment of many of the staff presently working in pigsties.

The air is probably the worst; during an ordinary cleaning day with a high pressure cleaner the staff will be exposed to mites, fungal spores, many different types of bacteria and nitrogen compounds. Following a day of cleaning in such conditions cleaning staff often witness symptoms such as breathing difficulty, colds, nausea, high temperature and shivering.

- Jan Sandberg, whilst working as a fitter in such a location asked himself the question: Why let a human do such dreadful work if a robot can do the same?

Having asked the question he delivered an invention that is now a success story, already well established in the Scandinavian market and now the robot is being introduced throughout Europe. To know more about this wonderful invention you are recommended to visit Euro Tier in Hanover, one of the many international exhibitions where Clever Cleaner will be shown during this autumn.

- We are already receiving an extremely good response in the European markets where we have a presence. And we are proud and pleased that we can offer European pig producers this wonderful innovation 'Clever Cleaner', this breakthrough invention having been so successful in the Swedish market since 2001.

Clever Cleaner is fully automatic. Installing the machine means that the farmer teaches the robot to wash the room. This is done by manually washing the different pig pens with a joystick. When doing so, a computer in the robot monitors what is done. These pen-types are stored as numbers, which are put into a recipe that tells in which order the robot shall wash the pens in the room. When this is done, all the farmer has to do is telling the robot which recipe it shall use and start it. It is possible to store 235 different pen-types to be put in 60 different recipes. Experience shows that the robot will do about 80-85% of the manual cleaning and the rest is very easy to do. Maximum time between recharging of the batteries is 48 hours.

- A 'Clever Cleaner' robot is the perfect employee. A robot does not take a break for a smoke, does not need a holiday and it can work around the clock, says Sandberg with a laugh.



Besides wage reduction savings a customer purchasing the robot should consider other benefits such as a much an improved working environment, a more attractive and enjoyable place for work, healthier staff and opportunities for increased efficiency in production

The hygiene in the animal house is clearly seen as an important factor of growth in the animal production. Employees will also benefit from a much-improved working environment.

An improved working environment increases the possibly to better care for the animals allowing better health resulting in increased levels of productivity. A washing robot will do the work both more effectively and at a lower cost.

The price for a 'Clever Cleaner' in Sweden is about 30.000 Euro. Installation, support and education of the staff are included in the price. According to the calculations of Ramsta Robotics the investment of a robot is most profitable when the farm uses about 300 manual washing hours per year. The more hours used will give an even faster payback when calculated.

“A good working atmosphere together with the wellbeing of my staff means more to me then saving labour time. Instead of doing the awful and dirty high pressure cleaning, they can give the animals more attention” says Gunnar Carlsson, Lida Gård, farmer and a happy owner of a diligent washing robot.

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The inventors of the washing robot Clever Cleaner are Ramsta Robotics and the founders of the company, Jan Sandberg, Bjarne Graff and Anders Lif. The robot is developed and marketed through Ramsta Robotics in

Uppsala, Sweden. The Clever Cleaner promotes working as well as animal environment and animal health. Today the robots are used in pig houses, hen houses, and chicken houses and for washing concrete elements. The company are also looking at other ways in the other sectors of the industry to use the robot

