



De hurk diesels' modified DAF engines find application in cranes

De Hurk diesels is also renowned for its competence in the sale of special parts and components. It provides all additional parts and compo-

nents the engine needs for perfectly meeting the vehicle demands. If necessary, the company's skilled personnel develops own tailor-made

components in order to make the engine function properly in the machine.

Even though, De Hurk diesels is a family-run, medium-sized

company with twelve employees and an annual turnover of EUR 3.5 million, it excels in its range of products. The considerable increase in its annual turnover is a clear proof of de Hurk diesels' products and activities. In comparison to last year the company has already gained a plus of 20 percent in 2003.

"Our engines convince in quality, durability, reliability, and cost-savings due to innovative development and testing," explains Mr. Paulussen. The professional technical assistance on making the engine tailor-made according to own specifications is another reason why customers in the Netherlands and abroad increasingly make use of de Hurks diesels' full services.

The future prospects are promising and with specialised cooperation partners such as Cummins, de Hurk diesels will strive to extend its excellent market position. ♦

Tank cleaning with impact

Water has become precious, and all around the globe the effort of authorities, private consumers as well as industry to save valuable resources has resulted in an increasing research and development on new technology with the aim to cut the amount of water. At the same time, however, there are a growing number of safety and health regulations in order to guarantee optimal production processes with clean machinery. In the past, this paradox, a surplus usage of water to meet strict health and produc-

tion regulations, was the final result.

Cleaning machines are one suitable solution to this problem. The Dutch company ContratEch Group was set up in 1996 to produce and market the CyberjEt. This first computerised tank washing robot was the result of ten years of scientific research by IR.D.G.F. Verbeek, a tank cleaning engineer from the Technical University of Delft. In close cooperation with his partner, John M. Wijnveldt, the commercial technical consultant and owner of Contrat-



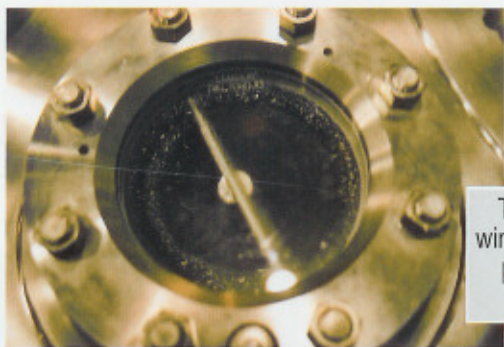
The movement of the rotating spray nozzle is able to adjust the cleaning medium in the tank through a programmed control

Ech, he invented a machine hitherto unseen.

The CyberjEt resulted from an enquiry made by the Dutch Ministry of Housing, Planning and Environment, which supported research on the question of cleaning bulk holding tanks of ships.

"The CyberjEt causes revolutionary savings on cleaning times and water usage," points out Mr. Wijnveldt. From the beginning the CyberjEt was an immediate success, and ContratEch had a brilliant start with this introduction of a validated washing robot.

In contrast to conventional cleaning machines, the CyberjEt, which focuses on cleaning internal surfaces of machines and tanks, has the lowest cleaning fluid consumption.



Through a glass window the cleaning process can be surveyed

The basis for full automatic cleaning is a controlled cycled cleaning process, done with a PLC and compatible with other control systems.

The robot has a motor-driven spray device, and with the two stepping motors a three dimensional movement is created. "The movement of the spray nozzle is independent on the pressure of the cleaning medium and is able to ad-

just the cleaning medium through a programmed control," explains Mr. Wijnveldt the technical details. "Consequently, everything can be cleaned with a varying degree of intensity, whatever and wherever this is required." This tank cleaning robot considerably reduces the amount of water, energy, and time.

There have been constant alterations on the CyberjEt and today it can be utilised in the food industry in branches such as breweries or dairies. "I am proud to say that now we also supply the chemical industry with this high-tech product", says Mr. Wijnveldt. By using nitrogen the CyberjEt blows

it has earned back more than EUR 100,000 of raw material.

Mr. Wijnveldt holds the worldwide patent until 2017 and ContratEch both produces and sells the CyberjEt on a worldwide basis.

Although the initial success of ContratEch is definitely based on the introduction of the CyberjEt, the company has concentrated on other products from international manufacturers. ContratEch distributes a selected range of quality pumps, i.e. the hygienic EHEDG assessed centrifugal pumps, manufactured by MDM PUMPS LTD, Pemo slurry pumps for abrasive and corrosive media, and Grosvenor chemical dosing pumps.

"You must concentrate on what you are good in," stresses Mr. Wijnveldt. And ContratEch has proved that it is doing well in its core competences: the supply of high standard equipment that contributes to a higher productivity and efficiency. But in all its activities the reduction of environmental pollution and the



The patented CyberjEt is utilised for the cleaning of tanks



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back the residuary substances such as powder. The payback time for the CyberjEt is very short. In Germany, a world wide renown global leader in the pharmaceutical industry makes use of this "nitrogen blower" and in six weeks time

preservation of valuable resources are central points. ContratEch's customers believe in this profound business mission and rely on a partner who offers all the necessary solutions to their problems. ♦