



Enzymes to turn nectar into honey. Heat transfer in the comb. Special ventilation technologies. Liquid gold. Just like with the black gold. Nature's art of achieving maximum heat transfer with minimum pollution.

BRONSWERK[®]

HEAT TRANSFER

Dynamic Heat Exchange Solutions

Oil

The Benefit of Know-how in Sustainable Oil Solutions



“ If anything in this life is certain and if history has taught us anything, it is that nothing is impossible. Bronswerk has undergone a transformation from producer to supplier of heat exchangers to consultant and systems thinker. An on-going development which allows us to create extraordinary machines has made us into experts in working with exotic materials and enables us to provide high-quality advice on complete systems. ”

Johnny Makhoul – Sales Engineer Bronswerk

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Bronswerk solves heat transfer and fluid-flow problems. We optimise existing processes and develop innovative products. This allows us to offer our clients the most efficient and advantageous solutions. Guaranteed to be sustainable and energy-efficient.

Bronswerk is to be found in the midst of global action. Both literally and figuratively. Our location in Nijkerk is ideally situated. Easily accessible by car and public transport. Our office breathes innovation. A high-tech creative environment, both for you and for ourselves. An inspiring environment that produces the best possible solutions.



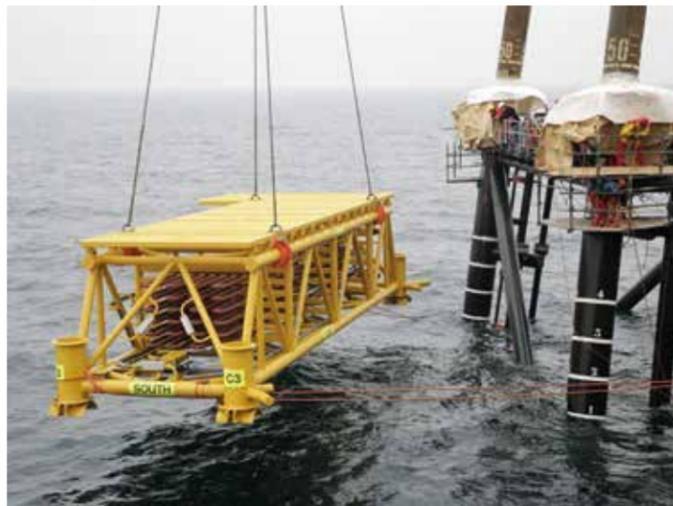
Oil. An amazing product. The black gold we extract and refine. The processing of crude oil is of utmost importance. Nobody knows better than you what you need to optimize your processes. And we know better than anyone else how best to help you achieve that. Innovators of equipment that makes extraction and refining even more sustainable and safe. Which include extraordinary features and splendid inventions. Using the most advanced technologies and state of the art know-how on exotic materials, we devise the best possible solutions for you.

Sustainability. Less raw materials. Less noise. Innovative. Advanced technology. High-tech inventions. CO₂ reduction... The fact that our planet should be cherished is something we keep in mind constantly. In everything we do. From development to implementation. Our solutions in oil extraction and refining are an example of sustainability.



Innovative Solutions for Globally known Processes

The Very Best Tools for Sustainable Oil Extraction and Refining



- Klarex®
- Compact Header
- Subsea Cooler
- EM Baffle
- Heat Exchanger
- Hairpin
- Bajonet
- Pipe-tube-sheet
- Steam Generators
- Waste Heat Boilers
- Separators
- Reboilers
- Preheaters
- Rod Baffle
- Twistedtubing

Klarex® technology

A heat exchanger that entrains solid particles through the pipes. These particles provoke turbulence so no dirt can settle. This ensures optimal heat transfer at all times. A sustainable heat exchanger which uses less energy. The pipes of conventional heat exchangers require very regular maintenance, but the Klarex® will operate trouble-free for many years. An installation in Japan, for instance, has already been operating for 20 years with no maintenance or shutdowns.

EM Baffle; co-flow vs counterflow

In conventional heat exchangers, dirt quickly settles in dead corners between pipes and partitions. Conventionally, the medium flows at right angles to the pipes, often resulting in flow induced vibrations. With the EM Baffle - developed in a partnership between Bronswerk and Shell - the medium flows parallel to the pipes. The special structural components between pipes and shell ensure maximum heat transfer. No vibrations. No fouling.

Compact Header; smaller diameter, lower pressure

The larger the diameter, the higher the stresses. Such stresses require thick walls. Our solution? The Compact Header. A reliable solution in which the wall size of the header does not have to increase when the design pressure increases. No welds, lower stress on the material, greater safety. Up to 50% lighter and easy to maintain. A significant innovation.

“ On floating platforms, the costs of the supporting structure are often more expensive than the equipment on it. The weight reduction (up to 50%) of the compact header heat exchanger provides a substantial saving on the supporting structure. How’s that for sustainable and economical! ”