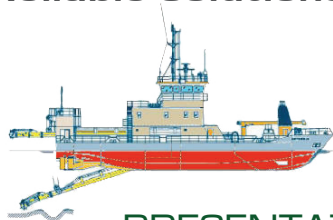


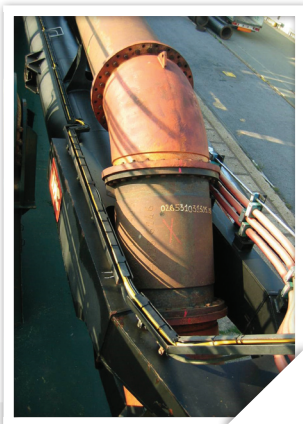
**TRECAR: REGISTERED TRADEMARK AND FILED PATENT**

**NEED TO EXTEND ELBOWS LIFE TIME ?**  
**TRECAR: Reliable solutions for your dredging projects**



**PRESENTATION**

TRECAR is a patent filed in 2006 by Société Nouvelle des Fonderies de Tréveray, now part of Groupe CIF.



It is about the manufacture of **bimetallic wear parts**, generally tubes, when the inside layer requires a resistance to high abrasion and the outside layer a strong mechanical resistance to shocks.

TRECAR is used for wear parts such as straight pipes, elbows, T's, Y's and hoppers' underwater suction parts. This method is required for reclaiming abrasive slurry during underwater dredging activities, for instance.

**UNIQUE EXPERTISE AND KNOW-HOW**

The **bimetallic part** is actually a casting designed in a mold, made out of sand:

- Outside layer is resistant to shocks and has very good mechanical properties

- Internal layer is 20mm thick min. made out of steel or high-chrome white iron, being very resistant to abrasion

TRECAR®



Pouring of the inside layer (called “armored” one)

Heat treatment being performed in order to reduce the hardness

Inside layer used as core box and installed in a mold, prepared for outside layer

Pouring of the envelope

Heat treatment of both materials in order to increase the hardness

## MANUFACTURING PROCESS

## UNDISCUSSSED AND PROVEN BENEFITS



- Improved mechanical properties
- Work hardening and hardness increase during first hours of use
- Optimized resistance to abrasion, constant on the whole inside layer
- More that twice as wear resistant (based on experience with dredging elbows)
- Stability: due to its narrow contact with “armored” layer, the low carbon steel envelope acts as a damper when shocks occur inside
- Strength: if inside layer cracks or breaks while dredging stones or very hard material, no spalling happens, thanks to the narrow contact between both materials

## Contact

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