

# Underwater Welding

Mobile diving station works with KAESER air

Diving - one thinks of floating weightlessly over dazzling coral reefs and exotic marine creatures. The day-to-day world of the professional diver is rather different but none the less varied.

Professional diving services are in increasingly high demand at present, a trend recognized by Frank Hagen two years ago when he established Industri-Dykk, in

Norway. The contract spectrum of the young company is wide, ranging from underwater repairs to sports boat propellers, through cleaning and repair of ships hulls to inspection of bridges and harbor structures.

"Here in Tananger, close to the oil port of Stavanger, ship and drilling platform repair forms the majority of our work," explains Frank Hagen. "For example, we weld cracks in ships hulls below the waterline, which saves costly dry-docking. We can also repair major damage without dry-docking by laying a patch on the outside of the hull, pumping out the water and then welding it from the dry inside."

room houses the KAESER SX 3 compressor, refrigeration dryer, air receiver and filter combination for breathing air and there is also space for the divers to make ready. The air generated is sufficient for two divers down to a depth of 50 metres. The second room is for the operation controller who is in continuous visual and audio contact with the divers via microphone, video camera and lights built into their diving helmets. A video recorder captures a record of their inspection results and underwater work.



***This truck houses the most modern diving station in Europe, outfitted with underwater welding and cutting gear, manual and air tools, first aid kit and oxygen set***



***Underwater operations are monitored and controlled from the control room while the compressor room houses the complete air generating and treatment plant***

## Most modern diving station design

Industri-Dykk brought their first diving station into service in 1998. It is based on a car trailer into which is installed the complete air generating and monitoring equipment. Weighing only 900 kg, the unit can be cheaply transported by small boat or helicopter. After only a year the order book was so full that a second station had to be bought. This second station, built onto a truck in accordance with Frank's detailed plan and comprising a complete compressed air facility, is the most modern diving station in Europe. The station is divided into two parts; the compressor room and the control room, and both are heated by waste heat from the compressor. The first

***The compressed air plant is installed in the front part of the mobile diving station***

