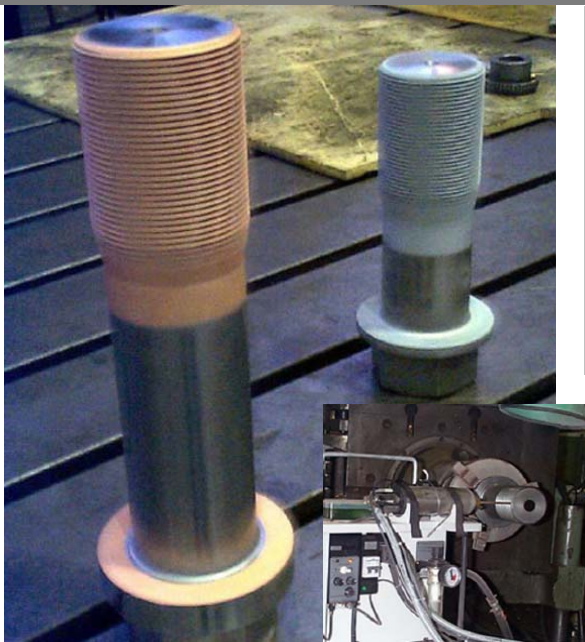




## Dymet Case Studies: Marine Industry

### Prevention of Frictional Seizure of Propeller Bolts



#### Testimonial:

#### Engineering Manager – Ship Building Company

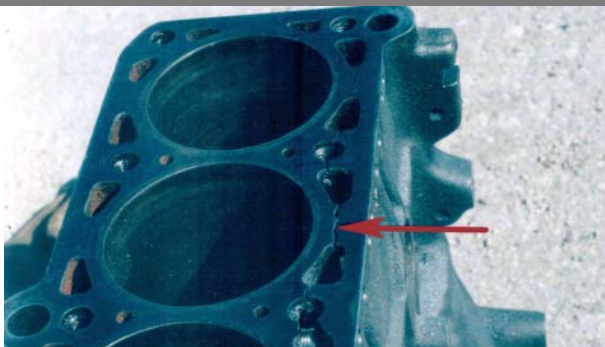
Dymet equipment is used in our company for anti-seizure coatings on threaded bolts that fix stainless steel propellers and propeller bosses...

... The Dymet equipment is reliable and simple in operation. In contrast to traditional technologies, such as thread nitriding and galvanic coatings Dymet does not require complicated and expensive techniques and significantly reduces production cycle.

To prevent seizure of stainless steel bolts that fix propellers and propeller bosses their threads are coated with zinc or copper composites. During the spraying process the bolts are rotated in horizontal boring mill to ensure even coating deposition.

Marine Industry

### Repair of Cast Iron Engines



A cylinders block had a crack along 3 cylinders. Welding might lead to distortion and further cracking. The crack was fixed with stell pins and then filled with aluminium powder.



The upper layer was coated with copper. The polished surface looks perfect. After repair the vehicle is working now for more than a year.

#### Contact details:

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Phone: 0411099404 or 0423154667 or Fax : +61 08 8 340 30 90.



## Dymet Case Studies

### Urgent Repair of Metal Equipment and Tools



It sometimes required to urgently repair a piece of equipment. In the present case a water tank had a corrosion hole of about 2 cm wide. The corrosion was removed by sandblasting with Dymet.



A piece of metal was used to plug the hole which then was sealed with aluminium powder. The deposited coating passed a thorough leak test.

### Repair of Sliding Bearings



A sliding bearing had a damaged surface of about 2 cm wide. The detached coating is removed and the defect edges are smoothed. The surface of the defect and the surrounding area are sandblasted with Dymet.



The treated area is sprayed over with babbit powder. A specially designed nozzle is used in this case. An excessive metal volume is created instead of a damaged layer. It is now only needed to turn the bearing to the required dimensions.

#### Testimonial from the Owner of ship repair company

Our enterprise's core business is repair of ship power and automation equipment, including electrical machines such as electric motors, generators, converters. After purchasing Dymet machine we were able to simplify the restoration technology: a preliminary turning of the parts is no more required, a 0.2 – 0.4 mm metal layer is deposited and then turned to a required size...  
... Currently we have 3 Dymet machines working in different workshops. We eliminated the transportation between our workshops of the equipment to be repaired and solved the problem with restoring of bearings seats.