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PROPULSION SERVICE CAPABILITIES

METALURGICAL REPAIR

- Dye Penetrant Testing
- Inspection of Blades
- Damage Reporting
- Crack Repair
- Heat Straightening
- Balancing by weight (Static Balancing)
- Blade tip renewal
- Blade tip insert welding, joint welding, clad welding
- Grinding & Reprofilng
- Stress Relief, Heat Treatment
- Laser measurement
- 3D Scanning
- Class Approval of the progress.

POLISHING OF BLADES

- Up to ISO 484 Standard – Class I
- Roughness ; 0,8 – 1,6 $\mu\text{m Ra}$.

CPP OVERHAUL

- CPP Blade Welding-Grinding-Polishing
- Blade seals Renewal
- Blade Foot machining
- Hub Overhaul to include all necessary machining activities on operational areas of yoke-hub-sliding blocks within the specified limits.
- O/D Box Overhaul.
- Power Pack Overhaul.
- Supervision Activities for Shaft withdrawal and coupling removal.

THRUSTER OVERHAUL

- Blade Foot O-Ring Replacement
- Shaft Seals – Top Seals renewal
- Bearing Replacement
- Blade Repair
- Blade Foot O-Ring Surface Machining
- Alignment check & clearance adjustment according to procedures.

PROPULSION EQUIPMENT E&A

- Automational Troubleshooting, Calibration and System Check activities of Propulsion Equipment.

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We as 'Dragon Engineering-Propulsion Services' are in a strong partnership with the main actors of Turkish Ship Propulsion Services Market, benefiting of the Specialized-Class Certified Workshops and the highest quality of workmanship who are professionally trained, highly skilled and certified on products of best known brands in industry. As well as our outsourced service possibilities we aim to supply a wide range of In-Situ Repair, Overhaul, Technical Consultancy and Advisory Services in a very near future.



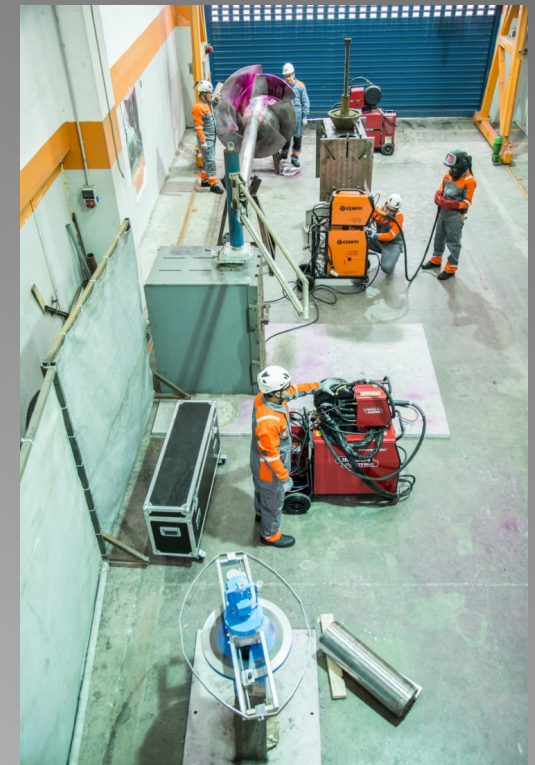
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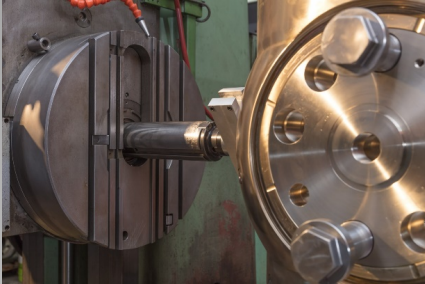
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Professional Welding Team with certification from several Class societies for different welding techniques are assigned for the welding repair activities. Various models of MIG/MAG/TIG welding machines with highest technology at different current-wire feeding and pulsation options are available for repair purposes.



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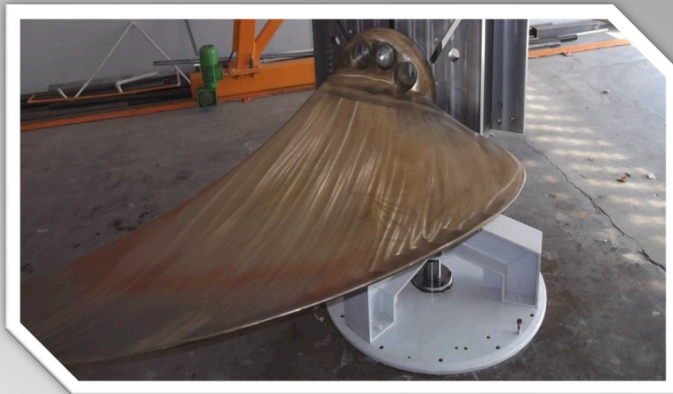
Machining repairs and Reconditioning Works are performed at Class Approved machining workshops to match the exact measurement and process quality standards.



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Static Balancing is performed at hydraulic operated special balancing tools for both CPP and FPP options with a loading weight capacity of 20 tonnes.



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Various thruster types, brands and models are processed according to manufacturer instructions providing the Class Approval Conditions and Technical Support from professionals having special licences for each measurement, inspection and overhaul activities as UT/NDT testing, 3D Measurement/ Scanning and for different Repair & Welding techniques

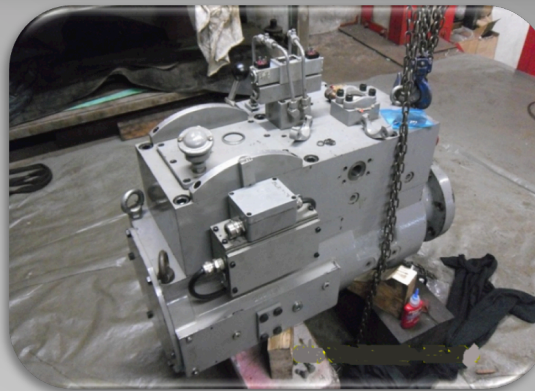


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Yoke Inspection



O/D Box Overhaul



Hub Machining

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Thank You !