1. **Crew Boat “FAST SERVER”**
   - **Prime Mover**: 4 x Caterpillar 3512C-HD, 1,678 kW each at 1,800 rpm
   - **Reduction Gear Unit**: 4 x ZF 7600, 2.5:1
   - **Propeller**: 4 x dia. 56” x pitch 58”, 4 blades
   - **Control**: ZF Premium ClearCommand
   - **Owner**: Edison Chouest Offshore, USA

2. **Crew Boat “RAPID-GEE”**
   - **Engine**: 1 x Wartsila 16V4000M73L, 2,800 kW at 2,050 rpm
   - **Reduction Gear Unit**: 4 x ZF 9050NR2H, 2.4:1
   - **Bow Thruster**: 2 x ZF AT 2011 RT-FP, retractable azimuth thrusters, 150 kW each at 1,500 rpm
   - **Shipyard**: Strategic Marine, Vietnam
   - **Owner**: Rashied Maritime Services, Egypt

3. **Crew Boat “KERSHIA”**
   - **Prime Mover**: 3 x Yanmar 12AYM-WET, 1,140 kW each at 1,840 rpm
   - **Reduction Gear Unit**: 3 x ZF 5000, 2.963:1
   - **Control**: ZF ClearCommand Controls
   - **Shipyard**: Strategic Marine, Vietnam
   - **Owner**: Rashied Maritime Services, Egypt

4. **Crew Boats “BA YCORP ALAI / KELANG / SUBANG”**
   - **Bow Thruster**: 1 x ZF TT 1001 ALU-FP, tunnel thruster, electric driven, 60 kW at 1,800 rpm
   - **Shipyard**: NGV Tech, Malaysia
   - **Owner**: Gagasan Offshore Fleet, Malaysia

5. **Crew Boat “RARIO-3”**
   - **Prime Mover**: 4 x Cummins QSK 60-M, 1,864 kW each at 1,900 rpm
   - **Reduction Gear Unit**: 4 x ZF 7600 NR2H
   - **Shipyard**: Austal, Philippines
   - **Owner**: Abu Dhabi National Oil Company (ADNOC), UAE

6. **Crew Boat “RAPID-GEE”**
   - **Prime Mover**: 4 x Cummins KTA38-M2, 1,007 kW each at 1,900 rpm
   - **Reduction Gear Unit**: 4 x ZF 3055, 2.952:1
   - **Owner**: Zhanxiang Marine (Dalian), China

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**References**

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**Crew Boat Applications**

Marine Propulsion Systems

ZF Asia Pacific Pte. Ltd.
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Fax: +65 6773 7537
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Transmissions

Designed for crew boats and vessels with high performance demands, backed by ZF Group’s 100 years of expertise in transmission products, ZF Transmission highlights include:

- **ZF SUPERSHIFT II** – smooth, fast, reliable and efficient shifting system
- **ZF AUTOTROLL®** system for low speed and smooth operations
- Dynamic positioning compatible
- Lightweight and sea-water resistant aluminum housing
- Precision ground and case-hardened gears for smooth, efficient running
- Compact and space-saving design
- “E” type hollow shafts with high load bearing capacity, lightweight and sea-water resistant aluminum housing
- PTOs and hybrid-ready PTO / PTI solutions
- Approved by class societies

**Fixed Pitch Propellers**

ZF Fixed Pitch Propellers provide the highest performance and quality with our custom design, allowing 15% operation fuel saving and 10% faster vessel speed compared to conventional propellers, up to 40 knots. The most in demand models for crew boat applications are our CrewMaster, WorkMaster and SpeedMaster series with specific section profile.

Together with our well established partners, ZF delivers a customized and complete shafting package. Our knowledge extends beyond design, selection and manufacturing, providing you a worry-free one-stop solution.

**CruiseCommand/ Premium ClearCommand**

Designed specifically for vessels with electronic engines and transmissions and supporting up to four control stations, CruiseCommand is ZF’s most popular control system for crew boats. Standard features include: warm-up mode, station transfer, single lever operation and engine synchronization. Advanced features like Dynamic Positioning and joystick interface, multifunction display etc, are available with Premium ClearCommand.

**Tunnel Thrusters / Retractable Azimuth Thrusters**

ZF 1000 and 2000 series Fixed Pitch Tunnel Thrusters are available in aluminum gearbox and tunnel for crew boat requirements, up to 200 kW, hydraulic ready and available in both L-Drive and Z-Drive. Option of removable arrangement by means of an elastic tunnel support is available, thus isolating the tunnel from the hull and reducing the structure borne noise significantly.

ZF Retractable Azimuth Thrusters are an alternative solution for enhancing the station keeping capability in larger crew boats and fast intervention support vessels.

**Fixed Pitch Tunnel Thrusters**

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. Power kW</th>
<th>Max. Power hp</th>
<th>Propeller Dia. m</th>
<th>Tunnel Outer Dia. m</th>
<th>Tunnel Wall Thickness mm</th>
<th>Tunnel Length Stand. mm</th>
<th>Tunnel Type</th>
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<tbody>
<tr>
<td>ZF TT 1000 FP</td>
<td>100</td>
<td>134</td>
<td>600</td>
<td>24</td>
<td>660</td>
<td>26</td>
<td>L-Drive</td>
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<tr>
<td>ZF TT 2000 FP</td>
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<td>268</td>
<td>700</td>
<td>28</td>
<td>760</td>
<td>30</td>
<td>L-Drive</td>
</tr>
</tbody>
</table>

*Rating subject to classification and application