

## 8.1S HORIZON

► **Specifications**

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### 370 HP INBOARD FUEL-INJECTED



▼ **Features**

<ul style="list-style-type: none"> <li>• Horizon™ engines come with 3 years of factory-backed product protection (standard 1-year warranty plus 2 years of extended Mercury Product Protection through the Mercury factory-administered program).</li> </ul>	<ul style="list-style-type: none"> <li>• Maximized exhaust riser height within the available package envelope (additional two inches over previous big blocks) and increased down-angle improve resistance to water ingestion.</li> </ul>
<ul style="list-style-type: none"> <li>• MerCruiser® MPI engines with SmartCraft® feature the most sophisticated boat/engine data-management system available. This system monitors up to 64 internal and external functions and continuously adjusts the engine operations for optimum performance.</li> </ul>	<ul style="list-style-type: none"> <li>• MerCruiser-exclusive water drain system – an air-actuated, single-point interface to two drain points – provides a fast, convenient means of draining water from the engine.</li> </ul>
<ul style="list-style-type: none"> <li>• PCM 555 engine control module uses a Motorola®-supplied microprocessor for unprecedented onboard computing power. The Mercury®-exclusive 555 control module serves as the central component of the SmartCraft Controller Area Network (CAN).</li> </ul>	<ul style="list-style-type: none"> <li>• The innovative water drain system effectively enables boaters to extend their boating season into the cold months.</li> </ul>
<ul style="list-style-type: none"> <li>• Mercury-exclusive PCM 555 processor optimizes fuel mixture, knock control and ignition timing independently for each cylinder, resulting in improved, precise performance. PCM 555 also enables the connection of SmartCraft components.</li> </ul>	<ul style="list-style-type: none"> <li>• Developed to increase durability particularly in saltwater environments, the Horizon engines feature closed-cooling with long-life coolant.</li> </ul>
<ul style="list-style-type: none"> <li>• Distributorless ignition system improves timing accuracy and eliminates mechanical timing adjustments.</li> </ul>	<ul style="list-style-type: none"> <li>• Forged-steel connecting rods improve strength and durability.</li> </ul>
<ul style="list-style-type: none"> <li>• Engine Guardian™ proactively monitors and protects your engine from the damaging effects of low oil pressure, high engine temperature, engine over-speed, or low cooling water pressure.</li> </ul>	<ul style="list-style-type: none"> <li>• Special profile camshaft with roller followers provides quiet operation and increased performance.</li> </ul>
<ul style="list-style-type: none"> <li>• The Engine Guardian system not only detects and alerts you of an engine problem, it automatically reduces power to a safe level that allows you to continue operating.</li> </ul>	<ul style="list-style-type: none"> <li>• One-piece serpentine belt means easier servicing, less maintenance, unsurpassed belt life, and requires fewer horsepower to drive the engine accessories.</li> </ul>
<ul style="list-style-type: none"> <li>• The SmartCraft Digital Throttle &amp; Shift (DTS) System brings digital precision to engine throttle and shift (optional).</li> </ul>	<ul style="list-style-type: none"> <li>• Remote water-separating fuel filter ensures dependable starts and performance by removing water and solid particles from fuel before they reach the fuel system.</li> </ul>
<ul style="list-style-type: none"> <li>• DTS provides unprecedented smooth shifting (compared to mechanical systems); precise throttle control; and superior, reliable performance. SmartCraft DTS offered as a boatbuilder option on the 8.1 models (single- and twin-engine applications).</li> </ul>	<ul style="list-style-type: none"> <li>• Neutral safety start switch permits starting only when transmission is in neutral.</li> </ul>
<ul style="list-style-type: none"> <li>• The 555 control module enables boat manufacturers to offer state-of-the-art digital information displays like the Mercury-exclusive SC5000 System View, a small computer screen that allows the driver to easily monitor and verify real-time engine and boat data.</li> </ul>	<ul style="list-style-type: none"> <li>• Platinum-tipped plugs and high-temperature spark plug wires are more durable and ensure trouble-free starting.</li> </ul>
<ul style="list-style-type: none"> <li>• Dry-joint technology reduces the potential for water leakage in exhaust components and improves corrosion resistance in the exhaust system.</li> </ul>	<ul style="list-style-type: none"> <li>• Top-mounted starter is mounted up high away from bilge water for dependable starting and extended starter life.</li> </ul>
<ul style="list-style-type: none"> <li>• MerCruiser ignition strategy optimizes exhaust temperatures. These optimized temperatures reduce water vapor condensation, thereby minimizing the potential for water ingestion and related exhaust corrosion.</li> </ul>	<ul style="list-style-type: none"> <li>• High-capacity seawater pump utilizes brass pump body and stainless steel end plate and shaft for increased durability and corrosion protection.</li> </ul>
<ul style="list-style-type: none"> <li>• MerCruiser water-cooled and insulated fuel system, which eliminates the need for a return line to the fuel tank, helps keep fuel temperatures down and greatly reduces the potential for vapor lock with today's fuels.</li> </ul>	<ul style="list-style-type: none"> <li>• All MerCruiser gasoline engines (500 hp or less) are designed to run on regular 87-octane fuel, instead of premium, making them less expensive to operate.</li> </ul>
	<ul style="list-style-type: none"> <li>• 3-year/300-hour maintenance interval for most scheduled maintenance on all gas models. Some scheduled and routine maintenance is required more frequently as specified in the engine owner's manual.</li> <li>• All Mercury® engines include a 3-year limited corrosion failure warranty.</li> </ul>

► **Features**

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## 370 HP INBOARD • FUEL-INJECTED

### Specifications

<b>HP</b>	370
<b>kW</b>	276
<b>SmartCraft</b>	Yes
<b>Displacement Liter/CID</b>	8.1/496
<b>Cylinder/Configuration</b>	V-8
<b>Bore &amp; Stroke (in)</b>	4.25 x 4.38
<b>Bore &amp; Stroke (mm)</b>	108 x 111
<b>Compression Ratio</b>	9.1:1
<b>Fuel Induction System</b>	MPI
<b>Full-Throttle RPM Range</b>	4200 – 4600
<b>Ignition System</b>	PCM 555 Distributorless
<b>Alternator Amp</b>	65
<b>Alternator Watt</b>	917
<b>Length (in/mm)</b>	47/1194
<b>Width (in/mm)</b>	33/838
<b>Height (in/mm)</b>	24/610
<b>Total Weight (lb/kg)</b>	1130/513
<b>Transmission Options/Ratios</b>	Velvet Drive 72C: 1.0:1 (Level-Mounted Remote V-Drive Installation Only)
<b>Transmission Options/Ratios</b>	Velvet Drive 5000A: 1.5/2.0/2.5/2.8:1
<b>Transmission Options/Ratios</b>	Velvet Drive 5000V: 1.5/2.0/2.5:1
<b>Transmission Options/Ratios</b>	ZF Drive 63 A: 1.5/2.0/2.5/2.7:1
<b>Transmission Options/Ratios</b>	ZF Drive 63 IV: 1.5/2.0/2.5:1
<b>Aluminum Exhaust Manifolds</b>	Standard – Ceramic- and EDP-Coated
<b>Audio Warning System</b>	Standard (Engine Guardian)
<b>Closed-Cooling</b>	Standard
<b>Color-Coded Service Points</b>	Standard
<b>High-Mounted Starter</b>	Standard
<b>Knock Control</b>	Standard
<b>Platinum-Tipped Spark Plugs</b>	Standard
<b>Remote Oil Filter</b>	Standard
<b>Risers 2" and 6"</b>	Optional
<b>Serpentine Belt</b>	Standard
<b>Stainless Steel Exhaust Elbows</b>	Standard
<b>Water-Cooled Fuel System</b>	Standard
<b>Water Drain System</b>	Standard: Air-actuated, single-point drain system – hand air pump included with engine
<b>Water/Fuel Separator</b>	Standard

#### EFFECTIVE JULY 2003

Option availability determined by boat manufacturers within their boat model offerings.

All models and specifications are subject to change without notice or incurring obligation to modify previously manufactured products.

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