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## Woodward UG-25<sup>+</sup>

Enhanced replacement for Woodward UG8 and 3161 as well as non-Woodward governors



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## Introduction

The Woodward UG-25+ is a drop-in replacement for UG-8 and 3161 as well as non-Woodward governors running on a wide range of engines, combining all the advantages of a traditional mechanical governor with state-of-the-art control algorithms for optimal engine operation.

## Description

Enhanced control capabilities, such as start fuel and boost limiting schemes, are an integral part of the UG-25+ governor. The additional transient fuel limiting (jump-rate) improves the engine's acceptance of load swings and reduces smoke significantly.

The UG-25+ offers speed control with software-selectable speed setpoints, dynamic performance, fuel limiting and start behaviour.

## Interfacing

Front panel as well as external speed settings make synchronization and load sharing easy for generator applications while a 4 to 20 mA speed setting is available for variable speed applications.

Adjustable droop permits load division and balancing among parallel operated prime movers. Droop and governor output limit can each be set with a knob on the front panel.

## Conversion

Under normal circumstances and with help of the crew (test possibilities) Turner ECS can perform the conversion from UG8, 3161 or a similar governor to UG-25+ in one day.

## ADVANTAGES

- Marine listing
- No gaskets issues
- Lower maintenance and overhaul costs
- Diagnostics for easy troubleshooting
- Multiple fuel limiters
- Visible smoke reduction
- Integrated speed sensor
- No booster required
- Governor status indication
- Discrete & analogue speed setting

## MATERIALS REQUIRED FOR CONVERSION

- Governor
- Lever
- Field cable
- Relays
- Circuit breaker
- Terminals
- DIN rail
- Isolator

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Examples of UG-25+ upgrades performed by Turner ECS



Mirrlees Blackstone 80G



Wärtsilä 8L20



Hyundai Himsen H21/32



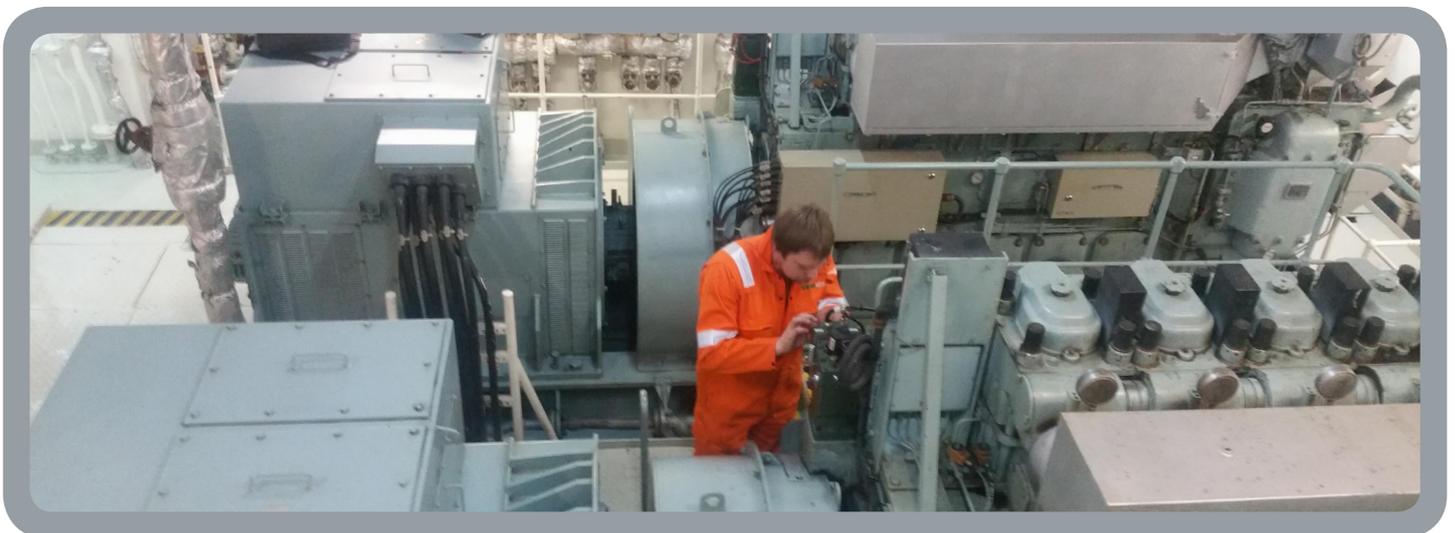
ABC 6-MDZC



Yanmar 6EY22



Mitsubishi S6U



## Turner Range of Services

**LSTK Projects, Retrofits & Upgrades**  
Turner ECS delivers reliable retrofit solutions for a wide range of prime movers and other applications. This includes lump sum turnkey projects on turbines and compressors.

**Genuine Parts & Service Exchange**  
Turner ECS has the largest stock of parts, service exchange governors and electronics in Europe and can provide a fast turnaround service.

**Product Training**  
Turner ECS can provide official Woodward product training covering both theoretical and practical training on a wide range of Woodward products.

**Electronic Repair & Mechanical Governor Overhaul Service**  
Turner ECS provides a comprehensive overhaul and repair service for electronic, mechanical and hydraulic governors.

**World Wide Field Service**  
Turner ECS field service engineers and technicians provide comprehensive solutions for commissioning and on-site repair.

**Service Contracts**  
Turner ECS provides long term service contracts to support users with Woodward governors and/or control products and electronic control systems.



### ROTATING EQUIPMENT CONTROL SOLUTIONS DELIVERED ACROSS EUROPE & THE MIDDLE EAST

Turner ECS is an official Woodward Channel Partner with offices located in:

- The Netherlands
- England
- Germany
- Italy
- Abu Dhabi
- Qatar
- Saudi Arabia

Turner ECS also operates and manages an extensive network of official agents throughout Europe & the Middle East

### CONTACT INFORMATION

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