

# KOBELT ELECTRONIC ACTUATORS

Actuators are capable of handling a wide variety of shipboard and industrial applications. On a ship they're ideally suited for controlling marine engine clutches, throttles, controllable pitch propeller mechanisms, trolling valves and any propulsion control function. In applications where signals cannot be sent directly from our microprocessor to throttle, gear boxes, or CP propellers, it's necessary to install an electronic actuator to provide the controlling functions. Kobelt offers a single and dual function actuator designed to interface with our microprocessor.

## 6524 DUAL ACTUATOR

- Controls 1 clutch and 1 throttle, 2 clutches, 2 throttles or any combination of 2 control functions
- Manual over-ride of functions at anytime
- Internal resilient link
- Robustly built from bronze and stainless steel



## 6531 SINGLE ACTUATOR

- Built-in electronic clutch disengages on power failure allowing manual control
- Robustly built from bronze and stainless steel



## 6527 ELECTRONIC ACTUATOR

- Controls 1 clutch and 1 throttle, 2 clutches, 2 throttles or any combination of 2 control functions
- Manual over-ride of functions at anytime
- One trim pot per side to adjust stroke
- Robustly built from bronze and stainless steel.



## 6528 GENERAL POSITION ACTUATOR

- Electro-mechanical clutch for spring centering
- Manual over-ride of functions at anytime
- Resilient driven output shaft for auto synchronization
- Robustly built from bronze and stainless steel.



# KOBELT QUALITY

Since 1962, Kobelt has built a global reputation for the design and manufacture of marine steering and propulsion system controls and related accessories. Our international leadership is based on a relentless search for design and engineering improvements, beautifully machined components of enduring die-cast bronze and stainless steel, plus deliveries and prices that are competitive world-wide. Behind it is a simple guiding principle: we believe that if we get you where you're going, you'll get us where we're going.

*(Kobelt Products either carry a patent or the patent is pending.)*

# KOBELT

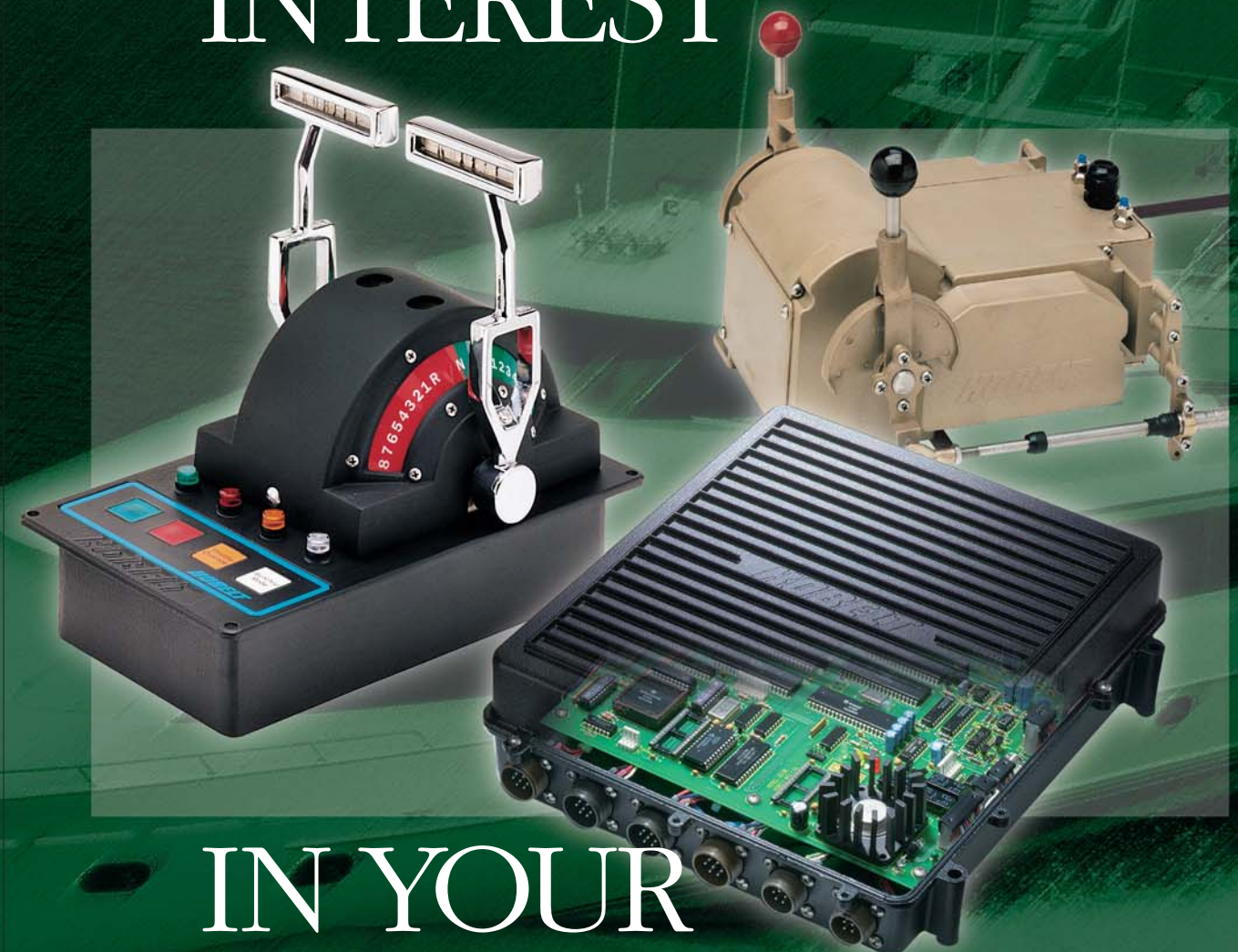
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# KOBELT TAKES A CONTROLLING INTEREST



# IN YOUR VESSEL

# KOBELT

ELECTRONIC MARINE CONTROL SYSTEMS



Kobelt  
Get Wired revised brochure  
17" x 11" trim folded to 8-1/2" x 11"  
4 Colour Process  
January 2002  
Kobelt Control Bro 67668.qxd  
Page 1 of document

# KOBELT PRODUCTS EXCEL AT BEING THE CENTRE OF ATTENTION

## KOBELT QUALITY ELECTRONIC CONTROLS

Kobel Manufacturing Limited is committed to manufacturing the finest marine controls in the world. Our reputation for superior marine controls is international - spanning over 23 countries and backed by 35 years of experience.

Kobel offers the widest selection of electronic controls, available in both twin and single engine configurations. Known worldwide for our innovations, we are the only company to use die-cast bronze components and stainless steel hardware exclusively. They offer many years of corrosion-free operation and trouble-free service. Our electronic control systems are based on the strong principles of precision, reliability and flexibility.

Kobel's state-of-the-art digital microprocessor offers the latest in digital technology and can be set either by hand or with a laptop computer. Designed to be the heart of any electronic control system, the Kobelt Microprocessor Controller handles an enormous variety of control tasks and interlocks. Encased in a non-corrosive bronze housing with watertight connectors for durability, it can handle up to 3 engines, 2 throttles, 2 clutches and 2 trolling valves with synchronizers.

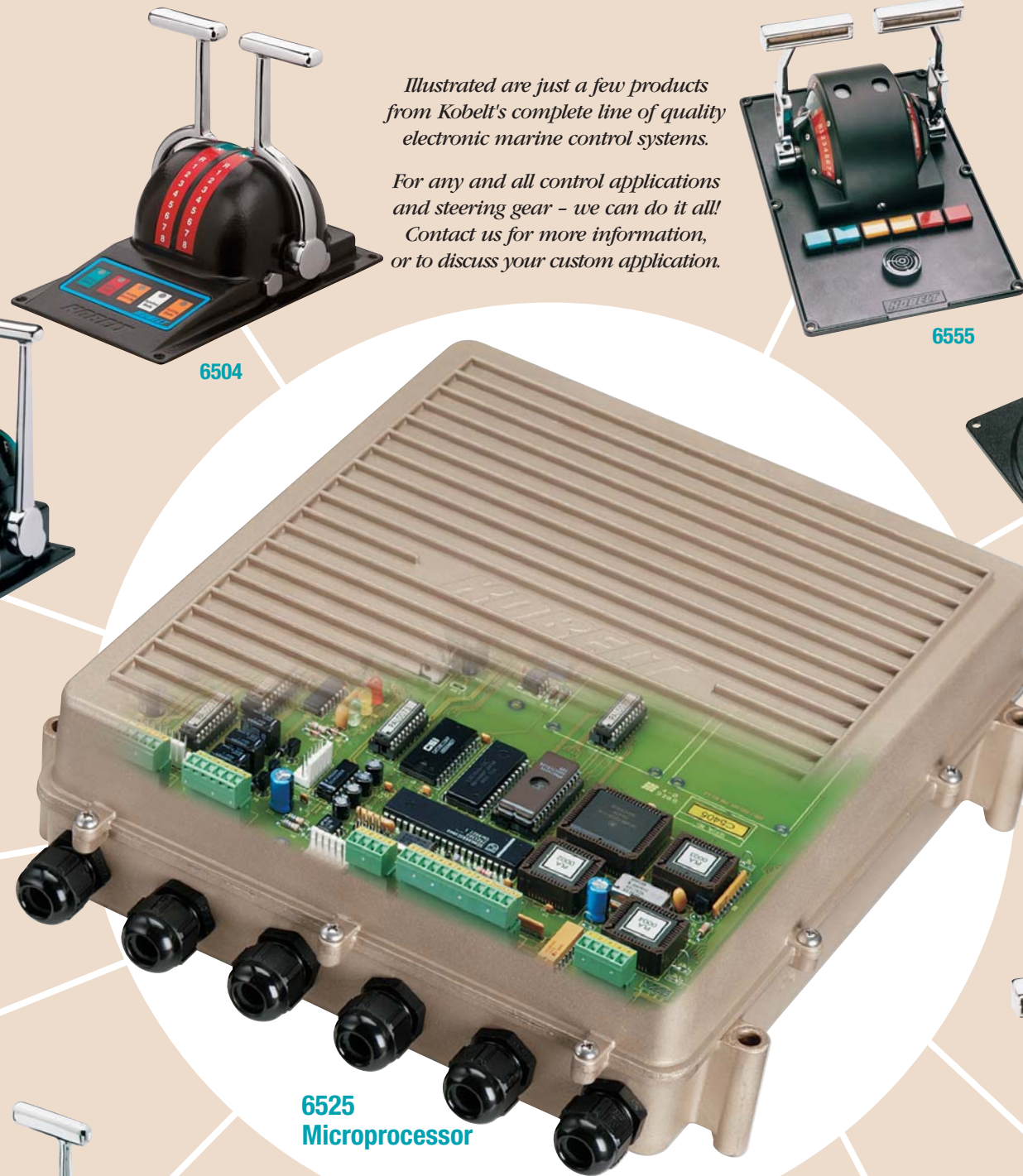
Kobel's interior and exterior control heads are recognized internationally for their rugged craftsmanship, durability, and functional beauty. Most of our control heads integrate flawlessly with all other control products, allowing you to configure to virtually any combination - synchronized operation and smooth interfacing for even the newest of modern engines.

*Illustrated are just a few products from Kobelt's complete line of quality electronic marine control systems.*

*For any and all control applications and steering gear - we can do it all! Contact us for more information, or to discuss your custom application.*

## ELECTRONIC CONTROL FEATURES

- leading-edge technology
- traditional craftsmanship merged with today's sophisticated design and engineering
- exclusive die-cast bronze and stainless steel composition
- links for electronic engine, gearbox, actuator, and trolling valves
- versatility/flexibility with other systems
- economical
- synchronized operation
  - seamless interfacing
  - 4-20 MA
  - PWM
- 0-5 volts
- electric clutch
- watertight components and connectors
- cables are hard wired to ensure maximum safety
- customization
- perfect precise control with effortless touch for the following propulsion functions:
  - throttle boost & override
  - engine braking
  - omega slip clutch
  - CPP control
  - alarm inputs/interlocks
  - electronic shaft
  - integrated steering & bow/stern thruster control
  - z-drive/water-jet/load control
  - matching handle logic
  - load sharing
  - PTO control
  - electronics & mechanical backup
  - CE mark



**6525**  
Microprocessor

**Coming Spring 2002!**  
NEW  
traditional-looking control head



*All Kobelt hardware comes with a 5-year warranty that is the best in the industry. Electronic components come with a two year limited warranty. Strict, quality-controlled manufacturing and sturdy, corrosion-resistant materials ensure trouble-free service above and beyond this generous warranty period.*