



Vessel Type and LOA	SeaArk Dauntless 34 10.4 m (34 ft)
Engine	2X Yanmar 6LY (diesel)
Power	2X 370 hp @ 3,300 RPM
Transmission	2X ZF280 Ratio 1:1
Ideal Stern Drive	2X Konrad 620 Ratio 1.74:1
Performance	36 kts (41 mph)
Weight	9 metric tons (20,000 lbs)



Vessel Type and LOA	Motomarine 12.5 m (41 ft)
Engine	2X Volvo 435 D6 (diesel)
Power	2X 435 hp @ 3,500 RPM
Transmission	2X BAM 1350 Ratio 1:1
Ideal Stern Drive	2X Konrad 660 Ratio 1.23:1
Performance	53 kts (61 mph)
Weight	6.8 metric tons (15,000 lbs)



Vessel Type and LOA	Scully 11.6 m (38 ft)
Engine	2X Iveco FPT Power Train (diesel)
Power	2X 330 hp @ 3,000 RPM
Transmission	2X BAM 1350 Ratio 1:1
Ideal Stern Drive	2X Konrad 680 Ratio 1.74:1
Performance	28 kts (32 mph)
Weight	14.5 metric tons (32,000 lbs)



*Celebrating 20 Years of Excellence 1991 - 2011*

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**Konrad**  
HIGH OUTPUT PROPULSION SYSTEMS

*“When Strength,  
Performance, and Reliability  
are what you need...”*

**600**  
SERIES PRODUCT LINE



COMMERCIAL-GRADE PROPULSION SYSTEMS

# 600 SERIES

With the introduction of its Series 600 Stern Drive product line, Konrad Marine has, once again, set the standard for excellence in designing and manufacturing stern drive propulsion solutions.

Building upon a solid foundation of twenty years experience and the unparalleled success of its predecessor, the Series 600 is engineered to meet the challenges, and to exceed the expectations, of applications across the globe.

Konrad's unwavering commitment to quality has led to a very significant investment – the most modern bevel gear cutting machine in the world – a Gleason Phoenix® II 600HC, digital free form machine, whose specialized programming makes it 1 of only 3 in the world with its unique capabilities.

Combining this state-of-the-art technology with decades of knowledge and experience, Konrad produces the largest, strongest gears possible for marine applications - up to 2 times stronger than other gears in the industry.

Konrad gears significantly reduce force on the bearings, optimally distribute the load, and provide extraordinary shock absorption - increasing the life of your components, and ultimately your entire drive system.

Every drive in the Series 600 is designed with Konrad's exclusive Harmonically Tuned Gear Train (HTGT) technology which reduces the harmonic frequency amplification and resonance of the entire gear train – from input shaft to prop.

HTGT optimizes the balance of your drives, minimizes drive vibrations, and improves overall synchronization of internal components, providing a significantly smoother running system. This advanced technology is so unique that no other drive offers anything comparable.

Konrad's manufacturing standards have always surpassed the status quo, which is why the drives outwork and outlast anything in the water. Konrad stern drives have become known as:

*"The Toughest Stern Drives in the World".*

## PACKAGES & OPTIONS

### INCLUDES

- 600 Series Assembly
- Exclusive HTGT Technology
- Gimbal Assembly and Carrier Bearing
- Deflection Plate
- Trim Pump Assembly
- Cavitation Plate
- Inner Transom Plate

### OPTIONS

- Propellers
- Trim Control Systems
- Steering Systems (Internal & External)
- Transmissions
- Drive Shafts
- Lifting Brackets
- Spacer Kits



### DURABLE

Considered the workhorse of the fleet, the 620 is a dependable, robust drive. By combining Konrad's proven, single 20 inch (51 cm) propeller technology with stronger shafts and gears, the 620 has set a new standard for stern drive durability.



### FAST

For performance driven applications, such as extreme government patrol or sports leisure boating, the 660 is built to meet your demand for speed. With dual, counter rotating 16 inch (41 cm) propellers, this drive is designed for 7 - 15 meter (21 - 50 foot) vessels with speeds up to 60 knots (70 mph).



### STRONG

Engineered with the largest, strongest gears in the industry, the 680 gives you efficient carrying capacities up to 7.7 metric tons (17,000 lbs.) per drive. This model operates with extreme efficiency in the 40 knot (46 mph) range and sports dual 20 inch (51 cm) counter rotating propellers.



## DUTY CLASSIFICATIONS



### Recreational Performance

This classification includes private, non-commercial, non-charter, sport/leisure activity craft. Standard Warranty.



### Military and Government Service

This classification includes light commercial charter/sport activity craft, patrol and crew boats. Standard Warranty.



### Medium Duty Commercial Performance

This classification includes charter and commercial craft. These applications must be approved by the factory.

### MAXIMUM OPERATION

Stern Drive	Torque Nm/lb. ft.	Hours/Year	Gross Weight/Horsepower
620	1100 Nm 812 lb. ft.	300	29 kg/kw (40 lbs/hp)
660	1100 Nm 812 lb. ft.	300	22 kg/kw (30 lbs/hp)
680	1200 Nm 885 lb. ft.	300	37 kg/kw (50 lbs/hp)

### MAXIMUM OPERATION

Stern Drive	Torque Nm/lb. ft.	Hours/Year	Gross Weight/Horsepower
620	830 Nm 612 lb. ft.	800	29 kg/kw (40 lbs/hp)
660	830 Nm 612 lb. ft.	500	22 kg/kw (30 lbs/hp)
680	904 Nm 667 lb. ft.	1000	37 kg/kw (50 lbs/hp)

### MAXIMUM OPERATION

Stern Drive	Torque Nm/lb. ft.	Hours/Year	Gross Weight/Horsepower
620	745 Nm 550 lb. ft.	2000	29 kg/kw (40 lbs/hp)
660	745 Nm 550 lb. ft.	1000	22 kg/kw (30 lbs/hp)
680	813 Nm 600 lb. ft.	2000	37 kg/kw (50 lbs/hp)

## MATERIAL AND MANUFACTURING SPECIFICATIONS

Bearings	Tapered roller bearings, spaced for optimum load carrying capabilities support the shafts
Castings	Manufactured from high strength, heat treated aluminum
Gears	Six inch, high strength, heat treated alloy steel utilizing high performance marine technology
Shafts	Manufactured from high alloy, heat treated steel
U-Joints	Industry leading size for increased load carrying capacity and extended life

## INSTALLATION AND OPERATIONAL SPECIFICATIONS

Application	Commercial, Military, and Recreational
Corrosion Protection	Multiple anodes, all castings chromated and layered with powder coatings
Engine Type	Diesel or Petrol/Gasoline
Gear Ratios	620: 1.23:1, 1.45:1, 1.55:1, 1.78:1 660: 1.07:1, 1.23:1, 1.31:1, 1.43:1, 1.50:1, 1.74:1 680: 1.24:1, 1.43:1, 1.52:1, 1.74:1
Propeller Diameters	16 inch (41 cm) - or - 20 inch (51 cm) depending on drive model
Steering Range	56°
Trim/Lift System	-6° to 10° (trim) 10° to 46° (lift)
Shifting	Reversing transmission required
Water Pick Up	None

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