

HEIMDAL

PROPULSION NORWAY AS

Heavy-Duty CPP

Heimdal Propulsion Norway AS has produced marine reduction gears and controllable pitch propellers for almost 100 years. Through the years, we have learned how to design longlasting heavy-duty propulsion plants.

All our products have a robust design ensuring low noise, lowest vibrations, and the lowest possible maintenance needs.

We produce propulsion plants for small and medium sized vessels with engine power up to 3000 kW, and propeller diameter up to 3,8 meters.



Heimdal Reduction Gears with Built-in Servo



Heimdal reduction gears are produced in seven sizes. Each size may be equipped with various ratios adapted to the engine and propeller speed. All sizes have a built-in servo system for connection to a controllable pitch propeller by means of a pull rod. The gears may be delivered with up to three PTO and/or PTI, and are suitable for both diesel-mechanic or diesel-electric drive.

The Heimdal HG Series comprises robust gears commonly used in tugs, fishing vessels, work boats, and other vessels requiring high pull and equipment tolerating hard use in difficult conditions.

Max Power (kW) vs speed

| Gear | 1000 | 1200 | 1500 | 1800 rpm |
|---------|------|------|------|----------|
| HG 200 | | 420 | 530 | 560 |
| HG 300 | | 600 | 750 | 750 |
| HG 300S | | 900 | 900 | 900 |
| HG 400 | 1300 | 1700 | 2000 | 1800 |
| HG 500 | 1450 | 1750 | 2200 | 2200 |
| HG 600 | 1800 | 2150 | 2300 | |
| HG 700 | 2550 | | | |

Heimdal Controllable Pitch Propellers



Heimdal propellers are designed to achieve the highest possible pull from the engine. With 15 hub sizes to choose from, the blades are tailor-made to suit each vessel. All blades are designed by modern computer programs, and are properly balanced to give correct resistance to the servo system.

Three-blade propellers offer best efficiency and lowest price. They are used on fishing vessels, tugs and other vessels where the hull design allows for a large diameter.



Four-blade propellers are used in vessels requiring the highest possible pull force from a limited propeller diameter.

Standard diameter (mm)

| Propeller | Open prop. | Nozzle prop. |
|-----------|------------|--------------|
| K 300/3 | 1100-1300 | 1000-1200 |
| K 330/3 | 1200-1500 | 1100-1300 |
| K 380/3 | 1350-1700 | 1250-1500 |
| K 410/3 | 1450-1800 | 1350-1600 |
| K 450/3 | 1600-2000 | 1500-1800 |
| K 500/3 | 1750-2200 | 1650-2000 |
| K 550/3 | 1950-2500 | 1800-2200 |
| K 300/4 | 1250-1500 | 1000-1400 |
| K 350/4 | 1400-1700 | 1300-1600 |
| K 450/4 | 1600-2000 | 1500-1800 |
| K 500/4 | 1700-2100 | 1650-2000 |
| K 600/4 | 2100-2600 | 2000-2400 |
| K 700/4 | 2500-3000 | 2300-2800 |
| K 800/4 | 2800-3500 | 2600-3200 |
| K 850/4 | 3000-3800 | 2800-3400 |

