

GRENAA DIESEL

GRENAA DIESEL ENGINES

Heavy duty medium speed engines



Grenaa Marine Systems

Products to last a lifetime

For more than 80 years A/S Grenaa Motorfabrik has been manufacturing high quality marine and industrial systems. Our philosophy is to incorporate the highest reliability into the design of all equipment.

True heavy duty equipment

- Diesel engines
- Reduction gears
- CP-propeller systems
- Keel coolers
- Generating sets
- Full propulsion systems

Service intervals are long and all units can be cost effectively refurbished to as-new standard. Even design of new components is done bearing retrofits in mind so owners can update their equipment if desired.

We do not believe in the "use and scrap" mentality.



Engines built on experience

The Grenaa Diesel engines are backed by decades of operational experience in the most demanding applications. Grenaa engines are serving reliably under all climatic conditions from arctic Greenland to tropical Africa and Australia.

Simple and reliable baseload engines

The Grenaa Diesel engines are designed bearing simplicity in mind. This gives engines which can be maintained with a minimum of tools and facilities. The design parameters are based upon continuous baseload duty. Time limited load profiles such as „Prime power“ or „Limited time power“ are not applicable. Our policy is only to produce heavy duty engines which can supply the true full load power without harmful overload.

Meeting future upgrades

The compatibility of the engines makes upgrades possible. The power rating of an engine may thus be increased by mounting a conversion kit supplied by the factory. Identical parts for all engine sizes also minimizes the spare parts stock. The ample factory stock of spares for immediate shipment reduces the requirement for stocking by the operator.



Based upon experience – made for the future

GRENAA DIESEL



At your service

Grenaa equipment is sold by reputation and we do our utmost to supply a professional engineering and spare parts service on a world wide basis.

Standard spares are stocked and non-standard parts, e.g. propeller shafts are machined immediately upon order.

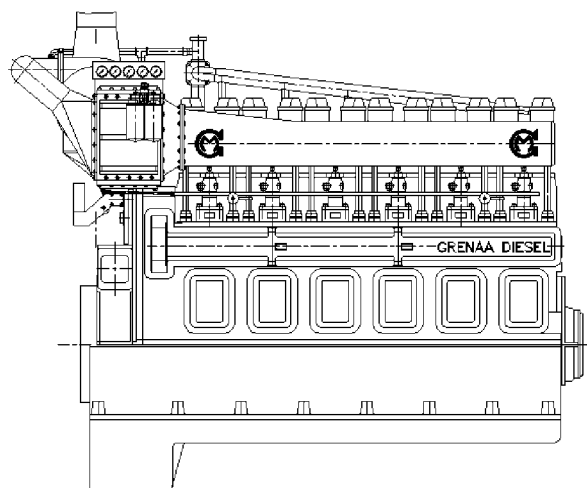
A person to person relationship

Our organisation is flexible so responding to individual wishes is a matter of cause. And no customer needs to feel anonymous in our company.

Survey of Grenaa FS24-engines

	3FS24TK	6FS24	6FS24TK	6FS24TKII
Bore, mm	240	240	240	240
Stroke, mm	300	300	300	300
Engine rpm	750	750	750	750
Swept volume, l	40,7	81,4	81,4	81,4
Piston speed, m/s	7,5	7,5	7,5	7,5
Cont. rating, HP	450	450	900	1030
Cont. rating, KW	331	331	662	758
Genset Rating, KW**	318	318	636	728
Genset Rating, KVA	397	397	795	910

** Alternator efficiency 0,96



The heavy duty concept

All Grenaa equipment is designed for continuous heavy duty operation and only materials of the highest quality are used. Component suppliers are all well recognized ones. Reliability and long time between service intervals make the Grenaa Diesel engines the optimum choice for professional marine and power generation applications.

Low operational costs

The long stroke of the medium speed engine combined with the carefully designed combustion chamber and the best fuel injection and turbo charging systems ensure low fuel consumption. The lube oil change intervals and low specific consumption further sustains a very eco-

nomical performance of the diesel engine.

Service intervals are long, component wear rates are moderate and the work required is simple. All this contributes to keep the overall maintenance costs low. The basic components have a virtually infinite service life which makes it possible and economically feasible to refurbish the engine to as new condition even after many years of operational life.

Green environmentally friendly engines

The Grenaa Diesel engines fulfill the strict emission limits set by IMO. The outlet of Nitrogen Oxides and Hydro-carbons are well below the permitted values. In some countries this is rewarded by the right to buy fuel excl. pollution related taxes.



A/S GRENAA MOTORFABRIK

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