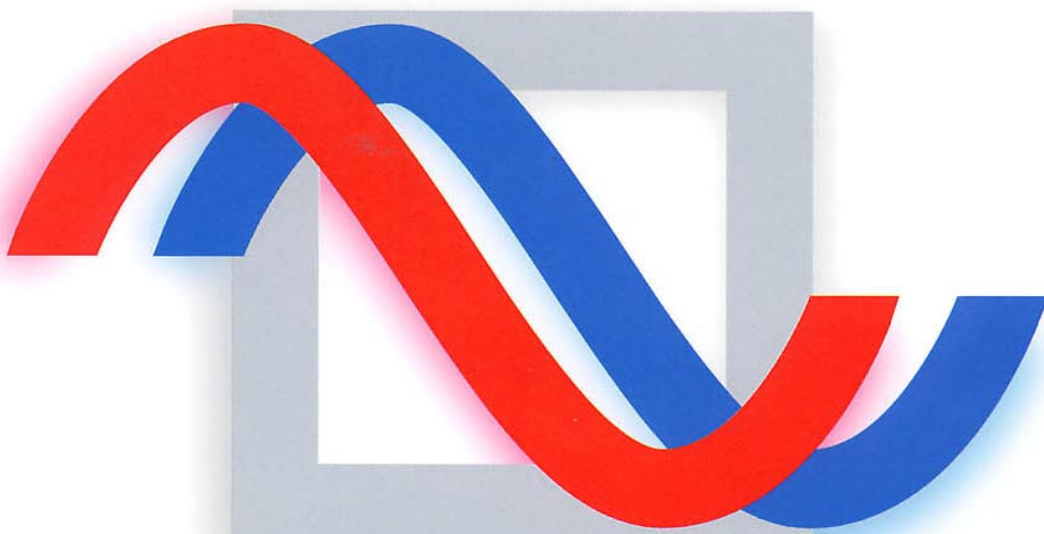


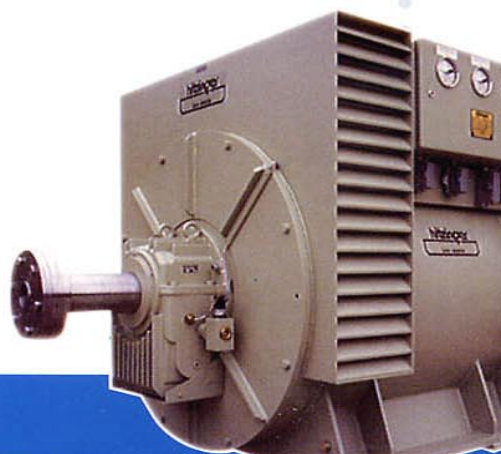


POWER. AT THE RIGHT MOMENT.



A L T E R N A T O R S

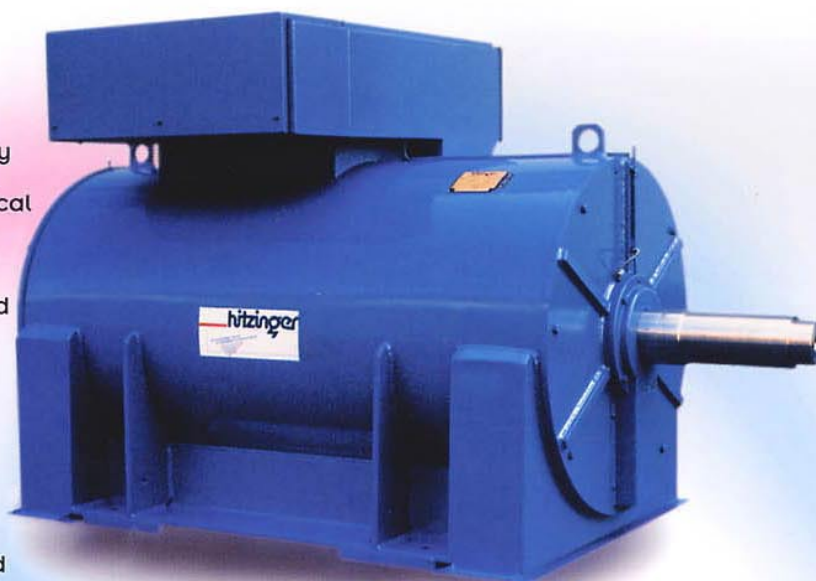
hitachi





POWER GENERATION IN ITS MOST ECONOMICAL FORM.

Hitzinger's synchronous alternators - not only meet every demand by their highest technical standard and quality - but also because of their flexible method of construction they provide every taylormade solution. No matter whether for industry, CHP, traffic-facilities or, in the field of hydro-power, Marine and off-shore-operation: due to their adaption and construction Hitzinger alternators guarantee your individual power supply. High efficiency, reliability and an enormous standard combined with economic solutions guarantee advantages which are based on an excellent worldwide reputation.



ACCURACY

Hitzinger's software enables individual design of all components as well as connecting elements. In order to avoid damages by short-circuit, short-interruption of false synchronization Hitzinger calculations consider torsional vibration for normal use as well as for failures which results in safety at its best.



AVAILABILITY

Hitzinger alternators are constructed for continuous operation because standstill costs money. In order to prevent troubles like this special protective and supervision devices are installed. Hitzinger alternators are extremely robust, almost free of maintenance and designed for trouble-free continuous operation.

hitzinger

ADAPTABILITY

Modern computerized construction- and calculation methods enable Hitzinger's specialists to offer tailor-made alternator solutions as well as flexibility in design and variety.



SAFE OPERATION

Hitzinger alternators are built for reliable and safe operation that means.

- conservative dimensioning
- robust construction
- resistant to shock and vibrations
- own patented regulation system for high sustained short circuit current
- high resistance against environmental influences because of additional isolation technology
- strong QA-system

COMPACT DESIGN

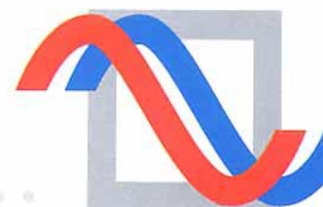
As a result of intensive research and development Hitzinger alternators have decisive characteristic, namely.

- a minimum space requirement
- reduced construction work
- fewer components and
- lower investment costs.

LOW EMISSION

The small environment influence is another essential advantage of our Hitzinger synchron-alternators:

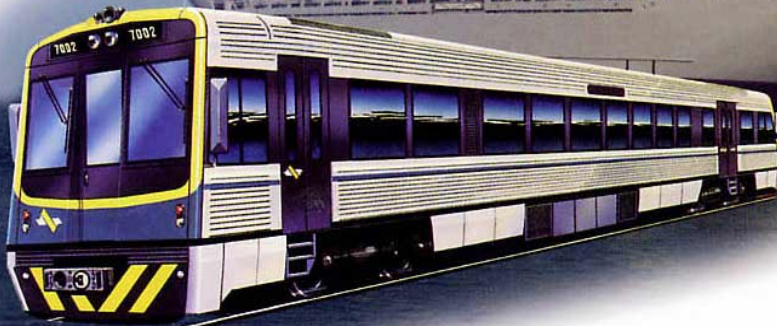
- Radio interference: All relevant norms will be reached until the MIL-standard.
- Low vibration and low noise: Hitzinger guarantees exact balancing and precisely completion.
- Low strayfield synchro-machines: They are built by Hitzinger specialist's for particular cases, including the necessary equipment to measure magnetic fields up to 1/10.000 of the earthfield.





POWER. AT THE RIGHT MOMENT.

ECONOMIC



The economical aspect will be reached by elimination for transmission losses from primary energy into electric power as well

as by a flexible construction put into practice. Hitzinger specialists reach this efficiency by

- high efficiency
- power factor regulation
- reactive load regulation
- adaption of the efficiency curve to the operating conditions
- wear-free equipment with only one exception - the bearings
- elimination for transmission losses by choosing the number of poles to permit direct coupling to the prime-mo-
- economically priced.

REFERENCES:



Hitzinger Alternators are used in the whole world. Hydro-alternators in low voltage design; synchro-alternators in international

deep-sea navigation, domestic navigation and in high-speed railways.



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