

NASTA®

Nasta AS er en av Norges ledende leverandører av anleggsmaskiner og –utstyr



Hitachi Elektrisk



写真はオプションの日立全旋回式グラップルを装着しています。

Hva har Hitachi

ZX225USRE-3 Electric Driven Machine

NEW!



Hitachi Construction Machinery Co.,Ltd.

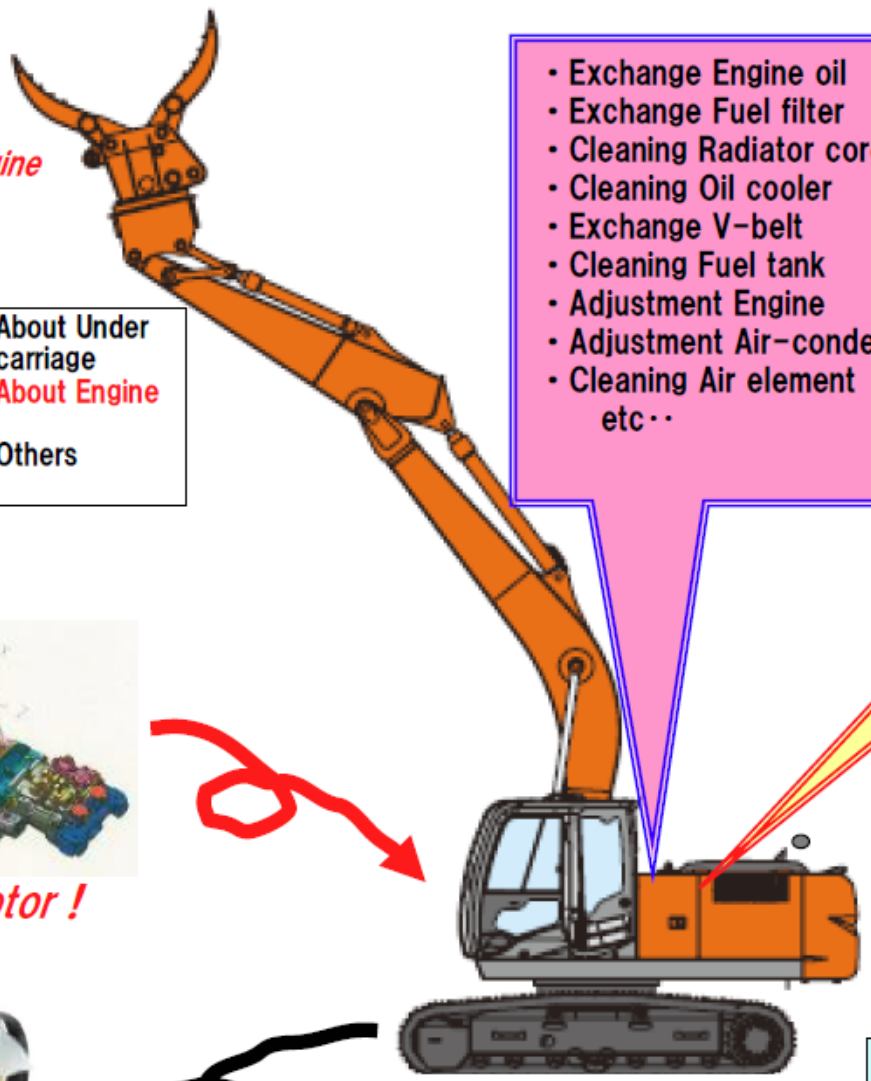
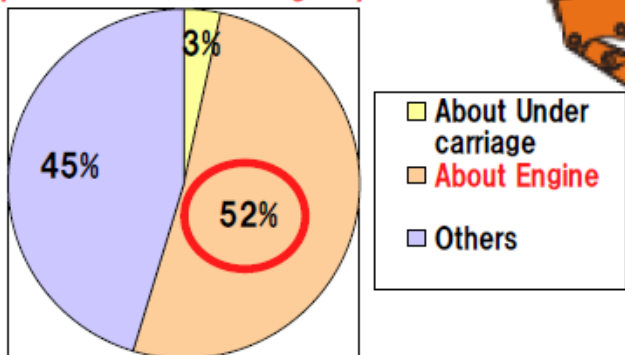
EX-6 Series Electric Excavators

EX 1900
EX 2500
EX 3600
EX 5500
EX 8000



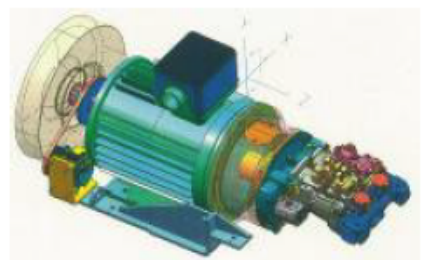
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FORNØYDE KUNDER VENDER TILBAKE

Regular maintenance ratio of engine type machine according to part



- Exchange Engine oil
- Exchange Fuel filter
- Cleaning Radiator core
- Cleaning Oil cooler
- Exchange V-belt
- Cleaning Fuel tank
- Adjustment Engine
- Adjustment Air-condenser
- Cleaning Air element etc..

- Engine PU
- Turbo charger
- Radiator
- Radiator hose
- Spraying pump
- Spraying nozzle
- Oil cooler
- Reserve tank
- Muffler etc..



Electric motor !



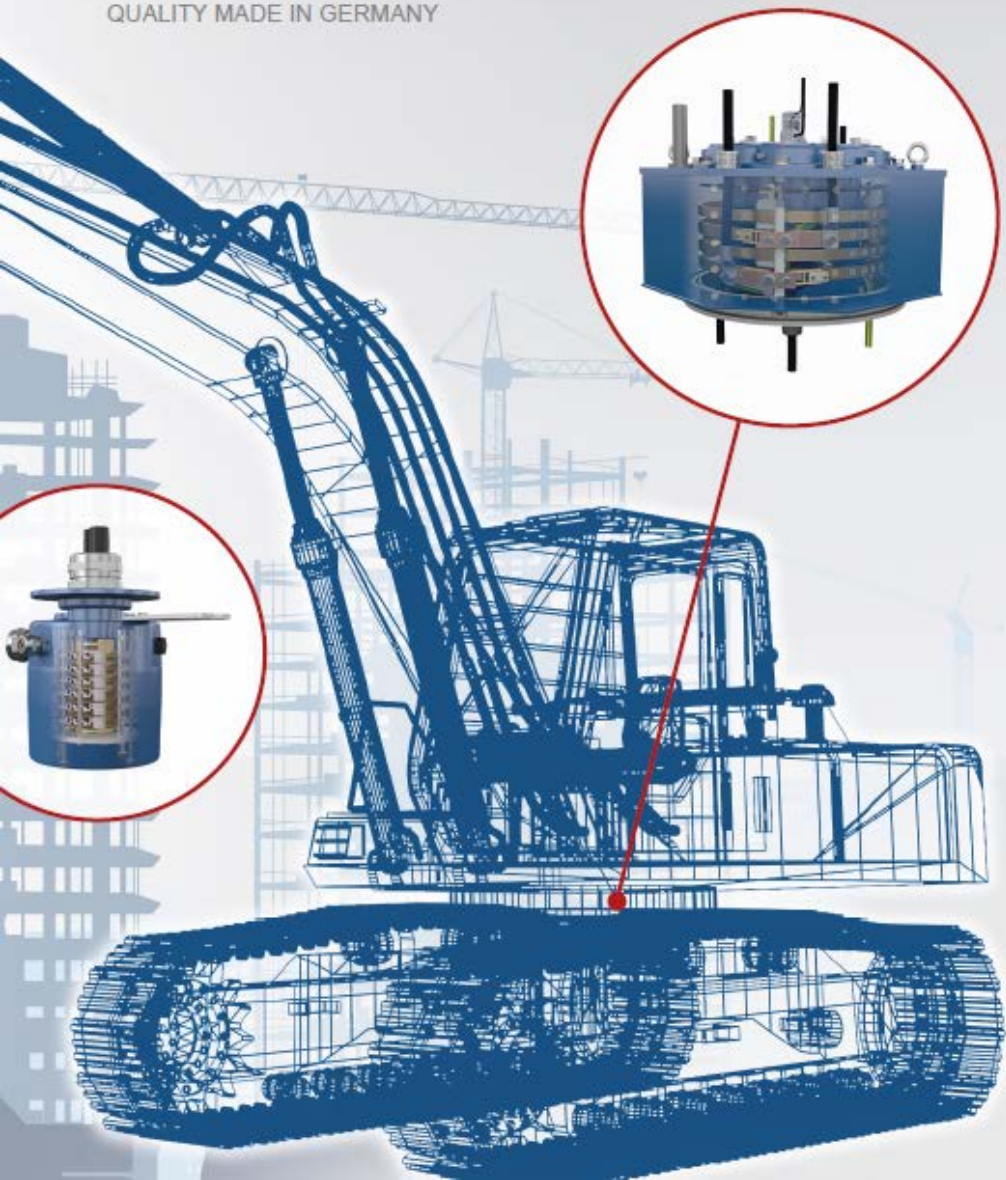
Electric have no Engine !



- Mainly part of maintenance
- Mainly work for maintenance

Slip Ring Assemblies for Cranes, Excavators & Construction Machinery

QUALITY MADE IN GERMANY



Side view

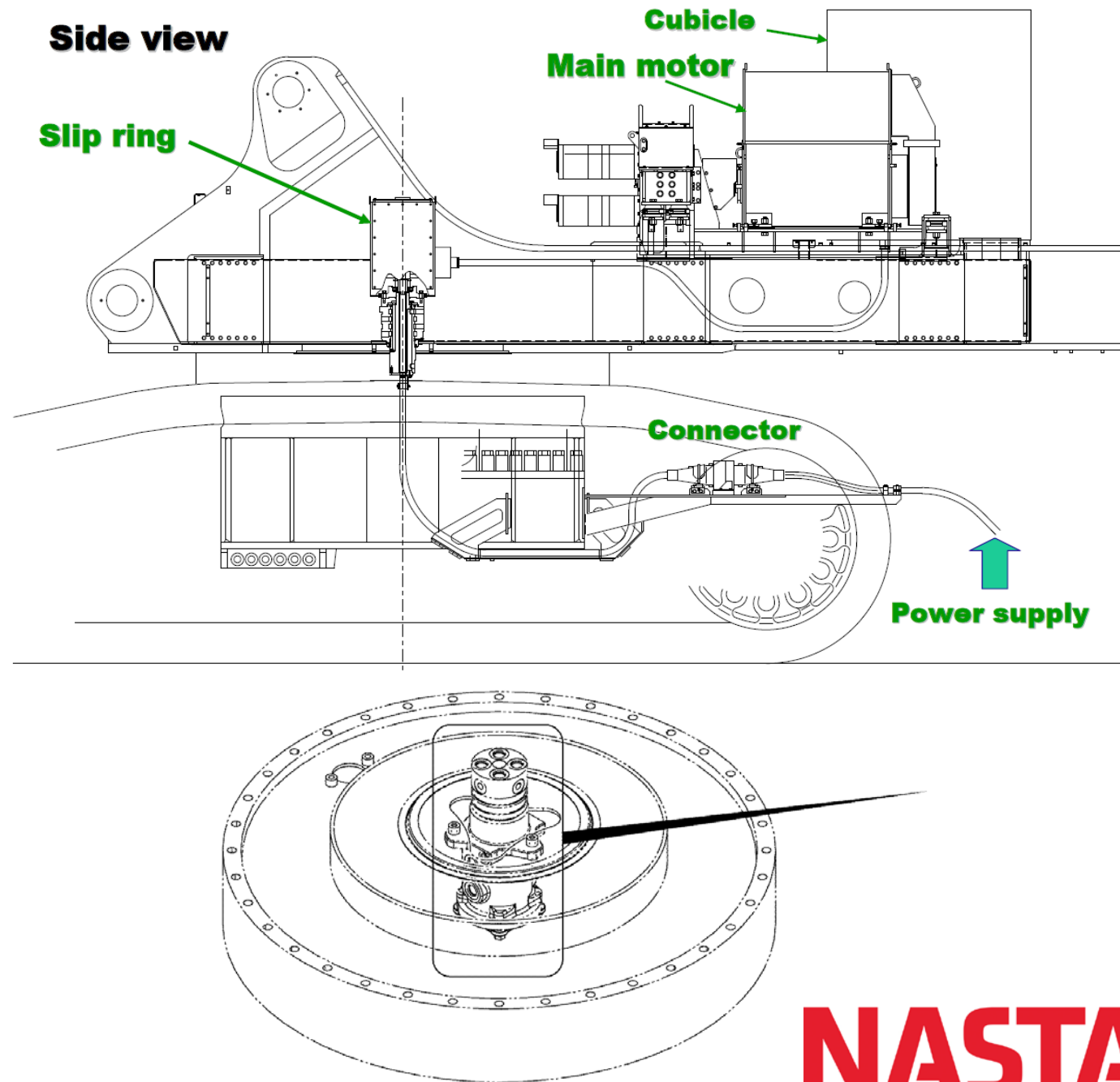
Slip ring

Cubicle

Main motor

Connector

Power supply



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FORNØYDE KUNDER VENDER TILBAKE



NYTT BATTERI
40 KWT

STØRRE REKKEVIDDE
378 KILOMETER*

Kjøring gj.fart 60km/t
= ca. 6 timer 20min.
= ca. 1,5kWh/mil
= ca. 9kW pr. time



100 kWh Battery
613 km range (NEDC)

Kjøring gj.fart 60km/t
= ca. 10 timer 20min.
= ca. 1,8kWh/mil
= ca. 10,8kW pr. time



Beltegraver ZX160LC-5

- Den perfekte servicemaskin

Gravedybde: 5 980 mm

Maskinvekt: 17 500 kg

Motoreffekt: 90,2 kW / 121 hk

Rekkevidde: 8 870 mm

Skuffestørrelse: 800 liter

Zx160 gjennomsnitt dieselforbruk pr. time 10 liter
Gj.snittlig kW forbruk 37,5kW/time (regnet ut fra dieselforbruk)



Beltegraver ZX350LC-6

- Forvent pålitelighet

Gravedybde: 6 900 mm

Maskinvekt: 38 000 kg

Motoreffekt: 210 kW / 286 hk

Rekkevidde: 11 220 m.m

Skuffestørrelse: 2 000 liter

Zx350 gjennomsnitt dieselforbruk 32 liter pr. time
Gj.snittlig kW forbruk 145kW/time (regnet ut fra dieselforbruk)



Beltegraver ZX690-6

- En fleksibel stormaskin

Maskinvekt: 70 600 kg

Motoreffekt: 345 kW / 463 hk

Skuffestørrelse: 4 500 liter

Zx690 gjennomsnitt dieselforbruk 55 liter pr. time
Gj.snittlig kW forbruk 250kW/time (regnet ut fra dieselforbruk)

Nettstrøm 400 volt/125 amp.
Tilkobling for batterimoduler



Battery Shovel

We use alternative power sources reflecting our eco-consciousness. The battery powered excavator has zero gas emissions, substantial noise reduction with energy conservation.



Lithium ion Battery-type Mini Excavator



ZX35B Lithium ion battery-type mini excavator

All hydraulic motors and cylinders are powered by lithium-ion battery equipped in the main body. As no exhaust gas is emitted from the equipment, it eliminates withering of the crops and plants, and there is no ventilation issues due to exhaust gas when carrying out dismantling indoors or tunnel work. In addition, a significant level of noise reduction measures as there is no engine - the mini excavator can adapt to a variety of site conditions within its application range, including construction works in cities where excellent noise reduction is especially desired. The mini excavator contributes to reducing CO₂ emissions and achieving low-carbon society.



Maskin vekt 16t

Motor effekt 75kW

Batterikapasitet 170kWh

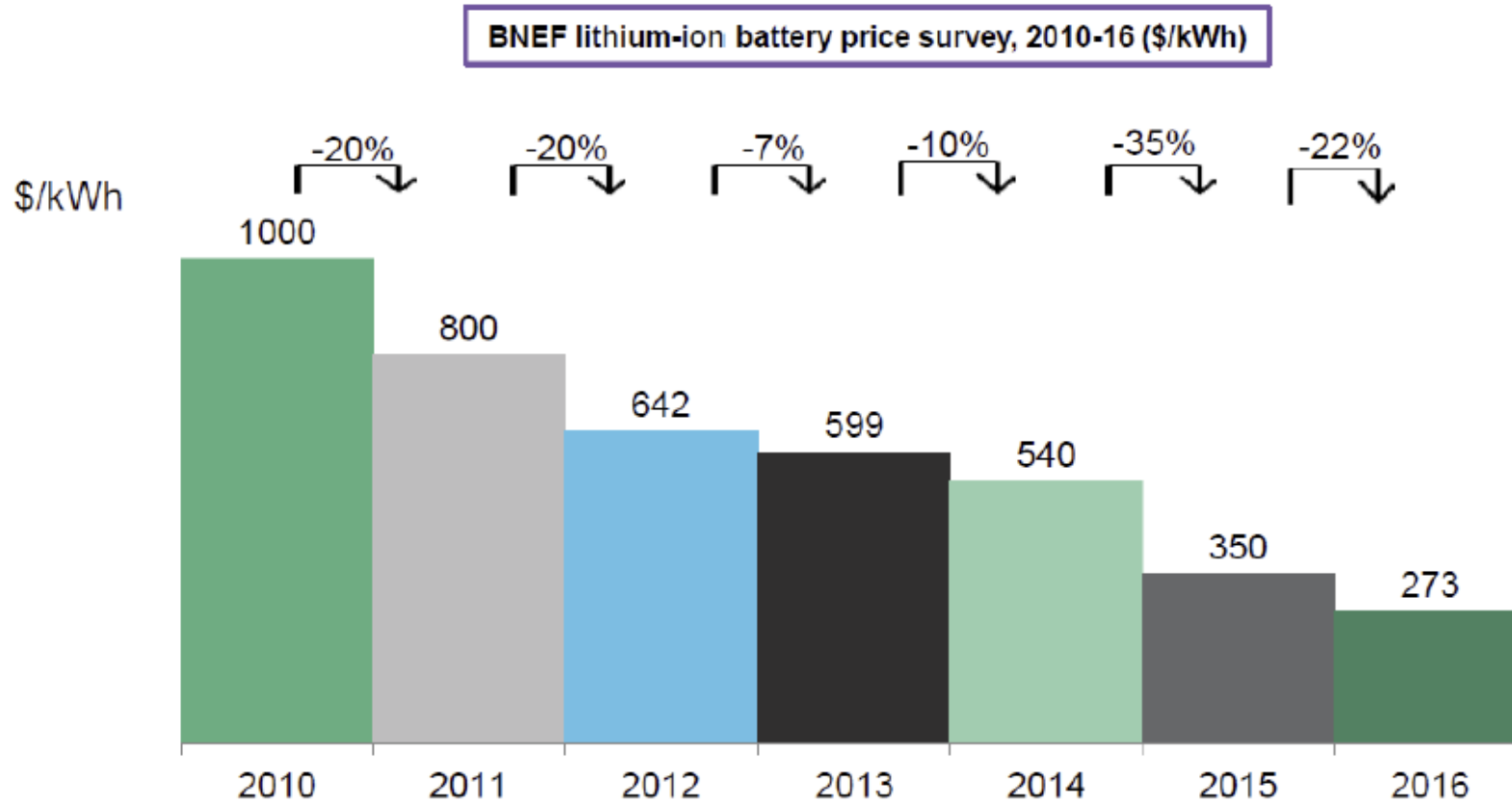
Gj.strømforbruk 30 - 43kWh

Lade effekt 44kW, 4 timer 110amp./400volt

4 timer 63amp./690volt

The price of lithium-ion batteries in 2016 was \$273/kWh – a drop of 73% since 2010.

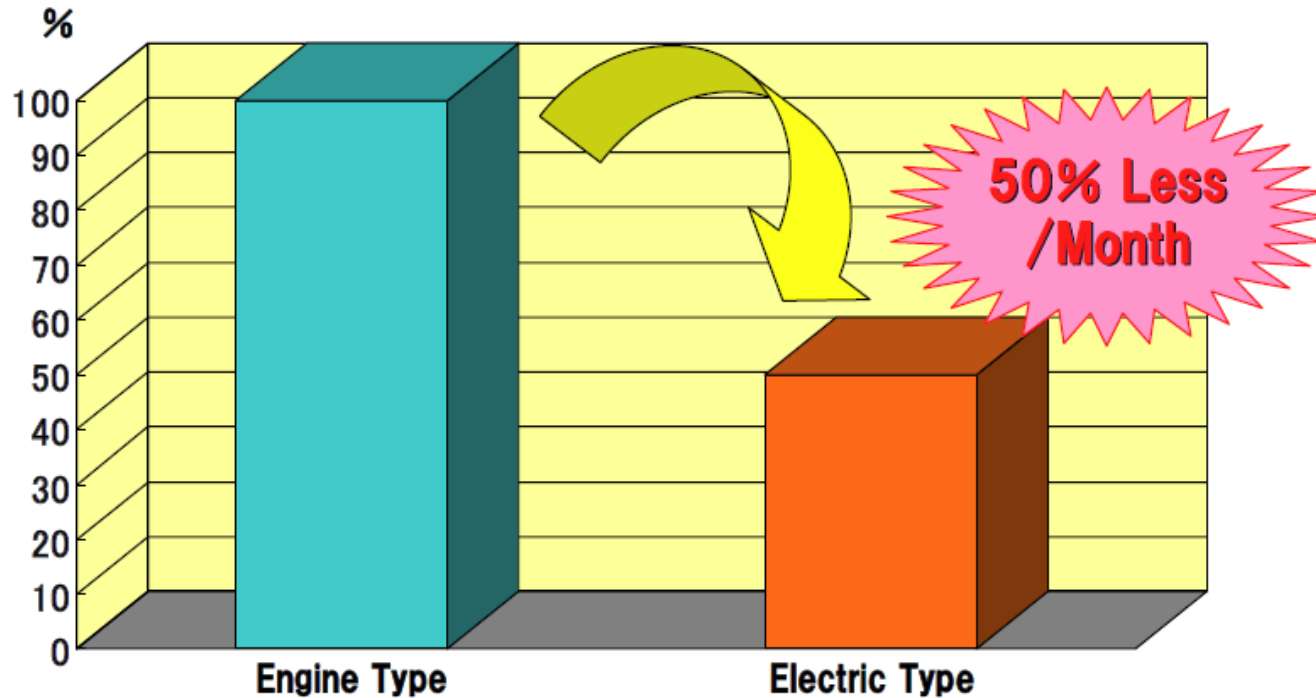
- The steep decrease in prices in the past few years is in part due to technology improvements and economies of scale.
- However, fierce competition between the major manufacturers has been instrumental in bringing down prices.



Notes: This includes cells plus pack prices. For years where there were two surveys, the data in this chart is an average for the year.

Source: Bloomberg New Energy Finance

Redusert driftskostnader kostnader



Hitachi Zx670

Dieselforbruk i gj.snitt: 55 liter pr. time.

Kostnad 8kr.pr. liter x 55 liter = kr. 440,-

Strømforbruk gj.snitt 250kW pr.time

Kostnad 0,70 kr. pr. kW x 250 = kr. 175,-

Besparelse kr. 265 pr. time

Kjørt 8500 timer på 4 år:

Besparelse

= kr. 2 252 500

Motorolje, olje- og dieselfilter forbruk til 8500 timer

Dieselfiltre kostnad pr. 500 timer kr. 2394,-

Motor olje kr.3170, oljefilter kr.1130 =kr. 4300 pr. 500 timer

Totalt 8500 timer/5 år = kr. 113 800

Zx350

Beregnet innsparte driftskostnader:

Gjennomsnitt dieselforbruk 32 liter pr. time x kr.8.80 (eks.mva.) kostnad pr. time ca. kr.282,-

Kostnad oljefilter, dieselfilter og motorolje pr.500 time ca.kr.6500,- = ca.kr.13,- pr.time.

Totalt beregnet drifts og service kostnader kr. 295,-

Estimer strømforbruk/kostnad:

32 liter diesel pr. time tilsvarer ca.145 kW pr.time i gjennomsnitt x kr.0,70 pr.kW = kr.101,50 pr. time.

Besparelse:

Differanse diesel – strøm pr. time $kr.282 - 101,50 = kr.180,5$ + servicekostnader kr.13 gir er total besparelse på $kr.193,50$ pr. time. Ved 2000 timer $(2000 \times 193,50) = \mathbf{kr. 387\ 000,-}$



Capacitor

Engine

Motor generator

Inverter

Traction motor

Traction motor

Inverter



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