

## Hansen Industrial gearbox services

Closely connected to the industrial gearbox activity of Hansen Industrial Transmissions (HIT), our Services operation provides customer-focused and flexible service solutions for industrial gearbox and drive packages maintenance, whether they are Sumitomo Drive Technology products or other brands with either heliocoidal, spiral or planetary gearing.

### Proactive Service: Preventive & predictive maintenance

Maintaining the gearbox is very important to keep the stable cooling and production in the factory. We provide the diagnosis by our experienced professional on-site technician and the maintenance proposal so that the customer can assure to use our products safely.

### After Service parts & repairs, Breakdown & shutdown management

It is very important to minimize the downtime of production if the breakdown of gearbox happens. We support the customer to minimize such downtime by our global service network, quick supply of spare parts, quick correspondence and repairs and etc.

### What differentiates us?

- We service all brands
- Plug & Play solutions for obsolete gear units
- Large technical expertise & dedicated resources
- +95 years of experience
- Global network Authorised Service Partners
- 24/7 service hotline +32 3 450 1234

### Hansen Industrial gearbox services



Terelstraat 208  
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24/7 SERVICE HOTLINE  
Tel. +32 3 450 12 34



## Worldwide locations

### World Headquarters JAPAN

Sumitomo Heavy Industries Ltd.  
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### Headquarters & Manufacturing CHINA

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### Headquarters & Manufacturing EUROPE

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### Our Subsidiaries & Sales Offices in EUROPE, MIDDLE EAST, AFRICA & INDIA

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## Sumitomo Drive Technologies



## POWERFUL SOLUTIONS FOR WET COOLING TOWERS AND AIR COOLED CONDENSERS

INDUSTRIAL GEARBOXES HANSEN M4 ACC/HANSEN P4





## Powerful solutions for Wet Cooling Towers and Air Cooled Condensers

Many industries are using steam, water or other cooling fluids that need to be cooled down for reuse of the fluid in the process or for temperature limitations on waste water.

Typically cooling tower users can be found in power generation plants and in the chemical industry. In environments where water resource is regularly present, the 'wet' cooling tower principle will mainly be used. In dry environments where water resources are scarce, Air Cooled Condensers (ACC) are ideal.

## Products

### Hansen M4 ACC

Helical gearboxes, dedicated for air cooled condensers



Hansen M4 ACC

### Hansen P4

Right angle gearboxes, for wet cooling towers and air cooled condensers

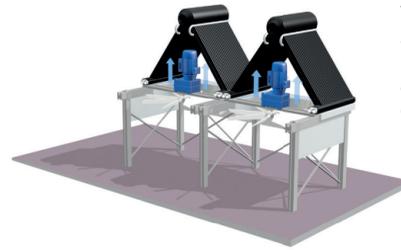


Hansen P4



## Hansen M4 ACC Helical gearboxes, dedicated for air cooled condensers

In an air cooled condenser, hot water or steam is guided through a closed circuit. A fan pushes the air through a huge heat exchanger. The cooling fan is typically driven via a vertical gearbox with parallel shafts.



The Hansen M4 ACC drives are specifically designed for Air Cooled Condensers in dry environments where water resources are scarce. As a standard, these units come with a lantern housing, allowing an alignment free connection of a motor on the top of the gear unit.

### Features and advantages

- Specifically developed design offers a cost effective, robust & efficient solution.
- Dedicated monobloc housing – available in 6 sizes.
- Torque range from 20 to 70 kNm and a wide range of reduction ratio's.
- Optimized gear geometry for maximum load capacity, minimum losses & lower noise levels.
- Designed in accordance with the Cooling Tower Institute (CTI) specifications.
- Standard leakage-free drywell construction at the low speed shaft.
- No external piping, easy to install.
- Lubrication insured at windmilling conditions.
- Reference to dedicated selection method taking starts and stops into account.
- More than 10,000 installations in the field.

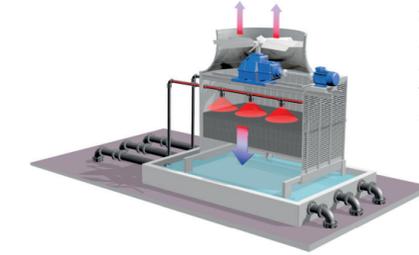
### Optional hydraulic brake system (patented)

The unique brake design for Hansen M4ACC gear units allows the user to safely slow down the gear unit and condenser fan, and keep them at standstill during maintenance activities in dry cooling towers. This way we offer a tool to avoid the risk of maintenance personnel being injured due to windmilling.



## Hansen P4 Right angle gearboxes, for wet cooling towers and air cooled condensers

In a Wet cooling tower, hot water is sprayed inside a relative small tower. The air is pulled through the tower with a fan driven via typically a vertical gearbox with right angle shafts.



With the Hansen P4 gear units, fully customized to the specific needs of the cooling tower industry, we offer a truly functional solution for wet cooling towers. Also for air cooled condensers that need a right angle drive solution, the Hansen P4 gear units are a perfect fit.

### Features and advantages

- Dedicated vertical housing – available in 11 sizes.
- Torque range from 2.6 to 100 kNm.
- Reduction ratios from ratio 3.55 – 22.4.
- Extended bearing span of the low speed shaft increases the dynamic stability.
- Optimized lubrication system for very low operating speeds and windmilling conditions.
- Designed in accordance with the Cooling Tower Institute (CTI) specifications.
- High resistance to corrosive and extreme humidity environments.
- Low noise and vibration levels.
- Standard optimal sealing system, designed to keep the oil in and dirt out.
- ATEX Available.

