

HOVE A/S

# KEEP MOVING PARTS MOVING



**HOVE**

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Hove's solutions have helped us optimize our global maintenance efforts and ease the work of our technicians.

***Vestas***





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# BETTER FOR YOUR BUSINESS, BETTER FOR THE PLANET

## About us

Hove A/S is the leading developer and producer of advanced solutions for lubricating mechanical bearings.

Around the world, we help customers ensure lubrication is carried out and documented correctly. This helps them reduce operating costs, workplace injuries, mechanical breakdowns, and human mistakes.

Our holistic solutions allow operations with heavy machinery to maintain bearings using as few resources as possible – helping to cut costs and keep the green transition moving in the right direction.

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Hove continues to provide innovative solutions to common issues in wind turbine maintenance.

Invenergy



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# WHERE THE MOVEMENT HAPPENS

## Application areas

Wind turbines and other heavy machinery such as harbor cranes contain several mechanical bearings. They allow the different moveable parts to move.

The bearings are made of various metal components that must be able to wear against one another without causing damage—which is why the bearings must always be lubricated with the correct lubricating grease.

Heavy machinery bearings come in several different shapes and sizes. Each requires a particular type and amount of grease to function optimally and stay serviceable for as long as possible.

This is where our products enter the picture. Hove solutions are designed to pump the correct type and amount of lubricant into each bearing—efficiently and reliably.



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# THE WORLD'S MOST ADVANCED LUBRICATION SOLUTIONS FOR HEAVY MACHINERY

## Our products

Hove's solution portfolio includes lubrication pumps, grease cartridges – which we fill according to customer specifications – a real-time tracking and documentation solution, plus any accessory needed to lubricate heavy machinery.

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#### Hove's grease cartridges

- Invented and patented by Hove
- Used with all Hove pumps
- 5 kg, 3 kg, and 1.5 kg
- We fill according to customer specification



#### Easy Grease v. 4

- For direct lubrication of bearings
- Used on Vestas turbines
- Delivers 600 g/minute (Up to 250 bar)
- Weighs 9.5kg
- User-friendly display (with set-and-forget function)



#### Refiller v. 2

- For refilling central lubrication system
- Used on turbines from Siemens, Nordex, Enercon, Senvion, Suzlon, etc.
- Delivers 1800 g/minute (Up to 100 bar)
- Weighs 10.5 kg



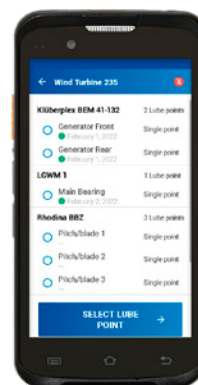
#### Hove ONE

- Hybrid solution, especially built for GE turbines
- Delivers 1600 g/minute (Up to 300 bar)
- Weighs 12.5 kg
- User-friendly display (with set-and-forget function)



#### Hove Carry

- For mining operations, port terminals and similar industries
- Battery-powered
- Delivers 500 g/minute (Up to 150 bar)
- Weighs 13 kg (when loaded)
- User-friendly display
- See next pages for more info



#### Hove Smart Lube

- For tracking and documenting lubrication
- Used with all Hove pumps with display
- Developed in collaboration with Trifork A/S
- Patented until 2037
- See next pages for more info

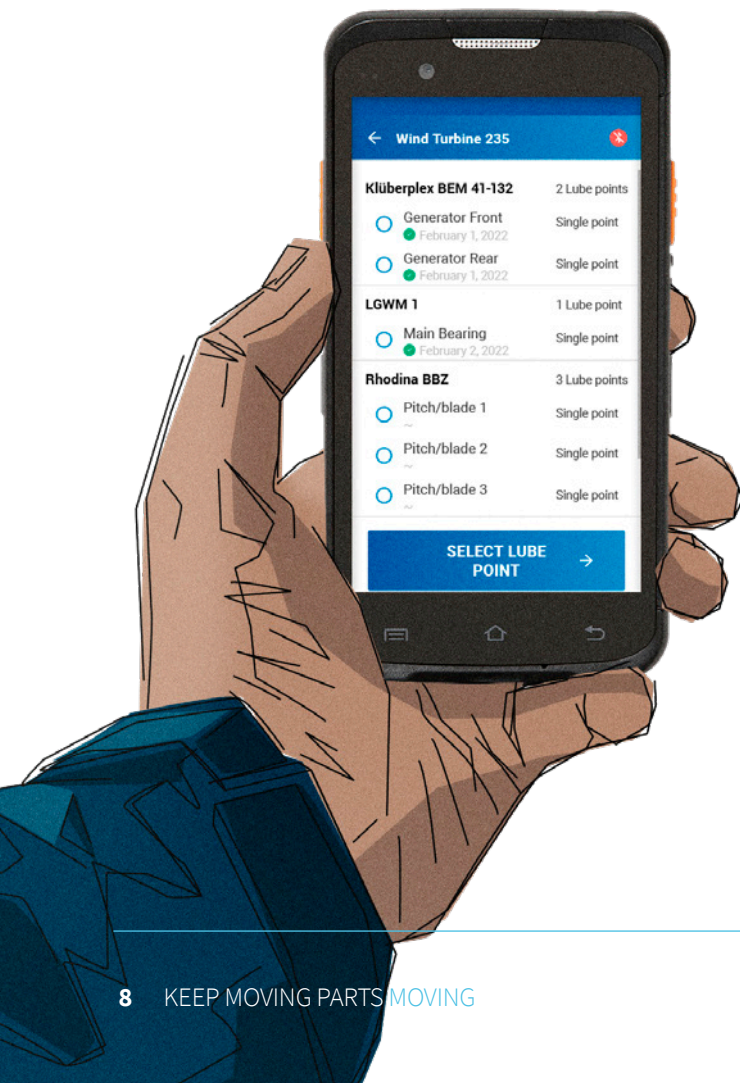
# MAINTAIN SMARTER, MAINTAIN CONTROL

## Introducing our latest solutions

### Hove Smart Lube

Hove Smart Lube is a field-proven digital solution. Plug it into your operations, get full traceability and maintain control of everything linked to lubrication.

The development of Hove Smart Lube started with a recurring observation during wind turbine testing with customers. Again and again, our partners and we noted that existing tools and systems could not eliminate the risks of defects and insufficient documentation.



### Hove Smart Lube gives you...

**Real-time tracking and full traceability.** Minimize paperwork and support analytical, data-driven maintenance with easy-to-pull data.

**Correct lubrication and reduced footprint.** Minimize lubrication usage and increase bearing lifetime with a more accurate lubrication service.

**Clear overview and documentation.** Ensure all documentation is complete, accurate, and unified in one simple overview.

**Easy implementation and handling.** Get a solution that is easy to implement, integrate and use for technicians and managers.





### Hove Carry

Servicing heavy machinery in ports and mines is a different ball game. Long distances between lubrication points and unfavorable working conditions mean lubrication is a troublesome and time-consuming task with a large margin for error.

With Hove Carry, we offer a solution tailor-made for said industries. This lubrication pump is carried as a backpack to allow technicians to move freely wherever they need to. It can be integrated with Hove Smart Lube to ensure that lubrication is performed and documented precisely as it should be. And the durable, field-proven design gives operations an efficient and reliable all-round lubrication solution.

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### Inside Hove Carry...

1. Powerful Hove grease pump, refined over decades for the wind turbine industry
2. Innovative grease cartridge for easy refill
3. Rechargeable Li+-Ion battery with easy recharge connection
4. Pair with Hove Smart Lube PDA device for easy lubrication, tracking, and documentation
5. Durable casing with dolly suitcase pull-up handle or backpack straps

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The Hove concept is perfectly aligned with TCGM’s mission of adding real value to the lives of wind turbine technicians globally. Their products make the job easier and more fun, while the Hove team is actively focusing on improving the technician’s experience.





# MOVING THE WORLD IN THE RIGHT DIRECTION

## Hove and UN's Sustainable Development Goals

Producing enough clean energy to drive the earth's green transition will require competitive prices for wind energy. At Hove, we play our part in reaching this goal as we help optimize wind farm operations to reduce maintenance costs significantly.

As our solutions improve the operation of industrial machines and minimize the risk of wasting lubricants, they also create more resilient and sustainable industrial infrastructure.

Furthermore, we focus on ensuring sustainable conditions related to ESG (environment, social, and governance) for ourselves and our customers. Our efforts range from maintaining ISO certifications regarding quality and the environment to improving maternity and paternity schemes.





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Hove A/S is an innovative and proactive company that has supported our business needs globally for years.



# 20+ YEARS OF INNOVATION

## Our history

In the year 2000, one of the world's largest wind turbine manufacturers approached engineer Thomas Hove with a problem: Their service engineers suffered from more and more muscular injuries from carrying heavy manual lubrication pumps.

Hove came up with an ingenious answer in the shape of an automated lubrication pump and a flexible lubrication cartridge. His solution markedly eased the engineers' workload and went on to revolutionize wind turbine maintenance.

Still today, our R&D department continues to blaze the trail in close collaboration with our customers. Together, we identify problems, risks, and needs which we strive to address with new ideas and solutions.



**HOVE A/S**  
Founded by Thomas Hove. Development of the first pump for wind turbines. (2000)

**2000**

**REINFORCEMENT**  
Hans Christian Hansen acquires 49% of Hove, and Thomas Cramer is appointed to lead Sales. (2009)

**2009**

**PATENT**  
Development of patented collapsible container holder solution. (2006)

**2006**

**GROWTH**  
Hove wins fourth large Wind customer and has established distribution in the USA and Australia. (2012)

**2012**

**NEW OWNERSHIP**  
Thomas Hove leaves the company. Dennis Schade Forchhammer buys 11%. (2015)

**2015**

**USA**  
Hove establishes a subsidiary in the USA headed by Maja Vonsild Jørgensen. (2017)

**2017**

**HOVE SMART LUBE**  
Hove starts development of new IoT solution. (2019)

**2019**

**IPO**  
Maja Vonsild Jørgensen is appointed CEO in Denmark. Hove is introduced on Nasdaq First North Growth Market Denmark. Subsidiaries are established in India and Brazil. (2021)

**2021**

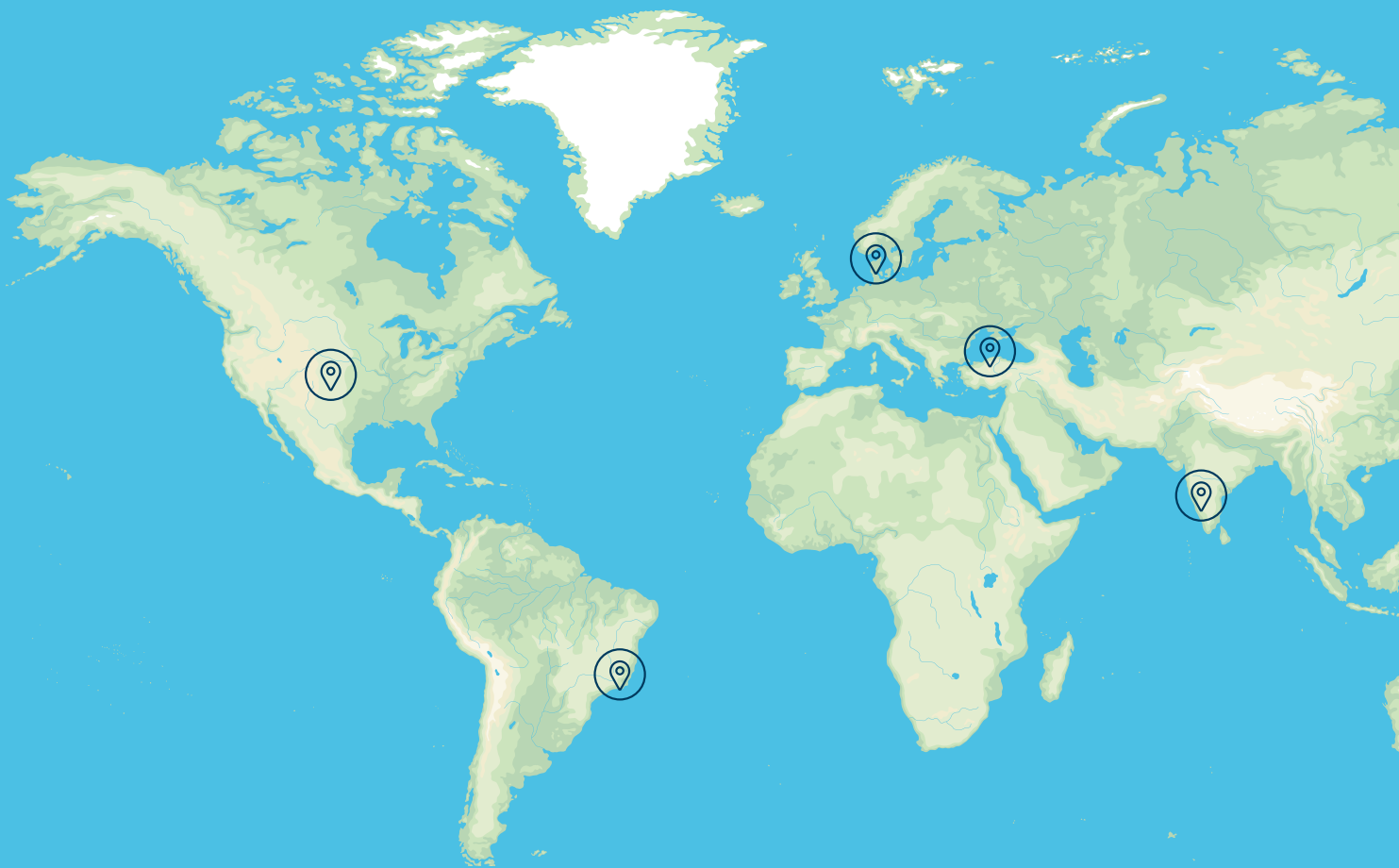
**FULL SPEED AHEAD**  
Hove opens warehouse and production in the USA. Maja Vonsild Jørgensen is appointed COO in Denmark. Field testing of Hove Smart Lube begins. (2020)

**2020**

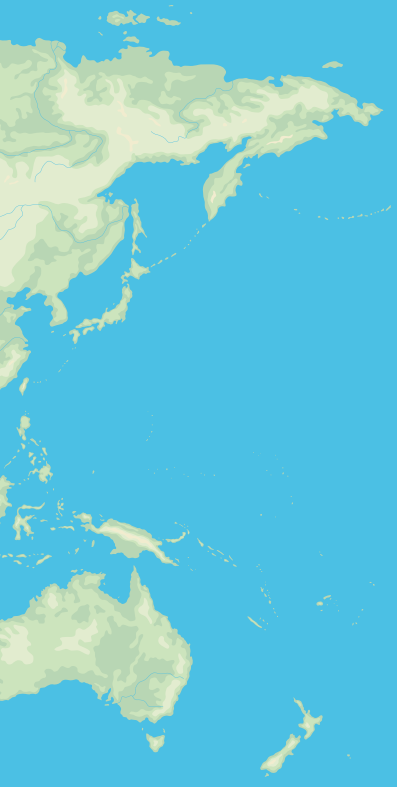
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# GET IN TOUCH

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#### Our contact information

##### HOVE HEADQUARTERS

HOVE A/S  
Herstedøstervej 7  
2600 Glostrup  
Denmark  
Phone: +45 70 22 10 22  
Fax: +45 70 22 10 82  
Email: [hove@hove-as.dk](mailto:hove@hove-as.dk)  
Sales: [sales@hove-as.dk](mailto:sales@hove-as.dk)  
Website: [www.hove-as.com](http://www.hove-as.com)

##### HOVE SUBSIDIARY NORTH & SOUTH AMERICA

HOVE AMERICAS  
3030 W Hampden Ave  
Englewood, CO, 80110  
Denver  
USA  
Phone: +1 720-682-6181  
Email: [contact@hove-americas.com](mailto:contact@hove-americas.com)  
Website: [www.hove-americas.com](http://www.hove-americas.com)

##### HOVE SUBSIDIARY INDIA

HOVE LUBRICANTS INDIA PRIVATE LIMITED  
Gat No./ Survey No. 271/4  
Bhugaon, Taluka-Mulshi  
Pune, India  
412115  
Phone: 0091-7507876137  
Email: [paragy@hove-india.com](mailto:paragy@hove-india.com)  
Website: [www.hove-as.com](http://www.hove-as.com)

##### HOVE SUBSIDIARY BRAZIL

HOVE BRASIL EQUIPAMENTOS E SERVIÇOS DE  
LUBRIFICAÇÃO LTDA.  
Av. Marques de São Vicente, 230,  
conjunto 1218, sala 3C  
01.139-000, São Paulo, SP  
Brazil  
Phone: +55 11 99966 3283  
Email: [onb@hove-americas.com](mailto:onb@hove-americas.com)  
Website: [www.hove-americas.com](http://www.hove-americas.com)

##### HOVE SUBSIDIARY TURKEY

HOVE TURKEY  
Trump Towers, Kuştepe  
Mecidiyeköy Yolu Cd. No:12  
34381 Şişli/İstanbul  
Turkey  
Email: [sales@hove-turkey.com](mailto:sales@hove-turkey.com)  
Website: [www.hove-as.com](http://www.hove-as.com)



[www.hove-as.com/](http://www.hove-as.com/)

Hove A/S, Herstedøstervej 7, DK-2600 Glostrup.  
CVR 25804821

