

Hansen Industrial Transmissions commits to be a pioneering innovator. The production of high performance gear units stems from an interactive partnership with our clients, the end users and the actively engaged manpower of our global enterprise. Embracing design, manufacturing and customer services, Hansen has grown into a world leader in its field. Today, we set standards for both product and working environment, inciting a knowing environment to seize all new and inspiring technologies.

## powerful solutions for material handling



See our worldwide sales & service network at [www.hansentransmissions.com](http://www.hansentransmissions.com)



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**Flexible solutions for large conveyors, travel drives and bucket elevators:** Hansen P4 gear units are at the heart of the product range for bulk material handling applications. With torque ratings up to 1100 kNm for both vertical, horizontal, parallel and right-angle shaft arrangements, Hansen P4 units offer top quality yet economical solutions with an exceptional flexibility to customer specifications and required options.

## COMPLETE AND POWERFUL SOLUTIONS FOR THE BULK MATERIAL HANDLING INDUSTRY

*Hansen Industrial Transmissions has a long history of solid partnerships with suppliers and end-users in the mining and material handling industry. Thousands of drive packages for conveyors and other associated equipment are installed worldwide, and the versatility and durability of these units is well documented. Our staff visits customers to find out what is expected from our products, asking for recommendations leading to the proper product selection, the required user-friendly features, and future product developments we should consider. The result is a complete range of drive products suited for the rigorous demands of bulk material handling. Thanks to this partnerships with world-class suppliers, Hansen provides fully integrated drive solutions and services from a single source.*



# m a t e r i a l h a n d l i n g



### TRAVEL DRIVES

The Hansen I4 invertible gear unit has a large front section to accommodate a large lantern and fluid coupling. This highly suitable conveyor drive is compact and robust and alleviates the past requirement of separate drives for left and right hand orientation on multiple drive conveyors. This gear unit can be inverted, i.e. turned 180° for either handling. The resultant reduction in the number of spare units leads to significant cost and space savings.

Besides the standard horizontal solution, space constraints often lead to typical travel drive configurations. The Hansen P4 range has been extended with a design allowing horizontal mounting of the motor by a scoop mount or a lantern. Hansen P4 can be installed vertically, with flange or foot motors. Special care has been taken to ensure optimal lubrication and sealing in all configurations.

### CONVEYORS

Conveyor drives come in a wide variety of configurations. Depending on customer preferences and project necessities, such as inclined installation of the conveyor, environment, serviceability etc., a wide range of solutions can be provided.

### BUCKET ELEVATORS

As for conveyor drives, a variety of drive package arrangements is available for bucket elevators: different motor assemblies (lantern, motor base, bed plate), backstops and auxiliary drives all belong to our range of options.



### WHY HANSEN?

- Hansen matches the drive to the application and offers proven reliability under the most severe conditions.
- Carburised and ground gearing of both bevel and helical gears excels in strength, torque capacity, surface durability and low noise performance.
- Large overhung load capacity of the gear unit.
- Continuous oil circulation through the bearings ensures a long, trouble-free working life for the gear unit.
- The internal construction of the gear unit housing allows for simple and complete oil drainage.
- Careful positioning of the inspection cover, breather, drainage and filling plugs and instrumentation eases survey and maintenance of the gear unit.
- For protection during transport and installation, gear units are run in with rust preventive oil, have a rust preventing primer on both the outside and the inside, and shaft extensions are protected. Upon request, the gear unit can be conditioned for storage over an extended period of time.
- Hansen I4 is self-aligning with regard to the motor, lantern, gear unit, and low speed rigid coupling for ease of installation and maintenance.
- One-stop-shopping for complete drive package solutions.
- In-depth engineering support and complete documentation before and after the order.
- Hansen's global service capability significantly reduces downtime.