

Rack & pinion delivers unique advantages

Over the past six decades, the rack & pinion concept has been evolved and refined, bringing its major benefits to new market applications in the industrial elevator sector.



Forget the need for elevator shafts and special machine rooms for traction drive. The Alimak elevator carries its own machinery on top of the car, eliminating the need for a separate machine room. Moreover, the elevator can be installed without a load-bearing shaft, as the guide mast transfers the vertical loads to the foundation. Perhaps

best of all, the initial capital investment in a rack and pinion solution is often lower than that for a conventional wire rope elevator.

Reassuring safety features

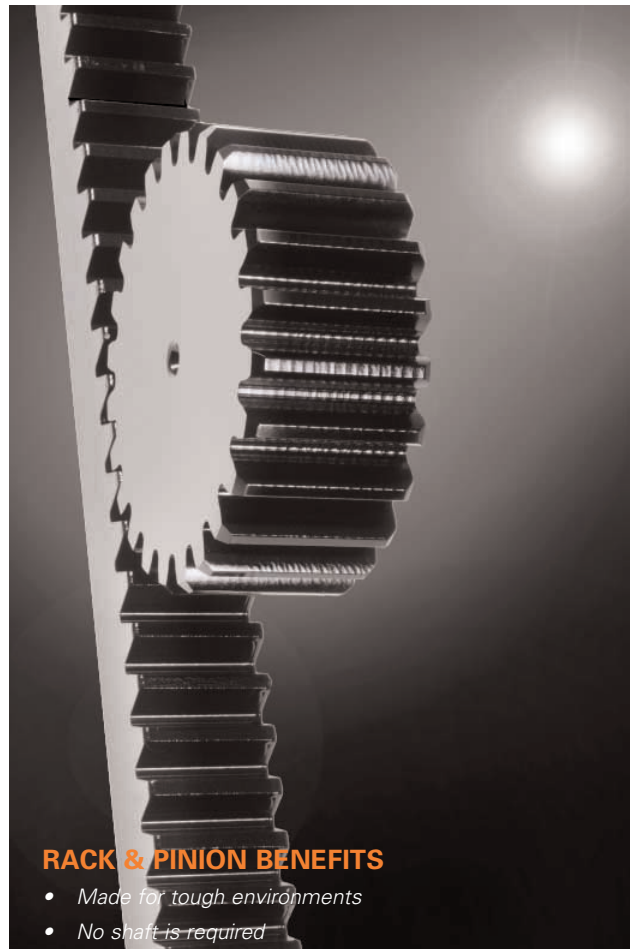
Safety has always been a major priority for Alimak Hek's design engineers which is why we are leaders in elevator reliability.

The progressive Alimak safety device comes into operation if the elevator should exceed the rated speed. The car is then brought to a smooth stop and the power to the drive motors is cut off.

The unique self rescue possibility provided by the centrifugal brake allows the car to be safely lowered to the next landing level in case of a power failure.

Limit switches are provided at top and bottom levels and there is an ultimate limit switch and buffer assemblies in case of overrun. A phase failure relay protects the electrical system.

As an extra precaution, the elevators can be fitted with an overload sensing device.



RACK & PINION BENEFITS

- Made for tough environments
- No shaft is required
- No machine room is required
- Indoor or outdoor installation
- Small footprint
- Low space required above the elevator at top landing
- No concrete pit is required
- Small interference to buildings or structures
- Easy to retrofit to existing buildings or structures
- Can be installed on inclined and curved surfaces
- No lifting height limits
- High capacities and speed
- Accurate leveling at landings
- Can descend based on gravity control in an instances of a power outage
- Durable and easy to maintain