APPLICATIONS IN SPECIAL ENVIRONMENTAL CONDITIONS

Low ambient temperature
For low temperatures below –25°C please consult Rulmeca. Special oil, special seals, and possible anti-condensation heater may be required. Re-greasable seals to avoid drying out the labyrinth seals.

High ambient temperature
For high ambient temperatures above +40°C please consult Rulmeca.

Extremely dusty/ abrasive, wet/ high humidity
IP6X re-greasable seals, special finish, e.g. stainless steel – AISI 303/4 or even AISI 316, semi-rust-free, special coating, rubber lagging.

Grain handling - Extremely dusty where dangerous atmospheric conditions apply

Frequent start/ stops

Type	Max. No. of Start/stops
138LS	240 per hour
165LS	180 per hour
220M & H	120 per hour
320M & 320H, 400M & 400H	25 per hour
500H, 630M & 630H, 800M, 800H/HD	10 per hour
1000HD	5 per hour

The number of start / stops depends largely on the conditions of use. The values given are a guide under optimal conditions of use. The actual maximum number of starts / stops can be determined by the technical department of Rulmeca and is binding only by written confirmation.

Food handling applications
Re-greasable seals; Stainless steel versions for high pressure and chemical wash down; food grade oil and grease; Food quality rubber lagging being oil, fat & grease resistant. FDA, USDA, FSIA & FESD recognized materials.

Indexing conveyor/ decline conveyor/ reversible inclined conveyor
Electromagnetic brake. Special shafts prepared to fit an external brake - 500H-1000HD.

Inclined conveyor (not reversible)
Mechanical backstop

Reversible conveyor
Sufficient time delay between forward and reverse. The Motorized Pulley must come to a complete stop before reversing.

Variable speed conveyor
AC frequency converter.

Using a Motorized Pulley without conveyor belt or with a belt covering less than 2/3 of the Pulley face width
Use drives only from a special range of Motorized Pulleys developed for this purpose. Do not use standard Motorized Pulleys unless accepted by Rulmeca. Insulation class H, extra oil. Connect thermal protector.

Motorized Pulleys mounted non-horizontally between 5° - ≤ 90°
Special execution! Please consult Rulmeca. Extra oil, grease packed top bearing. Electrical outlet:
- To be re-positioned to the opposite end of standard
- To be positioned at the top when installed.

Impact load
Over-sized Motorized Pulley. Please consult Rulmeca.

High power rated motors. Starting under load
To reduce the starting current it is possible to use starting devices such as star/delta starter, electronic soft starter etc.
Please be aware that, when connecting a star/delta switch, the power of the motor will drastically be reduced and could cause overheating of the motor. If full torque is required during start a soft starter with torque boost should be used.

RULMECA Motorized Pulleys can be used in many dust-prone areas. For your specific application, please contact Rulmeca technical office for approval of suitability.

Marine environment. Ship loading/ un-loading conveyors etc.
Re-greasable IP66/67 sealing system and/ or stainless steel or semi stainless options. Rubber or ceramic lagging.

High altitude > 1000 m
Please consult Rulmeca.

Chemical and/or aggressive environments
Please consult Rulmeca.

Underground mining/tunnelling applications where possible dangerous atmospheric conditions apply or where the Motorized Pulley is to be flame proof or intrinsically safe
Rulmeca Motorized Pulleys are not intrinsically safe or explosion proof to meet these requirements. Please consult Rulmeca.

Critical speed requirements
Nominal speeds can deviate by +/- 10%. Where exact speeds are required, please consult Rulmeca.

Recycling, aggressive environments
Stainless steel shafts, re-greasable labyrinth seals, special painting and/or special oil.

Metal separators and metal detectors
Special execution as to amount of oil, type of bearings, electrical connection and built-in position.

Application: Fertilizer and potash.
Still in work after more than 30 years in an aggressive environment.