

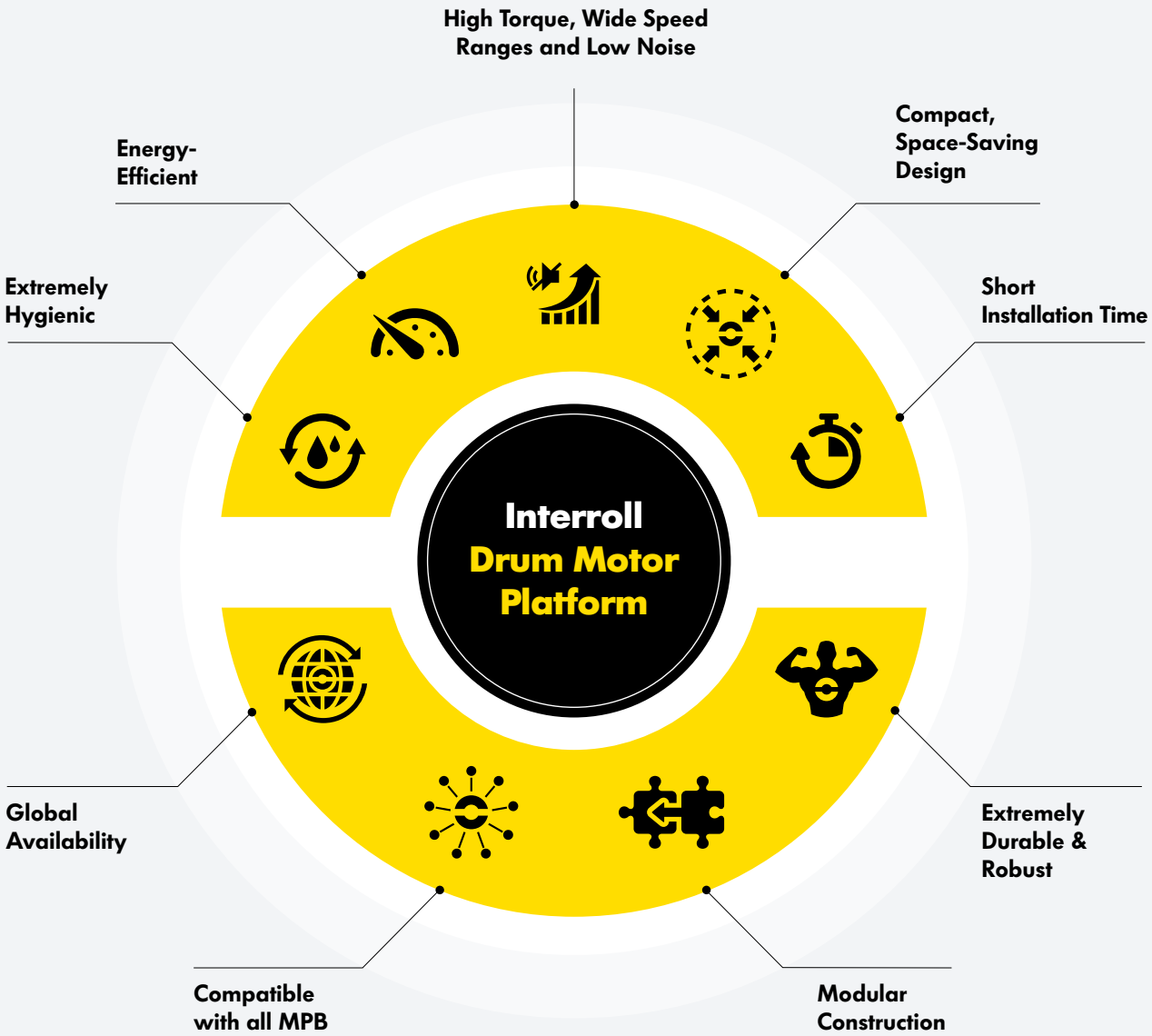
The Interroll Drum Motor Platform **A Versatile Belt Drive for a Broad Range of Applications**

Highly Efficient and Hygienic Belt Drives

Interroll Drum Motors are used as a drive mechanism in belt conveyors.

Thanks to over 50 years of experience in material handling, Interroll can offer a comprehensive range of belt drives for a vast array of applications.

The **Interroll Drum Motor platform** allows you to create belt drive solutions made of standardized, high-quality components that meet your exact needs and are compatible with all Modular Plastic Belts (MPB).



A Versatile Drive for Many Applications



Interroll Drum Motors are used in countless applications in several different industries:

> Food Processing



> Tire & Automotive



> Airports Security & Baggage Handling



> Packaging



> Courier, Express & Parcel



> E-Commerce



> Warehousing & Distribution



> Industrial Manufacturing



> Supermarket Checkstands





THE FEATURES

THE BENEFITS



The Interroll Drum Motor...

This helps you...



> Extremely Hygienic



... follows **EHEDG guidelines** and meets the most stringent food industry regulations.



> Energy-Efficient



... is built to be extremely **energy-efficient**.



> High Torque, Wide Speed Ranges and Low Noise



... features a **wide** number of gear stages and a stable planetary gear box.



> Compact, Space-Saving Design



... is a **self-contained unit** mounted within the conveyor frame.



> Short Installation Time



... can be installed much faster than a gear motor. Also, a new plug-in cable solution is available.



> Extremely Durable & Robust



... is very robust and practically **maintenance-free**.



> Modular Construction



... features durable, easy-to-assemble **standardized components**.



> Compatible with all MPB



... can drive all of your **modular or thermoplastic belts**.



> Global Availability



... is a proven product available **all over the world**.

> Extremely Hygienic



... comply with **all hygienic regulations** and prevent costly recalls.

> Energy-Efficient



... **reduce the running costs of your drives** by up to 50%.

> High Torque, Wide Speed Ranges and Low Noise



... **cover a wide range of applications** but still offer an extremely quiet belt drive.

> Compact, Space-Saving Design



... **save a lot of space** and add more conveyor lines within the same facility.

> Short Installation Time



... **reduce installation time** and complexity, which means more efficiency for your business.

> Extremely Durable & Robust



... **lower your maintenance costs** and cut downtime significantly, thus increasing your overall productivity.

> Modular Construction



... have **better lead times** on your drives.

> Compatible with all MPB



... **become flexible** in terms of applications and simplify your design efforts.

> Global Availability



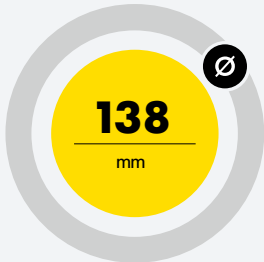
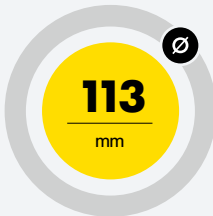
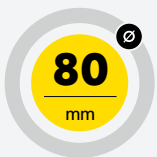
... **have consistent product specifications** and the same high-quality solutions all over the world.



Interroll Drum Motor Platform Overview

Our Drum Motor Platform is available with both **Asynchronous and Synchronous technology**.

Diameters are **80, 113 or 138 mm**.
The gearbox can be offered in steel or technopolymer.



Technical Data

SERIES	DM 0080	DM 0080	DM 0080	DM 0080	DM 0080	DM 0113	DM 0113	DM 0113	DM 0138
Motor technology	Asynchronous	Asynchronous	Asynchronous	Asynchronous	Synchronous*	Asynchronous	Asynchronous	Synchronous*	Asynchronous
No. Phase	3-phase	3-phase	1-phase	1-phase		3-phase	1-phase		3-phase
Diameter (mm)	81,5	81,5	81,5	81,5	81,5	113,5	113,5	113,5	138
Material gearbox	Steel	Technopolymer	Steel	Technopolymer	Steel	Steel	Steel	Steel	Steel
Rated power (W)	40 - 140	40 - 75	25 - 110	25 - 110	145 - 425	160 - 550	250	300 - 1100	160 - 1000
Rated torque (Nm)	1,2 - 59,8	3,2 - 20,3	0,8 - 39,2	4,5 - 21,4	2,1 - 65	6,7 - 157	19,1 - 71,5	5,4 - 132,7	15,7 - 283,3
Max. Belt pull (N)	1467	498	961	525	1594	2779	1265	2349	3454
Shell Speed (m/s)	0,03 - 2,5	0,07 - 0,87	0,05 - 2,49	0,05 - 0,9	0,08 - 2,72	0,05 - 1,85	0,18 - 0,67	0,16 - 2,96	0,04 - 2,29
Drum width FW (mm)	200 - 1200	239 - 1200	250 - 1200	287 - 1200	192 - 1200	257 - 1400	297 - 1400	207 - 1400	307 - 1600
Friction drive belt	✓	✓	✓	✓	✓	✓	✓	✓	✓
Positive drive belt	✓	✓	✓	✓	✓	✓	✓	✓	✓
Without belt	✓	–	–	–	✓	✓	–	✓	✓



Find out what Drum Motor fits your application with our Belt Drive Matchmaker on www.interroll.com

*All Synchronous motors also available as **oil-free**.



Additional Benefits and Options



The following models are also available, although not part of the modular platform.

Technical Data

SERIES	80S	113S	165i	217i
Motor technology	Asynchronous	Asynchronous	Asynchronous	Asynchronous
Diameter (mm)	81,5	113,3	164,0	217,5
Gear material	Technopolymers	Technopolymers	Steel	Steel
Rated power (kW)	0,025 - 0,110	0,040 - 0,330	0,306 - 2,2	0,306 - 3
Rated torque (Nm)	3,4 - 21,4	5,5 - 43,8	28,1 - 365,2	28,1 - 533,6
Belt pull (N)	84 - 525	96 - 772	347 - 4453	261 - 4907
Shell speed (m/s)	0,049 - 0,913	0,068 - 1,107	0,084 - 2,527	0,126 - 3,344
Shell length SL	260 - 952	240 - 1090	400 - 1750	400 - 1750
Friction drive belt	✓	✓	✓	✓
Positive drive belt	–	–	✓	✓
Without belt	–	–	✓	✓

RFID Chip

At Interroll we constantly strive to improve our solutions to help you stay on top of your game. Digitalization and connected products are the way forward in material handling. That's why we integrated an RFID chip in our Drum Motors. This will allow you to identify the specific type of drive and its features, making your life a lot easier when it comes to fine-tuning your system, as well as maintenance and spare parts management. No more time wasted in finding serial numbers, digging up documentation and sending emails to ask for specs. You'll have all the info you need at your fingertips with one single scan.



Cabling

- **Straight and 90° Elbow Connection available (Hygienic Design)**
The new plug connection is the ideal solution for quick installation and reduced maintenance effort. Connecting and disconnecting the cables is simple and can be performed safely and quickly in just a few steps. Complete disassembly is not needed for motor maintenance or for the replacement of a damaged cable.

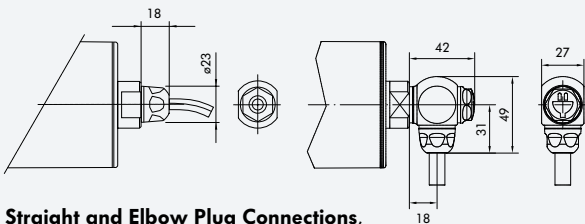
Standard cabling options such as straight or elbow connection, as well as a terminal box, are available on request.

Laggings

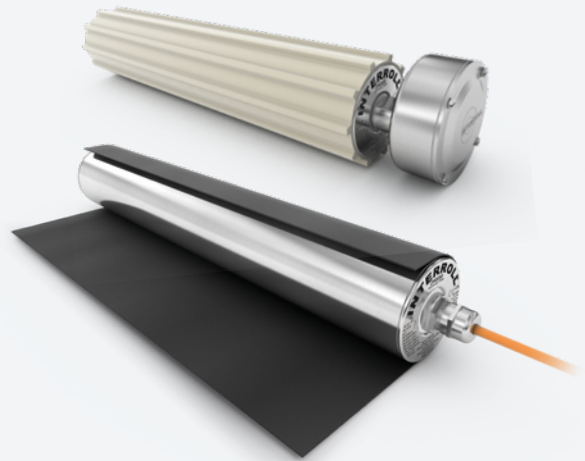
- **For Friction Drive Belt**
A lagging increases the friction between the drum motor and the conveyor belt, thereby preventing slippage.
- **For Modular Plastic Belt**
The lagging made of hot vulcanized NBR is compatible with all MPB.
- **For Positive Drive Solid Homogeneous Belts**
The lagging made of Interroll Premium Hygienic PU is suitable for applications in food processing with high hygienic requirements.



IP69k



- **Straight and Elbow Plug Connections**, qualified for hygienic cleaning, IP69k, stainless steel.



The Most Hygienic Belt Drives on the Market

To help food manufacturers all over the world comply with all of the strict regulations in terms of hygiene in their material handling processes, **Interroll has created the most hygienic belt drive currently available on the market.**

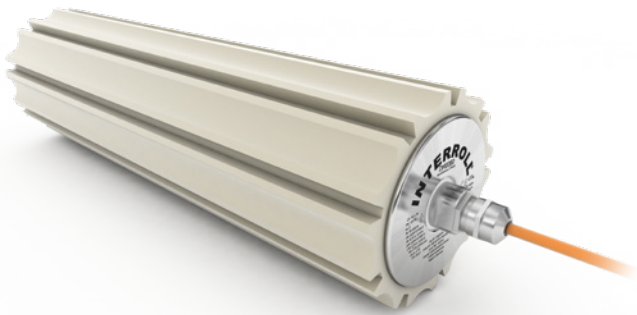
Conventional gear motors are bulky, complex to install, and most importantly, **non-hygienic**. An independent study was performed by the University of Parma in Italy comparing Drum Motors and gear motors in conveyor belt systems for the food industry. The outcome suggests Drum Motors have a clear advantage when it comes to hygiene, energy savings and installation time.

The **Interroll Drum Motor** can be hygienically cleaned and disinfected regularly using high-pressure water, steam and chemicals. This helps you achieve the **highest possible hygiene** standards.

- USDA and EHEDG Approved Design**
The Interroll Drum Motor was designed following USDA and EHEDG guidelines and is certified for meat, poultry and dairy applications. Furthermore, with its IP69k sealing systems, the Interroll Drum Motor is the ideal solution for wet and high-pressure wash-down applications.

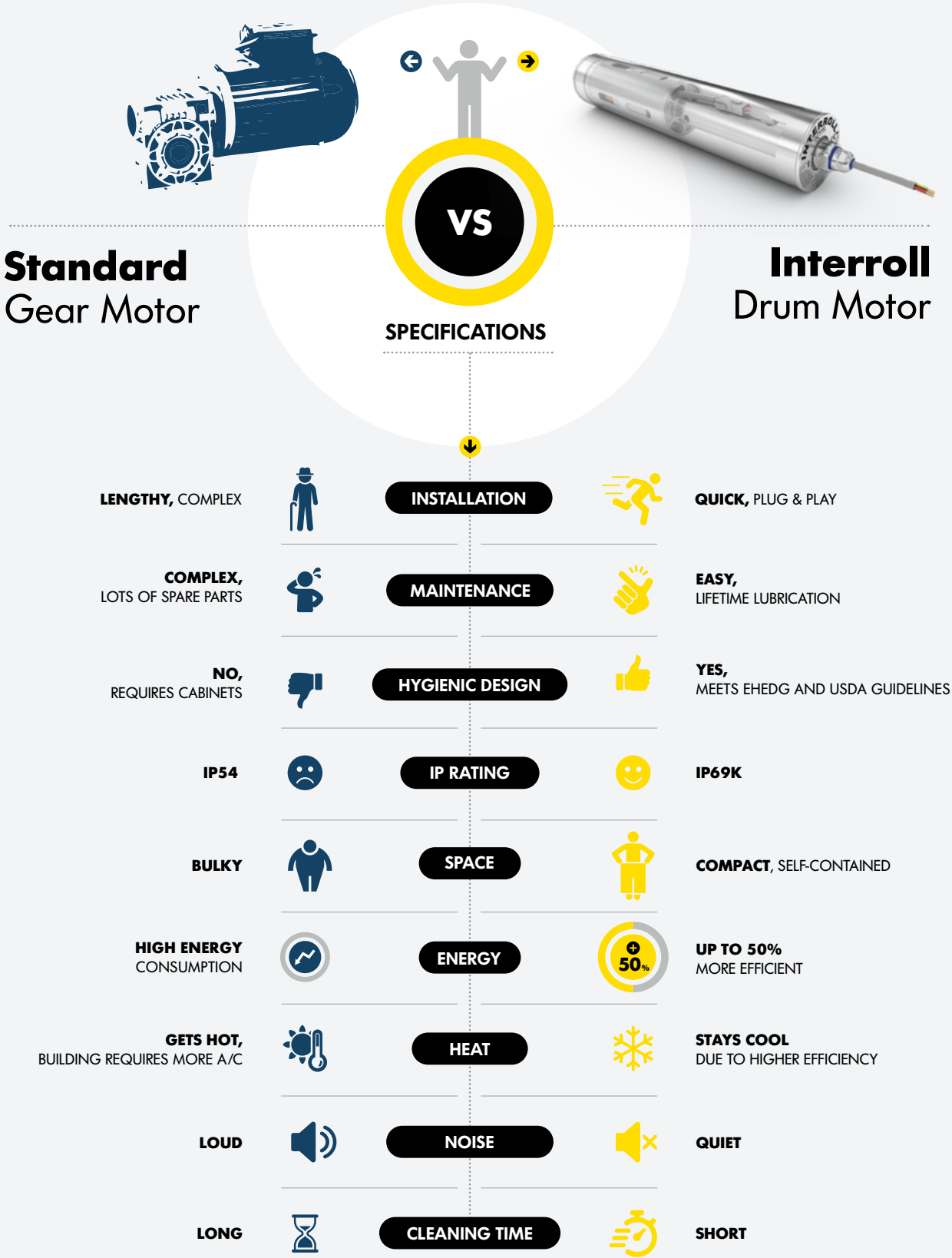
- Guaranteed Lifetime of Materials**
The chemical resistance of the materials used for Interroll Drum Motor has been validated in real environmental tests. Cleaning specialist Ecolab* has certified a 5 year minimum lifetime of materials when exposed to typical cleaning and sanitation procedures using the Topax range of products.

The Interroll Drum Motor is the most hygienic belt drive for the food processing industry.



*All trademarks and logos appearing on this page are property of their respective owners.

Food Grade Equipment Comparison





About Interroll

Established in 1959, Interroll has grown to become the world's leading supplier of key equipment for material handling. Whether you're handling boxes, pallets, parcels or soft goods, no other supplier has such a comprehensive range of solutions on offer.

This is why system integrators, OEMs and end users choose Interroll as a trusted partner for material handling installations, worldwide.

Interroll's global reach ensures quick delivery and superior after-sale service for customers, no matter where they are. By helping increase our customers' efficiency, we boost their competitiveness in today's high-stress marketplace.

interroll.com

Interroll reserves the right to modify the technical features of its products at any time. Technical information, volumes, data and features are only rough guidelines.

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