

Sumitomo Drive Technologies

A global power transmission solutions provider. With facilities strategically located throughout the world, providing comprehensive products and services in your region.

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Airport



Sumitomo Drive Technologies

Why choose Sumitomo Drive Technologies for Airport applications?

We have the toughest drives that can withstand the harshest environments.

We know the Airport Industry

Sumitomo Drive Technologies is an industry leader in power transmission solutions that are utilized throughout airports worldwide. Our units are specified among the prominent names in baggage handling solution designers and airline companies. We offer gearboxes that help optimize flow performance across all airport logistic applications, from boarding bridges to escalators to Baggage Handling Systems.

Today's Baggage Handling Systems utilize incredibly sophisticated systems of integrated conveyors. As heightened security measures and airport expansions require faster baggage transport to and from terminals and gates, airports must implement the best power transmission solutions to ensure efficient and dependable system operation.

You need a solid partner to guarantee your Baggage Handling System meets all of your requirements--choose Sumitomo to provide quality power transmission components for all of your airport logistics applications.

Sumitomo Solutions

Taper-Grip® Bushing

A simple shaft-mounting device that provides self-aligning, backlash-free torque transmission.

- Easy unit mounting and removal
- Resistance to fretting and corrosion
- Multiple stock bore sizes for quick delivery



Easy-Grip®

Unique interchangeable bushings and a shrink disc set to allow easy attachment of the gear reducers to standard available shafting up to h11 tolerances.

- 3-Part Keyless Shaft Locking System
- Easy installation and removal
- Commercial tolerance



BH BBB-H

- Low Reduction Ratios
- Compact Design
- Easy-Grip™ Compatibility
- The Green Solution



C CYCLO® 6000

- Cycloidal Technology
- Reliable Performance
- Maintenance-Free



H HYPONIC®

- 93% Efficiency
- Maintenance-Free
- Large Ratio Range



B4 CYCLO® BBB 4

- Taper-Grip® Bushing
- Compact Design
- Multiple Output Styles



HS HELICAL Shaft Mount

- Taper-Grip® Bushing
- Compact Design



LAFERT MOTORS

- Integral construction motor/drive
- Surface Mounted Permanent Magnets
- Interior Permanent Magnets



INVERTERS P2

- Integral Brake Transistor
- 98% Typical Efficiency
- User-Friendly Interface

Unwanted and unpredictable downtimes can cause delays and cost money.

Sumitomo has the solution to predict failures and cut down on downtimes and costs.

The Challenge:
Downtime and Delays

The Baggage Handling System (BHS) is one of the most complex and critical operations in today's airports. Unscheduled downtimes and delays may lead to a backup of passenger luggage and missed flights costing airlines time, money and customer satisfaction. Furthermore, unplanned asset repair or replacement could lead to duplicate repair time and costs.

Industry Problems:

- Low performance baggage handling systems
- Unplanned downtimes
- Unpredictable delays cost the company money
- Travel delays for passengers
- Technical support personnel have to constantly make repairs
- System failures will negatively impact operations

The Solution:
CycloSMART®

CycloSMART® is the perfect solution to mitigate the probability of system downtime and alleviate the burden on the technical support personnel. Your company can worry less about the costs of delays with our predictive maintenance accessory. CycloSMART® allows you to monitor and predict potential system failures ahead of time. With the ease of installation and compatibility, CycloSMART® is a must to keep systems going.

Sumitomo Problem Solvers:

- Early detection of change in asset performance minimizing cost of downtime
- Compatible with new and existing systems
- Easy installation
- Monitors various assets, such as gearmotors, for vibration, temperature, and oil quality and levels
- Predict unit failures before they happen



Ticket Counters



C H BH

Baggage Carousels



H BH

Loaders



H BH B4

Power Curves



H BH B4

Passenger Boarding Bridges



C B4

Vertical Sorters



C H BH

Diverter



C H BH

Queue and Transport Conveyors



H BH B4

We take asset management seriously,
because we know you do.

Avoid catastrophic failure, minimize risk
and increase machine uptime.

System Management And Reliability Technology (SMART)

SMART is a range of products and reducer options that were developed to help end users in their reliability and asset management initiatives within their plant's daily operations.



Reliability Monitoring

These reducer option packages will help in the consistent collection of data. For Vibration analysis, as well as oil condition and cleanliness testing

Large Industrial Gearboxes

OPTIONS*

Opt 1: Machined Accelerometer Mounting Pads Only

Opt 2: Opt 1 + Accelerometers Wired to Junction Box

Opt 3: Opt 2 + Outputs to Customer PLC or DCS

YOU THINK!



Condition Monitoring

Fully customizable systems provide real time condition data of any piece of rotating equipment. Providing an accurate condition signal without the need for further analysis

All Gearboxes

OPTIONS **

Vibration + Temperature Input

Vibration + Oil Level Input

Vibration + Oil Condition

WE THINK!

CycloSMART® Benefits

- **Safe**
Monitor assets from the safety of your desk via networked connections
- **Predictive**
Machine diagnostics for early warning and detection to avoid failure
- **Optimization**
Customizable systems to meet many different application needs
- **Expandable**
Multi-reducer monitoring
- **Reliable**
Schedule machine downtime to avoid lost production
- **Cost-Effective**
Lower overall ownership cost

the **CHECK** 
ENGINE LIGHT for
SPEED REDUCERS

* All DriveSMART® options include: Oil sampling pitot tube, and Oil Breather package that incorporates oil fill and drain ports.

** All CycloSMART® systems are customizable with many different options for data monitoring. Examples are shown.

Learn more at: SumitomoDrive.com/CycloSmart



OPTIDRIVE P2

HIGH PERFORMANCE DRIVE

High-performance **variable frequency drive** for standard induction and permanent magnet motors.

Its **user-friendly interface** and high performance make it perfect for tackling the most demanding applications smoothly.

Extensive I/O and communications **interface capabilities** ensure the drive can be **integrated quickly and efficiently** into a wide variety of control systems.

- **200% Overload for 4 secs**
- **98% Typical Efficiency**
- **Integral Brake Transistor**

INTEGRATED DISPLAY

LED multi-language text display.



FAST CONNECTION

5mm rising clamp terminals with captive screws.

INTEGRATED CABLE MANAGEMENT

PLUGGABLE CONTROL TERMINALS

OPTISTICK SMART

A rapid commissioning tool that allows copying, backup, and the restoring of drive parameters.



Shaping the future together

Sumitomo Drive Technologies
LAFERTGROUP
 InvertekDrives.com

ENCLOSURES

- **IP20**



- **IP66**

Non-Switched



- **IP66**

Switched



- **IP20**



- **IP55**



- **IP66**



LAFERT MOTORS

HIGH PERFORMANCE MOTORS

High-Performance permanent magnet, stand alone, synchronous motors or permanent magnet synchronous motors with an integrated drive solutions available.

HP generation motor achieves IE4 and IE5 efficiency levels.

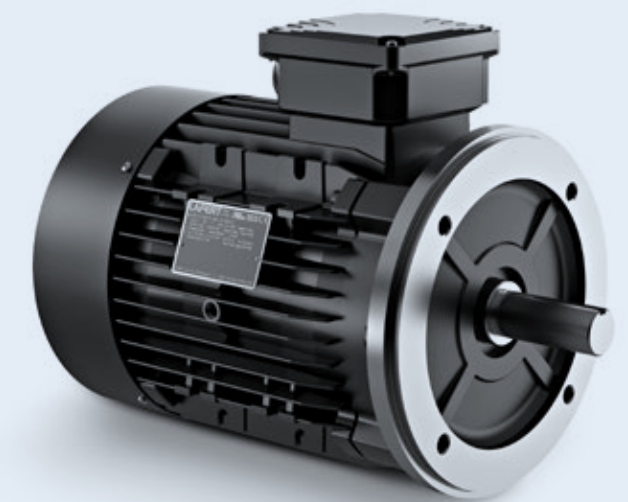
Enhanced power/weight ratio, thereby allowing for significant size and weight reduction.

- **Integral Drive - HPI Series**
- **Stand Alone Motor - HPS Series**



IPM (Interior Permanent Magnets) or **SMPM** (Surface Mounted Permanent Magnets) design

Super Premium Efficiency **IE4** or Ultra Premium Efficiency **IE5**



SPECS



HP RATING
Up to 350 HP (250 kW)



POWER OPTIONS
Single-Phase: 200-240V
3-Phase: 200-600V



TORQUE
Up to 200% (From Zero Speed)

SPECS



POWER RATING
0.37kW to 37kW



SPEED
Up to 4500 RPM



TORQUE
2 Nm to 200 Nm

Our factory capabilities support all of your gearbox needs.

The most reliable and highest quality products backed by a 400 year heritage.

Why Sumitomo?

Our 400 Year Heritage

The history of the Sumitomo Group started more than 400 years ago when Masatomo Sumitomo opened a book and pharmacy store in the city of Kyoto, Japan. Today, the Sumitomo Group consists of more than 20 companies who share the Sumitomo Emblem as well as many common values and ideals.

Devoted to Quality

In addition to one of the most comprehensive product lines of any power transmission company, we offer the most reliable and highest quality products available in the industry. Whether it's product development or manufacturing processes, our Quality culture resonates through our entire global network.

Committed to our Employees and the Community

We recognize our employees are our most valuable asset. They are the driving force behind our innovative products, our ability to support our customers, and our commitment to continuous process improvement. We strive to be a valuable member of society and take pride in the contributions we make to our communities across North and South America.

Dedicated to Innovative Manufacturing

With more than a century of expertise in manufacturing, our global capabilities are unmatched in the industry. We have manufacturing and assembly facilities on every continent and continue to make investments in our manufacturing technologies to maintain our position as a leader in innovation.

Centers of Excellence

Our Centers of Excellence offer customers a nationwide support network. From inventory distribution to manufacturing to assembly, we have the team to ensure high quality, responsiveness, on-time delivery, and quick lead times.



Chesapeake, VA

Manufacturing, Support, Inventory, and Training

Our Western Hemisphere headquarters has 360,000 sq ft of manufacturing space, and cutting-edge technology. Centralized inventory distribution with a Foreign trade zone (FTZ), focused on inventory optimization, motor assembly, and hands-on training at our Power Institute.



Verona, VA

Industrial Gearbox Production

This purpose-built facility is specifically designed to handle the assembly of our large industrial gearboxes.



Lufkin, TX

Manufacturing and Services

This 32,000 sq ft facility handles gear manufacturing, gearbox repairs, and reverse engineering.



Glendale Heights, IL

Gearmotor Assembly and Support

Houses our state-of-the-art paint system for our SHIELD360® packages for Cyclo®, BuddyBox®, and Hyponic®.