



CyfoSS Single-Point Automatic Lubricator

Application Scenarios



V 2.0



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Part A *Why use Cyfoss Automatic Lubricator?*

Part B *Which equipment needs Cyfoss?*

Part C *Industry Applications Introduction*

Part A

Why use Cyfoss Automatic Lubricator?

01 *Reliability*

02 *Safety*

03 *Maintenance Cost Reduction*





01 Reliability

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Enhances component reliability

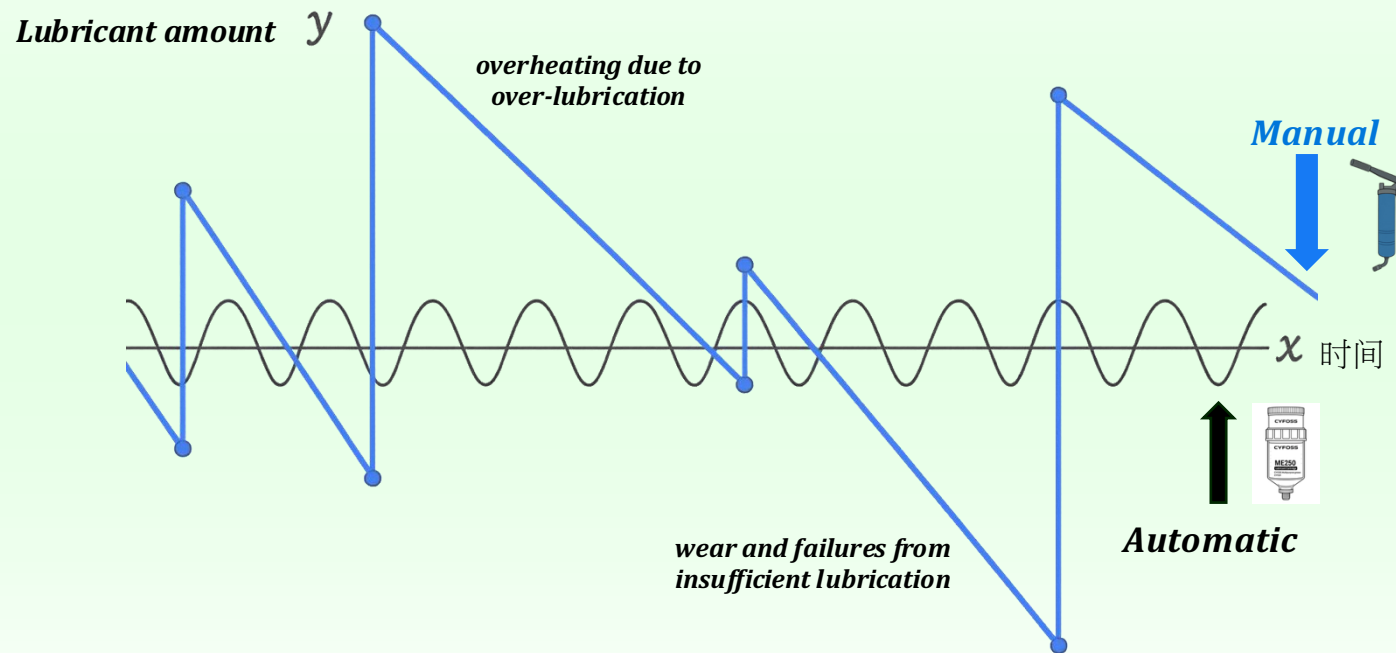
Continuous automatic lubrication significantly enhances component reliability and service life.

Up to 50% of premature equipment failures are due to improper or contaminated lubrication.

Avoid inappropriate lubrication

Automatic lubrication delivers clean, fresh lubricant consistently and evenly.

Cyfoss with IP65 rating prevents contamination of bearings by moisture and dust.



Action Risk Reduction

Automatic lubrication reduces time spent by maintenance personnel in hazardous zones.

Statistics show automatic systems can reduce lubrication-related accident risks by up to 90%.

Workload Reduction

Isolates personnel from operating machinery.

Prevents slips and accidents caused by manual lubrication, ensuring worker safety.





03 Maintenance Cost Reduction

TCO Reduction

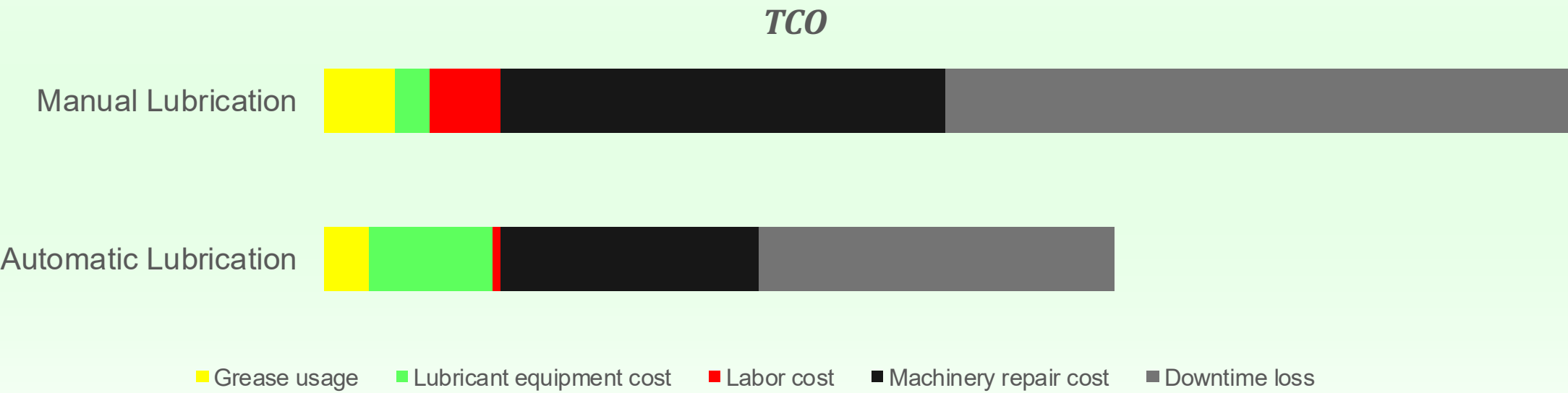
Compared to manual lubrication, automatic systems significantly reduce lubricant use and labor costs.

Lubrication w/o machine stop

To minimize equipment damage from over/under-lubrication and reduce unplanned downtime losses, which leads to an overall reduction in Total Cost of Ownership (TCO).

Maintenance Reduction

Downtime Reduction



Part B *Which equipment needs Cyfoss?*

***01** Motor Bearings*

***04** Chains*

***02** Pump Bearings*

***05** Gears & Racks*

***03** Fan Bearings*

***06** Guide Rails*





01 *Motor Bearings*

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Drive motors

Mining equipment motors

Production line motors

Other industrial motors



Electric motor bearings are one of the most common applications for single-point automatic lubricators.

Installing an automatic lubricator ensures continuous grease supply, preventing wear caused by lack of lubrication.

In various industrial motors, automatic lubricators reduce the frequency and labor required for manual lubrication, improving operational reliability and lowering maintenance costs.



02 *Pump Bearings*

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Water Pumps

Process Pumps

Oil Pumps

Other industrial motors



Bearings in various pumps are also typical lubrication points.

In applications where pumps run, automatic lubricators reduce maintenance frequency.

Automatic lubricators help ensure reliable operation and minimize downtime due to lubrication issues.



03 *Fan Bearings*

Tunnel ventilation fans

Cooling tower fans

Blowers

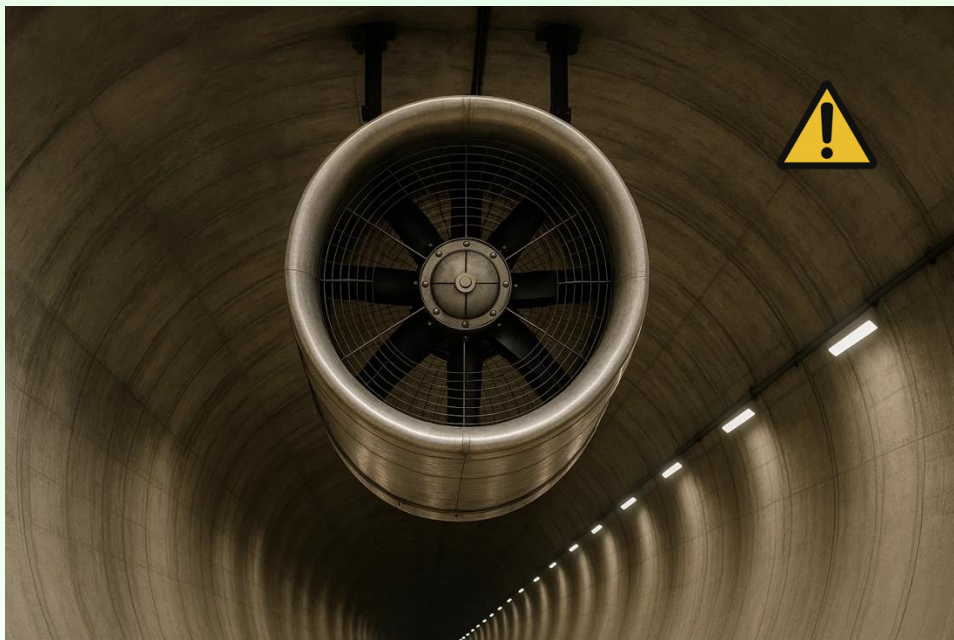
Various industrial fans

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Fan bearings used in tunnel or cooling tower fans are often installed at height or in enclosed environments, making them ideal for automatic lubrication.

Single-point lubricators deliver grease at preset intervals to ensure consistent lubrication during operation, reducing downtime caused by manual lubrication.

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04 Chains

Conveyor Chains

Elevator Chains

Escalator Chains

Drive Chains

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Transmission and conveyor chains require frequent lubrication.

Single-point automatic lubricators are often used to apply grease to chains.

Automatic lubricators precisely control grease delivery frequency and volume, preventing chain dryness or excessive grease contamination, thereby reducing wear.





05 Gears & Racks

*Mining equipment
ring gears*

Steel mill roller gears

*Paper machine
dryer gears*

*Other open
gear systems*

For open gear drives such as large gears and racks, regular lubrication is essential.

Automatic lubricators provide continuous oil film protection to avoid metal contact under heavy load, reducing wear.





06 *Guide Rails*

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Linear Guides



Linear and sliding guides used in reciprocating motion require uniform lubrication.

Manual lubrication struggles to ensure uniform coverage across long rails.

Sliding Guides



Used in CNC machine rails, elevator rails, escalator tracks, etc., automatic lubricator enhance motion smoothness and reduce stoppages.

Automatic lubricators can be installed at multiple points or connected via tubing to ensure continuous lubrication.

Part C *Industry Applications of Cyfoss Lubricators*

01 *Asphalt Mixing Plants*

05 *Mining Industry*

09 *Wind Power Industry*

02 *Automotive Industry*

06 *Water Treatment*

10 *Pulp and Paper Industry*

03 *Petrochemical/Pharmaceutical/Chemical Industry/*

07 *Power Plants*

11 *Food and Beverage Industry*

04 *Gypsum / Lime / Cement Plants*

08 *Steel Industry*

12 *Other Industries*

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Asphalt Mixing Plants

01



✓ *Equipment & Lubricating Point*

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Raw Material Handling System

Drum roller bearings

Bucket/ elevator bearings

Vibrating screen bearings



Dust Removal System

Fan shaft bearings

Screw conveyor flange bearings

Fan motor bearings



Loading System

Concrete hopper sliding bearings

Loading gate roller bearings

Loading station chains

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Automotive Industry 02



✓ *Equipment & Lubricating Point*

Press Workshop

Press circular guides (flat/round)

Welding robot linear guides

Welding robot joint bearings

Vechile-body Worshop

Chain conveyors

Lift system screw rods

Welding fixtures sliding bearings

Paint Workshop

Blower motor bearings

Conveyor chain roller bearings

Paint robot joint bearings



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Petrochemical/Pharmaceutical/Chemical Industry **03**



✓ Equipment & Lubricating Point

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Raw Material Transfer

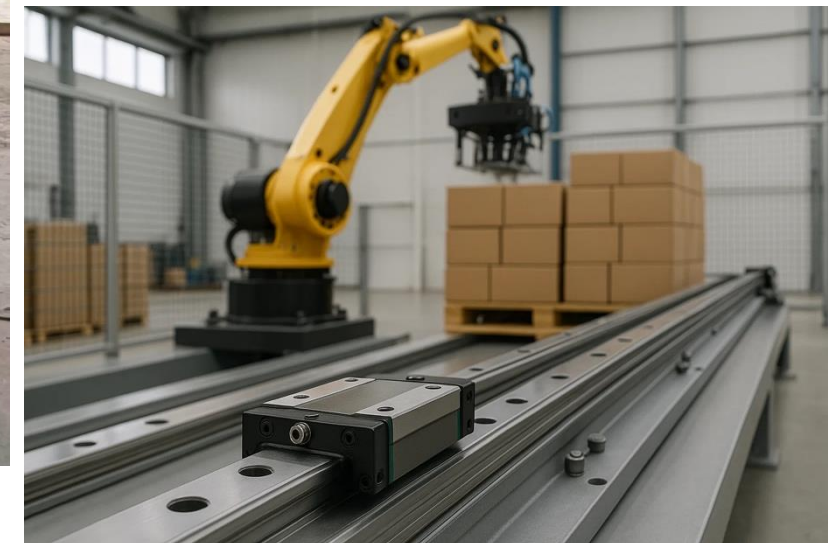
- *Process pump motor bearings (long runtime)*
- *Screw conveyor bearings (corrosive media)*
- *Pipeline pump bearings (high load/moisture)*

Reaction Systems

- *Mixer gears (high load/temperature)*
- *Hot air blower seals (high temp/pressure)*
- *Reactor agitator bearings (corrosive/high load)*

Packaging System

- *Palletizer linear guides (frequent starts/stops)*
- *Conveyor chains (contaminated materials)*
- *Cartoner bearings (precision/load)*



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Gypsum / Lime / Cement Plants

04



Equipment & Lubricating Point

Crushing System

*Hammer crusher roller bearings
(impact/dust)*

Crusher main shaft bearings

Cement mill bearings



Calcining System

*Kiln drive bearings (high
temp/load)*

Kiln open gears

Raw mill bearings (load/temp)



Dust Removal System

Fan motor bearings

Screw conveyor bearings

Dust hopper bearings



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Mining Industry

05



✓ *Equipment & Lubricating Point*

01

Mining Equipment

Excavator roller bearings

Hoisting sliding bearings

Slewing bearings

02

Mineral Processing

Vibrating screen bearings

Separator gears

Concentrator gears

03

Transport System

Loader chains

Conveyor tensioner bearings

Transport vehicle hub bearings

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Water Treatment 06



✓ *Equipment & Lubricating Point*

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Physical Treatment

*Chain roller bearings
(exposed to sewage)*

*Scraper bearings
(frequent stops)*

*Coarse screen chains
(corrosion prevention)*

Biological Treatment

Surface aerator bearings (humidity)

Clarifier pivot bearings (submersion)

Bioreactor agitator bearings (moisture/load)

Sludge Treatment

Belt conveyor bearings (sludge corrosion)

Screw press screws (load/moisture),

Dewatering machine bearings (precision/moisture)



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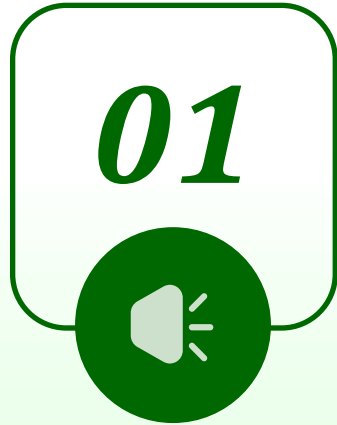
Power Plants

07



Equipment & Lubricating Point

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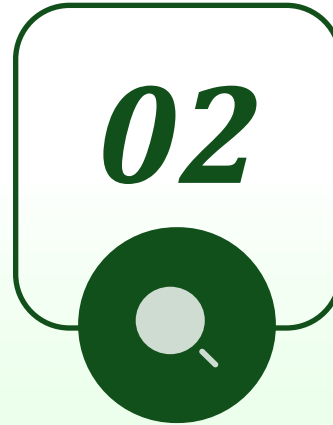


Fuel Transport

Bucket conveyor flange bearings (dust)

Coal feeder chains (frequent starts)

Fuel belt roller bearings (dust/load)



Power Generation

Turbine slide bearings (speed/load)

Generator bearings (precision)

Exciter bearings (speed/load)



Cooling System

Cooling fan shaft bearings (humidity/speed)

Pump motor bearings

Drive shaft bearings

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Steel Industry

08



Equipment & Lubricating Point

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Rolling System

Open gears in mills (load/temp)

Tension station chains

Roller bearings



Continuous Casting

Casting machine roller bearings

Cutter screw rods

Crystallizer bearings



Surface Treatment

Coating line guides

Acid tank agitator bearings

Galvanizing line bearings

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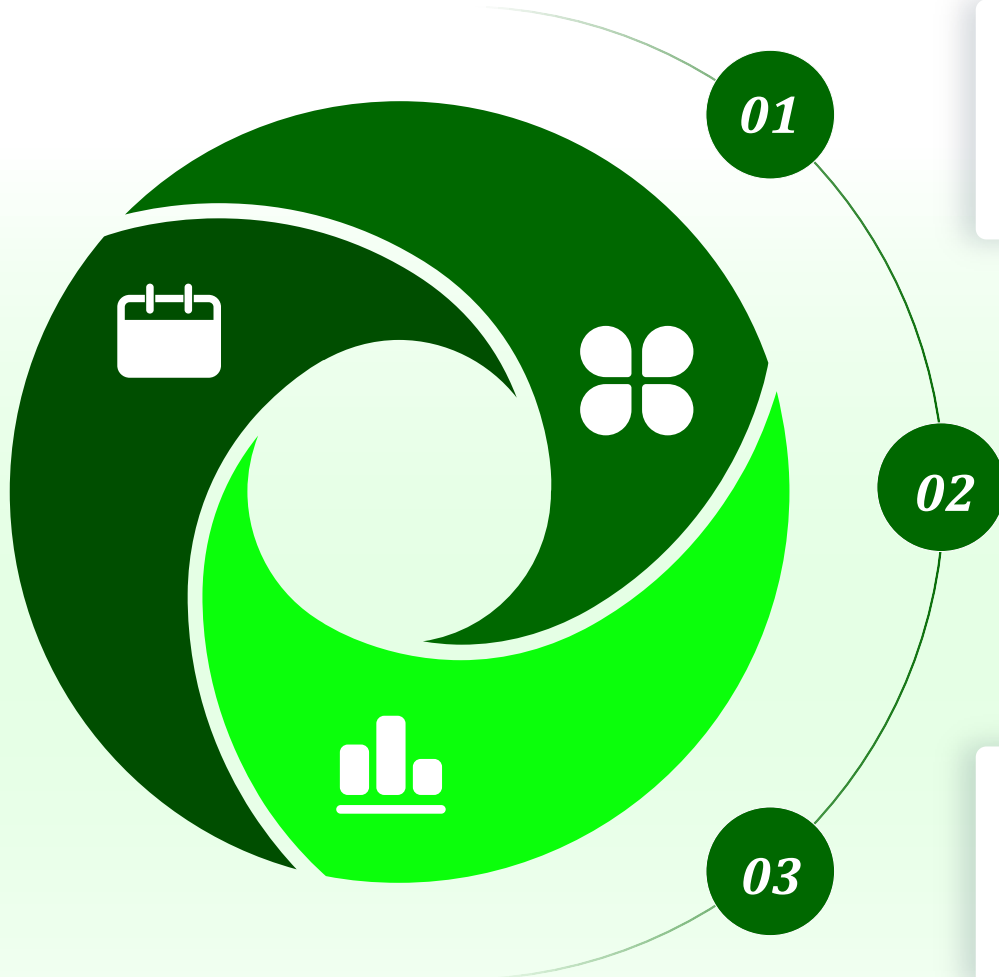


Wind Power Industry

09



✓ *Equipment & Lubricating Point*



Transmission

Main shaft bearings (speed/load)
Yaw gear teeth
Gearbox bearings

Blade System

Blade bearing sliding surfaces
Pitch gears
Blade root bearings

Generator System

Front/rear generator bearings
Cooling fan bearings
Exciter bearings

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Pulp and Paper Industry 10



✓ Equipment & Lubricating Point

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Pulping

Pulper bearings (humidity)

Vacuum bearing units

Pulp pump motor bearings

Paper Making

Dryer roller bearings (temp/load)

Calender guides

Transmission gears

Post-processing

Cutter roller bearings

Folder bearings

Packing machine chains



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Food and Beverage Industry

11





Conveyor System

Belts

Belt cleaners

Drum conveyors

Pallet conveyors



Manufacturing & Filling System

Fillers

Presses

Conveyor chains

Slicers

Cappers

Peelers



Packaging & Storage System

Palletizers

Depalletizers

Wrapping machines

Labelers

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Other Industries 12



✔ *Equipment & Lubricating Point*

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Elevators

Car guide rails

Sliders

Printing Industry

Print Machines

Print equipments

Escalators

Handrail drive chains Step chains

Step rollers Main drive chains

Wood Processing

Suction units

Conveyors

Panel cutters

Presses

Blowers/fans

Cranes



Water Dam

Drive chains

Dam locker

Rack

Guide screws

Plastic/ Rubbers

Extruders

Film blowing machines

Grinders

Guide screws

Calenders

Granulators

Maritime/Ports

Winches

Gear chains

Motors

Hoists

Water pumps

CYFOSS



Looking Forward to Your Inquiry !



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