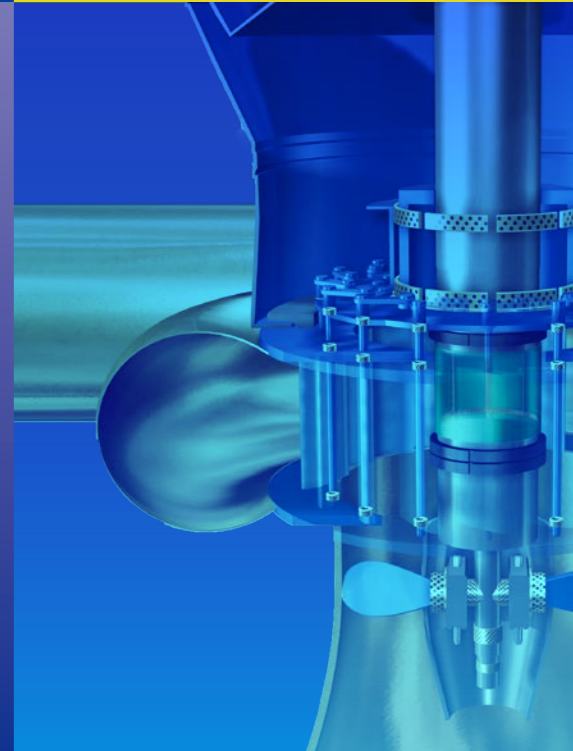
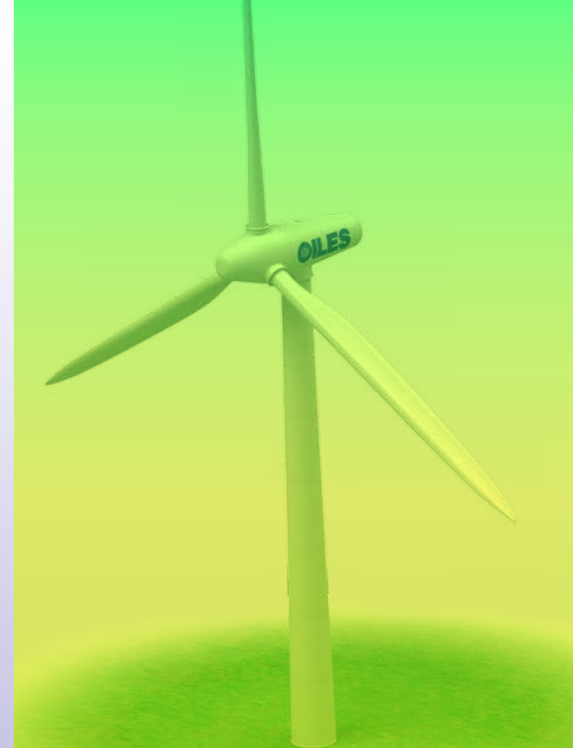




OILES OILES CORPORATION

OILES Self-Lubricating Bearing Technology



MIX
Paper from
responsible sources
FSC® C012538

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No. JC-600E-17SH(1)

OILES CORPORATION

Oiles Bearings represent all kinds of self-lubricating bearing

The World's Leading Company of High Performance, Quality, Oil-free and Maintenance-free Bearings for Various industries.



2

Advantages

No requirement of a lubricating system, lubrication holes, or oil grooves

Remarkable cost reduction by cost and labor associated with lubrication, machining and assembly.

Reduction of running costs

Reduces lubricating oil consumption and equipment maintenance costs and enables a remarkable reduction in operating costs.

Maintenance free

Significantly reduces costs for lubrication and maintenance of lubricating system and eliminates problems caused by improper lubrication.

Reduction of design time

No need for lubrication simplifies designs and structures and remarkably reduces costs and time. With superior durability, Oiles bearings improve machine performance and prolong service life.

Lubricating oil recycling and environmental protection

Reduces expenses and labor needed to recycle oil and protects the environment against contamination from oil.



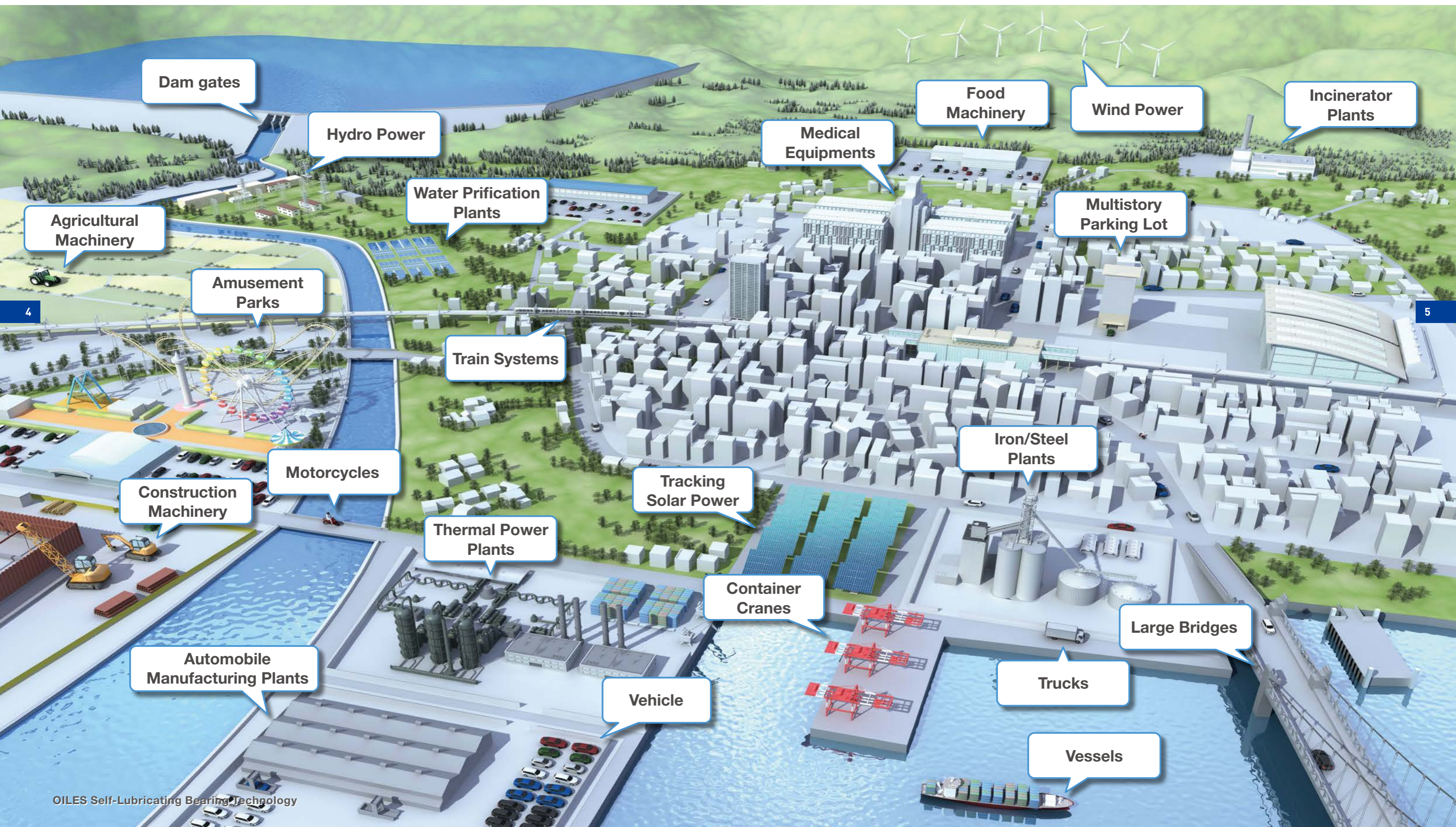
Functional classification of the OILES BEARINGS

<div>Tolerates Impacts</div> <div></div>	<div>Plastic</div> <div>250(425)</div> <div></div>	<div>Metalic</div> <div>500SP</div> <div></div> <div>500AB</div> <div></div>	<div>High-temperature-resistant</div> <div></div>	<div>Plastic</div> <div>Glitron F</div> <div></div> <div>Glitron S</div> <div></div> <div>Glitron SE</div> <div></div>	<div>Multi-layer</div> <div>Toughmet</div> <div></div> <div>Drymet LF</div> <div></div>	<div>Metalic</div> <div>500AB</div> <div></div> <div>500F</div> <div></div> <div>500SP</div> <div></div>			
<div>Usable in Water</div> <div></div>	<div>Plastic</div> <div>480</div> <div></div> <div>Glitron F</div> <div></div> <div>Glitron S</div> <div></div> <div>Glitron SE</div> <div></div> <div>Fiberflon TR</div> <div></div> <div>Fiberflon OH</div> <div></div> <div>Fiberflon GH</div> <div></div> <div>470-02</div> <div></div> <div>425</div> <div></div>	<div>Metalic</div> <div>500SPSL4</div> <div></div> <div>500ABSL4</div> <div></div>							
<div>Conductive plastic</div> <div></div>	<div>Plastic</div> <div>Glitron SE</div> <div></div> <div>Glitron F</div> <div></div> <div>Lutech E</div> <div></div>	<div>Multi-layer</div> <div>Techmet E</div> <div></div> <div>Hiplast E</div> <div></div>	<div>High-speed applications</div> <div></div>	<div>Plastic</div> <div>Glitron S</div> <div></div> <div>Glitron SE</div> <div></div> <div>Lutech S</div> <div></div>	<div>Multi-layer</div> <div>Techmet B</div> <div></div>	<div>Metalic</div> <div>2000S</div> <div></div> <div>Cermet M</div> <div></div>			
<div>Chemical-resistant</div> <div></div>	<div>Plastic</div> <div>Glitron F</div> <div></div> <div>Fiberflon FW</div> <div></div> <div>250 (425)</div> <div></div> <div>Glitron S</div> <div></div> <div>Aramid M</div> <div></div>	<div>Multi-layer</div> <div>Hiplast N</div> <div></div>	<div>Metalic</div> <div>500B</div> <div></div> <div>500AB</div> <div></div>	<div>Ball bearing replacement</div> <div></div>	<div>Plastic</div> <div>Glitron SE</div> <div></div> <div></div>	<div>Enables zero clearance</div> <div></div>	<div>Multi-layer</div> <div>Hiplast N</div> <div></div> <div></div> <div></div>		
<div>Tolerates foreign matter</div>				<div>Soft metal shafts</div>		<div>Plastic mating material</div>			
<div>Plastic</div> <div>470-02</div> <div></div> <div>83</div> <div></div> <div>250(425)</div> <div></div> <div>480</div> <div></div>				<div>Metalic</div> <div>500SP</div> <div></div> <div>500AB</div> <div></div>		<div>Plastic</div> <div>Glitron S</div> <div></div> <div>Glitron SE</div> <div></div> <div>88-03</div> <div></div>	<div>Multi-layer</div> <div>Techmet E</div> <div></div>	<div>Plastic</div> <div>Lutech GP</div> <div></div> <div></div> <div></div>	
<div>Suitable to micro-motion</div>				<div>Self-aligning application</div>					
<div>Plastic</div> <div>Fiberflon FW</div> <div></div> <div>Fiberflon TR</div> <div></div> <div>Fiberflon OH</div> <div></div>			<div>Multi-layer</div> <div>Toughmet</div> <div></div> <div>Techmet B</div> <div></div>		<div>Metalic</div> <div>Cermet G</div> <div></div> <div>Cermet M</div> <div></div> <div>2000</div> <div></div>	<div>Plastic</div> <div>80FL</div> <div></div>		<div>80UP</div> <div></div>	<div>Metalic</div> <div>500SPS</div> <div></div>
<div>Hardly affected by coarse shafts</div>				<div>Easy to mount</div>					
<div>Plastic</div> <div>470-02</div> <div></div> <div>83</div> <div></div> <div>480</div> <div></div>			<div>Metalic</div> <div>500SP</div> <div></div> <div>500AB</div> <div></div>		<div>Plastic</div> <div>Lutech E (LED, LES)</div> <div></div> <div></div> <div>PST</div> <div></div>			<div>Glitron F Skiving Sheet</div> <div></div>	

3

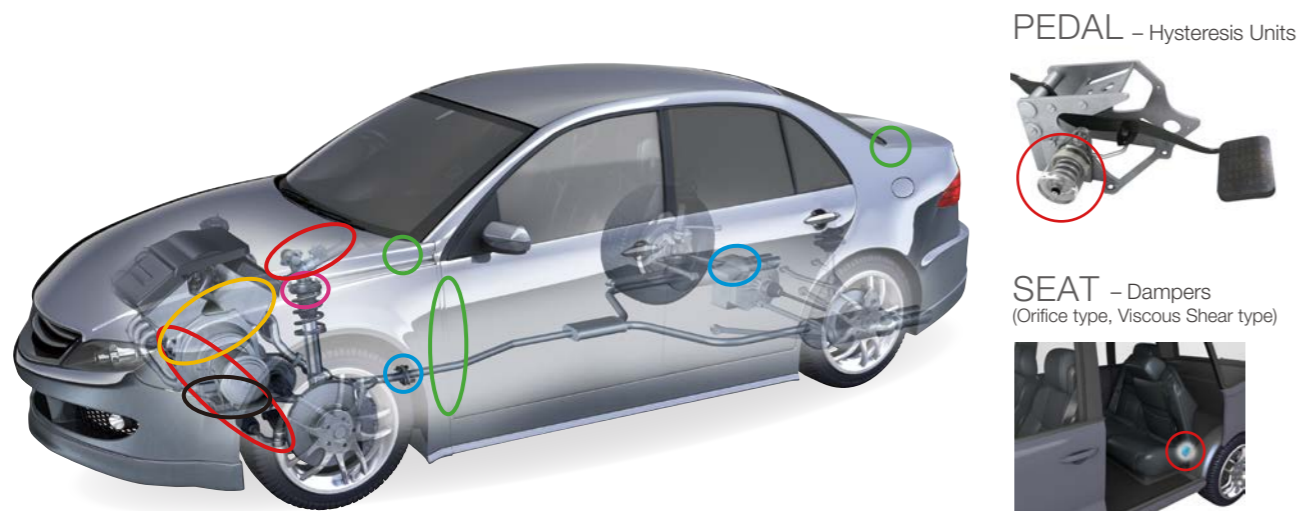
Applications

OILES bearings provide relief and safety in close relation to social infrastructure. They also contribute to realization of smart cities and environmentally-friendly future cities through their applications to various energy devices.

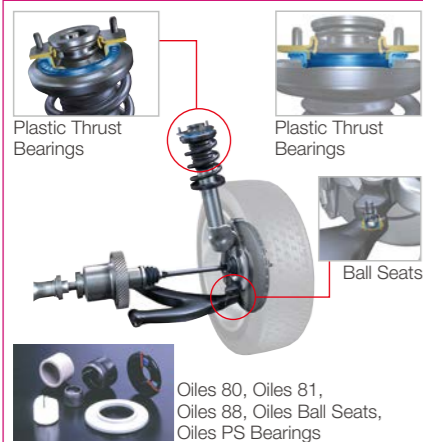


Automotive Applications

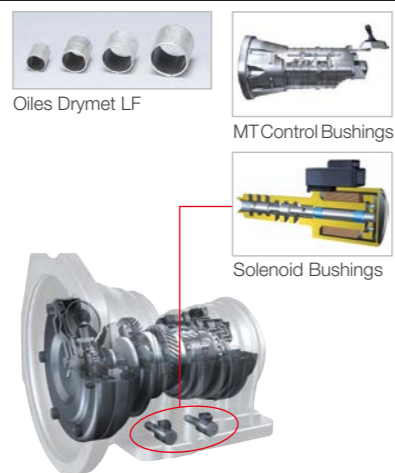
Oiles bearings are superior in automotive applications and make vehicles realize technological advance by high durability. Oiles bearings can improve quietness, driving comfort and produce smooth steering operation feeling by appropriate friction.



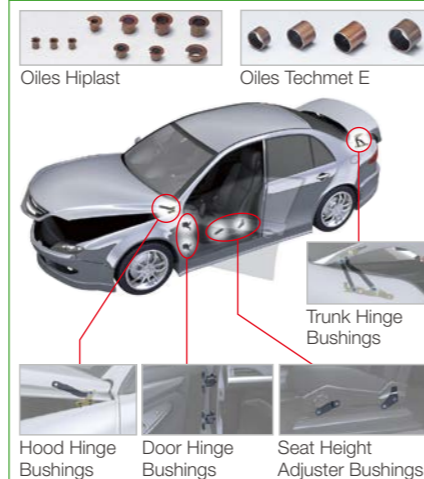
Suspension System



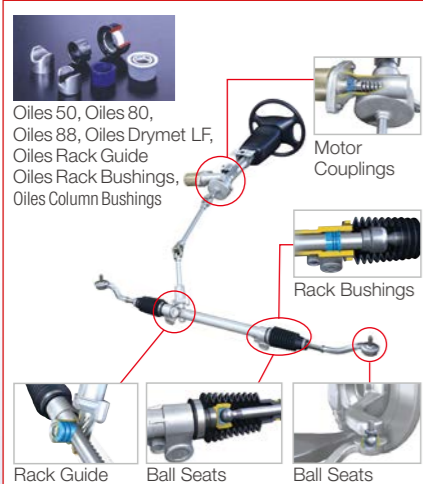
Control System



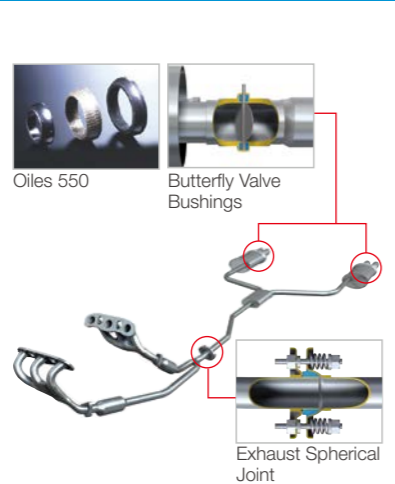
Body System



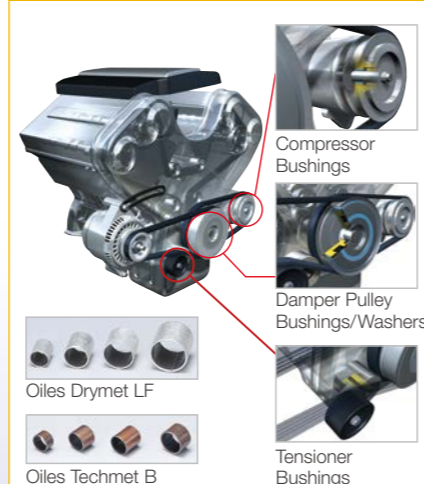
Steering System



Exhaust System



Powertrain System



Hydro Power Applications

Oiles Bearings have been used for more than half a century in the hydroelectric industry. Oiles is experienced in the hydro power industry with more than 2,000 facilities in worldwide. The number of customers who chooses and continues apply to oiles bearings, is increasing.



Okutadami Power Station



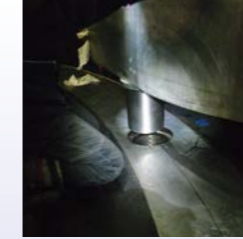
Kaplan Runner Bushings



Wicket Gate Control Rod Bushings



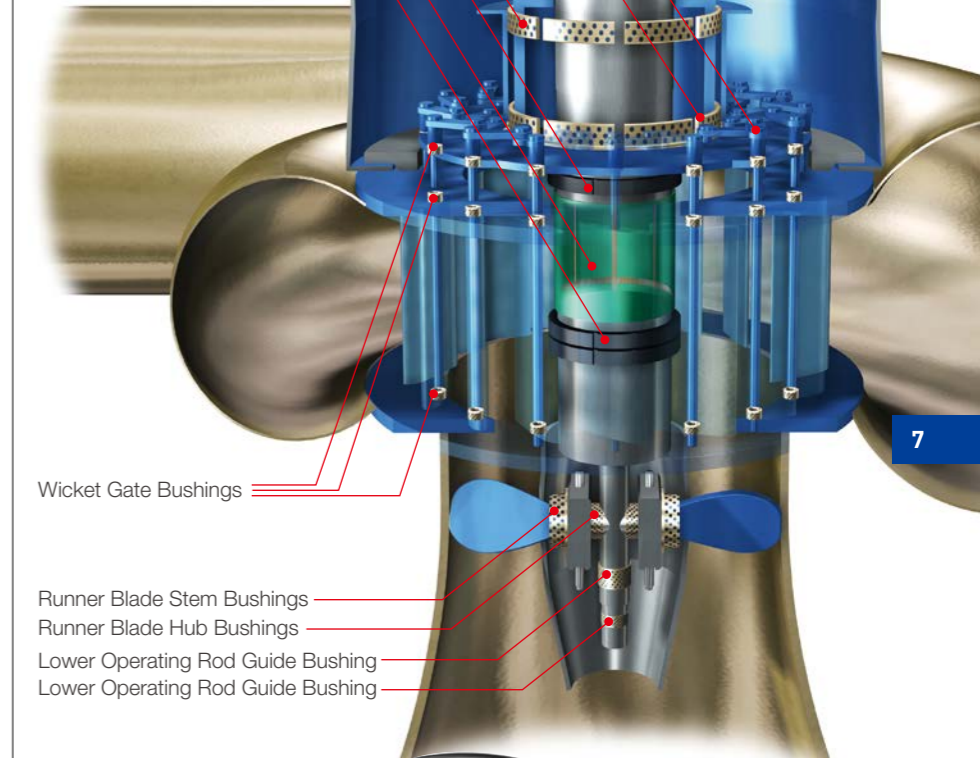
Upper Wicket Gate Bushings



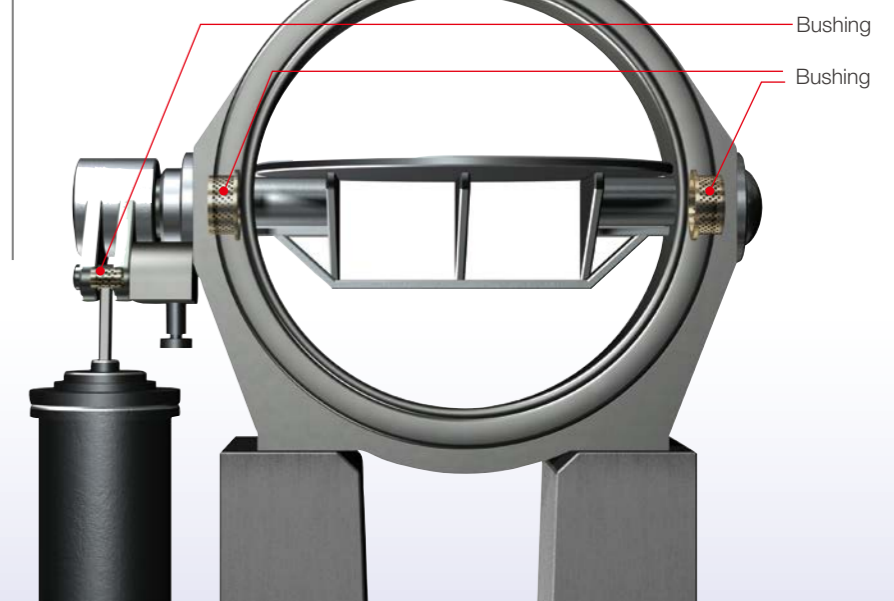
Lower Wicket Gate Bushings

Water Turbine

Linkage Bearings, Servo Motor Bearings
Operating Ring Bearings, Lower
Upper Operating Ring Segments
Shaft Sealing Packings
Main Shaft Bearing
Shaft Sealing Packings



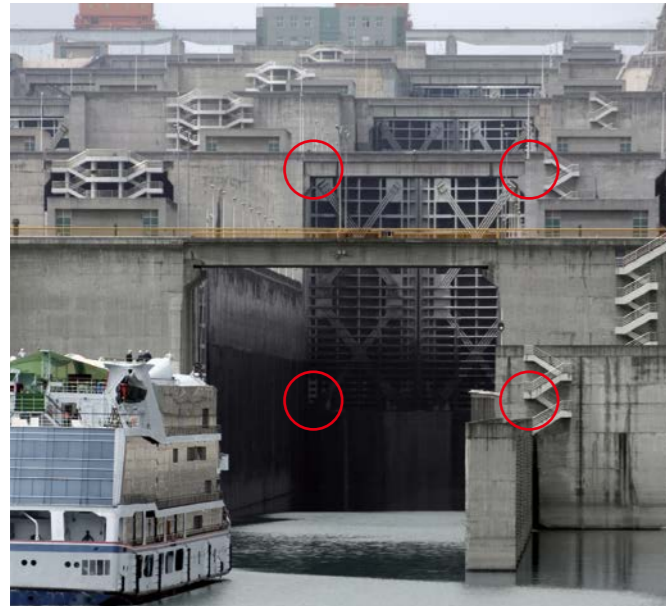
Inlet Valve



All Photo: J-POWER

Dam, Gate, Lock and Large Bridge Applications

Ship Lock Gate of Three Gorges Dam (China)



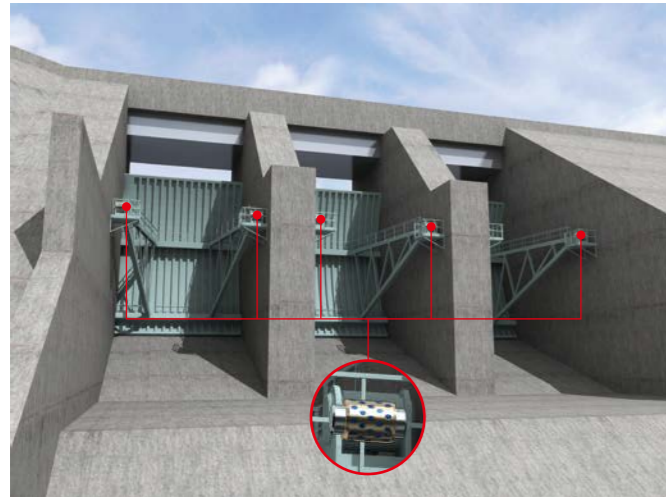
Upper: Cylinder Bearing 480x530xL500



Bottom: Pintle Bearing 1000x1140xL585



Dam Gate



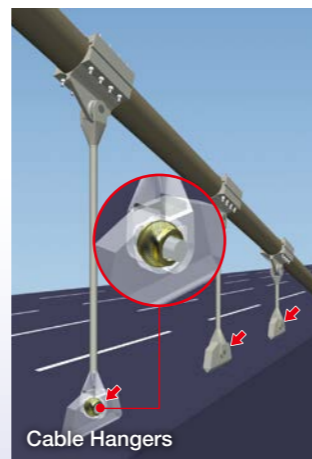
Large Bridge



Akashi Kaikyo Bridge



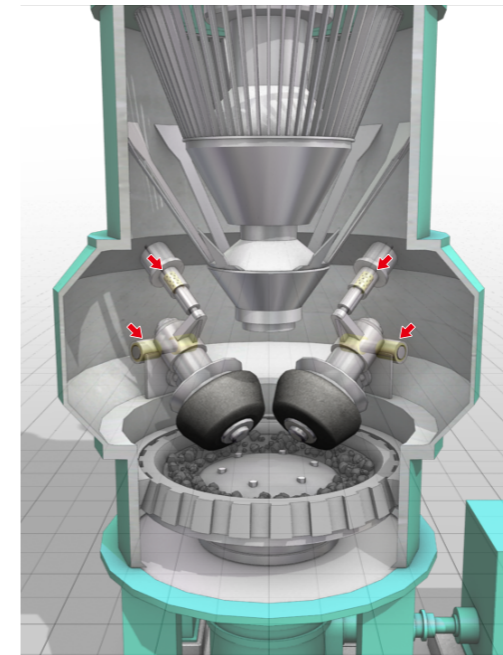
Tower Links



Cable Hangers

Power Plant Applications

Pulverizer for coal-thermal power plants



Pitch control for wind-turbine blades

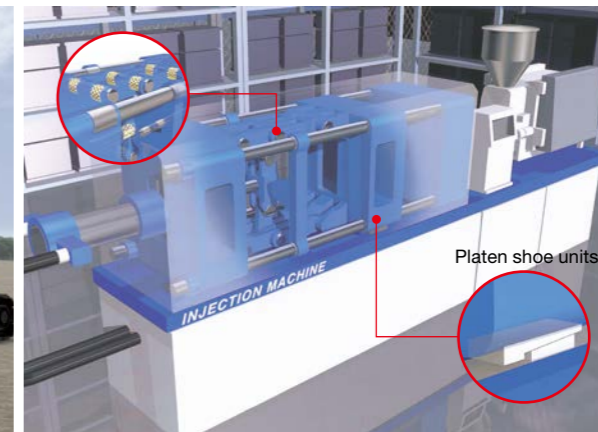


Other Applications

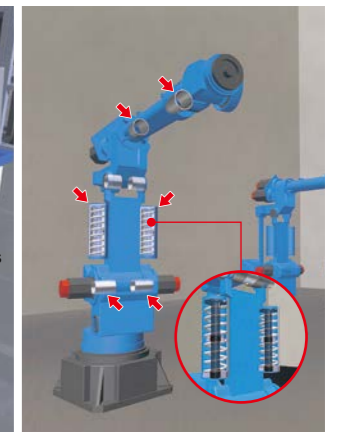
Excavators



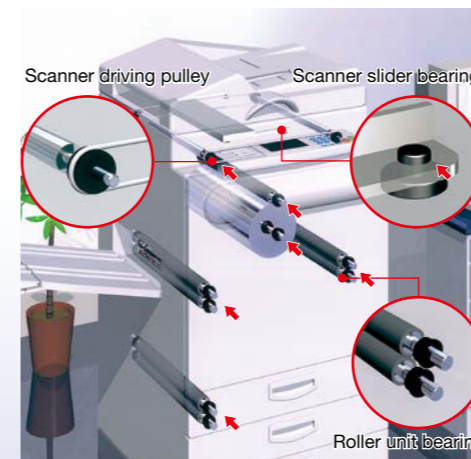
Injection molding machines



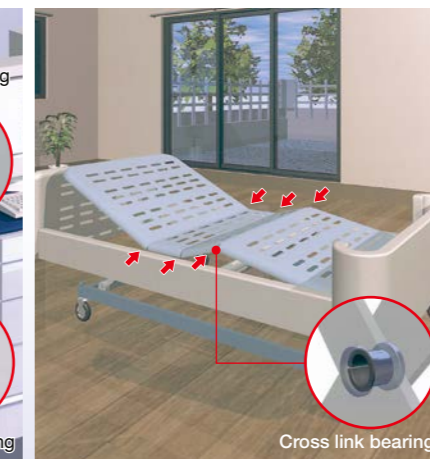
Industrial robots



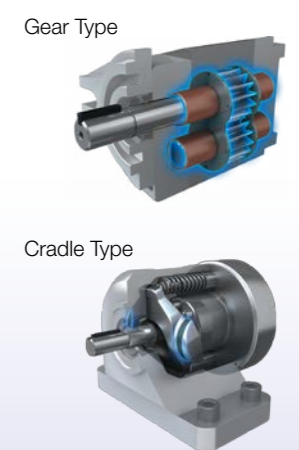
Copy machines



Care beds



Hydraulic pump



Oiles Service Network

Aiming at global growth with the world's first, and No.1 technologies and products

Corporate Profile

Name of Company	OILES CORPORATION
Incorporation	March 11, 1952
Capital	JPY 8,585,000,000
Sales Amount	61.4 Billion JPY (Consolidated account, as of March 2019)
Head Office	1-2-70 Konan, Minato-ku, Tokyo 108-0075, Japan
Consolidated Number of Employees	2,092 (as of March 2019)



OILES DEUTSCHLAND GMBH



OILES CZECH MANUFACTURING S.R.O.



- Group Companies**
- Headquarters
 - Sales & Manufacturing
 - Sales Offices
 - ▲ Manufacturing Companies
 - Distributors



OILES INDIA PVT. LTD. PLANT



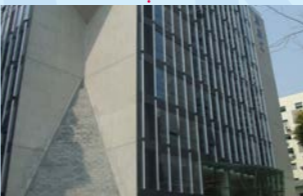
OILES INDIA PVT. LTD.



OILES (THAILAND) CO., LTD.



OILES SUZHOU CORPORATION



SHANGHAI OILES BEARING INC. SHANGHAI OFFICE (SALES)



SHANGHAI OILES BEARING INC.



OILES AMERICA CORPORATION



OILES AMERICA CORPORATION MICHIGAN OFFICE (SALES)

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