

PANOLIN[®] +
Swiss Oil Technology

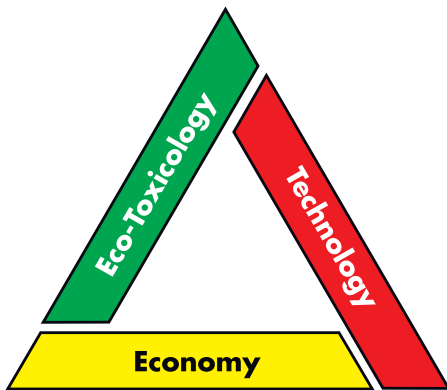
PANOLIN –
biodegradable lubricants for
hydropower installations



Envirolin 
Canada **ECO-FRIENDLY**
LUBRICANT
DISTRIBUTOR

PANOLIN[®] +
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PANOLIN – not just bio!

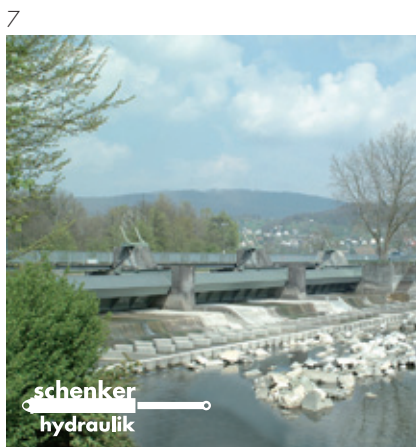
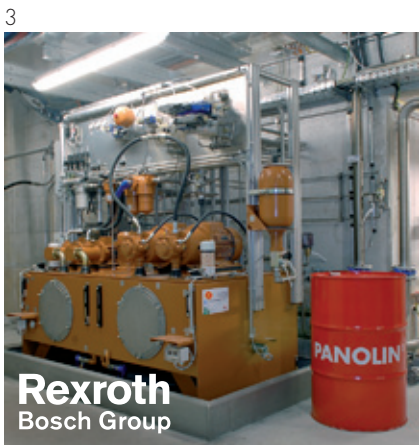
PANOLIN is internationally reputed as the leading producer of environment-considerate lubricants.

There is however another side to this shiny medal: not many people know that despite our success with rapidly biodegradable lubricants, we also offer mineral oil based and synthetic lubricants.

For the optimal solution in all cases, you can therefore depend on our overall lubricant competence and delivery capability.

We can advise and support you with full commitment to meeting your individual needs for professional lubrication concepts. All our lubricants are laboratory analyzed by specialists with practical experience and know-how.

The entire range of lubricants



1. ALSTOM (Schweiz) AG, CH-5242 Birr
2. Bieri Hydraulik, CH-3097 Liebefeld
3. Bosch Rexroth AG, D-97814 Lohr am Main
4. Fäh Maschinen- und Anlagebau, CH-8750 Glarus
5. Hans Künz GmbH, A-6971 Hard
6. Romag Röhren und Maschinen AG, CH-3186 Düringen
7. Schenker Hydraulik AG, CH-4658 Däniken
8. ANDRITZ Hydro GmbH, A-4031 Linz

Unsurpassed quality

Lubricants for water turbines, generators and hydraulic steel structures have to meet various demanding requirements. They must function with the utmost reliability for decades, even under the most adverse circumstances. In this sector as well, PANOLIN has established a reputation for superior lubricants that are highly estimated by numerous manufacturers.

Our oils and greases have been tested and approved by leading manufacturers worldwide. A good many producers of hydropower machinery and hydraulic steel structures place their trust in the Madetswil specialists. They use PANOLIN lubricants as original works filling for their hydraulics systems, generators, water turbines, weirs, sluices, trash rake installations, etc.



With this wide product range, PANOLIN covers all the lubricant needs of hydropower stations:

- Hydraulic fluids
- Lubricants for turbine and generator bearings
- Gear oils
- Lubricating greases

Biodegradable hydraulic oils for hydraulic steel structures and governor systems, and for the hydraulic systems of weirs, sluices, butterfly valves, etc.



PANOLIN HLP SYNTH

- Environment-considerate hydraulic fluid based on saturated synthetic esters
- Outstandingly resistant to ageing and oxidation
- Leaves no deposits in the hydraulic system
- Specifically for environmentally sensitive applications, even under the toughest conditions

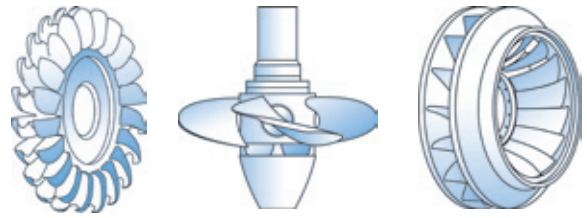


PANOLIN HLP SYNTH E

- Environment-considerate hydraulic fluid based on saturated synthetic esters from naturally regenerative resources
- In hydraulic systems for which hydraulic fluids conforming to the European Eco Label are prescribed
- Outstandingly resistant to ageing and oxidation
- Leaves no deposits in the hydraulic system
- Specifically for environmentally sensitive applications, even under the toughest conditions



Biodegradable water turbine bearing oils for Pelton, Kaplan and Francis turbines including generators



Part of the PANOLIN concept
GREENMACHINE®

PANOLIN TURWADA SYNTH

- Environment-considerate hydraulic fluid based on saturated synthetic esters
- Outstandingly resistant to ageing and oxidation
- Leaves no deposits in the lubricating system
- For water turbine bearing lubrication and governors



Part of the PANOLIN concept
GREENMACHINE®

PANOLIN TURWADA SYNTH E

- Environment-considerate turbine oil based on saturated synthetic esters from naturally regenerative resources
- In turbines for which lubricants conforming to the European Eco Label are prescribed
- Outstandingly resistant to ageing and oxidation
- Leaves no deposits in the lubricating system
- For water turbine bearing lubrication and governors



Part of the PANOLIN concept
GREENMACHINE®

PANOLIN TURWADA S 220 LL

- Environment-considerate open system lubricant
- For older water turbine bearings
- In turbines for which lubricants conforming to the European Eco Label are prescribed



Part of the PANOLIN concept
GREENMACHINE®

PANOLIN EP GEAR SYNTH

- Environment-considerate industrial gear lubricant based on saturated synthetic esters
- Outstandingly resistant to ageing and oxidation
- Leaves no deposits at the lubricating points
- For industrial drives in hydraulic steel structures

Biodegradable lubricating greases

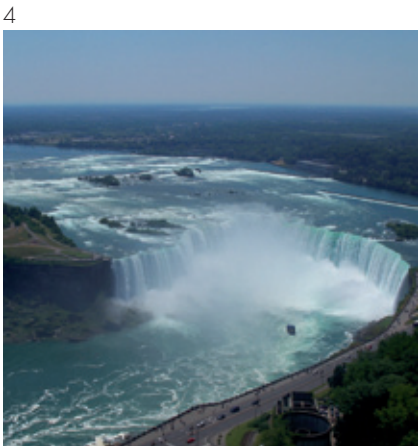
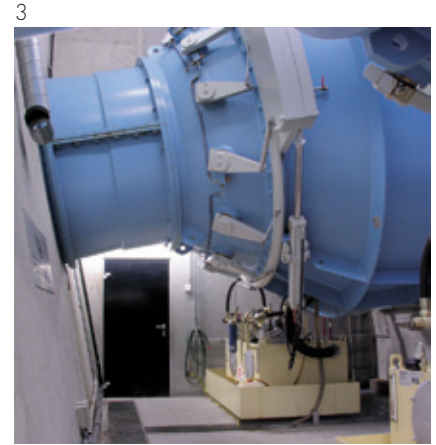
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PANOLIN BIOGREASE 2

- Environment-considerate synthetic universal lubricating grease
- Excellent wear protection properties
- Highly resistant to water
- For lubrication points in environmentally sensitive zones, such as water turbine guide-vane bearings

For additional products please refer to our complete listing

**Important note for all products:
please follow the manufacturer's instructions**



1. Small trash rake installations
2. Rhine hydropower plant, D-79618 Rheinfelden
3. Hochwuhr hydropower plant, A-6800 Feldkirch
4. Niagara Falls, USA/Canada: Welland Ship Canal with eight locks
5. San Roque 345 MW hydropower plant in the Philippines
6. Sihwa, South Korea: the world's biggest tidal power plant
7. Mont Saint-Michel, France: sluice gates in the Couesnon river
8. Sae Man Geum, South Korea: the over 30 km long canal with its imposing sluice installations.

In service worldwide

Our hydropower lubricants are used for everything from small trash rakes in little streams to big power plants and large weir installations, such as Sae Man Geum in South Korea.

The most reputed manufacturers recommend PANOLIN lubricants – a decisive reference for our global market presence.



PANOLIN Group, founded more than 60 years ago, is a Swiss family-operated company located in Madetswil near Zurich.

The development, production and marketing of PANOLIN lubricants are certified to ISO 9001 and ISO 14001.

Innovation, flexibility and competence combined with close customer ties make PANOLIN a strong partner in the field of lubricants.

PANOLIN®
Swiss Oil Technology **+**

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