



Masterpieces
in oils

PANOLIN® 
Swiss Oil Technology

Art comes from ability



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Instead of artist's colors and canvasses, we use base oils and additives. An artist can create a masterpiece even without the best materials, but we only use first-class ingredients and know the art of procuring them.



Practice makes perfect

Talent is important, but as Thomas Edison said, "Genius is one percent inspiration and ninety nine percent perspiration." Even the best paints cannot make a masterpiece without ability and expertise. The creation of a masterpiece arises from intuition, years of hard work, perseverance and fortitude.

And without mastery, even the best raw materials will not make a good lubricant.

PANOLIN masters the art of setting benchmarks in lubricant technology.

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The PANOLIN Group



PANOLIN Holding AG is the umbrella organization for the entire PANOLIN Group and owner of the following companies:



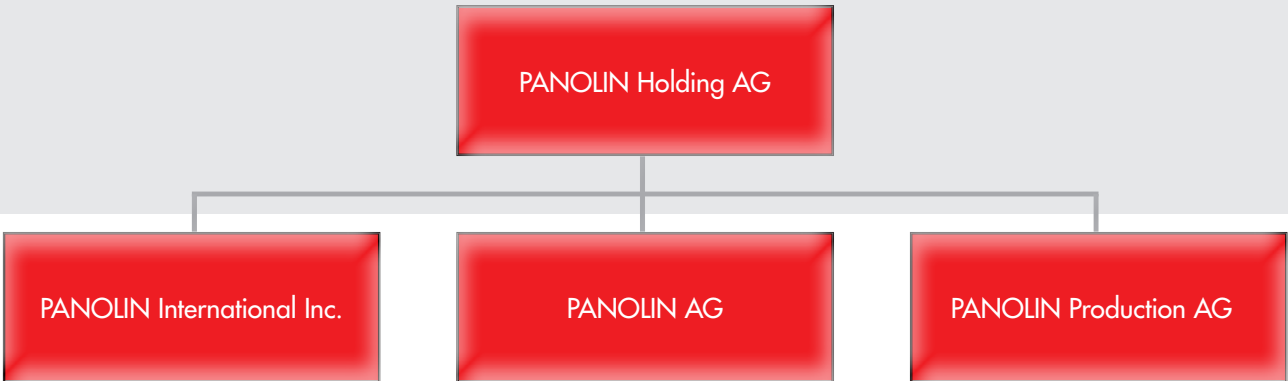
PANOLIN International Inc. handles all international business.



PANOLIN AG serves the lubricants market areas of Switzerland and Principality of Liechtenstein.



PANOLIN Production AG focuses on PANOLIN lubricants development and production. Its divisions are: technology, laboratory, procurement, accounting and IT.



Christian Lämmle
PANOLIN Holding AG
Chairman of the Board



Patrick Lämmle
PANOLIN International Inc.
Chairman of the Board/CEO
PANOLIN Holding AG
Board member



Silvan Lämmle
PANOLIN AG
Board delegate/CEO



Sarah Mohr-Lämmle
PANOLIN Production AG
Board delegate/CEO



Four Companies – One Claim

The PANOLIN Group is 100 % owned by the Lämmle family. Responsibilities within the Group are allocated among the four PANOLIN companies. This concept best serves market and customer needs with unmatched Group performance on a daily basis.

PANOLIN AG and PANOLIN International Inc., the two companies active on the market, are strongly customer-oriented to assist you in all lubricant matters.

To emphasize the Group unity and core skills, all four companies appear under the same logo “PANOLIN – Swiss Oil Technology”.

Key data and developments

- 1934 Founded by Bernhard Lämmle
- 1949 Entered in commercial register
- More than 65 years on the lubricants market
- 100 % owned by the executive management
- Independent and non-affiliated
- Management, research, development, laboratory and production – all under one roof
- Approximately 80 employees



Bernhard Lämmle, 1910 – 1986



Pioneering Role in Landmark Developments

- 1968** First multi-grade hydraulic oils
- 1979** First synthetic engine oil
- 1983** First environmentally-considerate hydraulic fluids
- 1983** First universal light-running engine oil
- 1995** First long-life diesel engine oils
- 2000** First long-life industrial hydraulic oils
- 2000** First low SAPS diesel engine oils
- 2007** First environmentally-considerate 4-stroke motorcycle engine oils
- 2009** Future-oriented semi-synthetic cutting fluids
- 2010** First environmentally-considerate low SAPS diesel engine oil
- 2012** First environmentally-considerate food grade lubricants

International Representations

- Europe** Austria, Belgium, Bosnia-Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Italy, Luxemburg, Macedonia, Montenegro, Netherlands, Norway, Poland, Principality of Liechtenstein, Russia, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom
- Asia** China, Indonesia, Iran, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan
- The Americas** Brazil, Chile, French Guyana, Canada, Mexico, Panama, Peru, United States of America
- Africa** Morocco, South Africa
- Australia** Australia, New Zealand



PANOLIN Swiss Oil Technology is state-of-the-art in all kinds of plant and machinery worldwide.

Globally at home



PANOLIN
UK Ltd.



PANOLIN
Scandinavia AB



PANOLIN
France

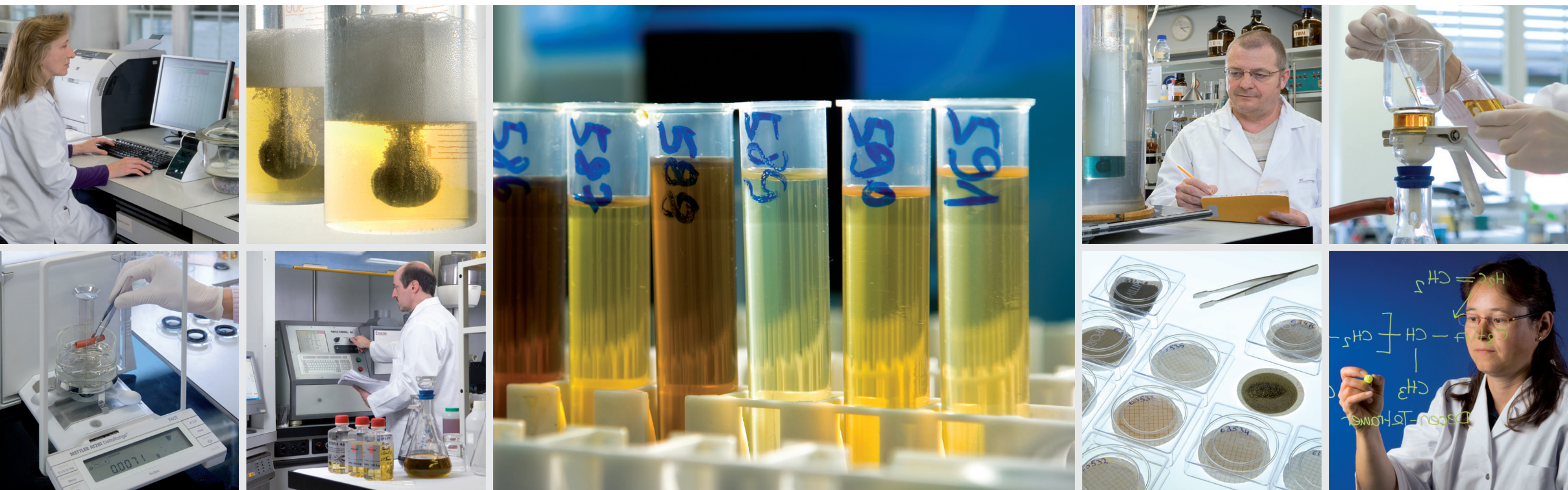


PANOLIN
America Inc.

Apart from the Swiss headquarters in Madetswil, PANOLIN has four Group subsidiaries in the UK, in Sweden, France and in the USA.

Furthermore, various partner companies on all five continents ensure global market presence and the worldwide availability of PANOLIN lubricants. To meet the global demand PANOLIN has chosen strategic places around the world, to manufacture our lubricants. These production plants adhere to strict PANOLIN quality standards.

PANOLIN Tec Center



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Putting ideas into practice

Our development team is challenged every day in many ways. Industrial clients want a product that will last “for-ever”. Racing enthusiasts want to boost engine power. And new environmental laws always have to be complied with.

One of their most demanding tasks is putting our ideas into practice. Ideas for new products that may not currently be in demand, but will seem indispensable in a few years’ time.

And with every development we have one major objective in mind: combining profitability, technology and the environment together as much as possible.

Keeping an eye on Nature



The PANOLIN Group headquarters are located in Madetswil near Zurich, Switzerland.

This is where the two sustainable, environmentally-friendly concepts "GREENMACHINE" and "GREENMARINE" were developed.



Motivated

PANOLIN headquarters are situated in a picturesque countryside setting, so we are naturally motivated to protect the environment. For more than three decades, our environmentally considerate lubricant developments have decisively impacted the market.

The environmentally considerate products developed in Madetswil are internationally acclaimed, as documented by numerous national and international eco-labels.

Made in Switzerland, made in ...



14 Our TQM (Total Quality Management) ensures that you can depend on the PANOLIN quality wherever you use our lubricants.



From Madetswil across the globe

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Initially, every drop of PANOLIN oil was produced in Madetswil, but as business expanded worldwide, it became necessary to manufacture some of our products closer to our customers.

However far away, "Swiss Oil Technology" still applies. Our technicians make up the formulations locally, and our laboratory has to approve a production sample before starting delivery.

Our speciality formulations are kept secret. The concentrate produced up by our blending masters is mixed by an external provider with the base oils we prescribe.

PANOLIN lubricants ...



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SWISST
ISO 9001
ISO 14001

PANOLIN lubricants
are used in numerous sectors:

- 1 Automotive
- 2/4 Motorsport
- 3 Transport
- 5 Plastics industry
- 6 Food industry
- 7 Textile industry
- 8 Metalworking industry

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... in tough daily use

Without lubricants, the economy would grind to a halt. However, not everyone needs the same oil.

Requirements vary as widely as applications. All users want longer oil change intervals and dependable protection of their plant or machinery. But they set very different priorities. Skin-friendly lubricants and cutting fluids are important in the metalworking industry. Racing drivers want the ultimate performance from their engine – which can be decisive for victory. Impeccable food grade compliance is indispensable for the foodstuff and pharmaceutical industries. And the list goes on.

Considerate to the environment



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GREENMACHINE®



PANOLIN ECL (Environmentally Considerate Lubricant) applications include:

- 1 Municipal operations
- 2 Rail track laying
- 3 Construction and mining
- 4 Forestry
- 5 Hydromechanical works
- 6 Hydroelectric power plants
- 7 Agriculture
- 8 Alpine railways and machinery

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Core competence – ECL

Our **E**nvironmentally **C**onsiderate **L**ubricants are increasingly used with great success.

PANOLIN GREENMACHINE products optimize environmentally-considerate machine operation to the highest technical standards of safety, dependability and cost-effectiveness. They are rapidly biodegradable, minimize CO₂ emissions and conserve resources thanks to long filling life. These are important principles of our sustainability concept.

Our biodegradable food-grade products uphold our innovation strength by creating a new category of lubricants.

Waterside and marine



Image supplied courtesy of Gwynt y Môr Offshore Wind Farm Limited



A logical step

PANOLIN HLP SYNTH has been in use for more than 35 years in countless earthmoving machines whether in, on or out of the water. It was followed by other special lubricants for hydromechanical works and hydroelectric power plants. With all of this water-related experience, and searching for new challenges – an enormous scope for marine applications was discovered. Innumerable ships are underway day and night; dredging machines keep harbors, water basins and canals free of gravel and sludge; installation ships busily set up wind power plants ...

PANOLIN launched a product line that covers the needs of the marine industry: PANOLIN GREENMARINE.

Masterpieces in oils

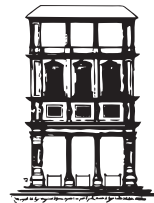


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Gemäldegalerie
Staatliche Museen zu Berlin

Rembrandt van Rijn, 1606 – 1669
"The Man with the Golden Helmet"



GALLERIA DEGLI UFFIZI

Sandro Botticelli, 1445 – 1510
"The Birth of Venus"

**MUSEO NACIONAL
DEL PRADO**

Albrecht Dürer, 1471 – 1528
"Self-Portrait, Madrid"

LOUVRE

Leonardo da Vinci, 1452 – 1519
"Mona Lisa"

Mh Mauritshuis

Jan Vermeer, 1632 – 1675
"The Girl with the Pearl Earring"

Masterpieces are not by chance

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The Mona Lisa and other outstanding masterpieces deserve our greatest respect as the fruits of intensive labor by great artists.

These masterpieces can be admired in the world's most reputed art galleries.

But there are also other masterpieces in oils ...

Our masterpieces

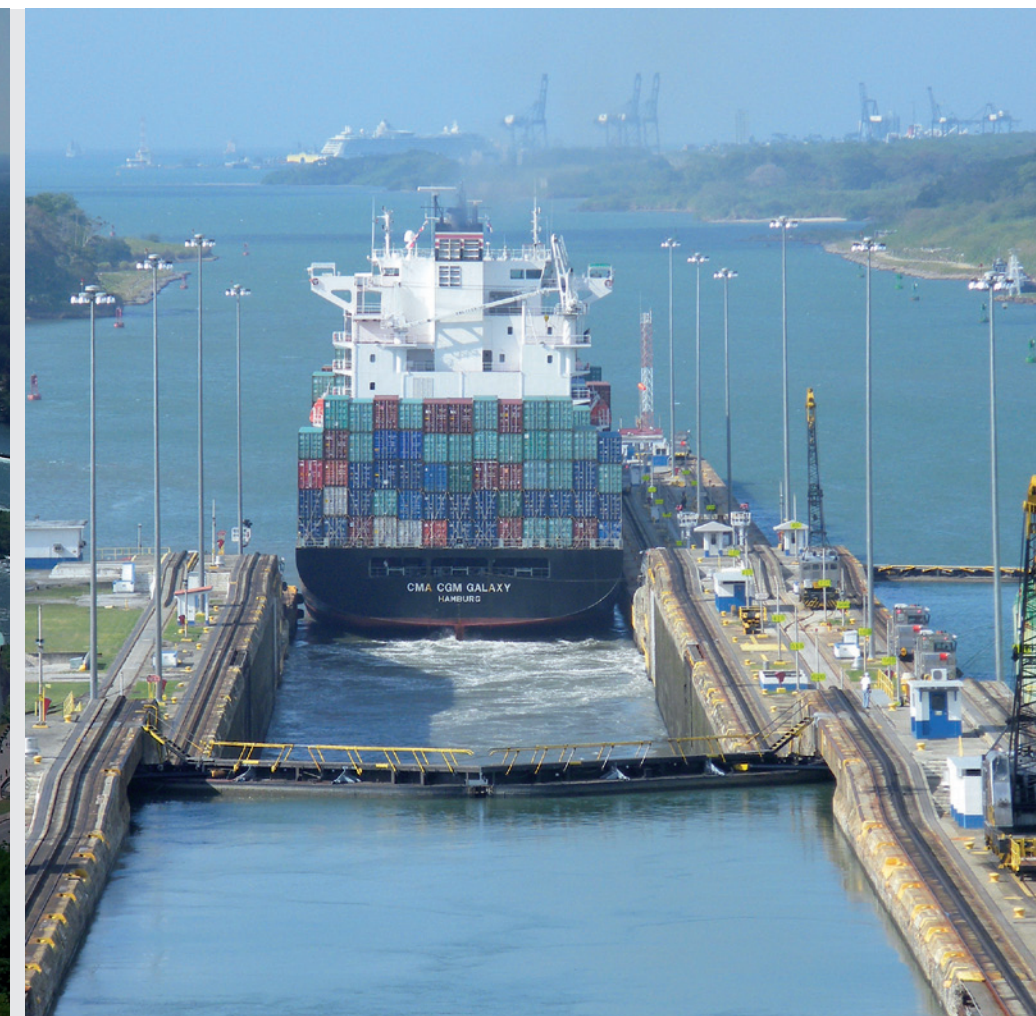


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London Eye – This 135 metre high ferris wheel, revolving since the turn of the millennium, gives a magnificent view over London and environs.

Niagara falls – On the USA/Canadian border enormous water masses thunder down 58 metres into the depths.

Panama Canal – Connecting the Atlantic and Pacific Oceans, it saves ships from navigating round Cape Horn at the southern tip of Chile, and shortens the voyage from New York to San Francisco by about 15,000 kilometres.



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PANOLIN highlights

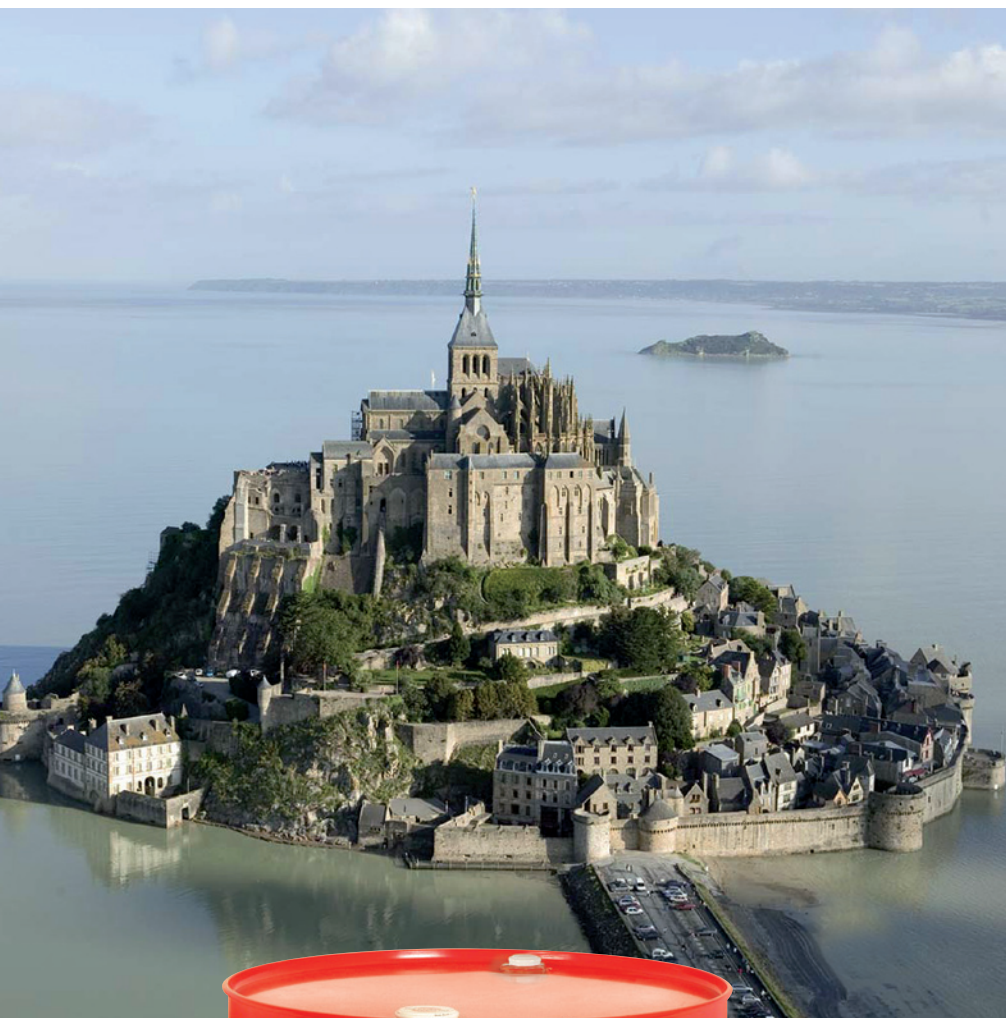
Our masterpieces are not on show in the Louvre or other reputed galleries, but PANOLIN lubricants are tirelessly at work in various world-famous attractions.

Ever since its inauguration in 1999, the **London Eye's** hydraulic systems have been filled with PANOLIN fluid. Not until well over 100,000 operating hours was this hydraulic fluid first changed.

Niagara falls are circumnavigated through the Welland canal. The eight 496-ton lock gates are opened and closed by hydraulic systems using PANOLIN fluid.

Thanks to the 170 PANOLIN-filled hydraulic units on the **Panama Canal** lock gates, it only takes about 15 hours to pass through.

Our masterpieces



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Mont Saint-Michel – This French monastery island, a UNESCO World Culture Heritage, attracts three and half million visitors every year.

Sae Man Geum – This large-scale Korean project with its 33 kilometre long dam not only reclaimed a lot of land, but also created a gigantic freshwater reservoir.

Pilatus – Lucerne's famed mountain is a well visited tourist attraction in Switzerland. The world's steepest cogwheel railway leads from Alpnachstad, on Lake Lucerne, to Pilatus Kulm, 2,132 m ASL (6,801 ft).

PANOLIN highlights

Mont Saint-Michel stays an island thanks to a PANOLIN-filled sluice gate system. This collects seawater at high tide, and releases it to wash away the sand and silt under high pressure at low tide.

Sae Man Geum – The ten sluice gates on Garyuk weir and eight on Sinsi are operated twice daily by PANOLIN-filled hydraulic systems.

Pilatus – At 48° gradient, the Pilatusbahn is the world's steepest cogwheel railway. The entire rack and pinion system including drive gear is lubricated by PANOLIN.

We put forth a tremendous amount of effort to create such dependable products. Therefore, they can indeed be called **"Masterpieces in oils!"**

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