

reliable
motion
for a
better
tomor
row

For more information scan the QR Code
and visit us at innomotics.com



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The Siemens Businesses Large Drives Applications and Low Voltage Motors have been transferred to Innomotics. The brand change from Siemens to Innomotics is ongoing.

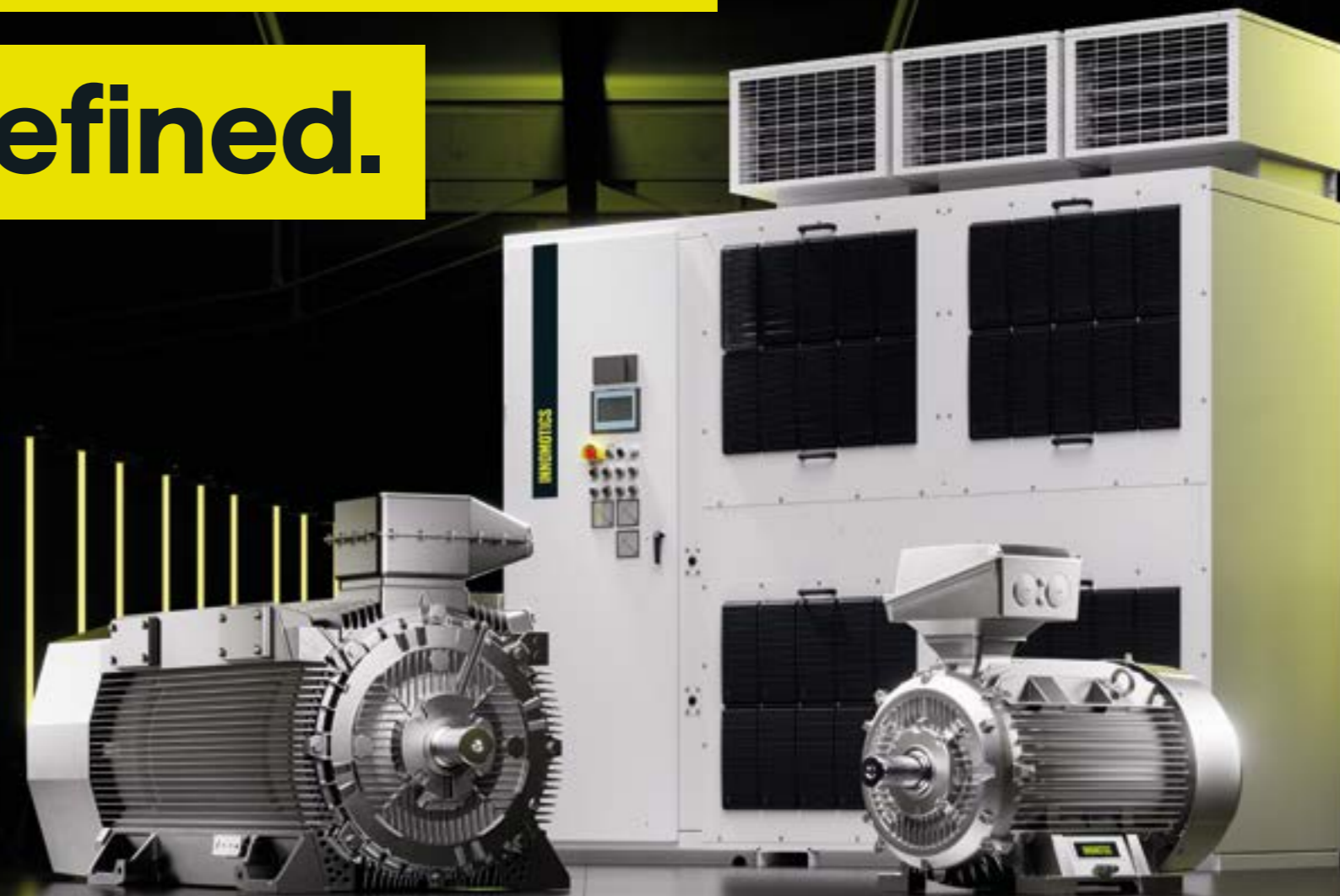
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Reliable Motion.

Redefined.

INNOMOTICS



A photograph of four diverse professionals (three men and one woman) looking upwards and to the right against a dark background. They are dressed in dark, professional attire. The lighting is dramatic, highlighting their faces and the texture of their hair and clothing.

Strong heritage, new horizons.

**Redefining reliable motion
for a better tomorrow.**

With a trusted legacy of more than 150 years of Siemens engineering expertise, we are and have always been the backbone of reliable motion for industries and infrastructure worldwide. Our mission is to support you, our customers and partners, and your business on the road to the future – sustainable, digital, reliable.

INNOMOTICS

Innomotics Acts.

Our Product and Service Portfolio.

We're organized in five focused business divisions. As a world leader in motors, drives, solutions and digital technologies, we serve reliable, sustainable motion for a better tomorrow.

Innomotics Moves! Page 6	Motors & Generators
Innomotics Converts! Page 12	MV Drives
Innomotics Inspires! Page 14	Digital Services
Innomotics Solves! Page 16	Solutions
Innomotics Serves! Page 18	Customer Services

Aligned to market needs. Designed for your industry.

Innomotics combines efficient products and proven expertise with permanent innovative thrust. Our five business divisions are power lines answering market and industry needs. Around the globe.



- Metals**
Blast furnace blowers
Sinter fans
Wire rod mills
- Marine**
Main marine drives
Booster drives
Shaft generators
- Minerals**
Conveyor and mill drives
E-houses
Mine winders
- Power Generation**
Starting generators
Boiler feed pumps
- Oil & Gas**
Large compressors
Large pumps
- Chemicals**
Extruders
Large compressors
- Water & Wastewater**
Large pumps
- Automotive**
Conveyors
- Pulp & Paper**
Refiners
- Food and Beverage**
Mixing and shredding

Key verticals

Low Voltage Motors.

Benefit from Best-in-Class.



Innomotics is a synonym for best-in-class low voltage motors – designed for tough industrial duty, all over the world.





The range is all-encompassing. It includes asynchronous, synchronous reluctance and permanent magnet technology. In the global IEC market we are number one.

Applications range from standard to toughest environmental conditions and from industry-specific designs to use in sensitive explosion protection (Ex) zones.

- Key verticals**
- Oil & Gas
 - Chemicals
 - F&B
 - HVAC



General Purpose	Severe Duty
	
GP	SD
Standard environmental conditions	Toughest environmental conditions
Highlights <ul style="list-style-type: none"> + Easy to use and extremely compact + Special types for special demands + Lightweight aluminum design + Efficiency up to IE4 	Highlights <ul style="list-style-type: none"> + Best-in-class design + Built for harsh environmental conditions + Exceeds energy efficiency requirements in IE4 + Easy business, fast delivery
Applications <ul style="list-style-type: none"> + Pumps, fans, compressors + Intralogistics with gearbox 	Applications <ul style="list-style-type: none"> + Pumps, fans, compressors + Material handling (mixers, mills, extruders, rollers, winders, shredders, shears, cranes)

Explosion Proof	Definite Purpose	Synchronous Reluctance	Permanent Magnet
			
XP	DP	GP/SD VSD4000	GP/SD PM
Consistent platform for explosion protected motors	Optimal solution for industry-specific demands & applications	Innovative synchronous reluctance motor for high efficiency systems (VSD-driven motors)	High-end ultra efficient optimized systems with Permanent Magnet motors (VSD-driven motors)
Highlights <ul style="list-style-type: none"> + Complete and seamless + Simplified and fast commissioning + CHEMSTAR¹⁾ design features + Easy maintenance, replacement 	Highlights <ul style="list-style-type: none"> + Going beyond the standard range, the industry-specific motors provide the optimum and precise solution for individual demands 	Highlights <ul style="list-style-type: none"> + Extremely efficient also in the partial-load range to achieve both low operating costs & high efficiency + Dynamic performance & closed-loop control w/o encoder (sensorless) + High overload capability – rugged and reliable + Synchronous motors w/o permanent magnets 	Highlights <ul style="list-style-type: none"> + Ultra Premium efficiency class that exceeds IE5 + High power and torque density + Downsize the frame size up to two shaft heights + High overload capability + Dynamic performance and precise control w/o encoder (sensorless)
Applications <ul style="list-style-type: none"> + Process industry + Chemical/petrochemical + Oil and gas 	Applications <ul style="list-style-type: none"> + Marine motors + Crane motors + Roller table and steel plants 	Applications <ul style="list-style-type: none"> + Pumps, fans and compressors + Conveyor technology + Machine engineering (e.g. winders) 	Applications <ul style="list-style-type: none"> + Pumps, fans and compressors + Dynamic and high torque applications




1) Pre-configured options for the chemical and O&G industries


Welcome to the world's trusted geared motor family. We power industries from deep-freeze indoor to stormy outdoor installations, driving efficiency and productivity worldwide.

Shift to excellence with SG Standard Geared Motors. Our geared motor range is at a high level – in terms of usability, power density, gear ratios, energy efficiency and performance. Our torque scaling is no exception: It is the finest we have to offer.

Geared Motors.

Gear up for Flexibility. Push Productivity.

General Purpose	Conveyor Technology	Explosion Protected
		
Holistic portfolio for any application	Optimized portfolio for dynamic drive systems	Safe operation in hazardous areas
Highlights <ul style="list-style-type: none"> + Broad range of gearboxes, motors and options + Superior quality with high mechanical efficiency + Best-in-class tools for sizing and configuration 	Highlights <ul style="list-style-type: none"> + Compact design with motor mounted inverter G115D + Converter world motor supports standardized engineering + Reluctance motors exceed super premium efficiency 	Highlights <ul style="list-style-type: none"> + Complete portfolio for all ATEX areas in gas and dust loaded atmospheres + Easy selection in configuration tools + Integrated design for applications with high demands regarding compactness
Applications <ul style="list-style-type: none"> + Discrete manufacturing and process industries + Machine building + Winding applications 	Applications <ul style="list-style-type: none"> + Intralogistics and airports + Belt / chain / roller conveyors + Travelling and hoist 	Applications <ul style="list-style-type: none"> + Sewage treatment plants + Wood working / grain / paint shop + Mixers and agitators




Definite Purpose

Special design for special applications
Highlights <ul style="list-style-type: none"> + Robustness and reinforced construction for higher loads + High resistance to environmental stress + Customization for industry specific requirements
Applications <ul style="list-style-type: none"> + Fresh and waste water + Cranes + Cooling towers + Car wash

Industrial Generators.

Boost your Power Yield. With Zero Interruptions.

The modular frame and standardized, compact build enhance flexibility and simple planning, even for customized solutions. Add low vibration levels and sturdy, robust design to provide lifelong reliability.

- Benefits at a glance**
- + Maximum availability for uninterrupted power generation
 - + Standardized, compact design for simplified planning
 - + Flexible electrical parameters for customized solutions
 - + Minimum vibration
 - + Sturdy, rugged, long-life quality for tough conditions, onshore and offshore
 - + Variable, powerful cooling options

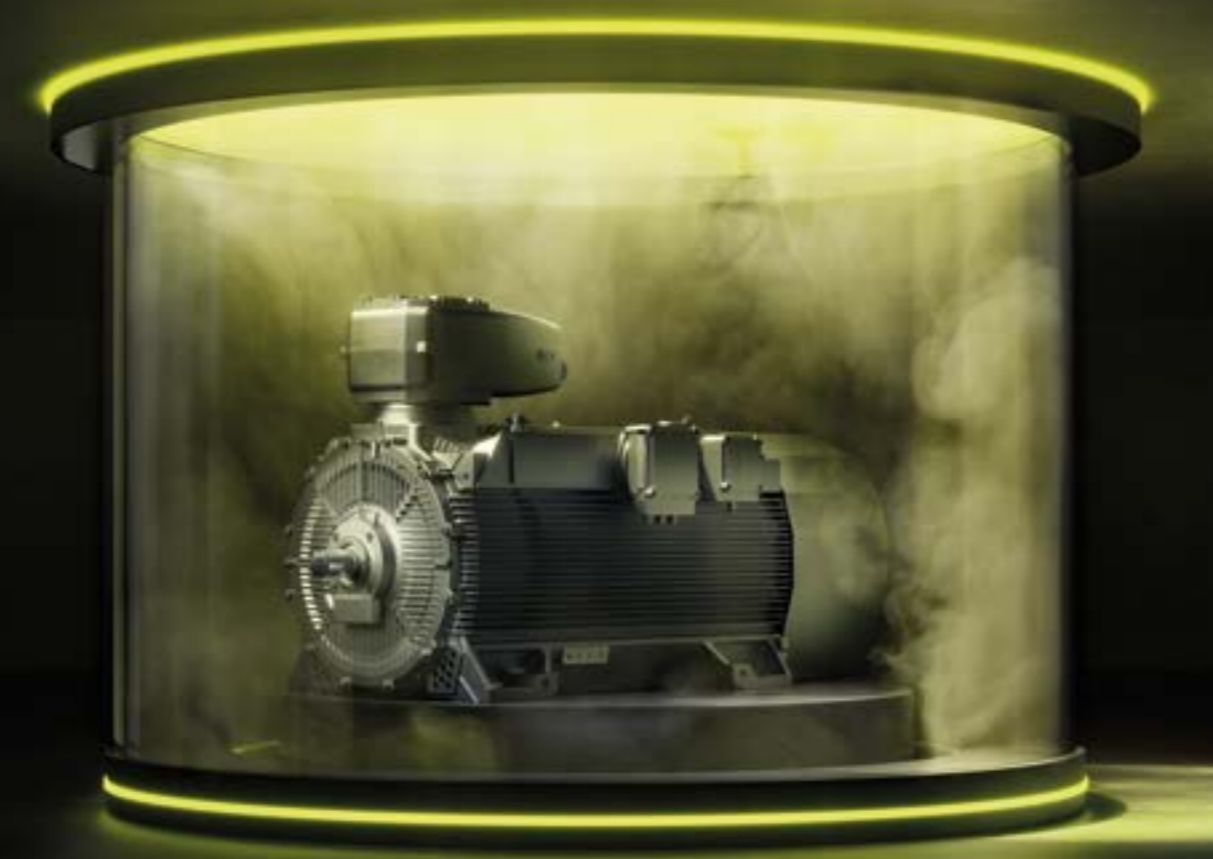
Innomotics GEN
1 – 35 MVA*
0,38 – 15 kV
Synchronous Salient pole / cylindrical rotor
Welded steel frame
Modular type cooler
IP23, IP54, IP55




High Voltage Motors.

Outperform Standards.

Innomotics drives megatrends to more efficiency and sustainability in all industries. We outperform global standards, even in the most demanding applications.

- Key verticals**
- Oil & Gas
 - Metals
 - Minerals
 - Water
 - Chemicals
 - Power



HV C Compact	HV M Modular	HV Specialized	AboveNEMA
150 – 7,500 kW	250 – 29,000 kW	1 – 100 MW	200-28,000 HP
0.38 – 11 kV	0.38 – 13.8 kV	3.3 – 13.8 kV	0.38 – 13.8 kV
Asynchronous Squirrel-cage rotor	Asynchronous Squirrel-cage rotor, slip ring rotor	Asynchronous / Synchronous Squirrel-cage rotor, salient pole rotor	Asynchronous Squirrel-cage rotor
Cast iron frame / steel frame	Cast iron frame / steel frame	Steel frame	Cast iron frame / steel frame
Rib-cooled, tube cooled, water cooled	Modular type cooler	Modular type cooler or special	Surface cooled / modular type cooler
IP55, IP56, IP65, IP66	IP23, IP55, IP56	IP23, IP54, IP55, IP56	IP23-IP55
Zone 1 designed as Ex db IIB, Ex db IIC / Zone 2 designed as Ex ec / Zone 22 designed as Ex tc	Zone 1 designed as Ex pxb / Zone 2 designed as Ex ec, Ex pzc / Zone 22 designed as Ex tc	Zone 1 designed as Ex pxb / Zone 2 designed as Ex ec, Ex pzc or Class 1, Division 2 / Zone 22 designed as Ex pzc	Safe Area & Hazardous Area (Class 1, Division 2)
<ul style="list-style-type: none"> + Revolutionary air-cooling + Highest power density + Flameproof (gas group IIB & IIC) + Robust, resilient, low weight 	<ul style="list-style-type: none"> + Highest power density + Space efficient + Flexibility for specific needs + Industry leading low vibration levels 	<ul style="list-style-type: none"> + Highest speeds + Industry leading low vibration levels + Efficiency rates 99 % + Tailored to customer needs 	<ul style="list-style-type: none"> + Exceeds North American standards + Industry leading low vibration levels + Best power density + Custom engineered solutions

MV Drives and Drive Systems.

Convert to Sustainability. Switch to Premium.

Innomotics is the trusted original for medium voltage drives. We play a key role in sustainable process and power-to-power applications.

- Key verticals**
- Oil & Gas
 - Metals
 - Minerals
 - Water



Innomotics Perfect Harmony MV Drives.

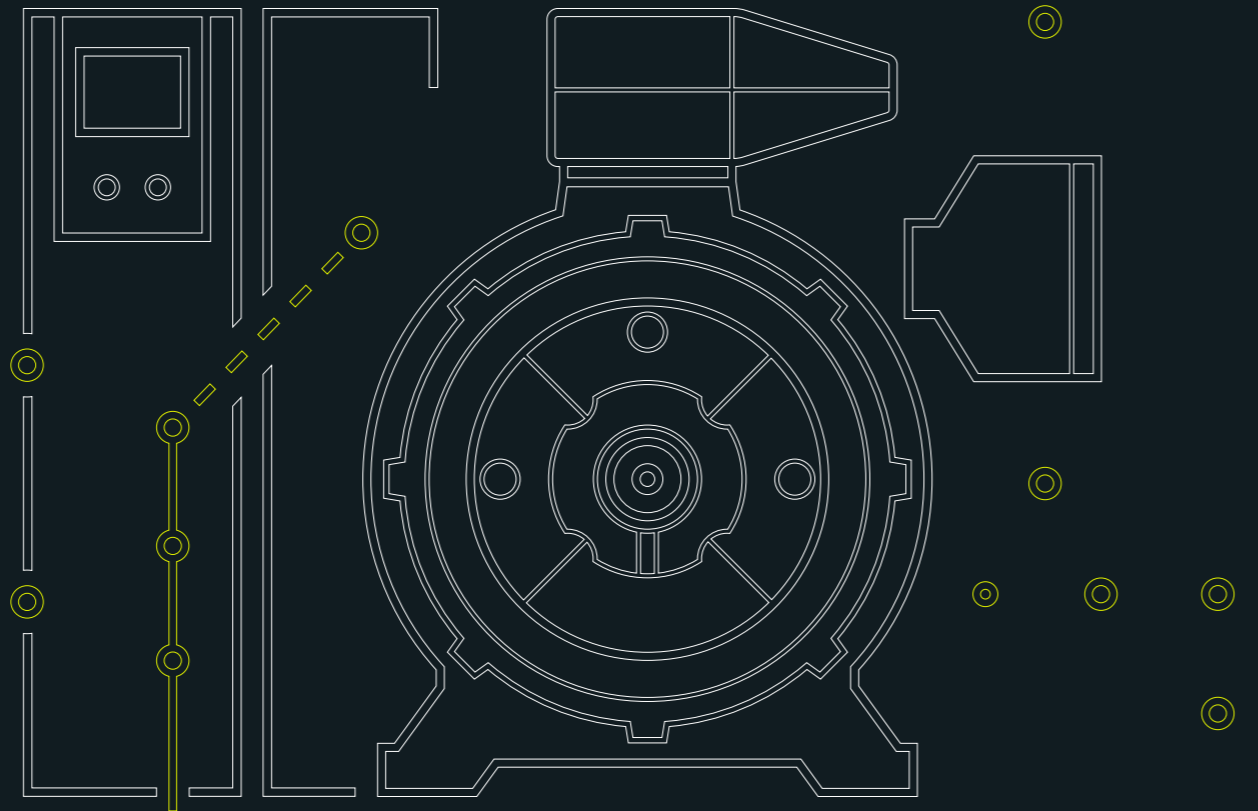
- + For cable lengths up to 2,300 m
- + Redundant cooling system with advanced cell-bypass for reliability and availability
- + IEEE 519-1992 compliant for voltage and current harmonic distortion
- + Operates at 30% input voltage sag continuously without tripping
- + Ready for the digital future with extended integrated monitoring

Perfect Harmony GH180	Perfect Harmony GH150	GM150	GL150	Perfect Harmony SH150	SM150	SL150
						
150 kVA – 14.3 MVA (air cooled)	4 – 35 MVA Up to 65 MVA on request (air cooled)	1 – 10.1 MVA (air cooled)	1.4 – 30 MVA (air cooled)	4 – 30 MVA (air cooled on request)	3.4 – 5.8 MVA (air cooled)	2.9 – 18.8 MVA (air cooled)
5 – 26.2 MVA (water cooled)	4 – 47 MVA (water cooled)	2 – 24 MVA (water cooled)	6 – 85 MVA * (water cooled)	4 – 32 MVA (water cooled)	4.6 – 31.5 MVA (water cooled)	12 – 40 MVA (water cooled)
2.4 – 11 kV (output voltage)	4.16 – 13.8 kV (air cooled) 4.16 – 11 kV (water cooled) (output voltage)	2.3 – 4.16 kV (air/water cooled) 6.6 kV (water cooled only) (output voltage)	1.4 – 10.3 kV (output voltage)	3.3 – 11 kV (output voltage)	3.3 – 11 kV 4.16 kV (IGBT only) (output voltage)	1.5 – 4 kV (output voltage)
2Q / 4Q 	2Q 	2Q 	4Q 	2Q / 4Q (AFE) 	4Q (AFE) 	4Q 
+ Integrated transformer	+ Separate transformer	+ Separate transformer	+ Highest power ratings	+ Highest flexibility	+ High dynamics	+ Low speed
+ Cell redundancy	+ Cell redundancy	+ Marine/offshore duty	+ Control redundancy	+ Line friendly	+ High overload	+ High overload
+ Motor friendly	+ Motor friendly	+ Small footprint	+ Almost maintenance-free	+ Modular topology combinations	+ Multi-motor dc-bus	+ Highest efficiency

Digital Services.

Log in to the Digital Future.

Bringing it all together: Linking up digitally augmented products, digital solutions and smart services. Innomotics invents, designs, builds and puts it all in place. The result: digital inspiration that makes a difference. In future. Globally.



Smart Products
Smart products and systems turn into industrial IIoT platform devices. For both brown- and greenfield scenarios. Innomotics provides the how-to. And the need-what.

Digital Platform
Increase availability, optimize asset management and speed up decision-making: Innomotics provides answers to productivity demands in IIoT ecosystems. Modular. Scalable. Connected.

Digital Services
Innomotics delivers cloud-based answers for next generation remote and predictive services. The result: highest availability and productivity for your drivetrain. Digitally. Globally. Reliably.

Innomotics Inspire IQ

Inspire IQ Digital Platform

IQ Suite
The Innomotics analytical platform for data transparency improves fleet transparency and minimizes unplanned downtimes.

IQ Shift
Optimize operational lifecycles and identify risks in advance. Follow expert action recommendations and improve outage planning by advance ordering and optimized inventory.

Inspire IQ Digital Services

We provide digitized value and performance services for your asset.

Rapid Response
The service solution for fast recovery.

Guided Supervision
The service solution for continuous monitoring.



Solutions for Sustainability.

Innovate to Integrate. Focus on the Big Picture.

Clean air, clean water, clean power: Innomotics drives integration and innovation to provide answers with global impact. By providing energy efficient solutions, we enable the energy transition and sustainable resource reutilization.

Energy efficiency.

Innomotics systems are engineered to be more energy-efficient, using up to 50% less energy than traditional motors and drives. This technology promotes the electrification of industrial processes and helps to decrease the carbon footprint of heavy industries around the world.

Energy transition and grid stability.

Innomotics power-to-power solutions ensure a stable influx of renewable energies into the grid. For example: the production, storage and transportation of hydrogen on an industrial scale.

Sustainability and digitalization.

Innomotics technologies and digital integration help meet the growing demand for valuable primary materials. Safely and sustainably.

Clean water supply.

Desalination and irrigation answer to the world's growing demand for clean water. Innomotics proudly provides solutions for water and wastewater safety around the globe.

Flood protection.

Protecting vulnerable areas from flood threat relies on drainage pumps in barrier systems. Innomotics provides the expertise – and the drives – to make this both possible and feasible.

Reliable Motion, at your Service.

We take care of your assets, so you can focus on your business.

Your peace of mind is our top priority. Customers from all industries across the globe rely on Innomotics service performance. We are always there when you need us. All around the world, 24/7. Because that's what reliable motion is all about.



Discover the full scope on innomotics.com

Your assets must perform at top level. We make sure they do. Our services provides you with everything you need to keep your plant running efficiently, reliably and sustainably.

