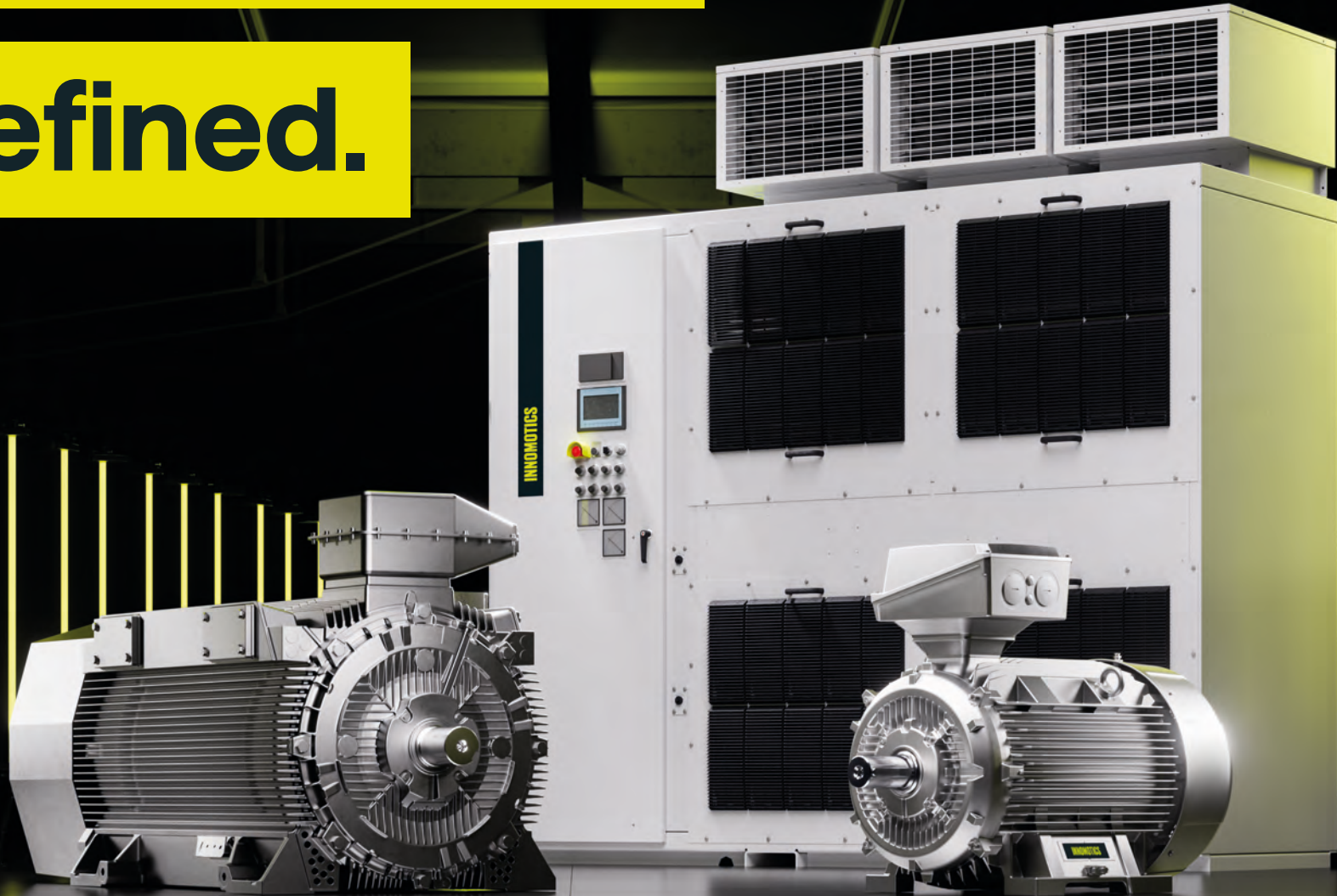


Reliable Motion.

Redefined.

INNOMOTICS



**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!

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Motors & Generators

Innomotics Converts!

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MV Drives

Innomotics Inspires!

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Digital Services

Innomotics Solves!

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Solutions

Innomotics Serves!

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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



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
0.09 – 45 kW / 200 – 690 V	0.09 – 1,000 kW / 200 – 690 V
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
0.09 – 1,000 kW / 200 – 690 V	2.2 – 372 kW / 200 – 690 V	0.55 – 90 kW / 380 – 440 V	0.37 – 22 kW, 90 – 250 kW / 380 V
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)
<p>Highlights</p> <ul style="list-style-type: none"> + Complete and seamless + Simplified and fast commissioning + CHEMSTAR¹⁾ design features + Easy maintenance, replacement <p><small>1) Pre-configured options for the chemical and O&G industries</small></p>	<p>Highlights</p> <ul style="list-style-type: none"> + Going beyond the standard range, the industry-specific motors provide the optimum and precise solution for individual demands 	<p>Highlights</p> <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 	<p>Highlights</p> <ul style="list-style-type: none"> + Premium efficiency class exceeds IE5 + High power and torque density + Downsize the frame size up to two shaft heights + High overload capability + Precise control (sensorless)
<p>Applications</p> <ul style="list-style-type: none"> + Process industry + Chemical/petrochemical + Oil and gas 	<p>Applications</p> <ul style="list-style-type: none"> + Marine motors + Crane motors + Roller table and steel plants 	<p>Applications</p> <ul style="list-style-type: none"> + Pumps, fans and compressors + Conveyor technology + Machine engineering (e.g. winders) 	<p>Applications</p> <ul style="list-style-type: none"> + Pumps, fans and compressors + Dynamic and high torque applications

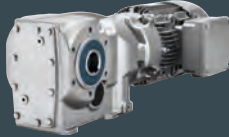


Geared Motors.

Gear up for flexibility. Push productivity.

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.

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

Industrial Generators.

Boost your power yield. With zero interruptions.

Definite Purpose



Special design for special applications

Highlights

- + Robustness and reinforced construction for higher loads
- + High resistance to environmental stress
- + Customization for industry specific requirements

Applications

- + Fresh and waste water
- + Cranes
- + Cooling towers
- + Car wash

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

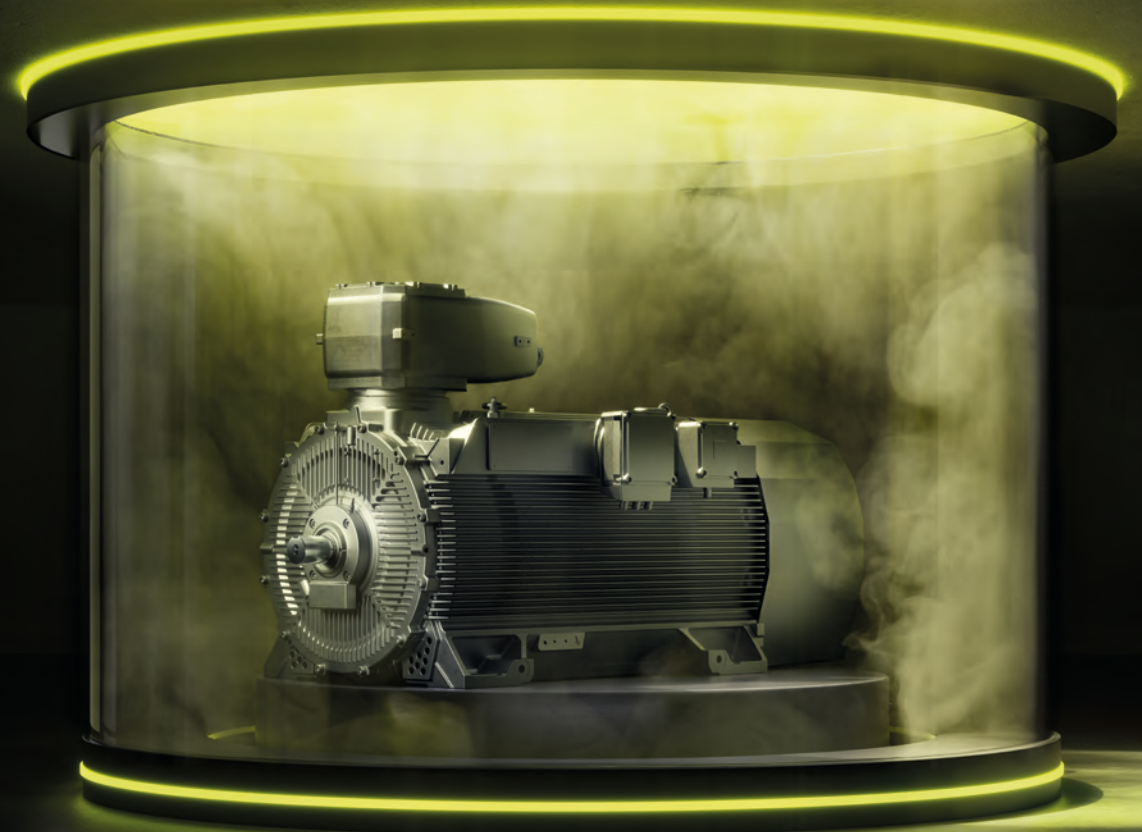
Metals





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.

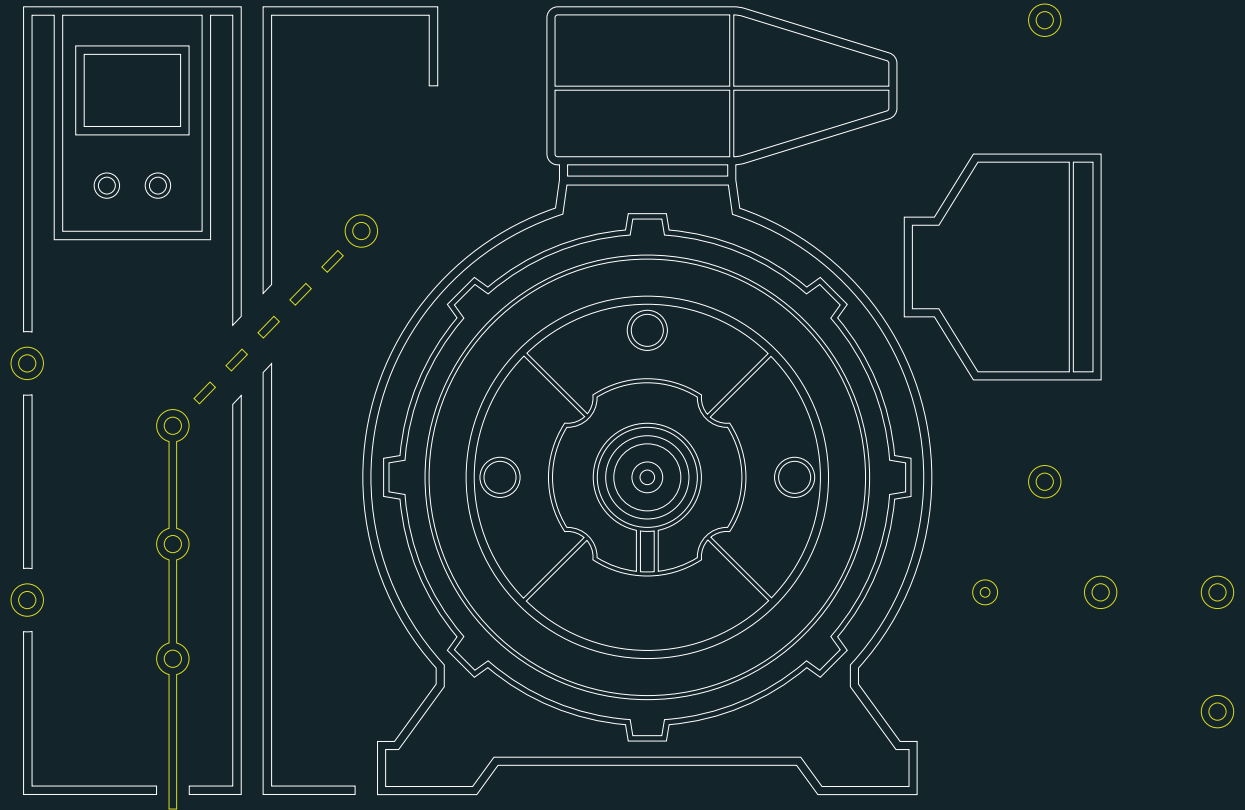
- + For cable lengths up to 2,300 m
 - + Redundant cooling system with advanced cell-bypass for reliability and availability
- + IEEE 519-1992 compliant for voltage and current harmonic distortion
 - + Operates at 30 % input voltage sag continuously without tripping
- + Ready for the digital future with 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 ⚡
<ul style="list-style-type: none"> + Integrated transformer + Cell redundancy + Motor friendly 	<ul style="list-style-type: none"> + Separate transformer + Cell redundancy + Motor friendly 	<ul style="list-style-type: none"> + Separate transformer + Marine/offshore duty + Small footprint 	<ul style="list-style-type: none"> + Highest power ratings + Control redundancy + Almost maintenance-free 	<ul style="list-style-type: none"> + Highest flexibility + Line friendly + Modular topology combinations 	<ul style="list-style-type: none"> + High dynamics + High overload + Multi-motor dc-bus 	<ul style="list-style-type: none"> + Low speed + High overload + 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

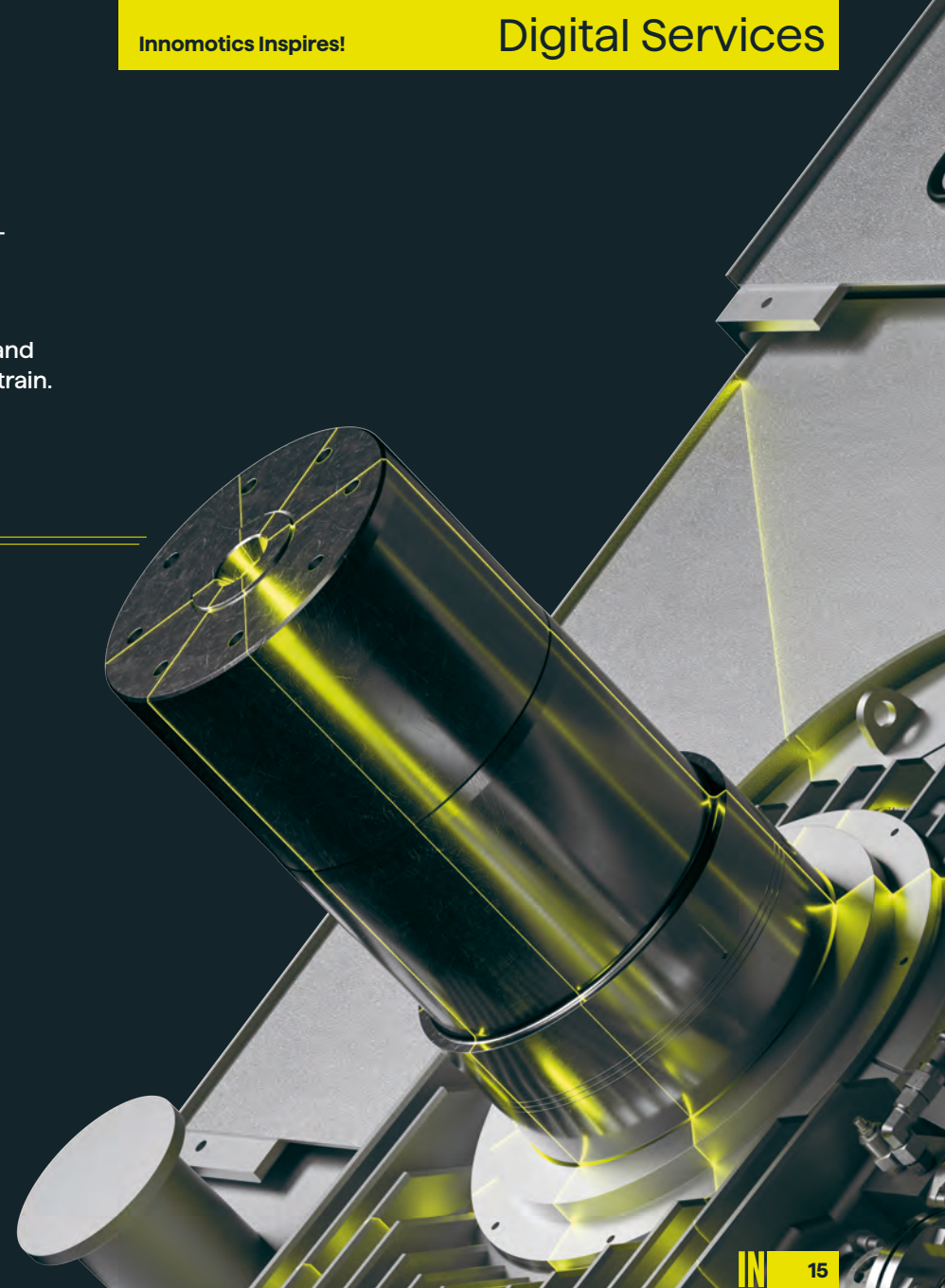
We provide digitized value and performance services for your asset.

Rapid Response

The service solution for fast recovery.

Guided Supervision

The service solution for continuous monitoring.



Visionary Solutions.

On the road to a better tomorrow.

**Our State-of-the-Art
Electrification, Automation
and Digitalization Solutions
support our customers
in productivity, efficiency
and sustainability.**





Minerals

Innomotics offers solutions, systems, products, and services for the global mining sector. By integrating automation and drive technologies, along with power supply and distribution systems, we create complete, high-efficiency solutions for the mining industry.

Our solutions enable customers to intelligently simulate, optimize and automate their mining operations with the goal of sustainably increasing efficiency across the entire value chain.



Mobile Mining

Our current portfolio comprises electrical drive systems for dump trucks and excavators. We create sustainable value for our customers based on proven, reliable technology – know-how that has been compiled over more than 100 years of experience in mining. Innomotics Mobile Mining combines innovative, customized system solutions for open-pit and underground mining vehicles with worldwide after-sales support.



Green Hydrogen

We engineer safe and reliable power supply systems with products, systems and engineered solutions. We optimize cost and performance in your green hydrogen projects while minimizing risk.

Innomotics supports you with an advanced portfolio of products and with deep integration and industrial deployment experience along the value chain from production to distribution.



Test Applications

With more than 80 years of experience, we provide testing equipment that accommodates the very highest demands of design and technology. Whether for research and development or quality assurance, our systems solve even the most complex tasks with total reliability.



Integral Plant Maintenance

Innomotics IPM, established in 1999, has evolved into a globally recognized provider of top-notch maintenance services. Our mission is clear: to deliver reliable, innovative, and sustainable solutions for industrial plant maintenance.

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.

49 countries worldwide

+ 2,000 dedicated service experts

24/7 availability

365 days a year

Discover the full scope on [innomotics.com](https://www.innomotics.com)

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



reliable
motion
for a
better
tomor
row

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



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