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COLOPHON

Rondal Insights Issue Fall '24-Winter '25

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## **FOREWORD**

## ULTIMATE RELIABILITY IN ANY SITUATION

As we approach the end of 2024, join us in reflecting on an extraordinary year for Rondal. In 2024, we embarked on a journey filled with ingenuity, dedication, and a relentless pursuit of excellence, culminating in accomplishments that continue to shape our legacy in the world of yachting.

This year, the new winches set a new benchmark—designed not just to deliver power and versatility, but to shape the future of yacht rigging. Every solution we develop embodies the commitment to anticipating the evolving demands of superyachts, allowing performance to meet reliability in ways that are simply unmatched. With Nilaya's innovative runner system, we took that spirit of innovation even further, creating a lighter, more efficient solution that meets the high standards of competitive sailing.

Of course, these are just a few highlights. With the composite designs for Special One and the record-breaking mast for Royal Huisman's Project Noir, the expertise in precision engineering and materials shines brighter than ever. We also refitted the rigs of the legendary Sailing Yacht EOS and currently working on the refit of Sailing Yacht Nyima, ensuring they continue to deliver on every wave and wind they encounter.

Discover more about Rondal's in the new brand movie, where we reveal the heart of Rondal: our purpose, people, and commitment to ultimate reliability in any situation. We are adventurers at our core, constantly pushing the boundaries of sailing to explore new frontiers while ensuring the solutions meet the highest standards of dependability. Scan the QR code below to experience the essence of Rondal.

Looking ahead to 2025, we are setting the course for new achievements through a collaboration with Perron038 and commitment to continuously elevate quality standards as we work towards ISO 9001 certification. With a range of exciting projects on the horizon, the future holds thrilling possibilities, and together, we are ready to explore each one of them.

Sail on and enjoy the journey!

Best wishes,

Harald Lubbinge Managing Director



WATCH OUR BRAND MOVIE





## SAILING SYSTEMS

At Rondal, we can oversee all of your sail handling requirements as a unified project, ensuring cohesive performance in every aspect of your yacht under sail. Our strength lies in integrating the entire sailing system to ensure that every part of the sailing package, whether it is a Rondal component or from another source, works compatibly and meets performance expectations.

With a solid in-house team of engineers, naval architects, and sailors, as well as trusted industry partners, you can be confident that your Integrated Sailing System is engineered and fitted with the rigs and componentry best suited to your yacht's design criteria. From masts and booms to winches and feeders.

#### **MASTS & BOOMS**

Each mast is crafted using the best methods and materials, such as autoclaved high-load areas and out-of-autoclave continuous fibers running the full length of the mast. Utilizing advanced engineering methodologies, allows us to achieve the optimal combination of high-strength and high-modulus fibers. The construction approach minimizes the number of connections within the mast.

#### **WINCHES & FEEDERS**

Modern winches must possess exceptional power to withstand the immense loads exerted by supersized rigs and sails crafted using advanced sail-making technologies.

Safety remains paramount, along with ease of maintenance. We utilize cutting-edge materials and the latest technologies to meet these combined demands, resulting in smaller, lighter, and faster winches.





#### **HATCHES**



At Rondal, we are your all-in-one solution for the entire project. Whether you are looking for an aluminum deck hatch, a composite deck hatch, a sliding deck hatch or a custom hatch, we got you covered.

The approach streamlines project management, engineering, manufacturing, and installation, delivering top-quality products and enhancing efficiency.

Every item is handed over as a turnkey project, simplifying the process for both the shipyard and the client.

The aluminum hatches are CE ISO 12216 certified and delivered with Lloyd's Type Approval Type 94040-100.



#### **WINDBREAKS**



The Rondal Windbreaks are high-quality, custom-made windbreaks or windshields primarily used in the maritime and shipbuilding industries. These Windbreaks are designed to reduce wind loads on sailboats and other vessels.

Whether vertical lifted glass panels or horizontal sliding windbreaks, we can always provide the perfect solution.

They contribute to the safety, comfort, and performance of the ship and are designed to meet the specific requirements of each owner and yacht.

#### **KEY FEATURES**

- Manual, electric, or combined operation
- High-quality semi-custom, full-custom, or anything in between, to meet every requirement
- Inline, materials and finish in complete harmony with the yacht's aesthetics
- Single-track or multi-track system, straight or curved design, with no boundaries or limitations

#### **COMPOSITE SPECIALS**



We have been applying new techniques, gained through extensive research and development, that have proven highly successful in building components, masts, and booms using composite materials.

Composite construction offers less weight, higher strength and and greater stiffness compared to traditionally used materials like metals and wood. Building in composite also allows for artistic freedom of shapes and forms, as almost anything is possible when building in composite. From superstructures to radar masts, and from interior items to steering pedestals, carbon fibre components are the "couture" of our product line.





#### **ENHANCE SAFETY WITH MOORING WINCHES**

The mooring winches offer a revolutionary approach to mooring, combining advanced technology with unmatched safety and efficiency. With the convenience of a wireless remote control, transforming the mooring process into a safer and more streamlined operation.

#### PRECISION AND SAFETY COMBINED

Our mooring winches are engineered for maximum efficiency and safety. Equipped with state-of-the-art systems, they allow two crew members, each with a control unit, to make quick and accurate adjustments. The winches continuously monitor loads on all sheaves, fully integrated with the ship's AMS system, ensuring your vessel operates at the highest standards of safety and performance.

#### **CUTTING-EDGE MOORING SOLUTIONS**

We are dedicated to providing comprehensive mooring systems that seamlessly integrate with your yacht's design. Our winches are designed to minimize the need for manual line handling, significantly reducing the risk of accidents. This nearly hands-free operation makes mooring not only more efficient but also cleaner and more precise.

#### **SLEEK DESIGN FOR UNCLUTTERED DECKS**

Beyond their technical excellence, the captive reel winches are designed to maintain the pristine aesthetics of your superyacht. With a below-deck installation, these winches help declutter and simplify deck spaces, ensuring your yacht remains as elegant as it is functional.

#### **FUTURE-PROOF WITH SOLAS COMPLIANCE**

As the latest SOLAS regulations take effect in 2024, these winches are fully compliant, making them the ideal choice for both sailing and motor yachts. Already trusted on 100m+ motor yachts, our winches are designed to meet the future demands of the industry.

For more information on how these mooring winches can enhance the safety and efficiency of your yacht, contact our product specialists today.



PRODUCTS PRODUCTS

# NEW CAPTIVE WINCHES

In the ever-evolving maritime industry, we continue to push the boundaries of sailing with advanced winch technology. The latest winches are engineered to meet the most demanding applications—lightweight, ultimately reliable, and compatible with both electric and hydraulic systems. Designed with the future in mind, they offer unmatched versatility and performance.

Rondal winches are capable of speeds up to 80 m/min, delivering high-efficiency operation whether powered hydraulically or electrically. Built with composite drums, they are robust yet lightweight, enhancing handling and longevity. All models feature variable displacement motors for efficient use of hydraulic power, optionally equipped with fixed displacement motors specifically tailored for halyard applications, allowing full load at maximum speed (30 m/min).

These winches optionally operate at lower working pressures (below 250 bar). With electric drives already available, these winches are adaptable to a wide range of future applications. Features like load cell readiness, minimized interface with construction, and slack line detection ensure precise control and positioning in all conditions.

Our winches are engineered for the future, offering the perfect blend of power, precision, and adaptability for any maritime operation. Experience the next generation of winching technology—built to perform under the most challenging conditions.



#### **SPECIFICATIONS**

|   | RW8000LW | RW12000LW | RW18000LW | RW24000LW |
|---|----------|-----------|-----------|-----------|
| PULL LOAD [kg]  | 8000     | 12000     | 18000     | 24000     |
| HOLD LOAD [kg]  | 12000    | 18000     | 27000     | 36000     |
| LINE DIAMETER RANGE [mm]                                    | 18 - 28  | 22 - 32   | 28 -36    | 30 - 44   |
| MAX. RETRIEVING LENGTHS AT SMALLEST LINE DIAMETER [mm]      | 83       | 74        | 72        | 82        |
| MAX. RETRIEVING LENGTHS<br>AT LARGEST LINE DIAMETER<br>[mm] | 55       | 52        | 57        | 59        |
| HYDRAULICS  |          |           |           |           |
| - [L/min]   | 85       | 80        | 105       | 130       |
| - [BAR]   | 280      | 310       | 325       | 315       |

# NILAYA'S ADVANCED RUNNER SYSTEM

A SHOWCASE OF OUR INTEGRATED SAILING EXPERTISE



At Rondal, we specialize in developing advanced rigging and sailing systems for superyachts that require custombuilt solutions to manage the immense loads these vessels endure. One of our standout projects is the innovative rigging system aboard Nilaya, a 47m performance sailing yacht designed by Reichel/Pugh and built by Royal Huisman. With a focus on performance, efficiency, and weight savings, Nilaya's design required a rigging system that could push the boundaries of what's possible.

#### REAL TIME FEEDBACK TO SAILORS

A key element of Nilaya's performance lies in its Runner System, part of the Integrated Sailing System. This holistic approach enhances the yacht's handling and safety by integrating advanced engineering, sensors, and load cells to provide real-time feedback to sailors. Our system turns complex sailing data into actionable insights, allowing the crew to optimize performance while preventing equipment failure, making high-performance sailing more accessible and manageable.

#### WEIGHTSAVING INNOVATIONS

Nilaya's rig is packed with weightsaving innovations, which are crucial in enhancing overall performance. One such example is the double-tapered mast top, which saved 50 kg in a critical area. We also developed new curved carbon fiber spreaders that increase sail area and boost performance.

#### **EXTENSIVE USE OF LOCK SYSTEMS**

Another key advancement is our extensive use of lock systems on halyards and runners. These systems significantly reduce the load on winches and lines, allowing us to use smaller, lighter components. For instance, the main halyard employs a 6-ton winch instead of a 24-ton one, thanks to a headboard hook that locks the sail at the mast top, minimizing mast compression and further reducing weight.

Our innovative Runner System takes inspiration from halyard locks and separates the tasks of tensioning and rope handling. By doing so, we can employ smaller winches and blocks, leading to considerable weight savings.

A specialized hook catches the cable in the final stretch, while a hydraulic cylinder tensions the system with minimal stroke. This configuration not only achieves a remarkable 1,200 kg weight reduction but also frees up valuable space below deck, enhancing the yacht's overall design efficiency.

### EXCEEDING PERFORMANCE EXPECTATIONS

The Integrated Sailing System embodies our commitment to creating solutions that work seamlessly with the yacht's design and the needs of its crew. By involving naval architects and owners from the earliest stages of development, we ensure that our systems not only meet but exceed performance expectations, all while enhancing the sailing experience. Nilaya's rigging system is a prime example of how our expertise in advanced rigging can redefine superyacht sailing, delivering unprecedented gains in efficiency, safety, and user experience.

We are proud to be more than just a supplier of spars and rigging—we are partners in pushing the boundaries of sailing.











As Special One, the world's largest true sportfish yacht has been delivered, we are proud to have contributed to this extraordinary vessel. Our expertise in composite manufacturing and our state-of-the-art facilities enabled us to deliver several challenging carbon and fiberglass products, including grills, a fish bait aquarium, hatches, and waterproof carbon covers for electronic devices. Here, we highlight a few of these complex composite specials.

#### **GRILLS: PRECISION AND STRENGTH**

The grills on Special One are not just ordinary components; they are the result of meticulous thinking. These long and thin structures have a unique free-form shape, necessitating specific stiffness requirements that only carbon and fiberglass could meet. In total, the length of the grills incorporate 130 meters of carbon fiber and 460 meters of fiberglass, housed in a tubular profile with wall thicknesses varying from 2.5 to 5 millimeters.

#### FISH TANKS: DURABILITY AND DESIGN

We also supplied two fish aquariums for Special One. These tanks, made of fiberglass, feature complex shapes designed to withstand prolonged exposure to salt water. Their robust construction ensures durability while maintaining the vessel's aesthetic and functional integrity.

#### A UNIQUE YACHT WITH UNIQUE CHALLENGES

Special One is a remarkable yacht that posed remarkable challenges. We are proud of the complex contributions we made to this project and wish the owner and all onboard fair winds and following seas.



## NEW RECORDS WITH NOIR

RONDAL HAS BEEN SELECTED TO SUPPLY THE MAST FOR ROYAL HUISMAN'S LATEST ENDEAVOR, PROJECT NOIR, ALSO KNOWN AS RH411.

With this contract, Royal Huisman is once again setting new records with Noir, an 81-meter (264-foot) sailing yacht. Designed by Malcolm McKeon, Noir will feature the world's tallest sloop rig, towering 93 meters above sea level.

Noir is the brainchild of an experienced owner and his team, who aim to create a vessel designed for the pure joy of sailing with loved ones. This unique yacht is tailored for world cruising and exploration. Rondal's contributions include the carbon mast, boom, and integrated sailing system, all of which align with the yacht's sleek black theme.

Upon completion, Noir will rank among the world's Top 10 largest sailing yachts and will hold the title of the world's tallest sloop.

Further updates with more detailed information will be provided as the project progresses.

### **AQUARIUS A TESTAMENT TO EXCELLENCE**

### RECREATING THE IDEAL RIG

In 2018, the 56-meter ketch Aquarius (I) was launched - A yacht that set a high standard in the sailing world with her modern classic design and modern rig. With Aquarius (II), a larger 65-meters successor, we are building on that legacy by enhancing performance and expanding capacity to meet the owner's ambitious goals for both cruising and racing. The decision to scale up with only minimal adjustments speaks volumes about our confidence in the initial design, as well as the trust placed in our engineering and production teams.

Aquarius (II) features an integrated sailing system designed and manufactured by Rondal, combining spars, rigging, winches, feeders, and deck hardware into a cohesive, high-performing system. This holistic approach ensures compatibility, minimized weight, and streamlined functionality for peak performance and ultimate reliability in any situation.

#### PRECISION ENGINEERING FOR DUAL PERFORMANCE: RACING

As the lead project engineer notes, Aquarius (II) presented high-load challenges. Thanks to our experience with building 70m+ rigs, we confidently approached this ketch's demands for an advanced, race-capable rig, designed to deliver top performance while being manageable for family cruising. Unlike her predecessor, Aquarius (II) has no checkstays; instead, she relies on runner deflectors in the backstays, giving the racing team full control over mast bend and sail shape. Even the mizzen forestay tension is adjustable, adding versatility for both racing and cruising

#### ADVANCED WINCHES AND RIGGING SYSTEMS

Aquarius II's sail-handling system includes our high-capacity hydraulic captive winches. Engineered for both speed and heavy loads, the winches offer line speeds up to 75 meters per minute, essential for fast maneuvering in competitive racing. Paired with our line feeders, the system ensures reliable, tangle-free operation under demanding conditions.

Additionally, Aquarius (II) features a refined furling boom that allows full control over sail shape, even while reefed. The Cunningham enables adjustment of the luff tension while also serving as a tack attachment at every reef. At the clew end, our unique outhaul car engages with clew plates in the sail's leech, providing full camber control in all wind conditions. These features enhance both performance and usability.

#### INTEGRATED ENGINEERING FOR SAFETY AND PERFORMANCE

We collaborated closely with Royal Huisman, Dykstra Naval Architects, Doyle Sails, and project manager Godfrey Cray to incorporate valuable feedback from Aquarius I into Aquarius (II). The engineering phase included spar performance evaluation and sail system integration to meet Doyle's structured luff sail loads. Hydraulic power requirements for racing maneuvers, such as gybe sets and leeward mark roundings, were calculated to ensure smooth operation.



#### **RONDAL COMPLETES EXTENSIVE ALUMINUM MAST REFIT**

In May 2023, we were awarded a prestigious contract from Lürssen to undertake a comprehensive mast refit for the renowned Sailing Yacht EOS. EOS is a 3-masted Bermudarigged schooner with an overall length of 93 meters. The yacht, built by Lürssen Yachts in Germany and launched in 2006, boasts a beam of 13.5 meters, a "draft" of 5.5 meters, and a volume of 1,517 GT. The superyacht's towering 200-foot (61-meter) aluminum Rondal masts represent the maximum height allowed to enable the craft to pass underneath bridges across the globe. This ambitious project involved the complete removal, refurbishment, and reinstallation of these three masts, along with a full servicing of the rod rigging and the installation of new carbon rigging.

#### **CHALLENGES AND MILESTONES**

After the start in September 2023, the first milestone was reached by November 2023. The mast unstepping and stripping were completed smoothly, setting the stage for the next phase. The masts were prepared for repainting, a process managed by Lürssen, and by February 2024, on-site work was set to resume. By mid-February, the meticulous process of rebuilding the masts began.

By April 2024, the masts were fully dressed and stepped, marking the successful completion of this major refit. The project was officially wrapped up at Lürssen's shipyard in early May, with EOS embarking on her first voyage to Scotland shortly thereafter. While a few final deliverables and touch-ups were scheduled for late June, the main body of the work was completed to the satisfaction of all parties involved.

#### OVERCOMING CHALLENGES

One of the most significant challenges faced during the refit was the internal transportation of the masts. Moving these massive structures from the quayside, across the shipyard, and onto the sloping slipway required precise planning and execution. This logistical feat was crucial to ensuring the smooth progression of the project.

#### SCOPE OF WORK

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This mast refit was truly comprehensive, covering everything from unstepping to stepping the masts. In addition to the rigging overhaul, parts of the running rigging were replaced, and a thorough servicing was conducted on the furlers, including disassembly and parts replacement at the facility in Vollenhove.

#### **ENSURING COMPLIANCE AND QUALITY**

As part of Lloyd's certification requirements, the masts and their rigging undergo a thorough inspection and servicing every five years. This refit was carried out with these stringent standards in mind, ensuring that EOS remains compliant and safe for its global voyages.

#### **CLIENT SATISFACTION AND FUTURE COLLABORATION**

The success of this 7-month operation was built on the strong relationship between Rondal, the EOS crew, and Lürssen's project management team. The captain, crew, and Lürssen's project manager were highly satisfied with the outcome. In the words of Lürssen's project manager, "Many thanks for the good cooperation and communication. I hope when EOS returns to Hamburg, we can continue our good relationship."

#### LOOKING AHEAD

As SY EOS embarks on new adventures, we remain committed to delivering exceptional craftsmanship and service. This project underscores our dedication to excellence in every mast refit we undertake, ensuring that yachts like EOS can continue to navigate the seas with confidence and style, and fully prepared for the unexpected.



NYIMA

Sailing yacht Nyima, formerly known as Christoffel's Lighthouse, is a 32.35-meter masterpiece built by Holland Jachtbouw. This elegant yacht, known for her sleek lines, is currently undergoing a comprehensive refit at Huisfit in Amsterdam. The last major overhaul of rig took place in 2015, but now Nyima is once again in the expert hands of professionals to ensure she continues to perform at her best.

A significant part of the current refit, involves restoring her carbon mast, a critical component of the yacht's sailing capabilities. The process began with the complete disassembly of the rigging, meticulously detaching every piece to prepare the mast for a fresh start. We are repairing the mast tubes for the Electral cables, which have become porous in some areas. The mast is then stripped and will be fully repainted. Once the mast is fully refinished, it will be expertly re-rigged, bringing Nyima back to her full sailing potential.

In addition to the mast work, all dismantled parts are thoroughly inspected for damage, repaired, cleaned, or replaced to ensure they are in the best possible condition. This includes reconditioning components like blocks, reproducing pins, conducting NDT (non-destructive testing) on loose parts, cleaning the interior of the mast, and polishing various elements.

Furthermore, the yacht's hatches are undergoing necessary repairs, to maintain their integrity and safety. This refit represents more than just maintenance; it is a dedication to preserving Nyima's legacy while enhancing her future performance on the open sea.



# SUSTAINABLE SAILING WITH THE HYDRO GENERATOR

The Hydro Generators bring regenerative sailing to large yachts, offering a standalone solution that operates independently of the main propulsion system. These generators are optimized for efficiency, minimizing drag while maximizing electrical output. This allows yachts to switch off diesel generators and maintain speed, providing a more sustainable sailing experience.

Unlike dual-purpose systems that use propulsion propellers for regeneration, the Hydro Generators feature a dedicated electric pod with a specially designed fixed-pitch propeller, offering higher efficiency without requiring modifications to the existing propulsion system. The low-drag 'freewheeling' mode ensures minimal impact when not in use, with negligible additional drag.

Available models:

HYDRO GENERATOR

#### **HYDRO GENERATOR 15000**

Designed for yachts above 50 meters (12-16 knots), it delivers 15 kW of continuous power with a high-efficiency 670 mm bronze propeller. Its robust design meets the demands of yachts requiring high energy output.

#### HYDRO GENERATOR 9000 PERFORMANCE

Suitable for yachts between
20-50 meters with speeds of 9-14
knots, this model delivers 9 kW
and features a bronze propeller
optimized for 11-13 knots, achieving
76% efficiency for maximum output
and minimal drag.

#### HYDRO GENERATOR 9000 HIGH SPEED

Tailored for high-speed yachts, including multihulls, this variant delivers 9 kW and features a glass-reinforced nylon propeller designed for speeds up to 16 knots, providing an economical solution for high-performance sailing.

The Hydro Generators set a new benchmark in regenerative sailing, combining innovative design with proven performance to offer a future-ready, sustainable solution for modern yachts.



RONDAL INSIGHTS / FALL '24 - WINTER '25

We are proud to announce that our Hydro Generator has been nominated for the DAME Design Awards 2024 in the Electronic & Electrical Systems category. This recognition is a testament to the hard work and expertise dedicated to developing a solution for sustainable sailing.



# **EXPANSION OF THE RONDAL TEAM**



RON KOEKENBIER
SALES MANAGER

We are pleased to welcome our new Sales Manager Ron Koekenbier. With a background in mechanical engineering and extensive experience as a supplier to the superyacht industry, he was eager to join us. Working at Rondal, where both yacht building and highperformance solutions meet, felt like the perfect challenge.

With years of experience in the world of motoryachts, his expertise adds significant strength to the team. "The superyacht sector is like Formula 1 for yachts. Once you've experienced it, you realize it is the pinnacle of craftsmanship,"

he says. His first impressions of the team? "Everyone has been incredibly supportive. The dedication here is remarkable, with numerous colleagues having worked at Rondal for many years."

Looking ahead, he is excited about the future, especially with all the innovations in the industry. Confident in the team's capabilities, he is ready to drive the success in motor yacht hatches and windbreaks, helping push the boundaries of what's possible even further.

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LORENZO GIACOMUZZI

MANAGER SERVICE & AFTER SALES

Meet our new Service and Aftersales
Manager, Lorenzo Giacomuzzi. Lorenzo
joins us with a wealth of experience
in the maritime industry. "I'm inspired
by the out-of-the-box thinking and
boundary-pushing approach at
Rondal," he shares.

In his role, Lorenzo will lead the aftersales and service team. With over five years at Nautor Swan as a Project Manager, where he delivered more than 10 yachts, and over a decade as a captain on sailing yachts up to 35 meters, he brings a unique, and comprehensive perspective. His broad experience has given him a 360-degree approach to problem-solving, invaluable for his role.

Lorenzo's first impression of the team is one of dedication and professionalism, and he is particularly drawn to innovations in sustainability, especially around materials and processes.

His goal is clear: to empower the team to perform at their best and expand the service market presence.



ARD RITSEMA

MANAGER ENGINEERING

Ard brings extensive experience from his many years at Rondal. His journey began in 2011 as Lead Engineer for Doors & Entrances, and in 2019, he advanced to Senior Lead Engineer for Winches, where he played a central role in developing our next-generation winches.

In his new role, he aims to strengthen the engineering department by creating structure and a future-ready team, continuing his work of delivering exceptional products. He describes the culture as one of excellence, with a team highly motivated to produce the best for clients. Looking ahead, he is especially interested in safe mooring solutions and sustainable advancements in sailing systems to reduce the carbon footprint of superyachts.

His goal is clear: to ensure top quality, maintain project control, and drive market-leading innovations that keep Rondal at the forefront of ultimate reliability.





## ANNOUNCING PARTNERSHIP WITH PERRON038



We are proud to announce our partnership with Perron038, the innovation hub for the high-tech manufacturing industry in Zwolle. This collaboration combines the expertise in designing and building high-quality sail systems for superyachts with Perron038's dynamic environment of technicians, students, and entrepreneurs.

By joining forces, we aim to drive technological innovation and develop talent, pushing the boundaries of what is possible in the high-tech sector. Together, we will work on cutting-edge projects that will benefit both our company and the broader industry, fostering a future of smarter and more sustainable solutions.



