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SPECIALIZED MACHINERY

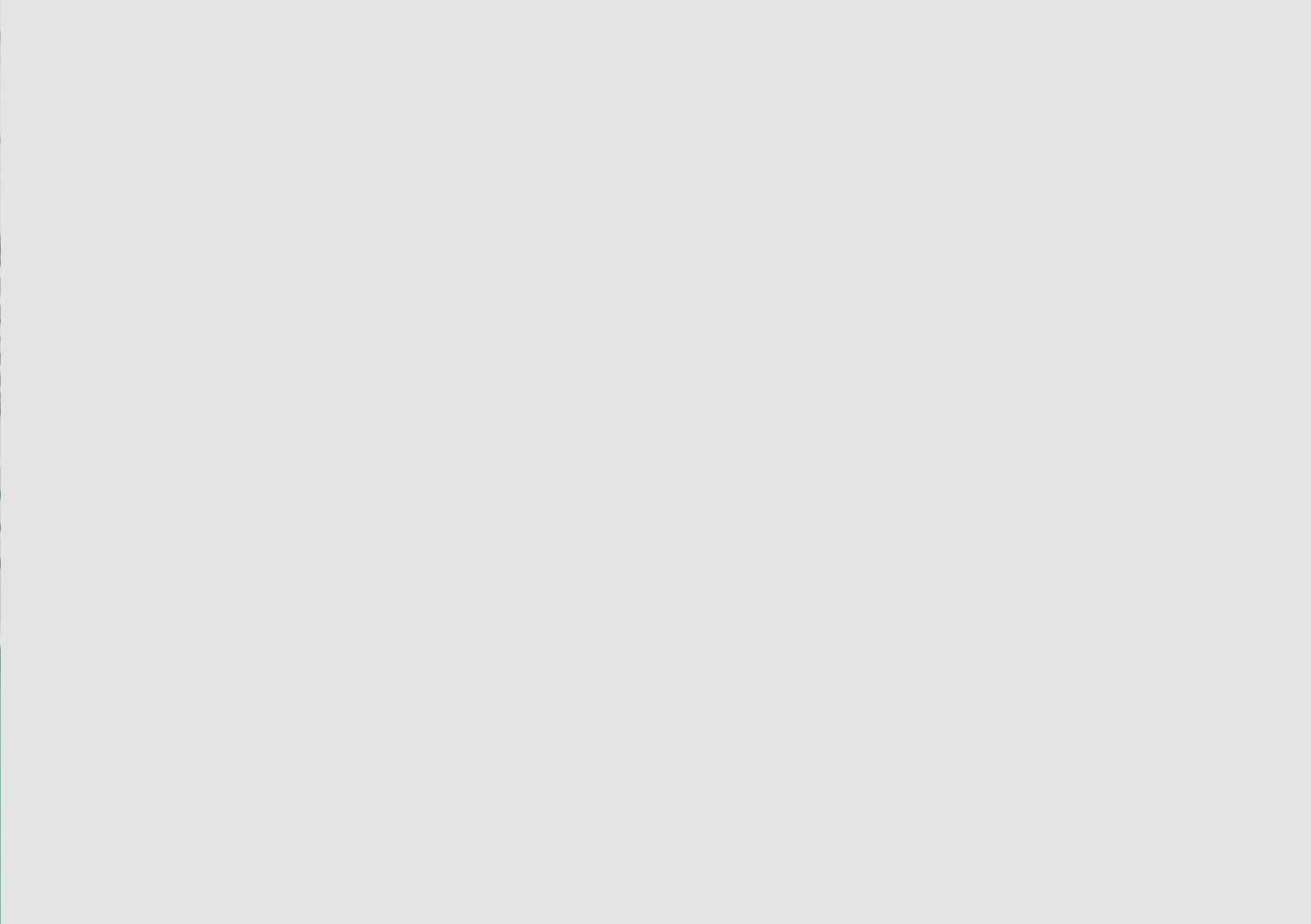


FISHING EQUIPMENT CUSTOMIZED DECK MACHINERY

ONE SUPPLIER FOR ALL YOUR EQUIPMENT



SPECIALIZED MACHINERY



OUR HISTORY

Founded in 1964 by naval engineer and deep-sea skipper Ricardo Fernández Villar, **INDUSTRIAS FERRI S.A.** is a family-run business with over **60 years of experience** in high-quality deck equipment, specialising in **custom-made solutions** for all types of vessels by combining flexibility and rigour to deliver products perfectly tailored to each client's needs.

A strategic turning point in our history was the **2013 acquisition of Talleres Carral**, a move that has been fundamental in consolidating our specialised **catalogue for the fishing sector**. This integration allowed us to incorporate a prestigious legacy of technical knowledge accumulated since 1921, bringing **more than 100 years of expertise** in the design and manufacture of winches and windlasses to our group. By combining this century-long heritage with our mission to turn the most challenging concepts into practical, reliable machinery, we ensure that we remain at the forefront of the industry.

Today, inspired by our founder's guiding principle, "**We must be proud of our work**", we unite this centennial experience with the cutting-edge technology of our **FERRI Systems** division (created in 2019), which integrates mechanical, hydraulic, and electronic systems to provide comprehensive automation and engineering. To ensure seamless operation, **INDUSTRIAS FERRI provides global technical support available 24/7**, including installation, maintenance, and testing worldwide.

Our commitment to excellence is proven by the fact that some of our equipment has been operational for more than 50 years, a testament to the durability and quality we provide. To maintain these standards, we rely on a highly qualified team of over **150 people - 70% of whom are engineers** - specialising in drive systems, automata, and software programming. By combining this human expertise with the most **modern manufacturing systems** and advanced design and calculation tools, we ensure every project is built to the highest specifications. Furthermore, our state-of-the-art facilities include **dedicated test benches**, allowing us to rigorously verify the performance of all equipment before delivery to guarantee **total reliability at sea**.

REVITALIZES OUR FUTURE



**COMPLETE RANGE OF
EQUIPMENT FOR ALL
FISHING FLEET**

FISHING WINCHES

DECK WINCHES

BLOCKS

CRANES

DAVITS

ENGINEERING, PROJECTS
AND CALCULATIONS

TRANSFORMATIONS

TECHNICAL SERVICE 24/7/365

ORIGINAL SPARE PARTS

**LONG LIFE DECK EQUIPMENT
ROBUST AND WITH
SIMPLE MAINTENANCE**

FISHING WINCHES

COMPLETE RANGE OF FISHING WINCHES

We are leaders in the fishing industry, with our winches installed on more than 1,000 trawlers across five continents. Our range is versatile, offering configurations that scale from standard solutions for smaller vessels to sophisticated systems for the modern industrial fleet. Available in both electric and hydraulic drives, our equipment integrates the latest technology to improve fishing efficiency.

Recognising that every fishery is unique, we provide customisation for specific fishing gear, ensuring that our equipment is calibrated to your vessel's operational requirements.



WE KNOW FISHING: THE CARRAL LEGACY

At FERRI, we understand the practical demands of the sea. The design and build quality of CARRAL winches are well-known for their robustness and reliability. This heritage ensures that our machinery is built to withstand harsh marine environments while remaining simple to operate and maintain. We provide a complete range of deck equipment designed to meet the needs of the entire global fishing fleet, combining proven durability with modern innovation.



LONG-LIFE DECK SOLUTIONS

Built to last, designed for
maintenance simplicity

COMBINED TRAWL WINCHES



COMPACT TRAWL WINCHES



SPLIT TRAWL WINCHES



TECHNICAL OPTIONS

Our drives and control systems are developed in-house by **FERRI Systems**, ensuring seamless operation and a long life cycle with the advantage of a single supplier responsible for the entire project. Our range of options includes:

- **Remote Control:**
Integrated control stations designed to manage the entire fishing deck in a synchronised and efficient manner.
- **Performance Monitoring:**
Precision measurement systems for line tension (traction), payout speed, and wire length, or any other critical operational parameters.
- **Hydraulic Drives:**
Full supply and supervision of all types of hydraulic installations, ensuring high performance for hydraulically driven winches.
- **Electrical Systems:**
High-efficiency drives powered by electric motors and Variable Frequency Drives (VFD) for precise control and energy savings.
- **Auto-Trawl Systems:**
Advanced automated systems that monitor gear parameters and automatically adjust winch manoeuvres to maintain the optimal net opening at all times.

All our systems are purpose-built for specific applications, including bottom trawling, pelagic fishing, pair trawling, and purse seining.



SINGLE AND SPLIT NET DRUMS

High-performance drums built for heavy-duty service with a design focused on longevity and straightforward upkeep.



MANOEUVRE WINCHES

Rugged maneuver winches built to withstand the harshest environments with straightforward onboard servicing.



SWEEP LINE WINCHES

Versatile hauling power developed for seamless integration and long-term mechanical integrity.



VERTICAL AND HORIZONTAL CAPSTANS

A versatile range of high-torque capstans, engineered for seamless deck integration and robust performance while ensuring maximum operational longevity through maintenance simplicity.



WINDLASS

High-performance anchoring solutions engineered for absolute reliability and maintenance simplicity in the harshest marine environments.



BLOCKS AND FAIRLEADS

A CENTURY OF EXCELLENCE IN PRECISION MANEUVERING

At Industrias FERRI, fishing maneuver equipment has been at the core of our production since our foundation in 1964. Our expertise is built upon the prestigious legacy of Talleres CARRAL, whose blocks and fairleads have long been the gold standard for the Spanish trawler fleet. Today, we combine this century-old tradition with cutting-edge engineering to supply the world's most demanding industrial fleets, from the largest global tuna vessels to the advanced trawlers of Northern Europe.

PRECISION MANUFACTURED FOR THE HARSHTEST CONDITIONS

Each element is essential to the block's performance. Our design and manufacture process is the result of a long tradition and deep expertise, tailored to the specific regulations and demands of every fishing method—from purse seining to trawling. Every stage of production is strictly controlled and verified to ensure the highest quality standards.

THE CARRAL LEGACY

CARRAL blocks and fairleads remain the industry standard, perfectly engineered to cover all the operational needs of the modern fishing industry. From heavy-duty trawlers to specialized vessels, we provide the robustness and reliability that only a century of experience can deliver.



SPECIALIZED MACHINERY

FERRI SMART BLOCK

PRECISION WEIGHING TECHNOLOGY

The FERRI Smart Block provides exact catch weights during hoisting, ensuring complete data control and confidentiality. Unlike conventional systems affected by vessel motion and dynamic tensions, our integrated technology delivers the actual weight of the catch continuously and accurately. The system guarantees reliable measurements even during vessel rolling, impacts, or submersion.

DATA INTEGRITY & ROBUSTNESS

Using high-precision sensors and a proprietary algorithm, the system filters and stabilises data in real time to provide an exact record and full traceability.

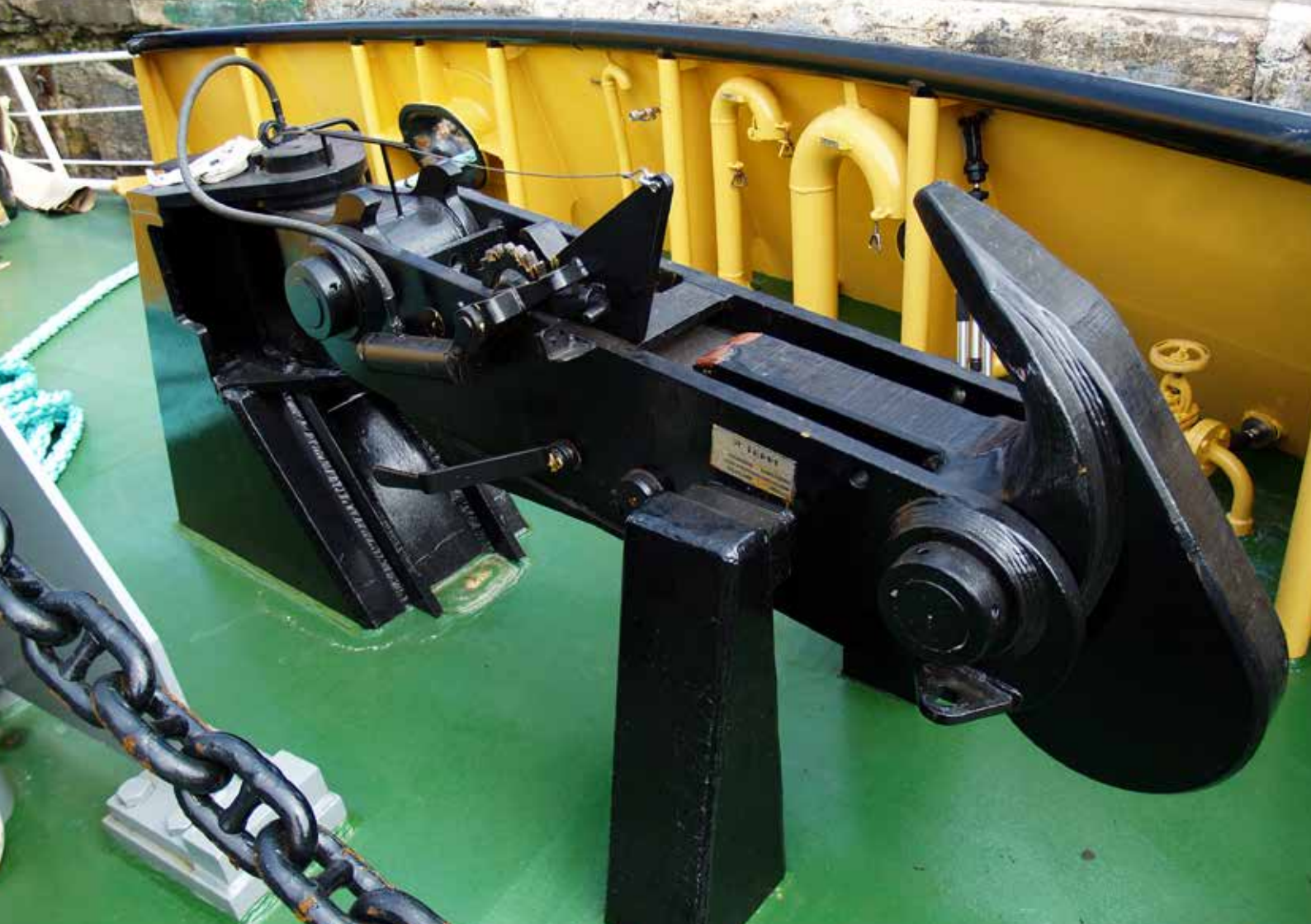
Secure Transmission: Data is automatically recorded to the bridge console or internal server according to fleet protocols.

Operational Efficiency: Replaces traditional dynamometers with immediate, verifiable information for faster decision-making.

Extreme Durability: Every component, from the mechanical structure to the encapsulated electronics, is built to withstand humidity, salinity, and intensive work cycles.

The Smart Block offers a reliable, automated tool perfectly adapted to the real-world conditions of the modern purse seiner fleet





SPECIALIZED MACHINERY

SKIFF AND SLIP HOOKS

FAIL-SAFE PERFORMANCE FOR HIGH-STAKES OPERATIONS

Our hooks are manufactured to the most exacting standards of quality and resilience to meet the rigorous demands of the global fishing industry. Specifically engineered to withstand the harshest marine environments, they offer superior corrosion resistance and structural integrity. The robust construction makes them the definitive choice for shipowners who demand a reliable, long-lasting solution for critical operations.

VALIDATED PERFORMANCE: IN-HOUSE LOAD TESTING

At Industrias FERRI, we understand that performance is measured by reliability under pressure. To guarantee the highest safety standards, our facilities are equipped with dedicated test beds where all equipment is evaluated and validated across a wide range of load capacities. This rigorous testing ensures that every hook delivered is ready for immediate, high-stakes service.

OUR EXTENSIVE RANGE OF SIZES ENSURES TAILORED SOLUTIONS FOR EVERY OPERATIONAL REQUIREMENT

PRECISION, SAFETY AND ENDURING DURABILITY





 **FERRI**
SYSTEMS

INTEGRATED ELECTRICAL SOLUTIONS & AUTOMATON

THE TECHNOLOGICAL INTELLIGENCE BEHIND EVERY MANEUVER

At Industrias FERRI, we deliver a complete ecosystem of advanced electrical systems engineered to power our CARRAL equipment. Our portfolio includes state-of-the-art frequency converters, power panels, ergonomic control desks, and intuitive keypads. By transitioning to fully electric drive systems, we significantly enhance operational performance, minimise maintenance requirements, eliminate the use of hydraulic oils, and drastically reduce noise levels on deck.

OPTIMISING PERFORMANCE AND SUSTAINABILITY THROUGH ADVANCED FISHING CONTROL SYSTEMS



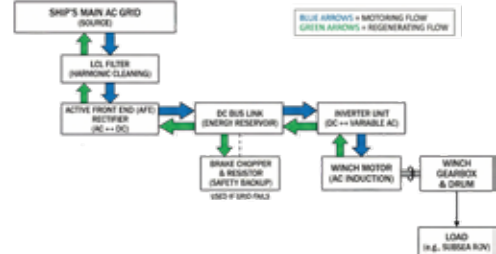
REGENERATIVE TECHNOLOGY: THE AFE ADVANTAGE

ADVANCING TOWARDS THE FUTURE: ENERGY ACCUMULATION THROUGH INTELLIGENT HYBRID SYSTEMS

Through our FERRI Systems division, we integrate Active Front End (AFE) technology—a paradigm shift in maritime energy management. Similar to hybrid automotive systems, this technology allows the electric motor to serve as the primary brake during cable release operations. Instead of wasting energy through mechanical friction, our systems capture and return power to the vessel's generation grid. Looking ahead, we are developing battery storage integration to accumulate this recovered energy, further optimising fuel efficiency.



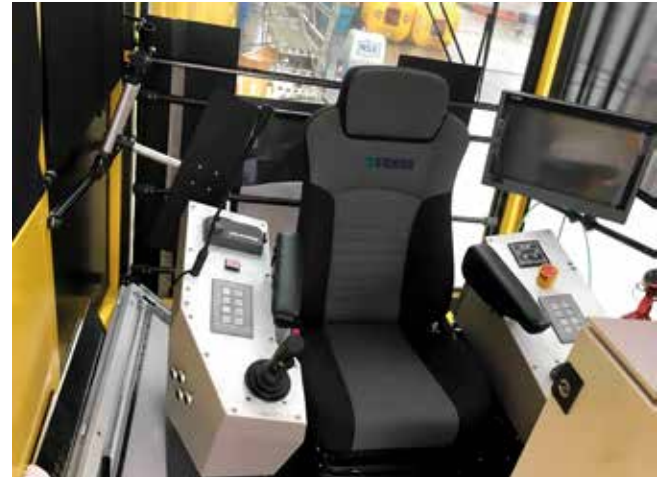
MARITIME WINCH ACTIVE FRONT END (AFE) SYSTEM PROCESS



EXPERT SOFTWARE ENGINEERING & PLC AUTOMATION

BESPOKE CONTROL & SYSTEMS LOGIC

Our in-house team of specialist programmers develops bespoke software for a wide range of maritime applications. With deep expertise in the industry's leading PLC platforms—including Siemens, Rockwell, Schneider, and Beckhoff—we provide high-level automation tailored to each vessel. Our engineers possess the unique capability to reverse-engineer and decipher third-party automation sequences, allowing us to replace, repair, or upgrade any existing system on the global market.



SPECIALISED ONBOARD ELECTRICAL SERVICES

We provide elite technical support to shipowners and shipyards worldwide, offering a comprehensive suite of engineering services:

Commissioning:

Full vessel and third-party equipment start-up.

Systems Integration:

Signal testing, system preparation, and final delivery.

Engineering Support:

On-site and remote technical assistance for complex operations.

Technical Representation:

Participation in meetings with owners, suppliers, and Classification Societies.

Lifecycle Support:

Partial or full maintenance, repair, and retrofitting of electrical systems.

TRUSTED FOR YEARS AS THE PREFERRED ELECTRICAL MAINTENANCE PARTNER FOR THE SPANISH OCEANOGRAPHIC FLEET



REMOTE VPN SUPPORT SYSTEM

SECURE REAL-TIME ASSISTANCE FOR GLOBAL OPERATIONS

At FERRI Systems, we minimise downtime through a sophisticated remote assistance system. By integrating Tosibox technology—the industry leader in industrial cybersecurity—we provide instantaneous technical support through a fully encrypted, secure connection that complies with the most stringent international standards.

INSTANT DIAGNOSTICS AND RAPID RESOLUTION TO ELIMINATE OPERATIONAL DELAYS

Our secure VPN infrastructure allows our engineers to calibrate and resolve system issues in real time, ensuring your vessel remains operational without the need for physical travel.

Global Reach: Expert support available at any latitude.

Encrypted Security: Protection against digital threats.

Certified Reliability: Secure connectivity for critical systems.

TOSIBOX



**Certified Cybersecurity to keep
your fleet operational anywhere in the world**



TEDEPAD



STOP ANISAKIS

「
PROTECT YOUR FISHING
PRESERVE THE SEA
FISHING WITHOUT ANISAKIS」

Sustainability and Innovation for
a safer and healthier world

TEDEPAD®

TECHNOLOGICAL DEVICE FOR AVOIDING PARASITE DISCARDING AT SEA

Anisakis remains a critical threat to food security and the fishing industry. The practice of discharging untreated, parasitised viscera back into the ocean has accelerated the spread of the parasite, leading to commercial losses of between 4% and 30% of exploited biomass.

TEDEPAD® is the first industrial system specifically designed to break this cycle by ensuring 100% effectiveness in parasite extermination on board.

THE ULTIMATE SOLUTION AGAINST ANISAKIS

Developed over 15 years and validated by the **CSIC**, this patented technology deactivates Anisakis, allowing processed waste to be reintroduced safely into the marine food chain. Fully manufactured in the European Union and **CE certified**, **TEDEPAD®** protects both the health of the seas and the commercial value of your catch.



Currently, ships reintroduce anisakis alive with the remains marine ecosystems



TEDEPAD® deactivate the anisakis and allows the waste to be reintroduced into the marine food chain

TEDEPAD®

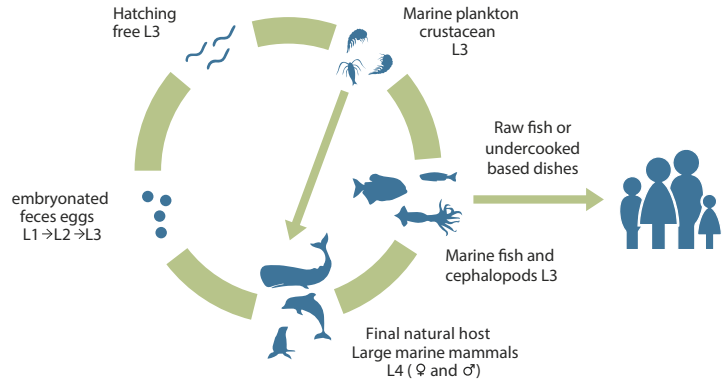
SEAMLESS INTEGRATION & OPERATION

Designed for the reality of life at sea, TEDEPAD® is engineered to be fully adaptable to any vessel. Its key operational advantages include:

Plug & Play Installation: Fits directly into existing waste discharge pipes without requiring major structural modifications.

Zero Operational Impact: Operates automatically without altering established work flows or requiring additional labour.

Low Maintenance: Built for the marine environment with an integrated internal self-cleaning system.

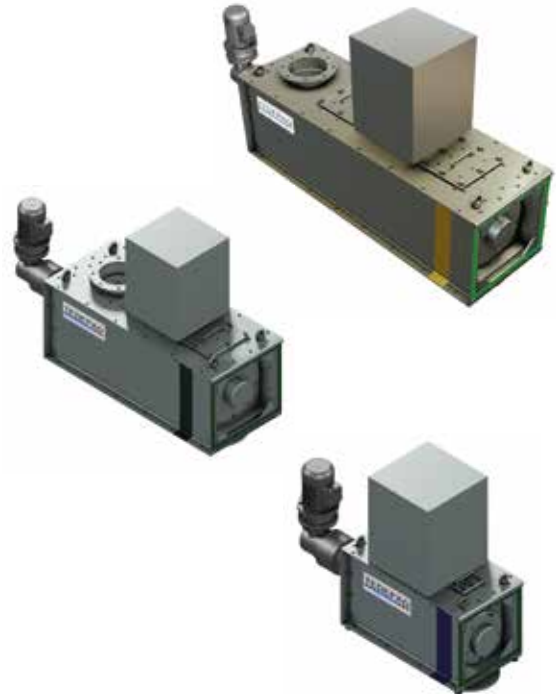


TEDEPAD®

MODEL SPECIFICATIONS

We offer three distinct models to suit the processing requirements of various fleet sizes:

Model	Dimensions (L x W x H)	Processing Capacity
TEDEPAD XL	2240 x 550 x 550 mm	600 kg/h
TEDEPAD M	2000 x 500 x 500 mm	200 kg/h
TEDEPAD S	1750 x 400 x 400 mm	50 kg/h



- ✓ Promotes sustainable fishing, avoiding biological risks in the marine environment.
- ✓ The design of TEDEPAD® is completely adaptable to each boat. Its installation does not require major modifications, since it is inserted directly into the waste extraction pipes already existing in the fishing park.
- ✓ The TEDEPAD® does not modify work habits in the fishing park or alter established production flows.
- ✓ It works automatically without the need for additional labor.
- ✓ Very low maintenance. It incorporates an internal self-cleaning system.



GLOBAL LIFE CYCLE SERVICES

At Industrias FERRI, our commitment to our clients extends far beyond the initial delivery. We operate a dedicated customer service department focused on repairs, inspections, and spare parts, ensuring your equipment remains operational and in peak condition throughout its entire lifespan.

We work in close collaboration with shipowners, providing expert maintenance advice and the precise documentation required to comply with current maritime legislation. Our specialised technical teams are available worldwide for on-board repairs, commissioning, and sea trials, adapting our services to meet the specific needs of any vessel, anywhere in the world.

MULTI-BRAND EXPERTISE & ENGINEERING SUPPORT

In addition to maintaining our own manufactured equipment, we have extensive experience servicing machinery from other manufacturers. This broad technical insight, supported by our large in-house engineering office, allows us to provide rapid solutions to the complex problems that can arise during the life cycle of any deck equipment.



CERTIFICATION & REGULATORY COMPLIANCE

TRACEABILITY & QUALITY:

Our internal processes ensure full traceability of every component, from initial design to final commissioning. This rigorous tracking provides total peace of mind and a guarantee of quality for our clients.

RESCUE EQUIPMENT (LSA):

We are fully authorised to perform annual and five-year inspections of rescue equipment in accordance with MSC.1/Circ.1206/Rev.1. Our certifications include approval from the General Directorate of the Merchant Navy and Lloyd's Register of Shipping, covering both Spanish and international flags.

LIFTING APPLIANCES:

We conduct mandatory annual and quinquennial inspections of lifting gear and wire ropes under ILO Convention 152. Our services also include the inspection of gangways and ladders, as well as any necessary load testing for on-board elements.



SPECIALIZED MACHINERY

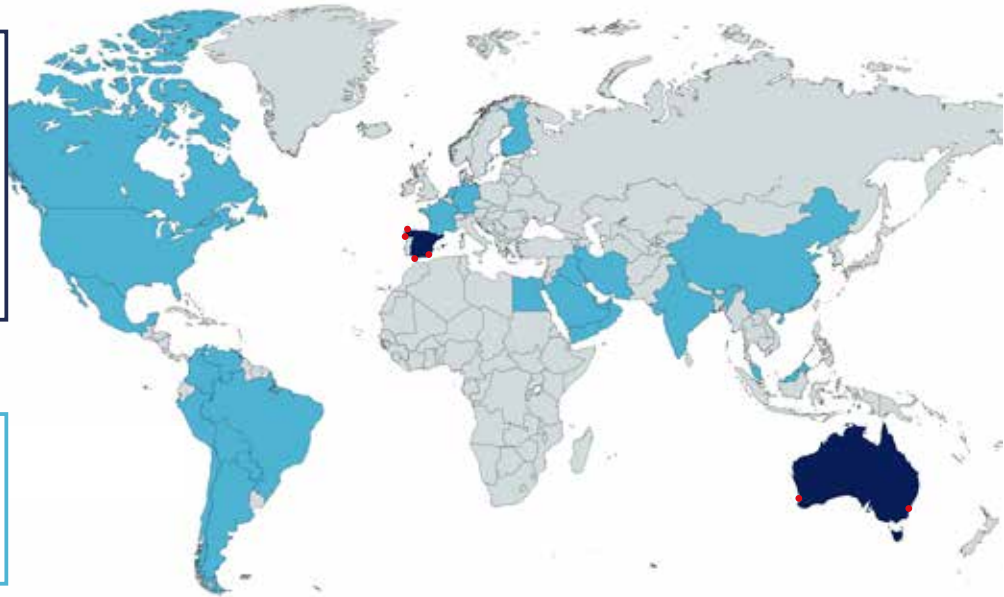
HEADQUARTERS & FACTORY

Industrias FERRI S.A. is based in an industrial enviroments with access to Spain's most important sea ports,

- Vigo – Ferrol – Cádiz - Cartagena
- Sydney – Perth

TECHNICAL ASSISTANCE

+ 30 Technical Assistance points around the world.







Industrias FERRI S.A. is based in an industrial environment with access to one of Spain's most important sea ports, Vigo.

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Talleres **CARRAL**
1921