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MAGAZINE

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**MS MAGAZINE BY
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**COMMUNICATION, A
POWERFUL SKILL WITHIN
TALLERES INDUSTRIALES DNA**

On every single project that we undertake with our clients, in the process of building and keeping productive relationships with our stakeholders, in our daily routines with teammates and suppliers, on land and onboard, **COMMUNICATION** is that one crucial skill that we must take into consideration; for that reason, we have implemented the C.T.A.A.C. internal ritual at all levels of the organization.

No matter if it is written or verbal communication, or if we are using an email, WhatsApp, a virtual platform, or we are in a face-to-face meeting, we follow the C.T.A.A.C. ritual which stands for **Communication** that ought to be **Clear, Timely, Accurate, with Arguments and Cordial** at all times.

TALLERES FORMULA 1+1 = 3



Teamwork is not a simple word at Talleres Industriales; it is the solid rock that together with our values allows us to grow and maintain our leadership position within the maritime repair industry. Being a team implies having the appropriate attitude to connect all the areas within the company to achieve our crucially important goal.

Part of our annual training program is focused on giving our members a variety of practical tools and strategies to work better as a team. We know that productivity and efficiency do not come because of luck, they come when there is an organizational culture that makes the job of everyone important and valuable. We understand that the excellent job of one person can take us far, but the great job of all of us together can take us further.

During our team spirit workshops, we also get to know the human side of our colleagues and that is very important because it builds empathy on all of us, by sharing our personal dreams, getting to know the members of our families, and discovering a variety of talents that all the team members have. We understand that to consolidate a successful team, we must be excellent professionals and human beings and that allows us to enjoy our job within a great working environment.

RECONSTRUCTION OF COMPLEX BULBOUS BOW



Talleres Industriales has become an expert in reconstructing the most complex structures on a ship, the bulbous bow. We have done multiple bulbous bows reconstructions projects since the last 2 decades from different sizes and shapes, at anchorages and alongside berths.



A bulbous bow is a protruding bulb at the bow (or front) of a ship just below the waterline. The bulb modifies the way the water flows around the hull, reducing drag and thus increasing speed, range, fuel efficiency, and stability. A bulbous bow also increases the buoyancy of the forward part and hence reduces the pitching of the ship to a small degree.



From an engineering and structural point of view, the bulbous bow is the most complex and difficult structural part of a vessel to build, due to its shape, thickness, and location.



During our most recent project on a reefer vessel, 60% of the bulbous bow had to be rebuilt after a collision suffered in North America. Here, Talleres was trusted to perform the permanent repairs afloat, allowing our client to avoid dry dock expenses and procedures.





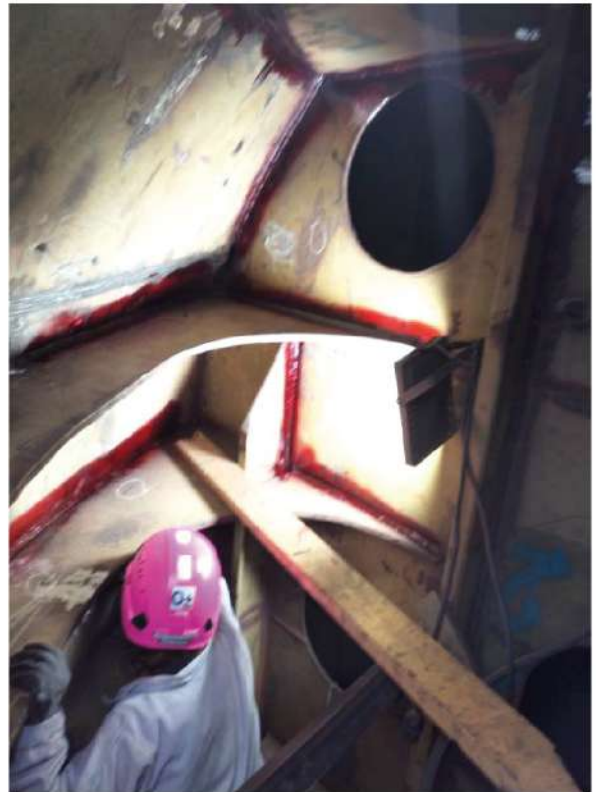
On these types of projects, our challenge always goes around the fact that the engineering, design, planning, procurement, and construction are happening at the exact same time.



On this latest task, we brought the reefer vessel alongside berth at Balboa to perform permanent repairs which involved 60% of the bulbous bow including part of the bosun store and chemical storage room which represented more than 5000 kg of single and double-shaped high tensile steel as well as internal reinforcements.



Upon arrival, all necessary resources were procured, from certified manpower to floating equipment, staging gears, welding, cutting, and gouging gears. All affected areas were cropped, and stencils were taken to manufacture new sections in our workshops, using specialized hydraulic press and our heavy-duty roller. Simultaneously, as bulbous sections were being manufactured all new internal reinforcements were fitted and welded by class approved personnel. New bulbous bow outer shell was fitted in sections and production welding performed up to class and owners' satisfaction.



Job was performed with the highest standards of quality and safety around the clock to allow the vessel to continue her trading minimizing down time. Panama has become the HUB of complex and cost-efficient repairs above and below the water line.

For any complex repair in which you consider that dry dock might be your only solution, please contact us and you might be surprised that our alternative method will comply with your needs and exceed your expectations.





SMALL SIZE
BIG IMPACT



ROV HULL CLEANING TECHNOLOGY



TALLERES INDUSTRIALES, S.A.
24/7 Ship Repairs & Marine Solutions

There's a lot of power packed into the HullWiper Remotely Operated Vehicle (ROV). It uses adjustable seawater jets to remove biofouling from ships' hulls, boosting performance and energy efficiency without harming the expensive anti-fouling coatings or the ocean.

IKIGAI 2023

A PROGRAM TO WORK ON OUR PURPOSE AND TO STRENGTHEN OUR ORGANIZATIONAL CULTURE



During this year, we have been working on the IKIGAI PROJECT which is a program targeting all members of Talleres Industriales to help them discover and confirm their reason for being and the importance of living and working with a purpose.

IKIGAI is a term with a significant meaning that represents the value of our life; It helps human beings to achieve a balance in their lives and open their minds towards challenging goals.





The project involves 5 steps that begin with the definition of what a purpose is and what benefits it brings into personal and professional life. Within this first part, we cover topics such as the importance of loving what we do, being excellent at what we do; the self-satisfaction of being paid for the job that we perform with passion and the need to have a mission in life to contribute to others.

The second phase of the Ikigai Project connects with the planning and executing of the corporate strategy of Talleres Industriales and the commitment that all its team members should have with the crucially important goal of the year.

The third part deals with change management, which is a topic that is introduced to open everyone's minds and hearts to view change as a normal pattern in today's world and an opportunity to create value based on our technical, human skills, and inspiration, that shall lead into productivity and efficiency. The fourth phase tackles the work and personal life balance as a key element to consolidate the life purpose. During the training events, the personnel learn tools regarding time management, conflicts resolution, emotional intelligence, and self - motivation. The last part of the Ikigai Program focuses on our belief on continuous improvement under our official statement that says: "everything we imagine, we constantly wish, we sincerely believe in, and passionately we undertake, will inevitably happen.





TALLERES INDUSTRIALES, S.A.

24/7 SHIP REPAIRS AND MARINE SOLUTIONS

www.talleresindustriales.com

OFFERING A NEW SERVICE!

Electric Circuit Breaker and electrical protective devices verification by secondary current injection test.

Talleres Industriales recently invested in a **GFUVE TEST-330**.



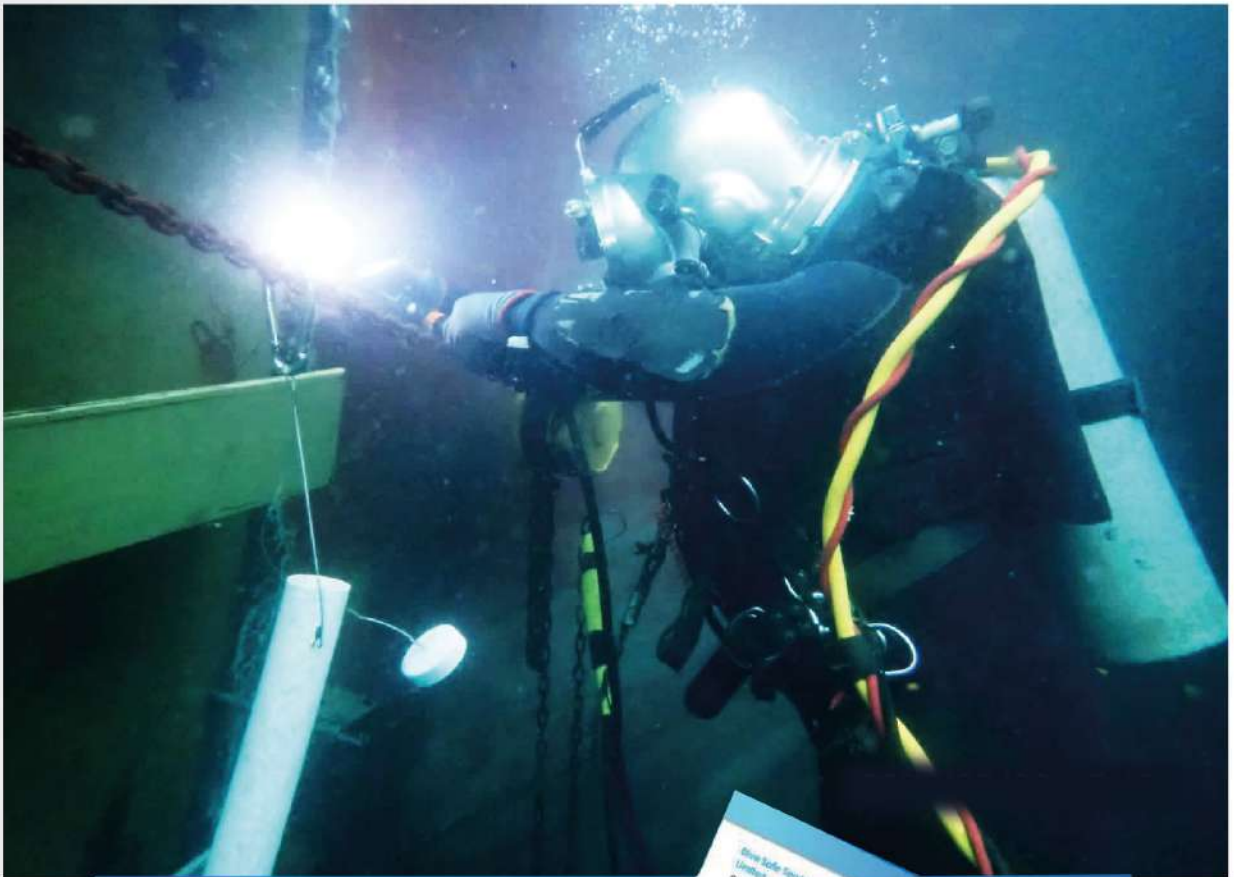
It is an integrated system for testing and calibration of Protection and control relays. It counts with five phase Voltage Output and three phase current output. Has DC and AC Output. Max current output is 90A..

Feel free to request a quote!

+507 6112 0047 + 507 6053 3427

talleres@talleresindustriales.com

Panama Canal Area



**UNDERWATER SERVICES
WITH THE HIGHEST
SAFETY STANDARDS**



TALLERES INDUSTRIALES S.A.



RENTAL OF POWER PACKS



TALLERES keeps investing in new class approved portable generators. Earlier this month, the latest machinery arrived at our yard. Two new 1000 KW power packs fully adapted in ISO 20-foot container with 80 reefer sockets embedded, ready for reefer connections to power up reefer compressors on container vessels. Talleres is equipped to respond rapidly to any offshore emergency. We have a wide range of Power Packs and ISO Tank Containers which are always on standby to assist. Our powerpacks range from 130kW to 1,000kW. Our stock also includes two Power Packs with reefer sockets embedded for quick connections. At Talleres Industriales, we understand that being adrift with no power is not a joke and it could be a high-risk situation for our clients, for that reason, we also provide crane barges, supply boats, electrical cables to assist in any side of the Panama Canal.

AFLOAT HYDRO BLASTING SERVICES PROTECTING THE ENVIRONMENT



Talleres' water blasting solutions allow the surface treatment of vessels at the anchorage or alongside berths in a safe manner for the environment. The use of high-pressure water blasting for surface preparations and surface cleaning can eliminate rust and old coatings during Panama Canal transit or while doing other repairs and services. In addition, water jetting can provide a revitalized surface, making it possible for new coatings to adhere without old particles impeding this adhesion.





Talleres has trusted Jetstream for its advanced water blasting equipment and solutions. Our Ultra high-pressure blasting runs up to 40,000 psi to remove coatings and debris from the affected areas to be treated. It uses only water with no abrasive or chemical component. Water blast machines minimize the waste to be disposed of and subsequently lower the risk of contaminating the working area.

Talleres Our operators are well trained and experienced in safety, operation, and maintenance of these units. In this case, a 19998 t DWT Chemical tanker which was performing a major electrical repair took the opportunity to perform a full blasting and painting on her deck which included complex reinforcements and piping structure. For environmental reasons and due to the high disposal cost of sand or grid, an ultra-high-pressure system is the way to go. Please feel free to contact us for any of your needs in which out of the box solutions are needed.



TALLERES INDUSTRIALES, S.A.

24/7 SHIP REPAIRS AND MARINE SOLUTIONS



54 years providing ship repairs and marine solutions!

Direct support to the auxiliary maritime industry
Contribution to the community with social programs, involving
the main social entities of the Colon province.

55,000
jobs have
been
accomplished
since 1969

35,000
vessels have
been
attended
since 1969

10,000
workers is the
approximate
labor force that
has worked in
Talleres
since 1969

3
generations of
employees
have been
working
since 1969

Talleres Industriales, S.A., a Panamanian company at the services
of the World Maritime Industry.



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