

U NEWS

No. 20
THE CONSTRUCTION
MAGAZINE YOU
CAN TRUST.

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IN PEOPLE

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THAT WE HAVE
CHANGED
OUR IMAGE
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The images contained in this document provide a snapshot of certain situations or assembly phases, so they are not complete images for safety purposes and should not be considered to be final.

MUTUAL TRUST

“Ever since our first project, we have continued to build your trust...”

We are starting the new year by wishing you all a successful 2022. ULMA is introducing new content and a new design for our magazine, which we have renamed UNews.

By introducing these changes, as well as discovering the projects that we complete, we want you to learn about the people who work for us at our different sites around the world, the services that we offer and the improvements that we are making to our processes

for your benefit. And, in this year's first issue, we are starting with our recent investment in the scaffolding and formwork manufacturing plant and its effect on our service capabilities. You will learn about ULMA Canada and we provide detailed information about the new ONADEK slab formwork; we talk about ways to improve productivity in restoration projects and, as usual, we show you some of the latest projects in which we have been involved. All with the single aim of bringing us closer to you and continuing to build your trust in us, a quality that motivates and drives us to improve and tailor the new products, solutions and services that we develop to your needs.

Aitor Ayastuy
CEO



01

TRUST IN
PEOPLE

PLACING ALL OF OUR TRUST IN EXPERIENCE

“We have managed
to increase productivity
with this new way of working”



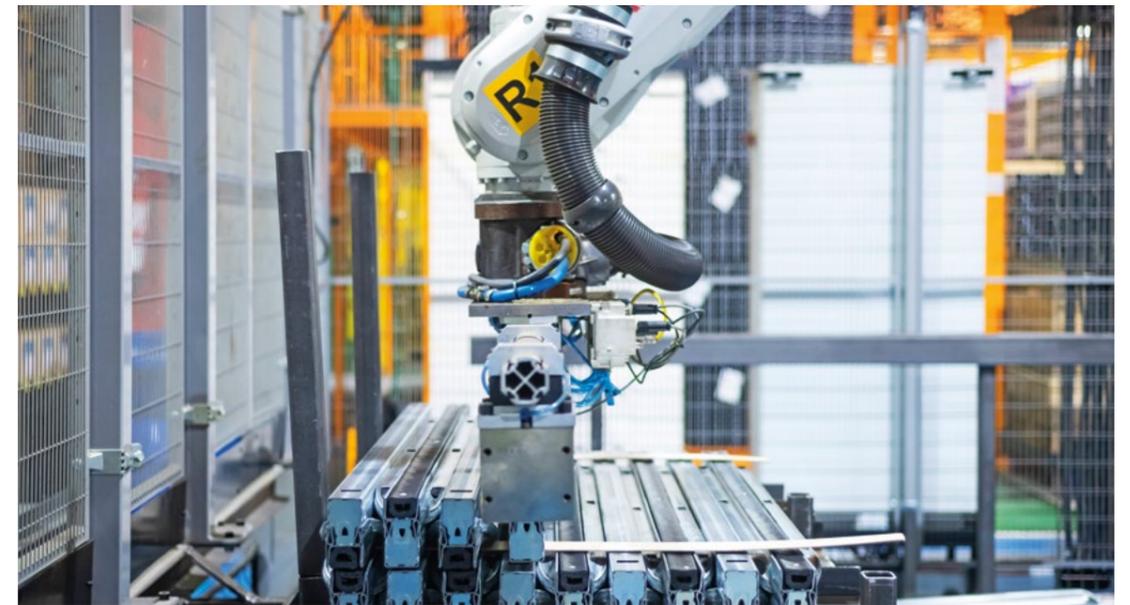
IKER MENDILUZE

Operations Director

In recent years, we have made significant and continuous investments in our production plant, making improvements and taking steps aimed at increasing our flexibility, so that we can meet our customers' needs.

We take care of the entire value chain, from design, manufacture and distribution through to the assembly of our products supporting our customers from the beginning of their projects.

Iker Mendiluze, ULMA's Operations Director, explains the improvements made in the last year in more detail.



→ **What new actions have been implemented in the production process?**

The main aim of the investments that we have made in recent years has been to ensure the flexibility of our production capacity, so that we can meet market demand. This flexibility was achieved by increasing the production capacity of our most important lines and by linking together the various production processes, allowing us to reduce our lead times and meet our customers' requirements.

In the tube forming and sizing process, we have improved our product switchover time by 40%. This allows us to adapt production to meet market demand and reduce our delivery times.

In our new vertical formwork system, we simultaneously manufacture different models, thus increasing our production volume by 25% and achieving a substantial increase in productivity. Also, by linking the cutting, punching, welding and finishing processes in a single line, we have reduced the lead times for our formwork by 22%.

→ **And what about scaffolding and props?**

Investment in our scaffolding line has led to a 25% increase in our manufacturing capacity for BRIO ledgers and we are working to reduce our lead time for props by 50%.

This commitment to innovation in our production processes has produced very positive results for the quality indicators within our continuous improvement process. Our investments have also had an impact on overall sustainability.

WE HAVE IMPROVED
EFFICIENCY IN
OUR **ENERGY
CONSUMPTION**
AND REDUCED
WASTE AT OUR
PRODUCTION PLANT

→ **The digital advances recently implemented have been recognised as an example of best practices in industry 4.0.**

In recent years, we have installed two systems to digitalise plant processes; firstly, the MES software called CAPTOR and, secondly, the UQR application. With the CAPTOR platform, we obtain real-time information about the status of production orders and the machine's production times. This information is transparent for the whole work team, resulting in more agile and efficient decision-making.

The UQR system consists of implementing and reading a QR code on the parts that move between different warehouses. This gives us full control over the location and status of each item at all times and up-to-date, centralised information that allows us to operate in a coordinated manner and reduce administrative tasks.

ULMA introduces a new claim and a new graphic design.

We have just published the Construction book, which contains some of our most notable projects in recent years, and where we have introduced a new claim and a new graphic design.

It's all about trust

El valor de la confianza

AT ULMA, WE ARE CONTINUING TO EVOLVE TO MAKE OURSELVES MORE COMPETITIVE, TO BE CLOSER TO YOU AND TO CONTINUE **BUILDING YOUR TRUST.**

The essence of our brand remains the same. This was something that we did not want to change, because you, our customers, continue to be our main focus. It is all about how you see us, how you want to work with the team at ULMA. And that close relationship between us - because that is the feeling that you convey to us - and the trust you show us, which makes all of us feel comfortable working together on your projects: that is our strength and it is what we want to talk about.

We have adapted our image and message, but we have kept our identity and remained true to our origins. We want to continue improving, by developing efficient and more sustainable systems and solutions, using digitalisation and developing more efficient processes to improve productivity so that, ultimately, we can offer the best services, products and solutions. And, for that purpose, it is also necessary for that growth to be reflected in our brand.

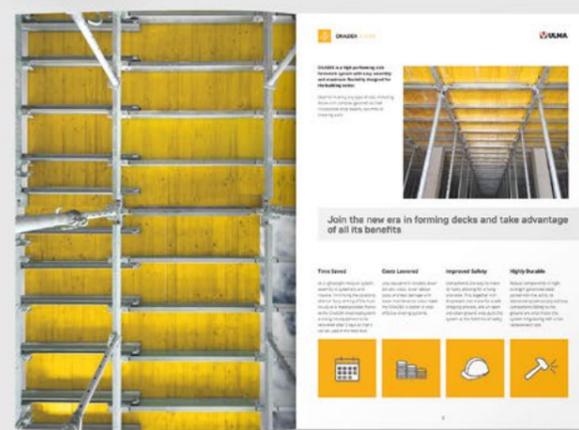
We have defined an idea that shows our purpose as a company and, additionally, clearly and specifically defines what we are and what we offer: **It's all about trust.**

Trusting that we will help you to make your projects a reality. That is our goal every day. And to do so by being close to you, providing an effective and quick response from anywhere in the world and playing our part so that we can offer all of the necessary products and services. So, through our experience, expertise and continuous innovation, we give you peace of mind when you carry out your project with us.

A team that understands collaboration and flexibility as keys to success, ready to assess and advise whenever necessary. We work with you from the initial design to the on-time delivery of our formwork and shoring systems, as well as provide comprehensive logistical services and on-site supervision. Moreover, we do so with a deep understanding of the products you need and the markets in which you operate, making it possible for us to meet your requirements and together provide the best solution.

IN SHORT, DOING OUR VERY BEST SO THAT YOU CAN BE SURE THAT EVERYTHING WILL GO WELL. THAT IS TRUST.

Did you know that...





Did you know

It was 1961 when six young workers set up what is now **ULMA**

60 years later, ULMA is a business group composed of nine businesses with a wide range of activities. Around **5,500 professionals** working in **over 80 countries**, offering the most advanced systems and services available on the market. We are not only celebrating this anniversary today, we are also celebrating those of our colleagues in Portugal and Peru.

40 YEARS IN PORTUGAL

ULMA's internationalisation process began in Portugal. And since then we have spent 40 years striving for customer satisfaction, with new forms of communication, new technological resources and services.



After 30 years at ULMA Portugal, Sandra Silva, a Sales Administrator, cannot imagine working anywhere else.

“ I have seen numerous changes, but one thing that has remained intact is the determination and capacity for hard work shown and achieved by the whole team throughout this time. I like my work and my role, but my fantastic colleagues, for whom I have a great deal of affection and respect, have helped to create a very fulfilling working environment.

ULMA has allowed me to achieve a good work/life balance. It has allowed me to resume my studies and get my degree, which has been very fulfilling on a personal level and has given me the necessary stability to face any challenge.”



Nuno Moura has been working for ULMA as an Engineering Technician for 3 years.

“ The reason I joined ULMA was my desire to work in a global company and to learn more about its products and solutions. The chance to work on highly diverse projects, from residential construction, to bridges and dams, as well as to use its wide range of systems. Every day and every project is different, making the work far more interesting.

The thing I like most about working at ULMA is the engagement and mutual support among the whole team in Portugal, with a highly positive atmosphere, and the ease with which we can share and exchange ideas with colleagues from other subsidiaries.”

20 YEARS IN PERU



20 years ago, ULMA came to the country to stay and became ULMA Encofrados Peru. And since then, with **over 5,000 projects under our belt**, a great team and warehouses that are strategically distributed around the country, we **lead the way in modern solutions, safety and trust** in the market.

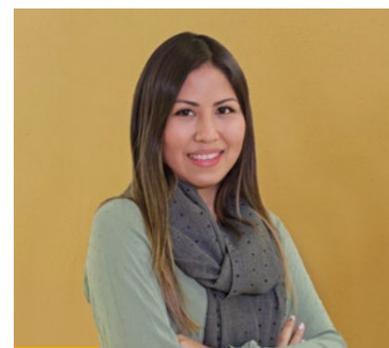
14 years ago, after leaving university, impressed by ULMA's construction projects, Jorge Chavez decided to give it a try. Nowadays, he works as a Sales Manager.

“ After the first interview, I got the impression that I was in a business-like company and I was not wrong. And ever since then, I have wanted to work at ULMA until I retire. The good working environment is something that impressed me right from the start. People are willing to help each other. I hope that never changes. ULMA is our home.

The thing that sets us apart is our proximity to our customers. We adapt

to changing conditions, we look for new opportunities and we treat the company's problems as if they were our own. We have strong values and the same goal, we are aware that our everyday activities are shaped by our customers; that is our essence. We are flexible and we embark on each project with firm commitment. We are a strong team and we demonstrate that to our customers.”

3 years ago, when she was 25 years old, Brenda Baron began her journey at ULMA in the Logistics Department.



“ The company is as firmly committed to its workers as it is to its customers. They offer us the chance to continue learning, to continue growing in a personal and professional capacity, with a great atmosphere and with people who share your values. All areas of the company are aware that we have a clear objective to provide our customers with the best service, and we align our work to that end. This allows us to serve them

in the best way possible throughout the logistics process. During these 20 years, everyone's commitment has made us a leading company in the formwork and scaffolding sector.

We have a strong structure, which is able to meet any technical, logistical and commercial needs. I am proud to be part of a globally-renowned organisation.”



WITH ONADEK, THE BUILDING CONSTRUCTION MARKET IS ENTERING A NEW ERA FOR SLAB FORMWORK SYSTEMS.



IN 2017, THE FIRST PROJECT WITH ONADEK WAS COMPLETED IN GERMANY AND **NOW, OVER 15 CONSTRUCTION PROJECTS ARE UNDERWAY IN THE COUNTRY.**

Max Hannawiya, with a long career under his belt, has first-hand knowledge of ONADEK, how it works and how well it is being received, specifically in the German market. As Product & Sales Manager at ULMA Germany, he oversees the entire process, from the tender to on-site installation. "In this sense, I believe that my work is ideal for showcasing the product in all areas. The first thing I do is to go to the site, I show them how it is assembled and, after that initial training, I always receive the same feedback: it's a very simple, quick and flexible product".

Why was ONADEK created?

The market was demanding a single formwork that was both **modular and flexible**. A system that could be adapted to suit any geometry and meet the needs of any type of application and infilling, drop beams, columns, load-bearing walls, etc. Additionally, with **cost-effectiveness always in mind, it would have to be intuitive, easy to assemble and durable**. That is how ONADEK came about. A perfect product as it combines and brings together a large number of benefits in a single system.

It is the start of a new era for formwork.

It is a system that has never existed before. On the one hand, you have high-strength galvanised steel, thus saving on resources in the long term: the wood from conventional systems and the aluminium from modular systems. In addition to this, it has a high degree of reusability, making it a **truly sustainable system**. And on the other hand, it has an **early stripping** option, so it can be stripped and reused on the third day, leaving the dropheads and their props as the

system's only load-bearing elements.

Why does this safety system increase productivity?

Assembly and dismantling process is safe, as it is carried out from below, on the slab that has already been executed. With other systems, they have to be done from the upper part, with the risk and time that this entails. You avoid having to move around continuously, so productivity is higher because you are always working in a single area. And as it has a drophead, none of the elements fall on the

ground, so you are working in an open, clear space.

What are the benefits for the user?

It is **ergonomic**, the heaviest item weighs 17.7 kg and the longest item measures 2.5 m, so a single person can handle it, bearing in mind that over 20 kg is not acceptable. Meanwhile, with other systems, you need at least 2 people to move the parts, either because of their weight or their size.

WITH ONADEK, YOU NEED FEWER WORKERS, LESS MATERIAL AND LESS TRAINING

How is the system's productivity calculated?

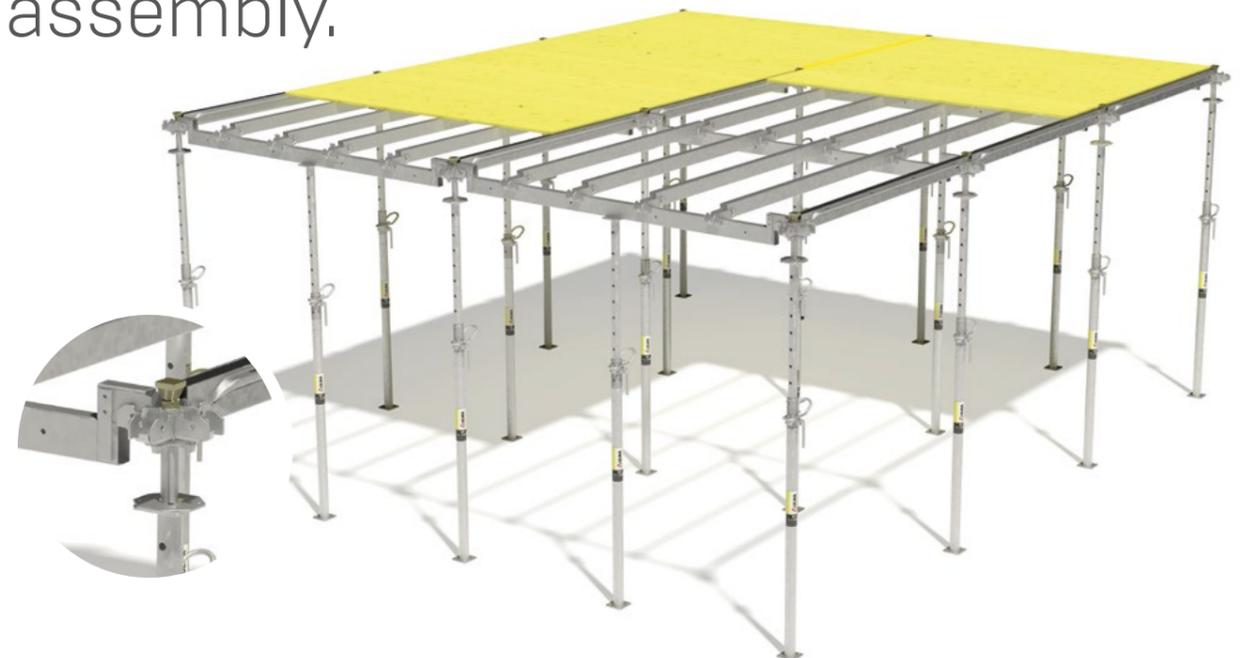
In this case, we use the Performance Value Calculation, i.e. we calculate the number of workers and the time that they need to assemble a specific area. For example, to form **1,000 m² of ONADEK, you need 60 hours, whereas with a traditional system, you need 120 hours, twice as long.**

From your experience, why do you think it has been so well received in the market?

Because **it optimises the price and construction time of the works.**

Right from the start, the team on the construction site recognises the benefits very quickly and, when they see it on-site and they have to assemble it, they are impressed by it. Additionally, with ONADEK you get the most out of the load-bearing capacity of the props, 80-100% compared to other systems, which are usually between 40% and 50%.

Maximum flexibility and outstanding performance during assembly.



SMART PRODUCTS

The digital tools that we are developing add intelligence to our products and, in this case, to our scaffolding ranges: BRIO and DORPA.

THE LATEST TECHNOLOGY TO IMPROVE INTERNAL PROCESSES, ALLOWING US TO OFFER THE BEST POSSIBLE SERVICE TO CUSTOMERS.

We have added laser scanning to our scaffolding libraries in REVIT and to the Scaffmax® configurator. The digitalisation of working processes represents a breakthrough in accuracy and productivity. Therefore, laser scanning is an effective tool to consider when using scaffolding.

With our laser scanning system we achieve:

GREATER ACCURACY AND SAFETY:

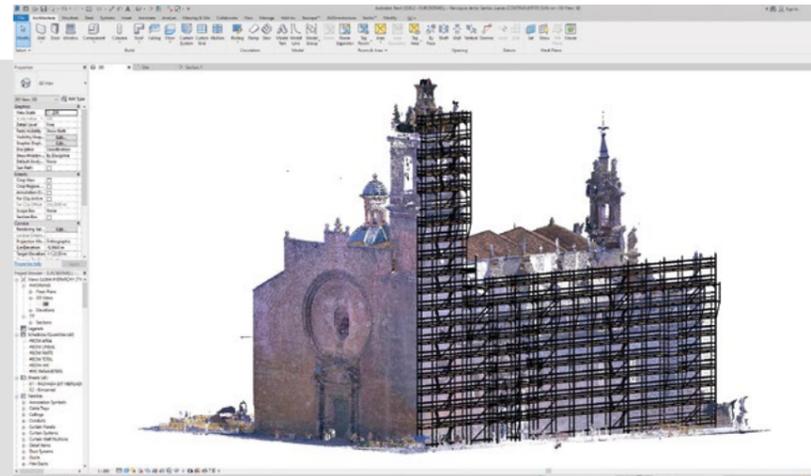
With a single scan we obtain an exact replica of the building, at any height and distance. So, the scaffolding used and the materials sent to the site fit together right away. We can forget about making changes during the process.

SPEED AND ACCESSIBILITY:

In a short period of time and with fewer resources, it collects millions of bits of data per second; a point cloud is created from the measurements, depicting an accurate 3D model of the building or structure. A major digital development from 2D drawings on paper - which limit what you can read - to 3D models that provide all views. And everyone involved in the project can access this virtual model, which is extremely useful for coordination tasks.

LOWER COSTS:

This accuracy leads to a more effective scaffolding application study. The improvement in terms of logistical organisation and calculating the supply of necessary materials, will make it possible to cut costs, increase productivity, and reduce the time on taking measurements.



REVIT® DESIGN

CEBU-CORDOVA LINK EXPRESSWAY, 3D TECHNICAL SOLUTION



One of the largest infrastructure projects carried out in the Philippines. The bridge consists of two octagonal pylons, variable on all sides and 150 metres high.

In projects of this scale which also feature complex geometries, having easy access to the 3D model has made it possible to quickly resolve any problems or interference before and during the construction work process. The digital model was updated when any changes were made, so there was a continuous and effective flow of information between everyone involved in the project.

Using REVIT to design the pylon was essential to allow all of ULMA's systems to be used, given the complexity of its geometry: variable in the octagonal section, and in the different climbing phases. In the first phase, it was a regular octagon with a variable section, but in the following two

phases, as well as being irregular, the geometry was variable on the 8 sides. Additionally, the formwork had to be adapted to the stay cable boxes and the presence of an ornamental cross embedded in the concrete.

This tool allowed us to verify that with this technical solution, there was no interference at any point along the entire shaft of the pylon or in each layer, making it possible to develop a suitable design in each phase. So, two formwork solutions and the ATR self-climbing system were installed, one for phase 1 and the other for phases 2 and 3, as the geometry changed after the deck of the bridge.

ULMA CANADA, AN INSPIRATIONAL WORK CULTURE

Landed in Canada in 2009, ULMA is today a leading builder in diverse market segments. The company has earned recognition for undertaking large, complex projects, such as: Docksider Green in Victoria, British Columbia, Wesley Tower in Mississauga, Ontario, and Mirabella Condos in Toronto, Ontario, among others and several Canadian projects under construction.

ULMA counts on 5 locations, and is proud of its growing and diverse workforce of over 60 team

members, who embrace innovation and emerging technologies, and thrive to make a difference for their clients, team, and community.

At ULMA, it is all about the people. People who search for personal and professional development, people who collaborate with customers from the very beginning, and people who add unique value and expert support to the services that we offer to our customers.

Projects in Canada



MIRABELLA CONDOS
Toronto

Perimeter Safety Screens solutions at Residential Development in Toronto.



WESLEY TOWER
Toronto

High performance and safety at residential project in Downtown Mississauga.



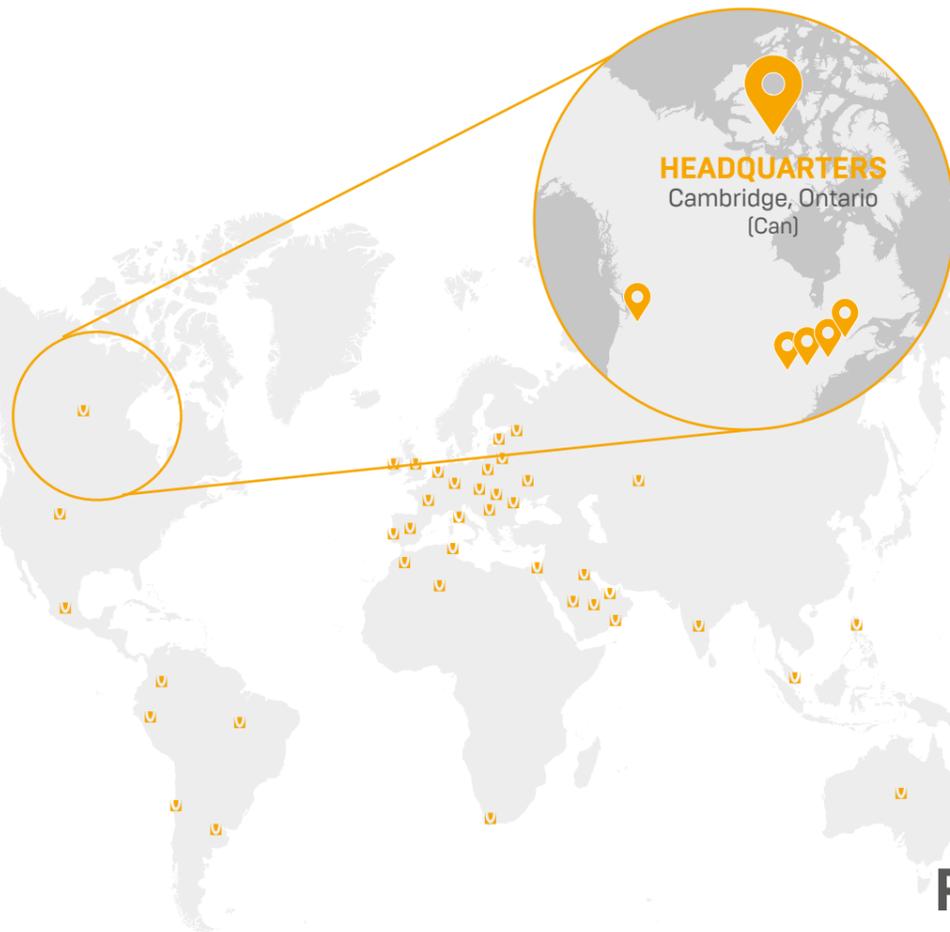
BRIDGE OVER THE GRAND RIVER
Waterloo

Concrete formwork systems, on-site engineering and assistance in Waterloo Region.



DOCKSIDE GREEN
Victoria, British Columbia

Vertical formwork solutions at Residential project in Downtown Victoria, British Columbia.



+120
PROJECTS
completed
in 2021

ULMA CANADA IN FIGURES

TEAM MEMBERS

+60



LOCATIONS

+5



INTERESTING FACTS ABOUT THE COUNTRY

Canada has...

- 01 The longest coastline in the world, covering 202,080 km
- 02 More lakes than the rest of the world combined (over 3 million lakes)
- 03 The largest source of fresh water in the world
- 04 180 tree species and nearly half of Canada's land area is covered by forests

ULMA CANADA

CAMBRIDGE | Headquarters
CAMBRIDGE | Logistics and Warehouse
BOLTON | Sales Office
OTTAWA | Sales Office
VANCOUVER | Sales Office and Warehouse

www.ulmaconstruction.ca

04

PROJECTS

When trust leads to major construction projects

OFFSHORE PLATFORMS

Veracruz, MEXICO



The EK-BALAM oil field, located off the shores of the Gulf of Mexico, will be increasing its production capacity with a new offshore platform called BALAM-TA2. The structure is being constructed in two parts, in the ESEASA Offshore yard.

ULMA solution

BRIO scaffolding

Weight: 590 t

Height: 56 m



In a demanding project like this, the supply of large quantities of equipment and the lead times were vital to the success of the project.

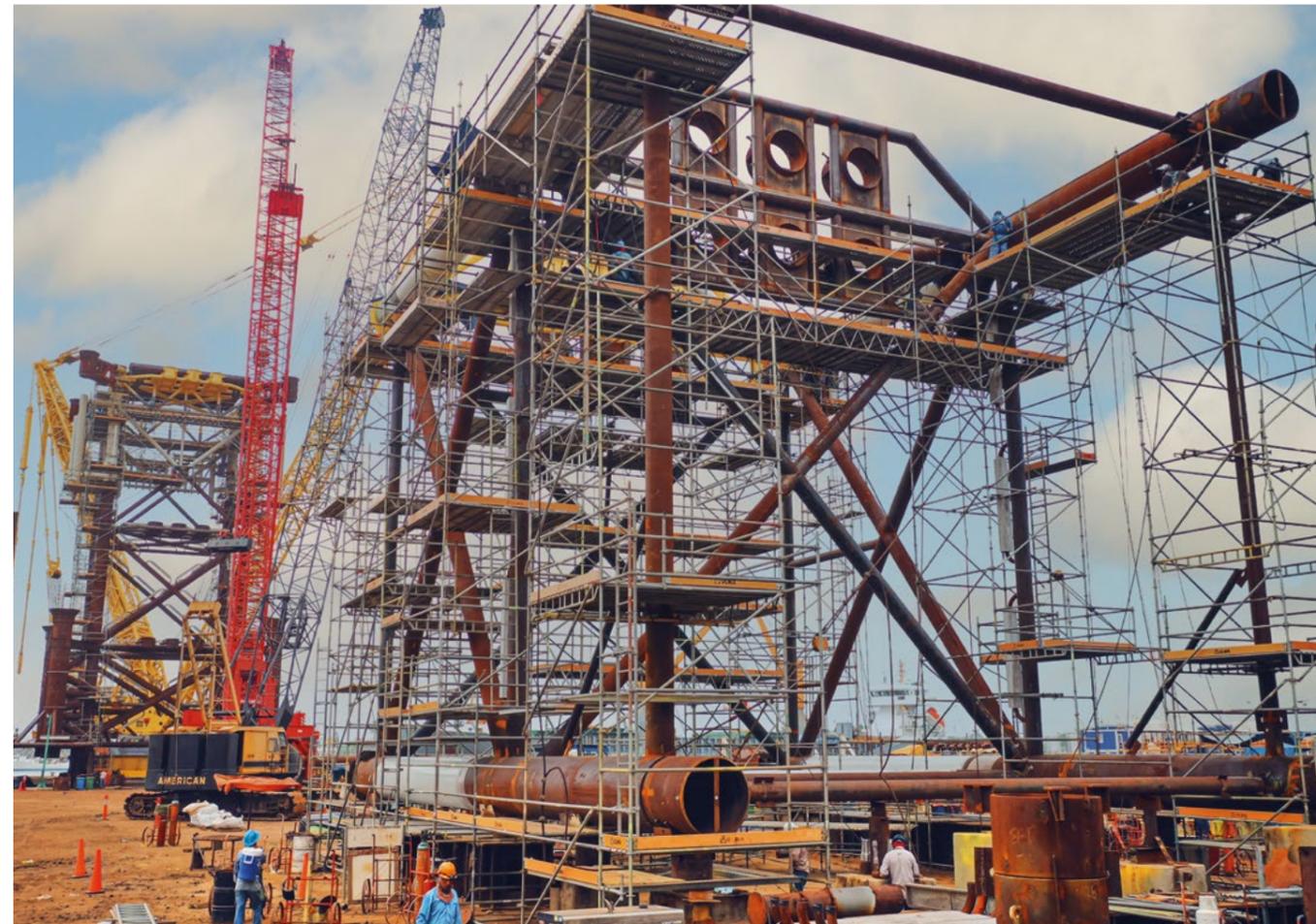
BRIO modular scaffolding was used for both structures and during electromechanical work, in the form of work towers, walkways, suspended scaffolding and an access staircase. The bottom part of the platform, which will be placed on the seabed, is 42 metres high and 13 metres long. Inside and on either side of the structure, 10 BRIO scaffolding towers were installed which are 14 metres high, along with walkways of various lengths: 6, 9 and 11 metres.

On the deck of the platform, which is 24 metres long x 22 metres wide, a double stringer access staircase was installed which is 14 m high,

in addition to four work towers that are 12 m high, with cantilevers and access to the suspended scaffolding at various heights.

OUR PRESENCE ON THE SITE WAS THE KEY TO ITS SUCCESS

ULMA's staff were continuously present on this site, not only for the technical supervision of the scaffolding structures, but to provide theoretical and practical training on the BRIO scaffolding, work at heights, industrial safety and leadership for middle managers. Additionally, the team from ESEASA Offshore's Scaffolding Area visited our logistics centre to receive training in engineering, software (Revit and AutoCad), logistics and operations. We are currently continuing to work with ESEASA Offshore on the construction of the UIM-16, UIM-21 and UIM-22 offshore platforms, and on the processing units for the HDN2 plant at the new Dos Bocas Refinery.



BRIDGE OVER THE CUIABÁ RIVER

BRAZIL

Length: 300 m
Width: 17 m
No. columns: 10
Max. span: 240 m



Over the Cuiabá River, in Brazil, a new bridge in balanced cantilever method is being constructed to connect the Lago Park in Várzea Grande to the Atalaia Park in the capital. It will promote the economic development of the area and reduce current traffic and travel times. The main requirement of the project was to avoid interfering with sailing on the river and to respect the prerogatives of the Brazilian Navy.

There are many challenges in a project like this. To avoid damaging the environment and the use of ground shoring, the section over the river - which is over 120 m long - is being constructed using CVS cantilever carriages. This equipment has a hydraulic advance system that reduces the amount of labour necessary and cuts completion times.



ULMA solution

Pier Segment: 12.8 m x 6.7 m
 CVS, ENKOFORM, COMAIN

Piers height: 12 m
 BMK

Shoring: 12 m
 T-60



“ The safety of ULMA's equipment increases productivity on the site. When there is a technical issue, the response is always quick, which makes our production process easier and quicker. ”

LUIS ARMINO
 Site engineer
 [Rivoli Construction Company]

HASSAN CENTENARY TERRACES

GIBRALTAR

Surface area: 120,000 m²
Max. height: 106 m

ULMA solution

Walls, cores and columns: 3.05 m
 ORMA, LGW, RKS, ATR

Typical slab: 1,050 m²
 ENKOFLEX, VR table

Shoring: 2.8 m - 18.2 m
 EP, ALUPROP

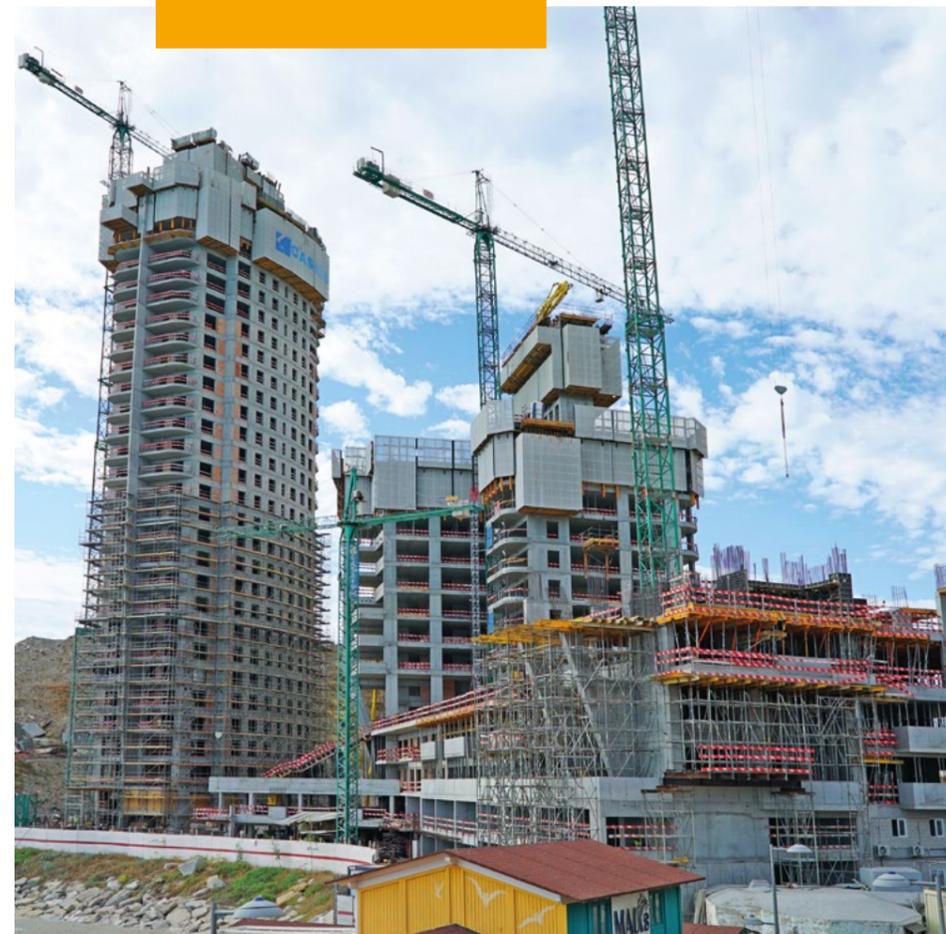
Safety (depending on tower):
 13 and 27 screens
 HWS

BRIO and DORPA scaffolding

WE WORKED SHOULDER TO SHOULDER WITH THE CUSTOMER RIGHT FROM THE START OF THE PROJECT

HTC Gibraltar is a project with 665 state-subsidised properties developed and promoted by the Government of Gibraltar, the largest residential construction underway now and in the years to come. It has 6 high rise towers and it is being constructed in two phases: phase one is for towers 4, 5 and 6 and phase two is for towers 1, 2 and 3. Tower 4 is the tallest one and it has 35 floors, while towers 5 and 6 vary in geometry and height, with 26 floors. As well as being in an area that is exposed

to the wind, the crane had to be available at all times. Therefore, the ATR self-climbing systems, RKS and HWS perimeter safety screens played a vital role throughout the process, with weekly cycles for each floor. The variable-thickness slabs had transition areas. The CC-4 aluminium formwork and EP prop were used with ENKOFORM and BRIO shoring and, in split level areas, braced ALUPROP towers were used.



“ The main challenge was to get a formwork system that would ensure that we were able to save a week. We managed this with ULMA, easily and safely. ”

JOSÉ CRUZ
 Civil Engineer
 [CASAI Group]

CHORUS LIFE

Bergamo, ITALY



ULMA solution

Walls and columns:
from 4 to 8 m
ORMA, CLR

Typical slab: 5,000 m²
CC-4, MBP

Shoring: from 3 to 6 m
ALUPROP, MK



The first Smart City project has been launched in Bergamo, regenerating 150,000 m² of one area in the city. It not only consists of a property and residential development, but also the creation of a smart network system that will deliver power to where it is really needed, reducing the environmental impact and minimising the ecological footprint of the homes (smart home) and the city (smart city).

As well as supplying ORMA and CLR formwork to construct the walls and columns, we designed an **innovative perimeter safety system based on MK walers**. This solution makes it possible to complete processes more quickly but, above all, to operate safely without any need for scaffolding, due to the presence of varying levels around the site.

To support the structures, we supplied 70 high-capacity MK towers, which are height-adjustable, so they are especially flexible and can be adjusted to meet the needs of the project.

THE MBP PROTECTION SYSTEM ENSURED SAFETY THROUGHOUT THE PROCESS

FOREST OFFICE COMPLEX

Warsaw, POLAND

Height: 115 m

Floors: 30



ULMA solution

Walls, cores and columns:
3.5 m
ORMA, ATR, KSP

Typical slab: 1,385 m²
CC-4, ENKOFLEX

Shoring: 12.9 m
T-60

Safety: 39
HWS



The Forest office complex is going to provide the city of Warsaw with a rental space of 78,000 m², including areas for cafés and service facilities. It consists of a 120-metre tower and other adjacent buildings, with 6 and 8 floors.

The well-being of the users has been factored into this new space, with terraces around the whole perimeter, small vegetable gardens, special shelters for birds and insects, and outdoor gyms.

Working closely with the project managers, we developed **special solutions**, formwork systems that were adapted for the stairwell, with two simultaneous evacuation routes, and storage platforms in the perimeter area of the building with a 6.8 m cantilever.



ÉVORA LINE

PORTUGAL

Within the National Railway Plan, the 80-km Évora-Elvas line will become the first high-speed section of a line in Portugal, used to transport freight and passengers.

This section is part of a wider project, called the Southern International Corridor, which will connect Elvas to the port of Sines, improving the country's links to Europe.

In these works managed by the state-owned company 'Infraestruturas de Portugal', we were involved for four of the five sections, partnering construction companies such as MotaEngil, MADONU, Constructora São José, Teixeira Duarte, Sacyr, COMSA, Fergrupo y FCM.

Freixo - Alandroal section: 20.5 km
Évora North - Freixo section: 20.5 km
Évora - Évora North section: 10 km
Alandroal - Leste line section: 38.5 km

[Freixo - Alandroal section]

The Freixo - Alandroal section has 10 viaducts and 16 overpasses. In addition to supplying a large amount of equipment, performance went hand in hand with safety. For the construction of the respective decks, we supplied 20,000 m³ of the OC shoring system and around 4,000 m² of ENKOFORM formwork. We installed 3,600 m² of ORMA formwork and 10 sets of formwork for columns and footings, combining ENKOFORM and ORMA, as well as 280 metres of stairs and 10,500 m² of BRIO scaffolding.

THE SCALE OF THE PROJECT REQUIRED **TONS OF EQUIPMENT** TO BE SUPPLIED AND CONTINUOUS COMMUNICATION.



“ In such a complex project, ULMA's team has been highly effective in its responsiveness, supply of equipment, engineering solutions and technical support. Additionally, not only did they ensure that the deadlines were met, they did so safely. This is a company that we can trust, which supports us throughout the project. ”

GONÇALO GONÇALVES
Project Manager
[MotaEngil]



[Alandroal - Leste line section]

In the Alandroal - Leste line section we provided shoring and formwork systems for three viaducts, 10 underpasses and wall formwork for 13 viaducts: 25,000 m³ of T-500 shoring systems, climbing brackets and profiles, around 1,000 m² of ENKOFORM formwork and 3,800 m² of ORMA formwork.

JOÃO CASTRO
Project Manager
[Madonu Group]

“ ULMA has a highly professional team that supports us in on-site studies, assembly and management, throughout the process and the project. Above all, the solutions that they recommended are cost-effective. They allow us to work safely and to reuse the equipment on the different viaducts that we are going to construct. ”

PROJECTS IN PROGRESS



When **trust** leads to major construction projects.

01. Chulucanas Hospital (Peru)

02. 1812 Broadway (USA)

03. D3 motorway (Czech Republic)

04. Martiricos Towers (Spain)

