

# Scope



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Dear Readers,

Welcome to our first Hong Kong edition of PERI Scope, showcasing six interesting projects, as well as our work with the Construction Industry Council and of our products which are ideal for the Hong Kong construction market, DUO, ALPHAKIT, and VST Heavy Duty Shoring Towers.

Our recent Civil Engineering projects stretch across the Hong Kong SAR. The M+ Museum in the West Kowloon Cultural District is the new museum for visual culture in Hong Kong, focusing on 20th and 21st century art, design and architecture, and provides a fascinating challenge to construct. The West Kowloon Rail Terminus, which will house the only station within the HKSAR section of the Express Rail Line to the mainland, has an iconic roof structure, and will cut commute time to Guangzhou to just 48 minutes. Further south, the Shatin to Central Line Cross Harbour Tunnel, contract SCL1121, was accelerated thanks to PERI Formwork Systems TRIO and DUO. In the North of Hong Kong, at the Liantang Boundary Control Point, PERI DUO is being utilised to construct 11 buildings. This ultra light, labour saving formwork enables the construction cycle to be accelerated and reduces the construc-

tion cost. The variety of building projects ranges from building works on SCL train stations, to the Hong Kong Breast Cancer Foundation Center, Ngau Chi Wan.

PERI has a number of products that are tailor made for the Hong Kong market. Our ALPHAKIT is a light weight, high strength shoring system. It provides an allowable leg load of 300 kN, and is completely man handle-able, requiring no crane for assembly. It is ideal for heavy duty civil works. In residential developments, the Hong Kong construction industry is facing tough challenges in the years to come; a shortage of skilled workers, and a high demand for residential buildings. PERI DUO is the solution. A simple formwork system to build safely, quickly and economically.

Our hydraulic climbing systems, for cores, safety screens and formwork, combine excellently with DUO formwork to offer the optimal solution for residential and commercial high-rise projects.

Whilst PERI is well known for its formwork and scaffolding systems around the world, we are less well known here in Hong Kong, our newest market. I hope you find time

to enjoy this issue of PERI Scope, and thereby familiarise yourself with some of the exciting projects PERI are involved in, in Hong Kong.

As a family owned and operated company, PERI continues to be 100% focused on the development of formwork and scaffolding systems that will create benefits for all of our customers. We firmly believe that the flourishing of Hong Kong as a prosperous and dynamic city lies, among others, in the strength of its institutions and businesses, for that reason it is our ambition to join efforts with public organisation's and private construction company's to continue propelling the development of our city.

As ever, we thank you for your confidence in PERI and look forward to working together on your next project.

Signature

Rory O'Gara  
Managing Director  
PERI (Hong Kong) Limited

PERI headquarters in Weissenhorn, Germany.



Stockyard located at Tsin Shui Wai.



Located at Billion Centre, Kowloon Bay, our office is highly accessible.





**Wall and Slab: one system.**  
Universal. Lightweight. Simple.

## PERI DUO – the innovative formwork system



The universal lightweight formwork which is characterized by its particularly low weight and very easy and simple handling. Not only the fact that the material used is new but also the overall concept. With an extremely small number of different system components, walls, foundations, columns, slabs and beams can be efficiently formed. In addition to the panels, including the formlining, most DUO accessories are also made of a polymer-based composite material.

# Overview of XRL Contract 810A Birdcage Scaffold





**PERI**



The West Kowloon Terminus Station North is the largest civil contract awarded for the Hong Kong Section of the Guangzhou-Shenzhen-Hong Kong Express Rail Link. Located in the heart of Kowloon, the terminus will serve as Hong Kong's international gateway to China.

Leighton-Gammon Joint Venture are constructing a 380,000 square metre underground terminus, which includes

nine long-haul and six shuttle platforms, customs and immigration facilities, departure lounges, duty free and other retail outlets on four levels. A key element of the project is the dramatic roof structure above the station entrance made up of over 7,000 tonnes of steel trusses and elaborate support columns.

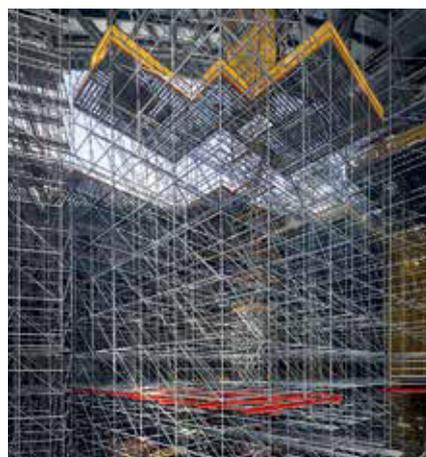
PERI UP Access Scaffold has been utilized for the complicated installation

of façade, glass and cladding for this feature roof. PERI Hong Kong provided the client with onsite engineering support, project management and over 100 2D and 3D design drawings. The access scaffold has a number of unique and bespoke features including access ways for construction vehicles, hoist wells, stair towers, clear span openings for ongoing concrete works below, working areas around mega columns, protection

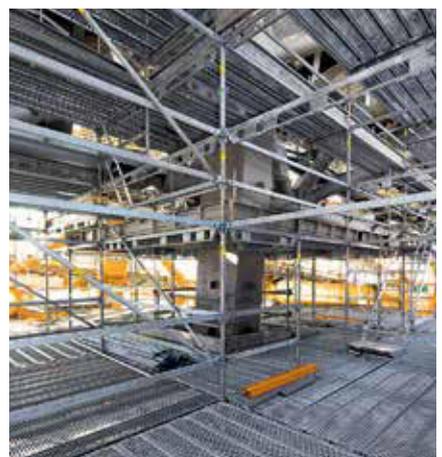
Initial PERI UP installed to 60 m high.



Multiple working levels throughout.



Fully boarded safe working areas.



# 2,000 tons of PERI UP on the Express Rail Link Project

Express Rail Link Contract 810A, Hong Kong

decks and integrated walkways for ergonomic material and personnel movement. PERI's world leading logistic ability enabled 2,000 tonnes to be shipped and supplied over a short period so that no delays were caused. In one location a ticket booth at basement level meant a large clear spanning portal was required, here PERI used their high load capacity aluminum MULTIPROP to easily over-come this and provided the JV with a comprehensive solution.

As one of the safest scaffolding systems in the world, PERI UP provides system integral advantages. Not only during scaffold assembly operations, but also when the scaffolding is being used. The continuous metric grid afforded by the PERI UP Flex Scaffold System ensures that scaffolding installation, to suit building geometry and site vehicles can be systematically and flexibly carried out; there is no time consuming tube and fitting assembly. The 250 mm height increments provides the opportunity to create safe working platforms. Moreover, the small number of different system components accelerates assembly while the resulting gap free installation achieved through the use of system decking means there are no overlapping planks and subsequent tripping hazards during use.

Detailed 3D scaffold planning, as well as the early consultation and coordination with all project participants has

The 3D design significantly increased site productivity.



increased both work safety and efficiency. Scaffolding planning with PERI CAD enables the PERI team to coordinate proposed solutions in advance with the project partners.

The features of PERI UP Scaffold System allowed the JV to build one of the largest scaffolds ever constructed in Hong Kong in a short period of time, and to construct the scaffold safely, while matching the complex building geometry. The 3D models provided by PERI gave clear direction to the frontline erectors, enabling the drawings to be easily followed, thus reducing the requirement to inspect as built structure. Other factors, such as material cost, workloads, erection time and service life

are integrated into the planning process and the scaffold equipment can be dynamically allocated to sub areas of the project based on the needs of the various trades.

As a result of this additional benefit, a project management team can access deviations in the execution compared to what was planned.

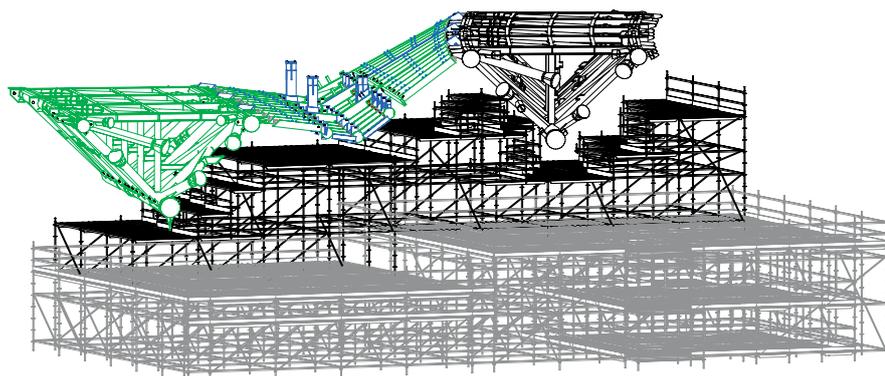


**Contractor**  
Leighton-Gammon JV  
**Field Service**  
PERI (Hong Kong)  
Limited

**John Campbell,  
Construction Director:**

"PERI UP Scaffold provides us with great flexibility and high efficiency. The system has a short learning curve and with the simplicity of it, we could stick to our planned schedule of construction.

PERI's ability to deliver a huge amount of high quality equipment on such a short notice is the key reason we chose PERI as our partner, we believe that no other company could have supported us on this scale of project."



# PERI provided Typhoon Proof storage. PERI UP LGS (Lattice Girder System) with 40 m clear span

Express Rail Link Contract 810A storage area, Hong Kong



External view of the temporary storage area . PERI are providing covered storage at two locations.



**Contractor**  
Leighton-Gammon JV  
**Field Service**  
PERI (Hong Kong)  
Limited

**Adrian Ferguson,**  
Sub Agent:

“We are delighted to work alongside PERI with providing our project and client with technical solutions backed up by enormous project experience and ability. This system has given our project a solution of adaptable temporary storage at a fraction of the cost of warehouse rental”

In addition to supplying access scaffold on the Express Rail Link project, PERI provided a total of 8,000 m<sup>2</sup> of covered storage to Leighton-Gammon JV. Four warehouses were provided with the use of PERI UP Flex Weather Protection Roof LGS. This provided LGJV with much needed dry storage space for their façade and glass works.

Temporary and protective roofing facilities can be quickly and easily realized. The system can be used for jobsites during the typhoon season, allowing works to continue without any delays, or as dry storage facilities as in this case.

LGS (Lattice Girder System) structure is designed to accommodate large spans, high loads, and Hong Kong climate conditions.

The roof is assembled in single movable girder segments. By doing so, it allows the easy opening of the roof, e.g. for the delivery of materials. The crane lifts the complete segment quickly and safely into position after pre-assembly on the ground.

It also provides a high level of safety both during assembly as well as use. As an option, the roof can be designed as a movable version, whereby it can

travel on rails, allowing customers to easily slide the cover to the area where works are on going. Due to the limited and costly supply of covered storage in Hong Kong, LGS can be used as an alternative solution. With its high adaptability and fast erection, complete weather protection can be realized, with different inclinations and geometries to suit any requirement.

PERI are looking forward to providing weather protection solutions to further projects in Hong Kong so you can build through the monsoon season.

One of the storage facilities constructed.



On the basis of PERI UP Scaffolding System, LGS provides dry storage space, at site or stockyard.



# PERI UP Easy, the new Facade Scaffold from PERI

A real alternative to Bamboo in Hong Kong



PERI UP Easy Facade Scaffolding stands for simple and fast assembly. PERI UP Easy is lightweight among the range of steel facade scaffolds on the market. In addition, it provides safety in the system, as the guardrail for the next level is installed from the scaffolding level below using the Easy Frame without any additional components. Through the rosette nodes on the frame, the system can also be combined with the PERI UP Flex Modular Scaffolding.

The PERI UP Easy has a system width of 670 mm. It can be used with either a one-piece board or with two steel decks each 330 mm wide. The integrated protection against lifting is featured in both decking versions. This is not only quick and safe but also allows the opening and closing of individual scaffold bays, e.g. for transporting materials.

Consistently following the metric grid design, the system also includes a 1 m wide frame which can, as an alternative, be used with 25 cm steel decks from the PERI UP Flex Modular Scaffolding system.

### Lightweight

Fast working operations due to the low weight of the individual components

### High level of safety

At all times operatives are protected from falling due to advance guardrail construction

### Fast assembly

Assembly with virtually no couplings and a minimum of tools

### Special application versatility

Can be combined with PERI UP Flex system components

### Technical details

- Standard configuration with a 670 mm system width / 660 mm decking width
- For use as working scaffold in accordance with DIN EN 12811-1:2004-03
- Can be used as safety and roof edge safety scaffold
- One-piece combi-decking with integrated protection against lifting, can be loaded up to max 2.00 kN/m<sup>2</sup> with FOS 3
- One-piece steel decking with integrated protection against lifting, can be loaded up to 3.00 kN/m<sup>2</sup> with FOS 3
- Gap-free decking surfaces without separate gap coverings
- Internal bracket decking, removable for use on external walls with a thermal insulation system
- Fast opening and closing of scaffold bays, e.g. for the transport of materials

## Hongkong-Zhuhai-Macao Bridge (HZMB) Project highlight

Straddling across Lingdingyang of Pearl River Estuary, the Hongkong-Zhuhai-Macao Bridge (HZMB) is a mega-size sea crossing linking three regions which are Hong Kong, Zhuhai and Macao. The total length of the bridge is 42 km including a 6 km long immersed tunnel PERI helped to construct.

Two hydraulically-operated shuttering machines were used for the realization of 180 m long tunnel tubes with incremental launching. 33 tunnel elements were moved from the field factory, sealed with bulkheads and installed on the sea-bed.

### The main contractor China Communications Construction Company Ltd. enjoyed enormous benefits:

- production of the bottom plate, outer walls and slabs without ties
- industrial production of individual tunnel segment
- precise implementation of the project requirements



# Timely construction with VST Heavy-Duty Shoring Towers

M+ Museum, Hong Kong

**Contractor**  
Hsin Chong  
**Field Service**  
PERI (Hong Kong)  
Limited



**Gabby Lu, Engineer,**  
production team:

“The high quality and adaptability of the equipment are the benchmark of PERI. Basically, every component of the VST Tower is manually adjustable to fit our requirements for a flawless assembly.

Located in the centre of the West Kowloon Cultural District, M+ is Hong Kong's new museum for visual culture. The museum occupies an area of approximately 60,000 square metres, and is comprised of a 14 storey tower, a 3 storey Podium and a 2 storey Basement.

For the challenging construction of this building, on top of the MTR airport express line, one of the most important transportation networks in Hong Kong, 5 concrete-steel composite mega trusses are under construction. The trusses span above the rail tunnel in West Kowloon, enabling the

M+ Museum to be erected without any interference to the existing structures. The mega trusses will transfer the loads from the finished museum onto piles built at each side of the cut and cover tunnel structure.

The construction method for these mega trusses is noteworthy. The dirt cover of the tunnel is removed to allow a maximum loading of 30k N/m<sup>2</sup> on the top slab of the tunnel, as indicated by the original designer of the tunnel. Our client, Hsin Chong, designed an intricate temporary works scheme in order to spread all the construction loads and obtain sufficient area of

support. To do this an ingenious arrangement of steel trusses and shoring towers was planned. PERI provided a total of 60 VST towers, with heights varying from 6.50 m to 15.50 m and an average leg load of 600 kN. For these towers several non-standard configurations had to be designed, notably, double legged towers, situations where two legs had 15 m and 2 had 6.50 m and towers with very small dimensions in plan view. In addition, PERI performed preassembly work at the stockyard, provided site assistance with an on-site supervisor, and followed a “just-in-time” delivery

Most importantly, PERI cares about our needs. We received enormous support from all departments especially the engineering team, who provided us with competent and professional technical advice throughout.”

scheme, meaning clients advise one day prior which tower would be erected and preassembly work would be arranged. Optimal services were provided to the client, hence reducing labor costs and time consuming tasks.

M+ Museum will overlook Victoria Harbour.



Overview of VST Towers in use.



Telescopic base & head plate allow site tolerances to be easily achieved. All connections are pinned for fast assembly and high bending moment connection.



**Fast assembly. High load-bearing.**  
**VARIOKIT Heavy Duty Shoring Tower VST**

Heavy-duty shoring towers with a high load capacity. Standard heights of up to 40m are possible – proof is provided for larger heights on an individual basis. Operating the head spindle when fully load is possible.

**Fast assembly**

with bolted connections and pre-assembled tower segments up to 10 m.

**Simple height adjustment**

through moving hydraulics with which the head spindle can be operated when under full load.

**Cost-effective solution**

as all system components are available in the PERI stockyards.

# Bespoke solutions for every project

## Civil Engineering group and Tunnel Expert team



VST Heavy-Duty Shoring Towers and VRB Heavy-Duty Truss Girders were used in the construction of this challenging Bridge project.

### Civil Engineering group

With over 64 subsidiaries around the world, PERI Germany works closely with each to ensure maximum customer satisfaction is attained. Our centralized engineering team in Weissenhorn specializes in bridge building, tunnel construction and civil engineering, based on the VARIOKIT Engineering Construction Kit. With years of knowledge and expertise, the team works closely with each subsidiary to provide bespoke solutions. As a result, they are able to offer customers a tailor-made overall concept, even for complex and material-intensive project requirements.

### Tunnel Expert team

PERI tunnel expert team collaborates closely with various specialists on all levels of planning and execution throughout the development of tunnel construction. PERI tunnel construction solutions are based on either our VARIOKIT Engineering Construction Kit equipment or bespoke design and fabrication, depending on project requirements such as programme, duration or concrete pressures. Our tunnel experts support PERI customers with technical advice and planning services from one source. They will also find the most cost-effective solution on the basis of the customer's own portfolio and PERI rental parks which are available worldwide.



- Expert support for our clients in all stages of their project
- Involvement in customer discussions (project expertise, experience, teamwork)
- Internal coordination of project handling including material flows worldwide

Supporting structure with PERI VARIOKIT Engineering Construction Kit enables quick formwork movements, saving time and construction costs.



- Our global project database brings international solutions and experience directly to the Hong Kong market
- The efficient design of our VARIOKIT by PERI engineers allows unlimited construction solutions to be realised and rented, which reduces the requirement for bespoke fabrication, thereby offering large savings

VARIOKIT Engineering Construction Kit provides system solutions for tunnel construction.

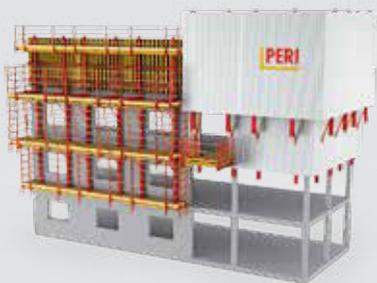




## RCS Climbing Protection Screen

Flexible. Adaptable. Crane-free. Maximum protection.

The RCS Climbing Protection Screen together with Guardrails provide gap-free protection for work carried out on the building shell floors. The screen completely encloses the top floors of the building shell which are under construction. The enclosure protects site personnel against falling and strong winds at great heights, thereby enhancing construction efficiency. Landing platforms can be integrated in the RCS protection panel solution, allowing fast and simple transport of materials. The screen at the same time is served as widely visible advertising space.



# Cross Harbour Tunnel accelerated with PERI System Formwork

Shatin to Central Link Contract 1121 , Cross Harbour Section

**Contractor**  
Penta-Ocean-China  
State JV  
**Field Service**  
PERI (Hong Kong)  
Limited



SCL 1121 will extend East Rail Line from Hung Hom. The Cross Harbour Section includes the construction of the 4th harbour railway tunnel in Hong Kong, and it connects Hung Hom and Causeway Bay Typhoon Shelter. This 1.7 km cross-harbour tunnel beneath Victoria Harbour will be built by using immersed tube construction method, comprising tunnel units pre-cast at the casting yard in Shek O.

PERI TRIO was supplied for a 5 month period to enable Penta-Ocean-China State JV to accelerate the completion of the tunnel segments. The TRIO panels were supplied with propping, access walkways, certified crane lifting device, formwork ties and handrails. It was a simple case of lifting the panels from the delivery vehicle directly into position so that rebar could be placed and concrete poured. PERI provided an

onsite formwork instructor for the first two months of construction to assist site personnel and familiarize the operatives with the system. The embedded safety, fixed tie position and integrated platform access significantly reduced safety risks on site, thereby minimizing the supervision requirements. TRIO proved once again that can perform in many markets, and we look forward to utilizing this product on many more projects in Hong Kong.

## PROP Range to meet all requirements

As a global leader in the manufacturing of shoring systems, PERI provides clients with enormous flexibility by offering a wide range of props that can suit virtually any geometry as well as different loads.

**PEP Ergo B**  
30 kN

**PEP Ergo E**  
50 kN

**MULTIPROP**  
90 kN

**HD 200**  
200 kN

**VST**  
700 kN



# PERI demonstrated high competence in building construction

Hong Kong Breast Cancer Foundation Center, Hong Kong

The new center of Hong Kong Breast Cancer Foundation (HKBCF) is currently under construction in Ngau Chi Wan, Kowloon. Granted by the Hong Kong Government, the site spans about 6,000 square feet. The center is scheduled to open in the second quarter of 2017 and is designated to provide breast health education, screening and other services to women with high risk for breast cancer who live in Kowloon and the New Territories.

PERI supplied approximately 500 m<sup>2</sup> of DUO Formwork to facilitate the construction of this two-storey building. DUO was employed for the construction of various structures which include walls, columns, lift shafts and T-Junction walls.

Due to its low weight, all work can be carried out by hand. In addition, the formwork system is very simple and thus easy to handle. The good quality of the system components guarantees a high reusability and at the same time provides good wall surface results.



All system components are below 25 kg which enables complete manual operation.



The couplers fit exactly into the openings in the panel frames and are mounted without tools.

Following the success of this project, Chun Wo, one of the leading construction companies in Hong Kong, is currently collaborating with PERI to design a monolithic formwork solution utilising DUO on another of their interesting projects, the New Territories West Regional Office and Water Resources Education Centre of the Water Supplies Department.

For the monolithic pour, a quick strip beam erected on a PERI UP Scaffold

will be utilized for the soffits, allowing the formwork to be cycled immediately while the scaffold remains behind until the slab has reached full strength. This unique feature will provide significant savings, a safe working environment and cut cycle times of formwork. PERI look forward to closely working with Chun Wo to build a better Hong Kong for everyone.



# PERI DUO contributing to cross-border transport development

Liantang / Heung Yuen Wai Boundary Control Point, Hong Kong



**Contractor**  
Leighton Contractors (Asia) Ltd.  
**Subcontractor**  
United Engineering Safe Work Ltd.  
**Field Service**  
PERI (Hong Kong) Limited

**Jack Maharjan, Project Manager:**

“DUO provides us with great flexibility compared to traditional formwork. Its extremely light weight enables faster manual erection and striking. With DUO, construction time and labour cost are reduced, and the safety standard together with the quality of concrete surface formed is enhanced. We are more than happy to recommend PERI DUO Formwork to others.”

As the seventh land crossing between China and Hong Kong, Liantang/Heung Yuen Wai Boundary Control Point (BCP) will connect with the Shenzhen Eastern Corridor and provide an access to eastern Guangdong, facilitating future regional cooperation and development.

Leighton Asia is the sole contractor for the construction of a passenger terminal building and nine other main ancillary buildings including fire and police bases, vehicle examination buildings and a number of bridge

structures. The total construction floor area of all buildings in the project is about 157,400 square metres. Seeing the advantages of DUO, subcontractor United Engineering have embraced the system and are enjoying the labour and cost saving benefits. United Engineering need to deliver 150,000 m<sup>2</sup> of formed concrete, and DUO is helping them achieve their targets.

Over 1000 m<sup>2</sup> of DUO Formwork Panel is currently being cycled to achieve impressive results. The formwork is

no longer a constraint in the construction speed, rather the availability of substantial work fronts.

The X-Ray Vehicle Inspection Inbound wall, was one of many structures completed with DUO. The 12 m high wall was poured in 2 lifts of 6 m. The unique features of DUO allowed the form to be assembled by hand on the first pour, before being struck in gangs and lifted easily to the next pour.

Columns, T-Junction walls, pile caps, monolithic pours and standard buildings are among the many structures that United Engineering have utilised the system on, and the results have been the same in each case; a good concrete finish, fast assembly, a high level of safety and reduced labour requirement. DUO offers a real alternative to traditional formwork methods in Hong Kong.

Reducing crane usage to the minimum level, DUO provides simplicity and enhances efficiency throughout the entire construction process.

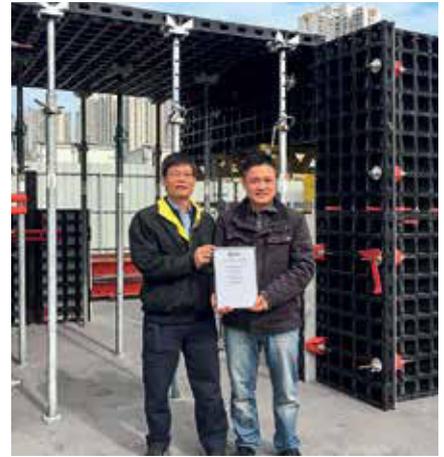


# Engaging with customers

## DUO workshop and seminar with HKCIC



Group picture of 28 formwork carpenters who attended a DUO seminar at our stockyard.



Sales Engineer Jeff Leung is presented a certificate by CIC representative.

PERI embraced the opportunity to connect with the one and only statutory body in the Hong Kong construction industry, the Construction Industry Council (CIC). On 4 July 2016, PERI's first HK customer training was held at the Council's training centre in Kowloon Bay.

Following the success of the first workshop, PERI organized another DUO Formwork and Plywood seminar for CIC formwork instructors at our stockyard on 29 December 2016. The seminar was comprised of the following sessions: introduction of

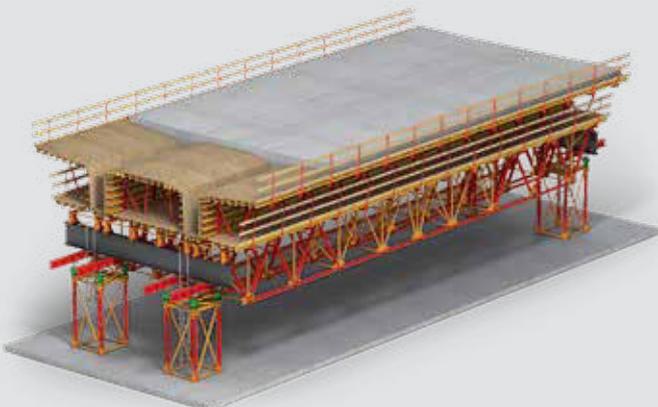
PERI as the leading manufacturer of formwork and scaffolding systems, basic concept regarding the use of PERI DUO and a practical session where participants could experience one of the most powerful features of the product – the extremely low weight.

Being aware of the challenges that Hong Kong faces, a shortage of workers and the need to meet a high demand for new residential properties in a short time, DUO aims to be the best ally of the Construction Industry in Hong Kong because it is

efficient, versatile and economic. One of our main interests is to continue working with the CIC and our clients in joint efforts to ensure the safety of workers. DUO Formwork incorporates scaffolding components that can be combined with other PERI scaffolding to ensure greater safety. We firmly believe that the flourishing of Hong Kong as a prosperous and dynamic city lies, among others, in the strength of its institutions, for that reason it is on our best interest to join efforts with the Construction Industry Council and other public and private organizations to continue propelling the development of our city.

### ALPHAKIT

New 300 kN crane independent shoring for medium to heavy bridge construction



ALPHAKIT is the new construction kit for shoring solutions up to 25 m height and span. The system features few lightweight individual components and quick-connect fitting pins for tower and truss applications.

#### **Easy pre-assembly without a crane**

with easy to handle, lightweight individual components

#### **Fast assembly**

due to high load-bearing fasteners with only 2 fitting pins per connection

#### **Only few components**

with variable application make the system simple and cost-efficient

# PERI participating in building a sustainable environment

**Contractor**  
Leighton – LNS JV  
**Field Service**  
PERI (Hong Kong) Limited

Harbour Area Treatment Scheme Stage 2A, Hong Kong



Circular Shaft Form constructed with VARIO GT 24 Girder Wall Formwork and the RCS Rail Climbing System.

To restore Hong Kong's Harbour to a more natural and healthier condition, the Government implemented the Harbour Area Treatment Scheme (HATS), which is one of the most important environmental protection programmes ever undertaken in Hong Kong. The HATS Stage 2A involved the construction of a sewage conveyance system on the Southern part of Hong Kong Island. PERI provided a solution of combining VARIO GT 24 Girder Wall Formwork with the RCS Rail Climbing System for the construction of the

shaft to Leighton – LNS JV. VARIO panels were pre-assembled on the ground to reduce the requirements to work at height. Due to the 125 mm hole arrangement of the climbing rails, the platforms can be climbed in any increment of 125 mm, therefore the climbing height could be optimally adapted to suit the respective storey height. A fast, reliable and trouble-free operation was ensured during the hydraulic climbing of the shaft lining formwork. With PERI's comprehensive engineering solution, the JV ensured

both productivity and efficiency were achieved. Various shaft shapes were constructed, including elliptical and circular, all of which were climbed using PERI hydraulic climbing systems. PERI provided on site support throughout the project, offered advice during assembly, installation, climbing and dismantling. PERI look forward to working closely with both contractors again in the future, and on many more climbing projects in Hong Kong.

VARIO GT 24 wall panels can be man-handled.



VARIO elements in a circular arrangement, pre-assembled on ground.



Turnbuckle arrangement for simple striking.





## NEW – ACS Core 400 Climbing System Single Stroke Self-Climbing Formwork

The new PERI ACS Core 400 Climbing System makes forming concrete cores on high-rise buildings faster, safer and more efficient than ever before. The new heavy duty hydraulics lift the entire platform, placing boom, formwork and suspended external platforms to the next level in only 20 minutes. Reduced assembly times result in labor savings and increased safety.

- Comfortable, high load-bearing working platform
- Economical anchor technology
- Quick, safe climbing in one lift





## PERI logistic capabilities in South East Asia

Our storage facility in Tin Shui Wai, New Territories, spans over 5,000 square meters, and is backed up with the largest logistics network among all formwork companies in Asia. With continuous development, PERI strives to be the largest formwork, scaffolding and shoring provider in Hong Kong.

The PERI Stockyards across the APAC region enable us to handle projects of all sizes and specifications. We permanently store the comprehensive PERI product portfolio in big quantities. As a result, we are always able to deliver according to the requirements of your project. Furthermore, an efficient Supply Chain Management guarantees fast handling of your order.

The photos used in this brochure feature certain situations at particular moments on various construction sites. Additional images, e.g. regarding safety and anchor details, cannot always be considered as conclusive or final. These are subject to the risk assessment carried out by the contractor.

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**PERI (Hong Kong) Limited**  
**Formwork Shoring Engineering**  
 19D, Tower B, Billion Centre  
 1 Wang Kwong Road  
 Kowloon Bay  
 Tel. +852 3102 7900  
 Fax +852 3188 9258  
 info@perihk.com  
 www.perihk.com