



The Utraconians



About UTRACON

Incorporated in 1998, UTRACON was then a local start-up in Singapore poised to compete in a highly competitive post-tensioning market against the established specialists primarily from Europe. Through sheer hard work and excellent work ethics, we won over many clients from our competitors and by the turn of the millennium, we had emerged as the largest post-tensioning specialist contractor in Singapore. We are still retaining this reputation to date, not only being the largest by market share, but also the most competitive one.

Having earned a market reputation as a trusted and valued construction partner, UTRACON was always given opportunities to get involved as a first-timer in various specialist works of a bridge construction project, besides the existing post-tensioning works. Such a privilege granted must be accredited to our engineers who were not only proficient at engineering fundamentals, but also capable in providing practical and cost-effective solutions. This was instrumental in our next phase of business expansion into a full-fledged specialist contractor in the bridge construction sector. With experiences and expertise accumulated over the years, we are now being recognised as the market leader who could provide one-stop shop specialist services and construction engineering for bridges.

Today, UTRACON is a strong 1000-staff specialist engineering firm with presence in more than 15 countries. Our staff are passionate about delivering the highest standards of performance in all our projects and to all our clients. We strive at all time to ensure timely completion of a project within the budget and without compromising on quality and safety. We proudly call ourselves Utraconians.

#This brochure was first created in year-2018 to commemorate the 20th year anniversary of UTRACON.

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We have ventured into many burgeoning markets in Southeast Asia, South Asia, MENA and East Africa; we could expand to any where upon your request.

SOME OF OUR PROJECTS

UGANDA
Jinja Bridge

MYANMAR
Gyaing Kawkareik Bridge, Oo Yin Chaung Bridge, Tamwe Flyover

U.A.E
Al Nahda Link Road

ALGERIA
East-West Highway

LAOS
Hin Heup Bridge

BRUNEI
Telanai Flyover

INDONESIA
Jakarta Elevated Busway, Jakarta Elevated Highway, Musi Bridge, Pancoran Flyover

VIETNAM
Bac Hung Hai Bridge, Ecopark Bridge, Hanoi MRT Viaduct

BANGLADESH
Kanchpur Second Bridge, Dhaka MRT Viaduct

SRI LANKA
Manampitiya Bridge, Kallady Bridge

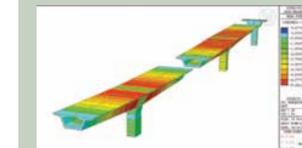
MALAYSIA
KL-Putrajaya Highway, Shah Alam Flyover, Kuala Lumpur MRT Viaduct

SINGAPORE
Airport Road Viaduct, Marina Bayfront Bridge, KPE Viaduct, Braddell Flyover, Seletar Link Bridge, Singapore MRT Viaduct

BEARINGS & EXPANSION JOINTS (EJ)



CONSTRUCTION ENGINEERING (CE)



Prior to the construction of a bridge, it is essential to carry out a complete CE analysis to ensure the bridge could be constructed safely and accurately. This is because bridge structures are normally subject to more severe temporary load cases and deformations in the construction stages.

Our engineers and professionals are able to provide the CE services in accordance with the state-of-the-art practices and in conformance to international design codes such as AASHTO, Eurocode, BS Standards or specific codes of any countries. Our services include:

- Stage by stage and time dependent analysis
- Stress check and deflection calculation
- Precamber design
- Camber control programme
- Geometry control
- Survey monitoring plan
- Temporary works design and shop drawing
- Method statement and work procedure
- Value engineering and alternative design

HEAVY LIFTING & SLIDING



STRUCTURAL STRENGTHENING



CONSTRUCTION ENGINEERING / BEARINGS & EXPANSION JOINTS / HEAVY LIFTING & SLIDING / STRUCTURAL STRENGTHENING

THE ONE-STOP SPECIALIST
FOR ALL BRIDGE CONTRACTORS





We possess technical expertise and operational capabilities in any kind of Specialist Works that you might need for your bridge projects.

STAY CABLE (SC)



Stay Duct Welding



Cable Installation



SC Equipment Setup



SC Stressing



Stay Duct Installation

FORMWORK & FALSEWORK SYSTEMS



Auto Climbing System (ACS)



Crosshead Formwork



Girder Moulds



Wall Form



Heavy Duty Scaffolds

POST-TENSIONING (PT) DYWIDAG



Duct Laying



PT Stressing



PT Grouting



PT Anchorages



Jack Calibration



External PT

INCREMENTAL LAUNCHING METHOD (ILM)



ILM for Concrete Bridge



Pulling Method



Computerised Central Control System



ILM for Steel Bridge



Jack-and-Push Method

FORM TRAVELLERS (FT)



Overhead FT



Underslung FT

POST-TENSIONING / STAY CABLE / IN-SITU FORMING / INCREMENTAL LAUNCHING



We can collaborate as your Specialist Subcontractor, Solution Provider, System Designer, Equipment Supplier or in any form that suits your project planning and budget.

PRECASTING (PCa)



Segment PCa Yard



Girder PCa Yard



Skate Beam



Long-Line Method



Short Line Method



Mini Gantry



PCa Crosshead



PCa Wing Slab

LAUNCHING GANTRIES (LG)



Heavy Duty LG



Light Duty LG



Medium Duty LG



Single Span LG



Wide LG



Slim LG

GIRDER LAUNCHING



Full Span Launching



Girder Launching



Launched by Crawler Cranes



Launched by Portal Cranes



Side Lifting



Rear Feeding

SEGMENTAL ERECTION



Cantilever Segment Erection



Crossover Erection



EJ Segment Erection



Launched by Crane



Segment Holder



Span-by-Span Method

TRANSPORTERS



Rail Car on Deck



Tyred Buggie on Ground



Tyred Buggie on Deck

PRECASTING / DELIVERY & ERECTION METHODS / LAUNCHING TECHNIQUES