TUNG FENG

Construction Engineering Co., Ltd.

Company Introduction

Complete solution to foundation construction:

Founded in 1978, **Tung Feng** specializes in big-bore piling work and Diaphragm wall construction. We have accomplished many challenging projects in Taiwan and around Asia. For example, Taipei 101, Chinese Petroleum Headquarter, Jing Hwa shopping Mall, Taiwan Semiconductor Manufacturing Company factory 14B, Taiwan High Speed Railway, Pacific Plaza Hanoi, Keagnam Landmark Towers Hanoi and many more. We are an expert in underground construction for luxurious residential projects, office skyscrapers, public projects such as metro systems and railway systems. Equipped with our patented top-down column installation and many self-innovated construction methods, and a fleet of machines and equipments that's second to none in quality and quantity to our competitors, we deliver the engineering perfection anytime, anywhere.

Company philosophy:

To provide total underground construction service anytime, anywhere, and in the most high quality, economical, efficient, and environment-friendly way possible.

Founded In Taiwan Foundation Service For The World

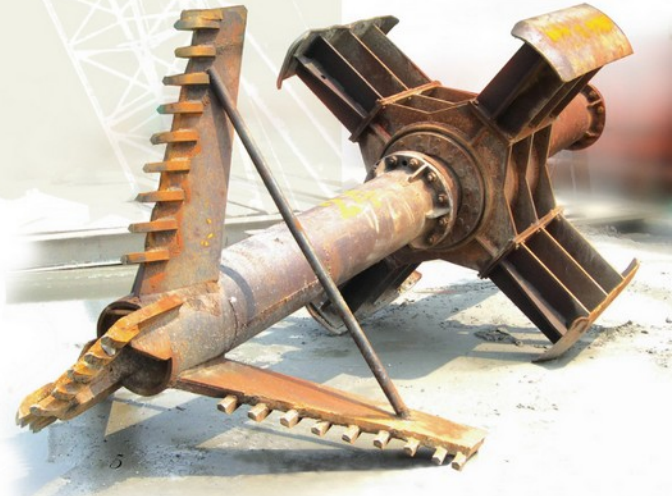
Quantities of Bore Pile and Diaphragm Wall completed until today

- > 45000 Piles
- > 940000 M2

TUNG FENG

TUNG FENG

Construction Machines & Equipments

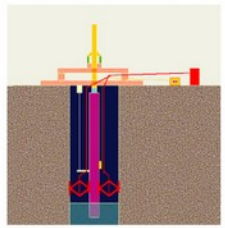


Solid Base For Tower To The Sky

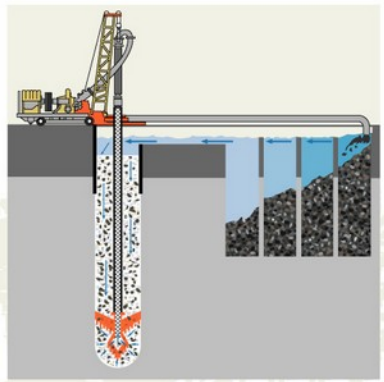
Achievements

Taipei 101

Tung Feng contracted Taipei 101 piling work in 1998, it was the tallest building in the world until surpassed by Dubai Tower in year 2007. With a total height of 508M , this project consisted of 544 piles of depths ranging from 61.6M to 80.6M and entering rock layer from 15M to 30M. It set many records at that time; first time massively using jet cleaning and grouting method at pile toe(400 piles), working 24 hours for 8 months and at peak period having 8 Reverse Circulation Drilling rigs operating at the same time. We also proved that our self-made Reverse Circulation Drilling rig was capable of entering inter-layered sandstone and shell layer 30M deep.

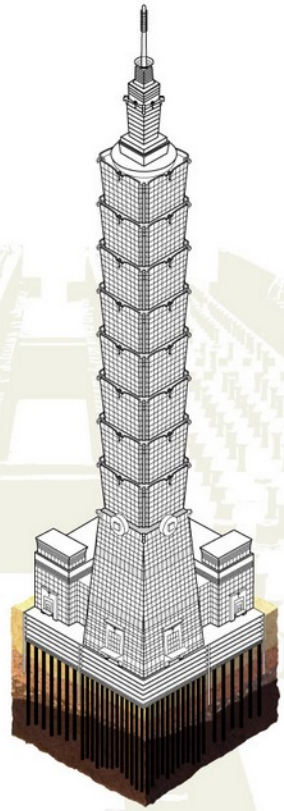


Top-Down Steel Column Installation



R.C.D

- Reverse Circulation Drilling Method
  (Up to 3.5M Diameter Capability By TF)
- Patented Top-Down Steel Column Installation Method
- 544 Piles
- Piles Diameter From 1.5 To 2.0 M
- Depth Up to 80.6M
- Entering Rock Layer Up To 30 M
- Site Operating 24 Hours For 8 Months
- 8 RCD Drilling Rigs Operating At Same Time

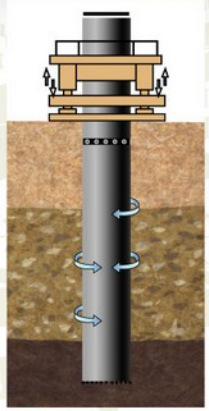


Feet For The Land Rocket

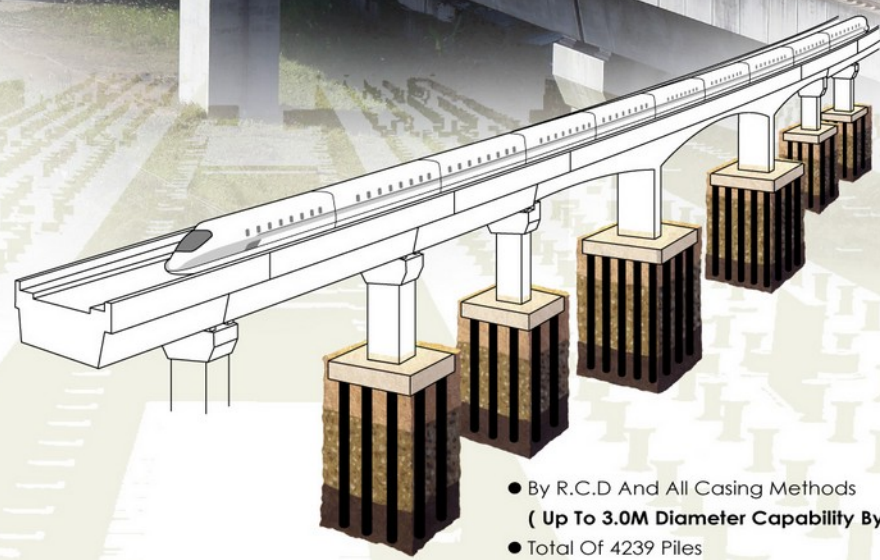
Achievements

Taiwan High Speed Railway

The Taiwan High Speed Rail (HSR) shortens travel time between Taipei & Kaohsiung to as little as 80 minutes on its non-stop route. This as compared to 50 minutes by air, 4 hours and 45 minutes by regular train and 6 hours by car, is very fast indeed. Taiwan HSR set a record to be the biggest and most expensive BOT project in the world, the route of the rail runs through the populated west coast of Taiwan Island and links the City of Taipei at its northern end and City of Kaohsiung at its southern end. The geological conditions along the route vary tremendously, from rock mountains in the north to thick sedimentary deposits in the south, and with Taiwan being in an earthquake prone region, it required extremely high level of construction engineering skill. Tung Feng was proud to contract the piling work for HSR projects C210, C215, C270 ,C280 and Chiayi HSR station. With the train constantly traveling at 300KM/H, foundation stability was required to be the highest possible level.



All Casing



- By R.C.D And All Casing Methods
  (Up To 3.0M Diameter Capability By TF)
- Total Of 4239 Piles
- Depth Up To 80M
- Pile Diameter Up To 2.0M

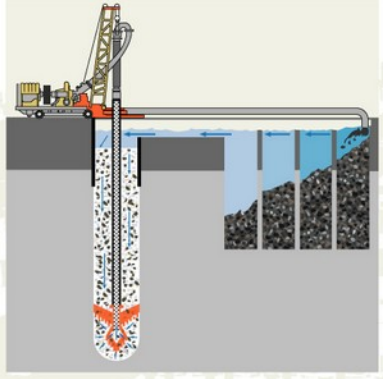
Roof Of Vietnam

Achievements

Keangnam Hanoi

As United States Of America has the Empire State Building, Malaysia has the Petronas Twin Towers, Taiwan has the Taipei 101, and it all has one thing in common, it is the representative tower of the country. Same goes with the Keangnam Landmark Tower as being Vietnam's tallest building. This complex of residence, hotel and office includes a 70-story office tower with the height of 336M and two 47-story residence towers. The compound is located on an area of 46,000 M2 and with total floor area of 579,000 M2, ranking 5th for the floor area of a single building in the world. The Keangnam Landmark Tower signifies the strength and security like it would represent the country's economic status.

Marvel superstructures begin with an admirable foundation and extend upwards to the infinite sky. **Tung Feng** is honored to contract the piling work and help in the process of creating history for Vietnam, the Keangnam Landmark Tower will reside its name in the history book of Socialist Republic of Vietnam.



R.C.D

- By R.C.D Method **(Up to 3.5M Diameter By TF)**
- 630 Piles
- Diameter ranging from 1.5 to 2 M
- Deepest piles up to 66M

TUNG FENG

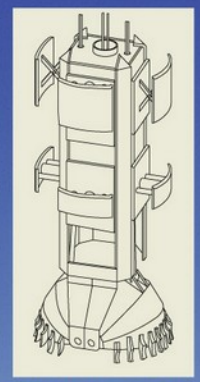
Golden Foundation

■Achievements

The Treasure Palace

Years ago, some observers were dumbfounded when Hung Sheng Development Ltd launched the landmark residential complex Treasure Palace in central Taipei. With the selling price of NT$1 million (US$30,400) per ping (3.3M2), it set a record in Taiwanís residential market history as the most expensive and luxurious condominium ever built in Taiwan. Brandishing luxury decor, a top location, roomy interiors, and highest level of safety against earthquake and other natural disaster, the Treasure Palace complex was the nation's most expensive top-end residence with price up to NT$300 million per unit.

Tung Feng was proud to contract its piling work as the complex demands the highest level of engineering perfection to match its sky-high selling price and rock solid foundation design.



Guided Hydraulic Grab

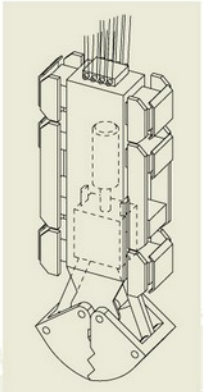
- Using Guided Hydraulic Grab Method **(Up To 3.5M Diameter Capability By TF)**
- 198 Piles
- Diameter Up To 2.8M
- Pile Depth Up To 48.5M
- First Time Ever Massively Using Guided Hydraulic Grab Method In Taiwan

Home Of Technology

Achievements

The Yale Office Building

The Yale Office Building is one of the many office buildings **Tung Feng** has done in the Neihu Technology park in Taipei, the home of many High-Tech companies from all over the world, and is where **Tung Feng's** headquarter is located. The Yale Office Building was also **Tung Feng's** first Diaphragm Wall and Barrette Pile project and we accomplished it with the highest level possible with our self-made Hydraulic Grabs, which are heavier and bigger to ensure a higher level of precision, and help to save a great deal of time for our clients.



Bucket-Type Hydraulic Grab

TF's Hydraulic Bucket

- Much heavier than those on the market to ensure verticality and higher precision.
- Direct penetration into gravel, boulder and rock strata without pre-boring.
- Designed to excavate faster than regular grabs.
- Over Lap Joint for D/W Panels, not only water stop but also permanent structure wall for basement.

- By Bucket Type Hydraulic Grab Method
- By TF's Self-Made Hydraulic Grab up to 5M Per Grab
- Wall thickness from 90-100CM
- Depth up to 39M entering rock layer 2M on average
- Total quantity of 27000M2