

CIVIL
ENGINEERING
FORMWORK
SYSTEM



kumkang Kind



Global Kumkang Kind

Kumkang Kind is proud to have its products in more than 30 countries around the world. With the globalization, we have set up a global network: Kumkang America Inc., Kumkang Kind Malaysia, Kumkang Kind Vietnam, Kumkang Kind India, Kumkang Kind East Africa and Kumkang Kind Indonesia are acting as Kumkang Kind's representatives in their respective regions.

As Kumkang Kind has established several agents and distributors, wherever you go, you will always find our products nearby.

Overseas Branch Offices



● Headquarters

21 Saemal-ro 5-gil, Songpa-gu, Seoul, Korea

● Kumkang Kind India

Office no.404, 4th floor, Sky Vista Bldg., near Town Square Dorabjee,
Viman Nagar, Pune-411014, Maharashtra, India

● Kumkang Kind Malaysia

B-9-01, Block B, Oasis Square No.2, Jalan PJU 1A/7A
Ara Damansara 47301 Petaling Jaya Selangor Darul Ehsan, Malaysia

● Kumkang Kind Vietnam

9th, Beautiful Saigon BLDG., 02 Nguyen Khac Vien St, District 7,
Ho Chi Mihn City, Vietnam

● Kumkang Kind East Africa

Office 5, 4th Floor, Tower 1, The Mirage Chiromo Rd., Westlands
Nairobi, Kenya

● Kumkang Kind Indonesia

Gedung Wisma Slipi Unit 801, Jl..Let. Jend. S. Parman Kav. 12
Jakarta, Indonesia

● Kumkang Kind America

1215 W. Imperial HWY., Ste 216 Brea, CA 92812 USA

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Kumkang Kind History

70's

79. 08 Establishment of Kumkang Kind Co., Ltd.

80's

87. 09 Obtained KS certificate [panel form]
88. 09 Listed on the Korean Stock Exchange
89. 06 Completion of Banwol factory

90's

90. 01 Completion of Eonyang factory
92. 01 Completion of Busan factory
92. 05 Obtained KS certificate
[pipes for ordinary, pressure and structural]
92. 07 Obtained quality certificate from
Japanese scaffolding association
92. 11 Achieved \$10 million in exports
93. 02 Obtained JIS Certificate [structural pipe]
99. 05 Obtained ISO 9002 Certificate

00's

03. 04 Completion of Jincheon #1 Factory
03. 12 Obtained ISO 9001 Certificate
05. 10 Establishment of Research and
Development department
06. 05 Completion of Jincheon #2 Factory
06. 12 Completion of Eumseong Factory
07. 09 Establishment of Kumkang Kind (M) Sdn.
Bhd as a subsidiary in Malaysia
08. 06 Obtained KR [The Korean Register
of Shipping] Certificate
09. 10 Completion of Nilai Factory in Malaysia
09. 11 Achieved \$30 million in exports

10's

10. 01 Establishment of Kumkang Kind America
10. 06 Establishment of Kumkang Kind Vietnam
11. 11 Achieved \$50 million in exports
12. 01 Changed Jincheon #2 Factory into
Jincheon Modular factory
12. 09 Completion of Eumseong #2 factory
12. 10 Establishment of Kumkang Kind India
12. 12 Achieved US\$ 70 million in exports
13. 01 Merged Kumkang Fostem Inc.
14. 12 Achieved \$100 million in exports
15. 03 Completion of Changnyeong Factory
15. 08 Completion of Cheonan Modular Factory
17. 03 Establishment of Kumkang Kind East Africa
17. 04 Establishment of Kumkang Kind Indonesia
17. 10 Relocated our Modular factory to Changnyeong Factory



Unrivaled manufacturing capacity

Kumkang Kind's Changnyeong Factory is specialized in producing special formwork, shipbuilding materials, and scaffolding materials.

Scaffolding materials include safety decks which are used in building inner parts of LNGC (Liquefied Natural Gas Carrier). Our safety decks are internationally known for their reliability, safety, quality and durability.

Special formwork includes K-Steel or K-Wood formwork that customizes for each individual infrastructure project along with small accessories such as clamp, pipe supports, and other scaffolding related materials. Furthermore, K.G.B (Kumkang Gang-form Bracket), Q.S.S. are all produced in this multi-manufacturing facility.

Manufacturing Facilities



Changnyeong factory



Eumseong #1 factory



Eumseong #2 factory



Jincheon #1 factory



Jincheon #2 factory



Eonyang factory



Nilai factory in Malaysia

Quality guarantee and unsurpassed support

Listening to your needs and providing solutions have been the hallmark of our business since day one. We design products that meet your requirements and demands, not ours. Special applications and custom design are a challenge, not a problem. That's why we lead the industry in developing solutions through new designs.

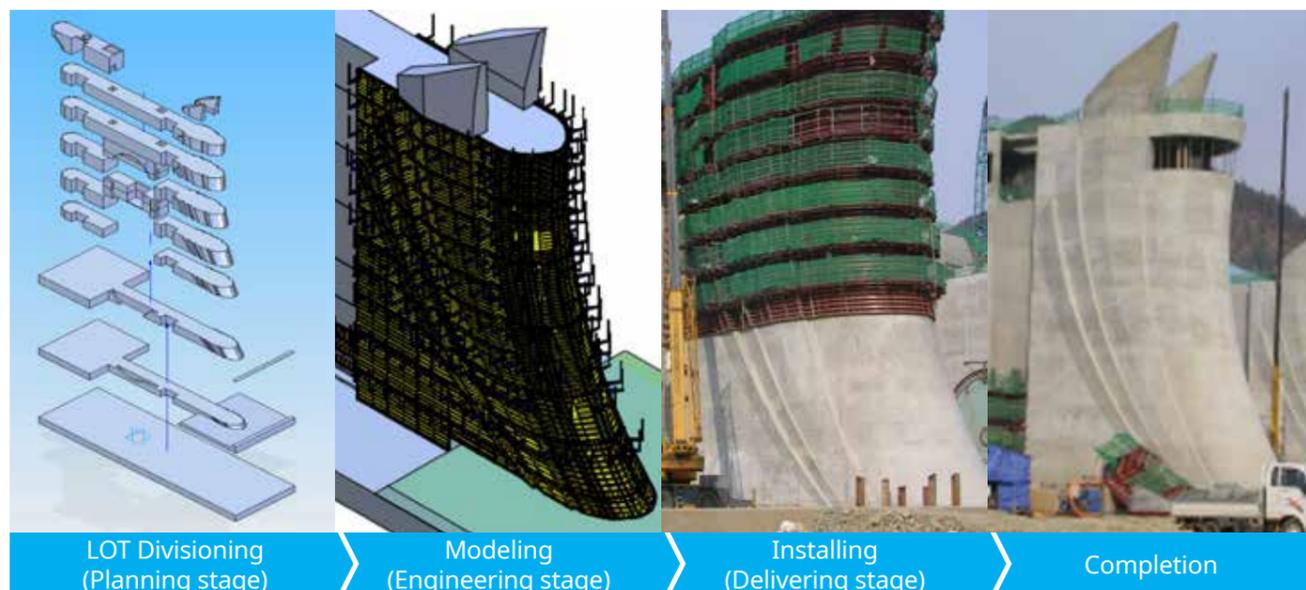
Kumkang Kind_Seoul Office
Korea

Technical Support

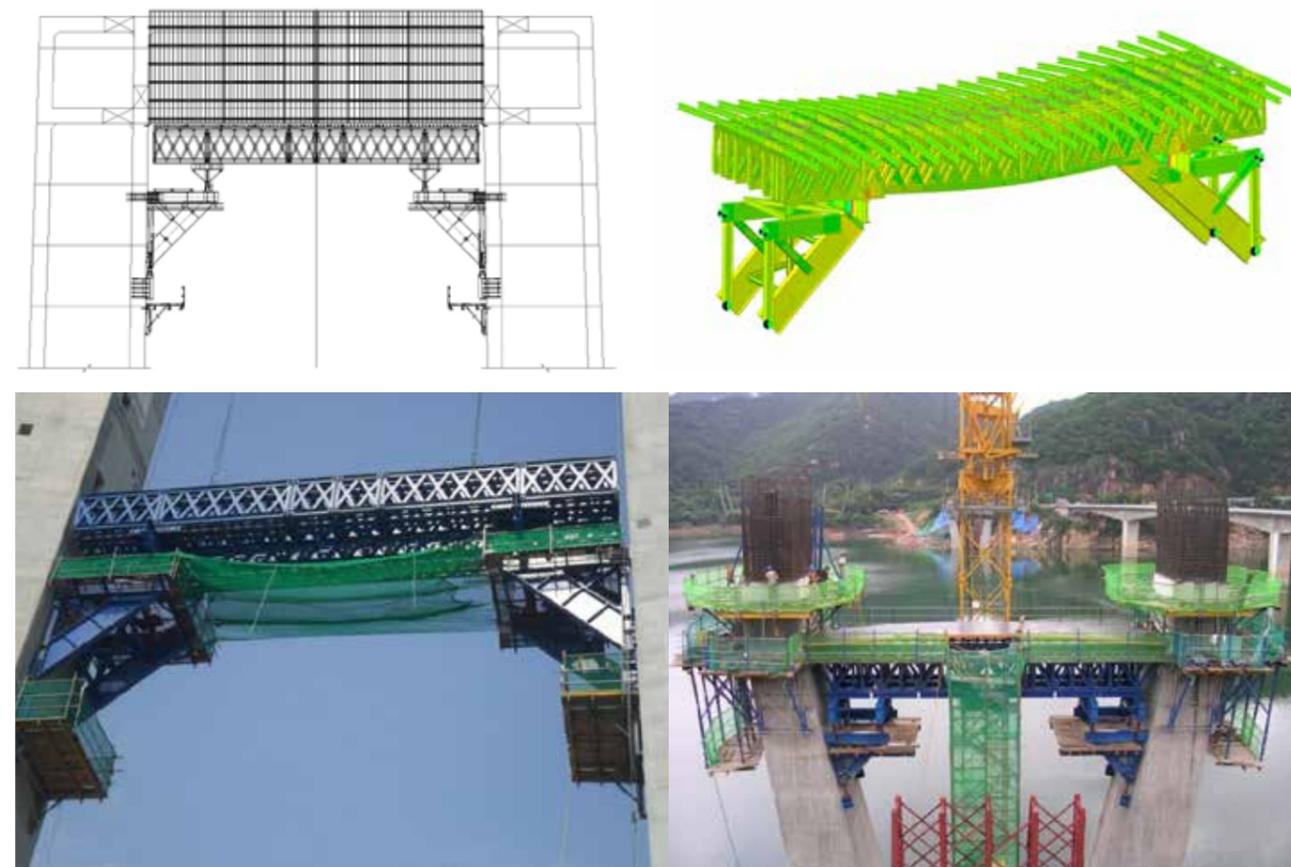
With stored technical background, Kumkang Kind is providing formwork engineering consulting service on apartment, multi-plex, bridgeworks, dams, and other storing facilities on both Infrastructure and architectural structures.

+ Special steel form

- Site: Ham-an Dam
- We were able to bring 100% from original concept by generating 3D modeling on every LOT.

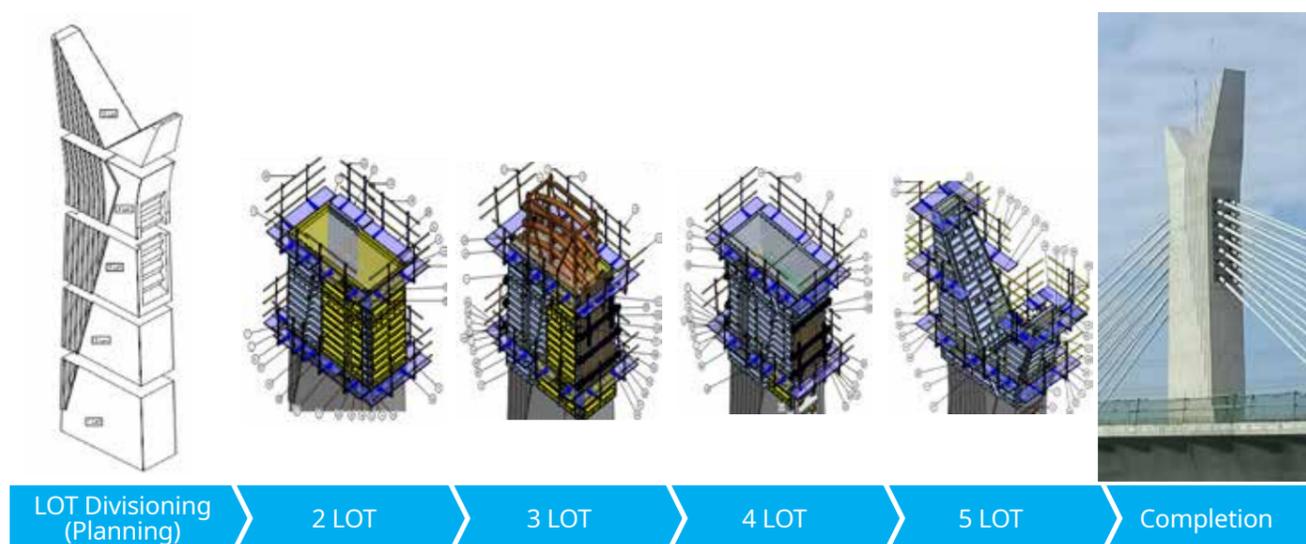


+ Pylon cross beam



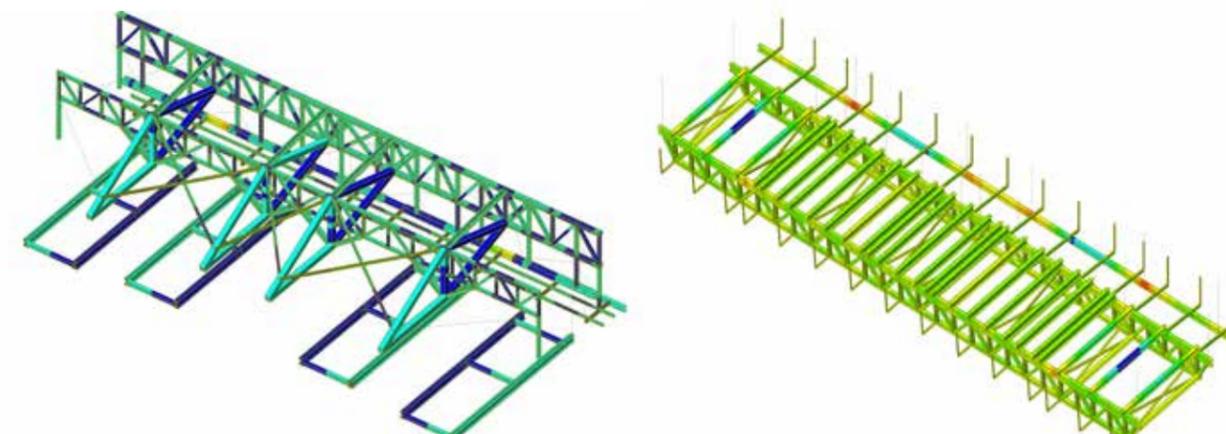
+ Special steel form

- Site: Tae-in 2nd Bridge
- Every LOT has a section transition in all axis, which we were able to maintain accurate engineering by 3D modeling.



+ Form Traveler (F/T) 3D modeling structural analysis

- Kumkang Kind's Form Traveler is acknowledged for its technology on considering con'c load, dead load, live load. it also brings safe engineering by 3D Modeling.



Rigorous Supervision

We provide strict supervision service to enhance efficiency and safety



The most effective way of achieving high level of safety when using the formwork system is to have reliable supervision during erection and concrete pouring. Supervisors must assure that the formwork delivered is manufactured as per the client's design, so that no time is lost during its installation but under a safe working environment. Our experienced supervisors always check whether the formwork system is assembled and installed properly.

Many accidents could occur from handling the formwork materials when jobsite workers, particularly who are inexperienced, use machine and equipment or handle heavy and large materials without proper training.

Jobsite workers' safety is greatly dependant on proper information, instruction, training, and supervision.

Staff must be:

- Informed and trained, so that they understand the nature of risks to their health and safety, or that of other, from the work they do and the measures necessary to adequately control them.
- Supervised to ensure that they follow the instructions and training given to them.
- Involved in the health and safety management system and decision-making process.



Infrastructure Formwork System

From longest bridge to deepest immersed tunnel.

Kumkang Kind's formwork system not only apply for skyscrapers but also apply on social overhead capitol projects such as Bridgework, Dam, LNG Tank, Roadwork, Tunnel, Stadium, Control Tower. any special structure can be maintain and provide with our stored knowledge and database that will bring customer's demand with optimized system.

Particularities of Aluminum & Wood formwork

Our large area formwork is made of plywood and timber beam/aluminum beam and steel waling. With its freedom of design, this formwork system will be efficiently used in any shape of structure.

- Through our extensive formwork experience, our Kumkang Kind engineers shall consider the jobsite condition and formwork usability of the workers to design the most effective large area formwork.
- As plywood will be used as formwork face, it will be easily adaptable for any architectural or structural changes.

+ Samsung Electronics S3 factory - Korea



+ Samsung Electronics GCS-block - Korea



+ Incheon International Airport - Korea



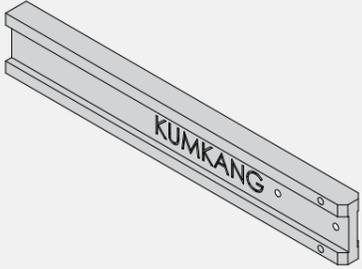
K-Wood Formwork

Kumkang wood formwork system

Samsung Electronics S3 factory _Hwasung, Korea

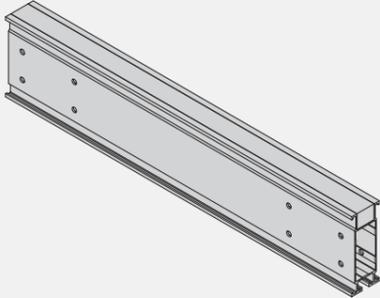
Article List

Timber beam H20N



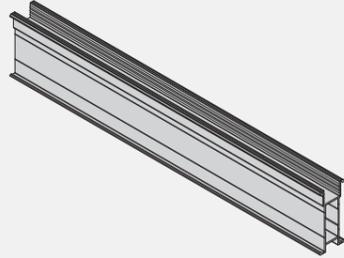
Components (mm)	Weight (kg)	Article No.
Timber beam H20 1.80m	9.5	K0110010
Timber beam H20 2.45m	12.8	
Timber beam H20 2.65m	13.8	
Timber beam H20 2.90m	15.0	
Timber beam H20 3.30m	17.0	
Timber beam H20 3.60m	18.5	
Timber beam H20 3.90m	20.0	
Timber beam H20 4.50m	23.0	
Timber beam H20 4.90m	25.0	
Timber beam H20 5.90m	30.0	
Timber beam H20 m	5.2	

AL-beam H200



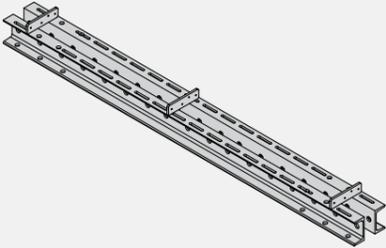
Components (mm)	Weight (kg)	Article No.
AL-beam H200 1.00m	7.2	K0110020
AL-beam H200 2.00m	14.4	
AL-beam H200 2.50m	18.0	
AL-beam H200 2.70m	19.4	
AL-beam H200 3.00m	21.6	
AL-beam H200 3.40m	24.5	
AL-beam H200 3.80m	27.4	
AL-beam H200 4.00m	28.8	
AL-beam H200 5.00m	36.0	
AL-beam H200 m	7.2	

AL-beam H175



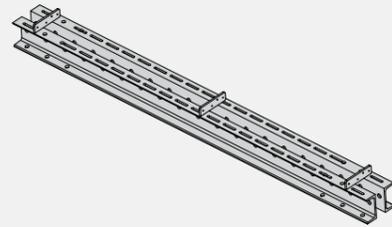
Components (mm)	Weight (kg)	Article No.
AL-beam H175 1.00m	5.7	K0110030
AL-beam H175 1.50m	8.6	
AL-beam H175 2.00m	11.4	
AL-beam H175 2.50m	18.0	
AL-beam H175 3.00m	14.3	
AL-beam H175 3.50m	20.0	
AL-beam H175 4.00m	22.8	
AL-beam H175 5.00m	28.5	
AL-beam H175 m	5.7	

Steel waler CH100



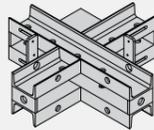
Components (mm)	Weight (kg)	Article No.
Steel waler CH100 0.50m	10.2	K0110040
Steel waler CH100 0.75m	14.9	
Steel waler CH100 1.00m	19.6	
Steel waler CH100 1.25m	24.7	
Steel waler CH100 1.50m	29.7	
Steel waler CH100 1.75m	35.0	
Steel waler CH100 2.00m	38.9	
Steel waler CH100 2.25m	44.2	
Steel waler CH100 2.50m	48.7	
Steel waler CH100 2.75m	54.2	
Steel waler CH100 3.00m	60.2	
Steel waler CH100 3.50m	68.4	
Steel waler CH100 4.00m	79.4	
Steel waler CH100 4.50m	89.1	
Steel waler CH100 5.00m	102.0	
Steel waler CH100 5.50m	112.4	
Steel waler CH100 6.00m	118.0	

Steel waler CH125



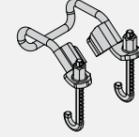
Components (mm)	Weight (kg)	Article No.
Steel waler CH125 1.00m	25.3	K0110050
Steel waler CH125 1.25m	32.0	
Steel waler CH125 1.50m	37.5	
Steel waler CH125 1.75m	44.2	
Steel waler CH125 2.00m	50.0	
Steel waler CH125 2.50m	63.1	
Steel waler CH125 3.00m	75.7	
Steel waler CH125 3.50m	90.7	
Steel waler CH125 4.00m	103.4	

In-Corner waler



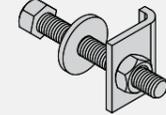
Components (mm)	Weight (kg)	Article No.
In-Corner waler	23.5	K0110260

Flange clamp



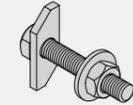
Components (mm)	Weight (kg)	Article No.
Flange clamp	1.0	K0110190

Beam screw S 8/60



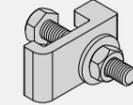
Components (mm)	Weight (kg)	Article No.
Beam screw S 8/60	0.06	K0110180

Al-beam bolt



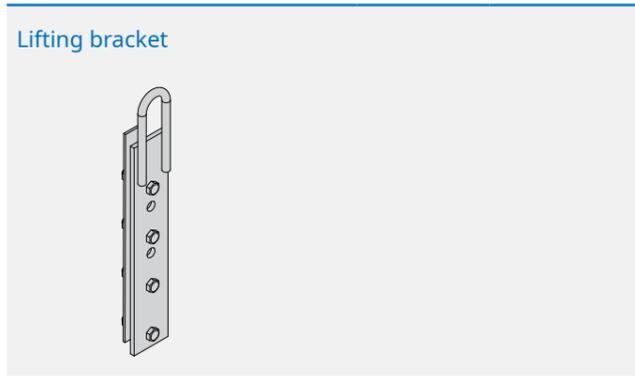
Components (mm)	Weight (kg)	Article No.
Al-beam bolt	0.05	K0110080

Al-beam clamp

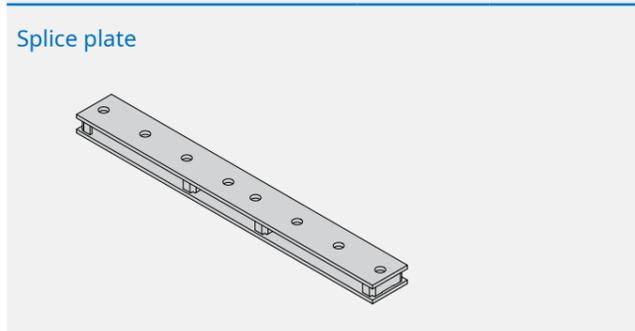


Components (mm)	Weight (kg)	Article No.
Al-beam clamp	0.1	K0110090

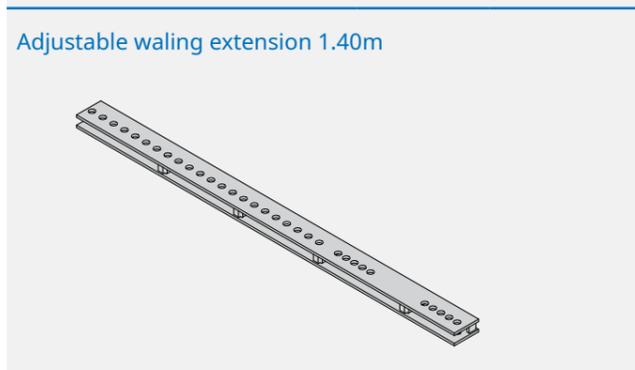
Article List



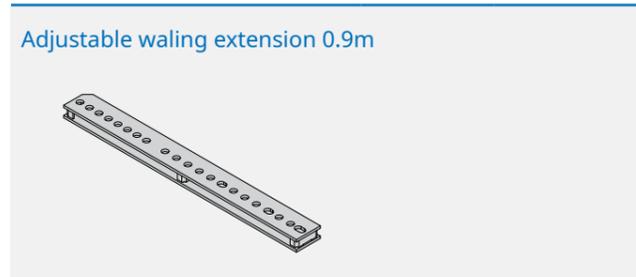
Components (mm)	Weight (kg)	Article No.
Lifting bracket	6.2	K0110330



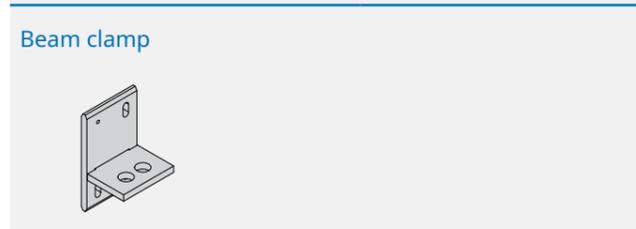
Components (mm)	Weight (kg)	Article No.
Splice plate	8.5	K0110130



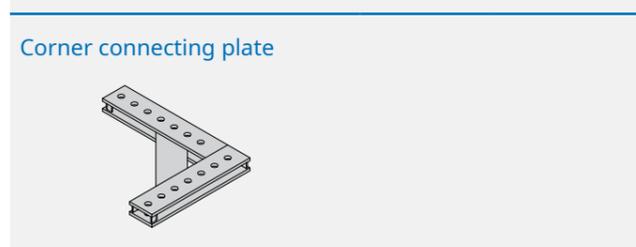
Components (mm)	Weight (kg)	Article No.
Adjustable waling extension 1.40m	15.0	K0110030



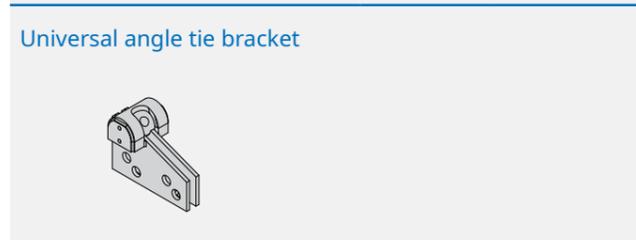
Components (mm)	Weight (kg)	Article No.
Adjustable waling extension 0.9m	9.1	K0110110



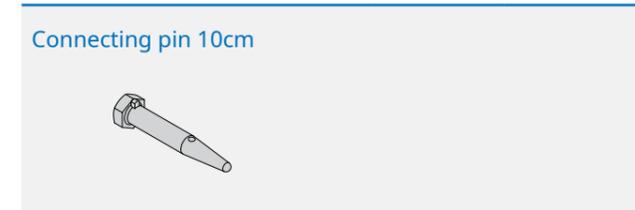
Components (mm)	Weight (kg)	Article No.
Beam clamp	1.2	K0110170



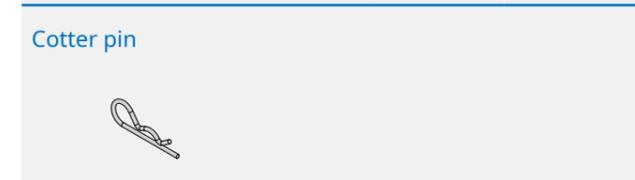
Components (mm)	Weight (kg)	Article No.
Corner connecting plate	10.0	K0110250



Components (mm)	Weight (kg)	Article No.
Universal angle tie bracket	4.4	K0110470



Components (mm)	Weight (kg)	Article No.
Connecting pin 10cm	0.34	-



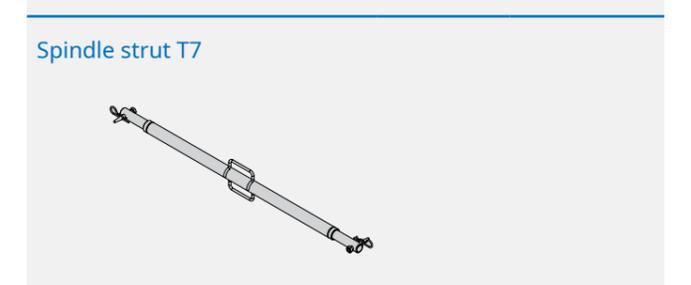
Components (mm)	Weight (kg)	Article No.
Cotter pin	0.05	K0110241



Components (mm)	Weight (kg)	Article No.
Panel strut 340	30.5	K0110340
Panel strut 540	49.3	K0110350



Components (mm)	Weight (kg)	Article No.
Extended spindle strut 5.5-8.5m	225	K0110391



Components (mm)	Weight (kg)	Article No.
Spindle strut T7 75/110cm	13.2	K0110370
Spindle strut T7 100/150cm	16.8	
Spindle strut T7 150/200cm	21.6	
Spindle strut T7 200/250cm	26.2	
Spindle strut T7 250/300cm	29.4	
Spindle strut T7 300/355cm	35.0	

Article List

Tie rod



Components (mm)	Weight (kg)	Article No.
Tie rod 15.0mm 1.00m	1.4	K0720030
Tie rod 20.0mm 1.00m	2.5	K0720040

Wing Nut



Components (mm)	Weight (kg)	Article No.
Wing Nut 15.0	0.3	K0720070
Wing Nut 20.0	0.4	K0720080

Anchor plate



Components (mm)	Weight (kg)	Article No.
Anchor plate 15.0	1.3	K0720050
Anchor plate 20.0	1.7	K0720060



Particularities of K-Steel Formwork

Designed and manufactured from our vast domestic/overseas experience and technical know-how, the reputation of our Kumkang steel formwork is as high as the sky!

Mainly used for civil construction, our steel formwork will help our clients to reduce its cost while increasing safety of workers. Made of high-strength steel, any structural shape shall be efficiently designed and manufactured by Kumkang Kind.

- Depending on the static calculation, the thickness of our steel formwork will be from 4 to 10 inches.
- Based on the client's requirement, our steel formwork can be stainless; thus it will increase its repetitiveness.

+ Bansom line of Busan subway - Korea



+ Dangjin Hyundai-Steel - Korea



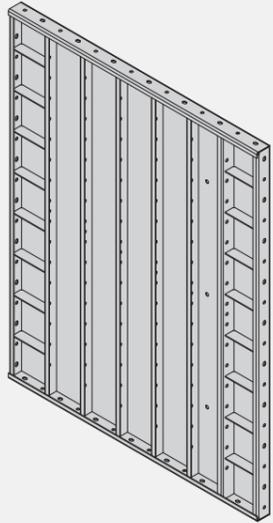
K-Steel Formwork

Kumkang steel & sus form system

Busan subway Bansom line_Busan, Korea

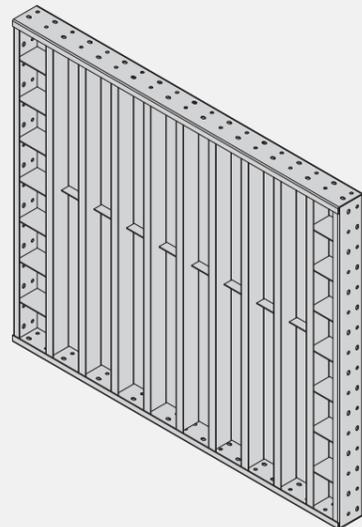
Article List

Sus form



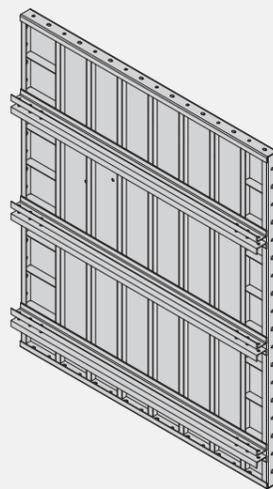
Components (mm)	Weight (kg)	Article No.
Sus form (2400~4200)W × (900~2400)L	75	K0120010

6 inch steel form



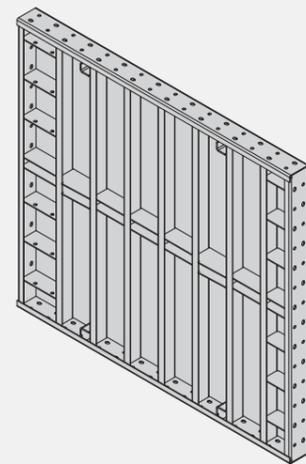
Components (mm)	Weight (kg)	Article No.
6 inch steel form (1500~2400)W × (900~2400)L	85	K0130020

4 inch steel form



Components (mm)	Weight (kg)	Article No.
4 inch steel form (900~4200)W × (900~2400)L	75	K0130010

8 inch steel form



Components (mm)	Weight (kg)	Article No.
8 inch steel form (900~3000)W × (900~3000)L	97	K0130030





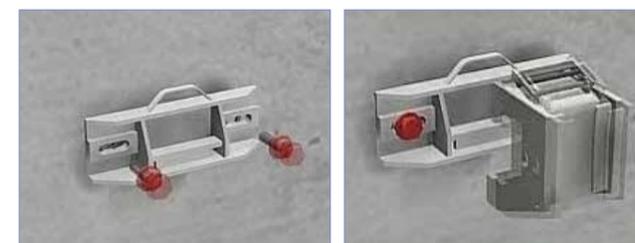
Particularities of KSC 100

Mostly applied on skyscrapers, and pylons, KSC 100 is an automated lifting system where hydraulic cylinders are located on every bracket to lift heavy weight platform simultaneously.

It is a safe and convenient system where accurate lifting operation can be done. KSC 100 is widely use on large structure such as, pre-constructing core, and pylon.

- A system separately lifting profile and platform
- Platforms are wide (3.0m) and contain multiple levels (6) that bring safe and circulation of construction work (pre assembling re-bars)
- Wireless remote controllers are provided to control hydraulics conveniently. (simultaneous lifting 15~20 brackets)
- Wall thickness alternation up to 20cm can be self correspond (adaptors can be apply on 20cm+)
- High casting height (below 4.5m) and alternation are corresponding smoothly that results on ease of managing schedule.
- slope of +/- 15 degrees can be manageable.
- By job site condition, overhead traveler, CPB can be installed on the system and operate.
- Cranes are not necessary except on initial installation and final disassemble.

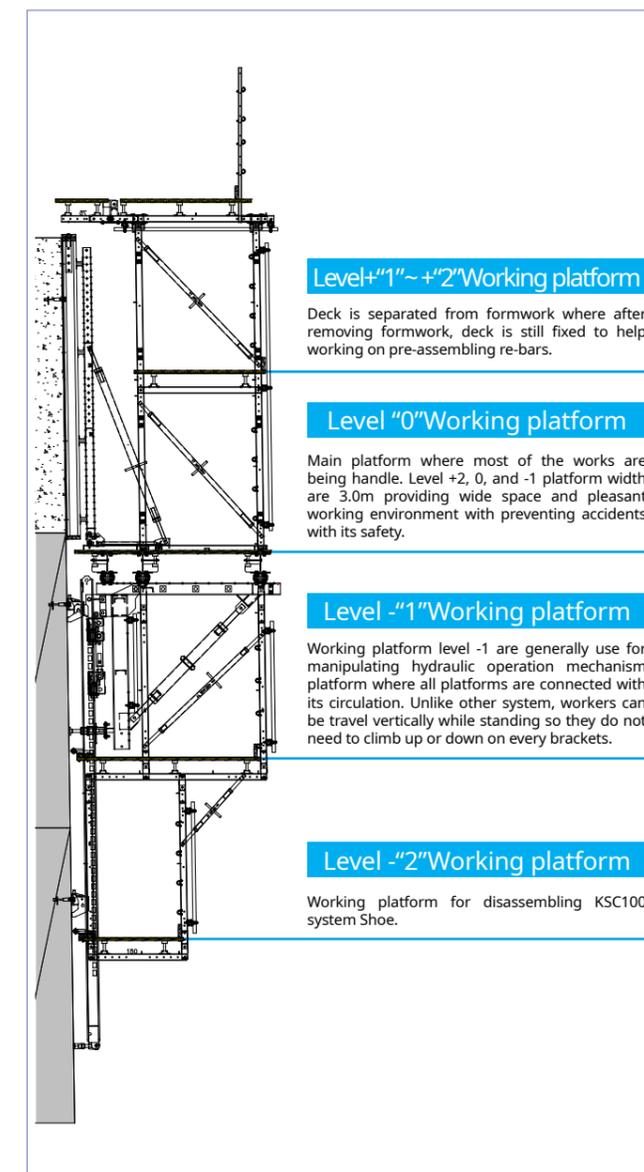
+ KSC 100 system shoe



System Specification

Allowable Lifting Weight	100kN [10ton]
Casting Height	3.0~6.0m [structure basis]
Lifting Velocity	5min/1m
Operation Driven	Hydraulic

+ KSC 100 typical section



KSC 100

Kumkang Self Climbing 100 - Hydraulic lifting

Busan port grand bridge Busan, Korea

Site Busan port grand bridge
Contractor Hyundai Indust. Develop JV
Location Busan, Korea
Purpose Span bridge (pylon)
System KSC 100



Particularities of KSC 50

Generally use on pylons, KSC50 contains hydraulic cylinders are located on every bracket to lift heavy weight platform simultaneously.

It is a safe and convenient system where accurate lifting operation can be done. KSC 50 is widely use on large structure such as, pre-constructing core, and pylon.

- A system separately lifting profile and platform.
- Platforms are wide (2.3m) and contain multiple levels (5) that bring safe and circulation of construction work.
- Wireless remote controllers are provided to control hydraulics conveniently. (simultaneous lifting 30~40 brackets)
- High casting height (below 4.0m) and alternation are corresponding smoothly that results on ease of managing schedule.
- slope of +/- 15 degrees can be manageable.
- Cranes are not necessary except on initial installation and final disassemble.

+ KSC 50 system shoe

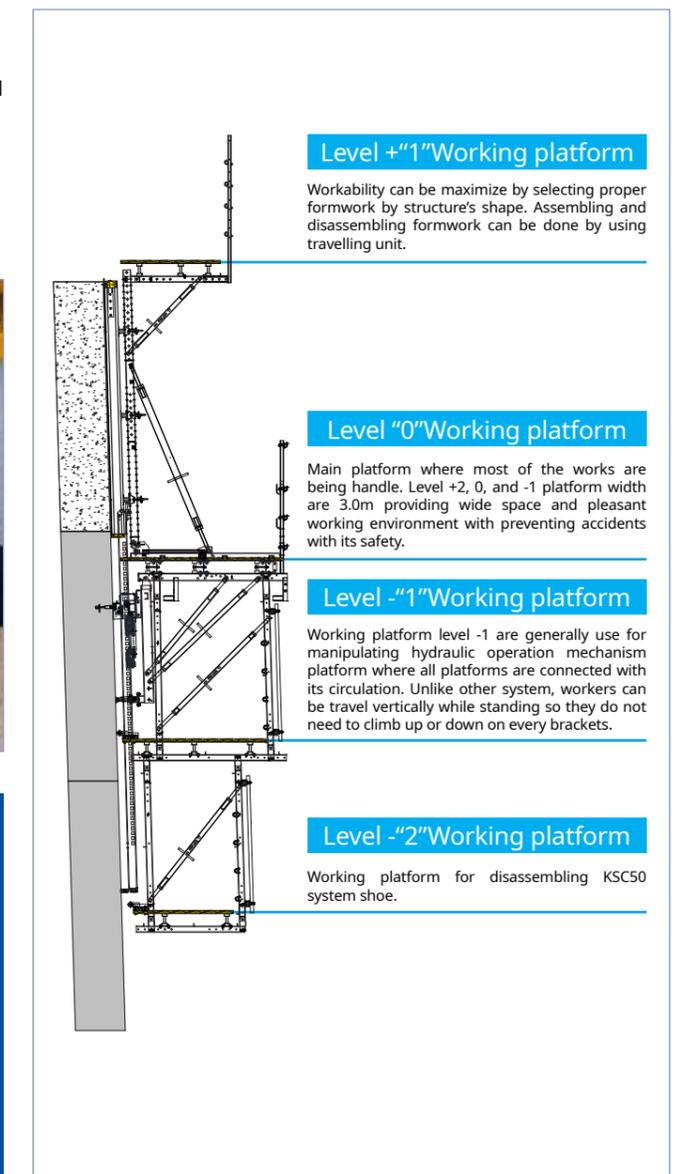


S i t e Palyung grand bridge
Contractor Chungjin Construction
Location Yeosu, Korea
Purpose Span bridge (pylon)
S y s t e m KSC 50

System Specification

Allowable Lifting Weight	50kN [5ton]
Casting Height	2.8~3.5m [structure basis]
Lifting Velocity	5min/1m
Operation Driven	Hydraulic

+ KSC 50 Typical Section



KSC 50

Kumkang Self Climbing 50 - Hydraulic lifting

Palyung grand bridge_Yeosu, Korea



Particularities of KP 240

Through embedding a high load anchor, the KP 240 system is used for various building and civil structures. Furthermore, the 2.4m platform allows a safer and wider working environment for workers.

By installing brackets on the external structure and connecting them with a separate travelling unit, the KP 240 will be used as a full formwork system. This system can also be used for working platform inside a pier elevator pit.

+ Incheon LNG tank - Korea



+ Hwayang-Jeokgeum 3rd package - Korea



KP 240

Kumkang climbing bracket system

Hyundai-Steel_Dangjin, Korea

Particularities of KD 150/220

Our KD 150/220 is mainly used for basement of building or civil structures (such as dam) where tie rod cannot be used.

Based on the tensile strength of the embedded anchor, Kumkang Kind offers 2 systems:

KD 150 (15 ton, width: 1.70m)

KD 220 (22 ton, width: 2.40m)

+ Nakdong river Chil-gok dam - Korea



+ Buhang dam - Korea



KD 150/220

Kumkang Dam bracket system

Buhang dam_Gimcheon, Korea

Particularities of Pier formwork

Designed and manufactured through our extensive experience, our pier formwork is mainly used for bridge construction (various designs of pier and coping).

+ Doha Link - Kuwait



+ 4th Geumgang bridge - Korea



+ World Cup grand bridge - Korea



+ Sepung bridge - Korea



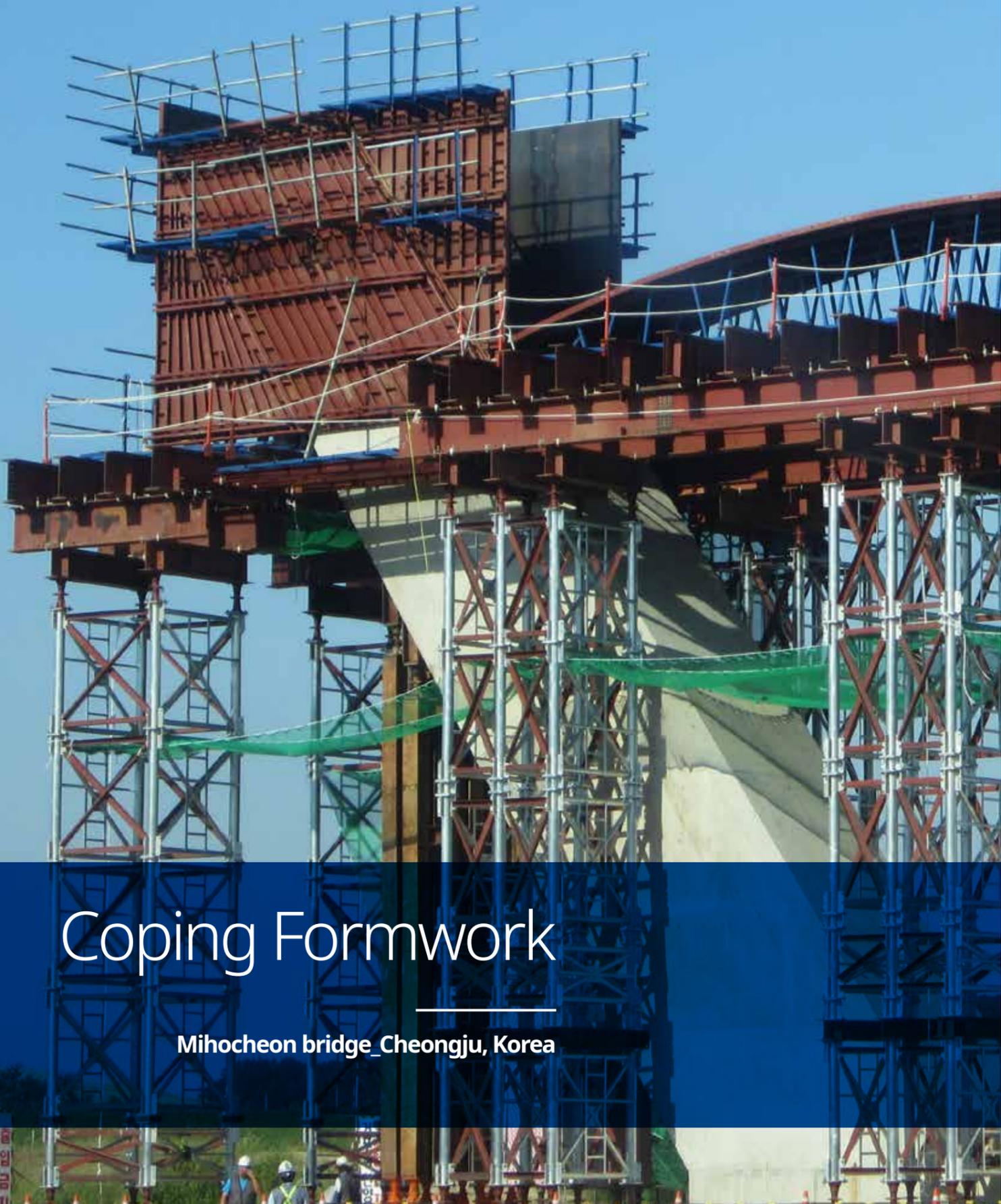
Pier Formwork

Busan subway package 312_Busan, Korea

Particularities of coping formwork

Plate girder system, one of Kumkang Kind's coping system is used to build coping by installing anchor bracket on top of the pier and while the formwork stiffeners shall take the concrete load. This makes assembly, installation and dismantlement of the formwork easier than the traditional method (support method) which results in efficient construction while minimizing the cycle time. Moreover, it can be applied in higher bridges.

The truss girder system, another Kumkang Kind's coping system is structurally safe and minimizes the raw material in order to make the formwork economically efficient for the project.



Coping Formwork

Mihocheon bridge_Cheongju, Korea

+ Gumti Bridge - Bangladesh



+ Jayou road package 3-3 - Korea



+ Kyodong-Yeonrook bridge - Korea



+ World Cup grand bridge - Korea



Particularities of pylon formwork

Used in mega pylons and long span bridges, our Kumkang pylon formwork are extensively designed by conducting a meticulous analysis of the static calculation and through 3D design technology.

The Incheon Grand Bridge (cable-stayed bridge), Namchang Grand Bridge (cable-stayed bridge), Ulsan Grand Bridge (suspension bridge) and Kumga Grand Bridge (extradosed bridge) are only some of the several projects where our pylon formwork was supplied.

+ New millennium grand bridge - Korea



+ Haei-Sinui bridge - Korea



Pylon

Incheon grand bridge_Incheon , Korea

Project References

+ Incheon grand bridge - Korea



+ Busan port grand bridge - Korea



+ Namchang grand bridge - Korea



+ Jeokgeum-Yungnam bridge - Korea



+ Mokpo grand bridge - Korea



+ Ulsan grand bridge - Korea



Particularities of pier table formwork

This formwork is used to pour concrete on the top structure of a bridge (pier table); using the truss girder system, plywood and steel formwork and the main bracket, our Kumkang system allows a precise and safe construction.

+ Baekseok bridge - Korea



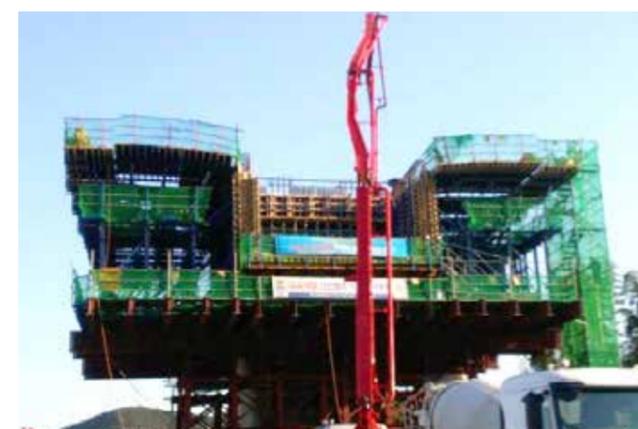
+ Highway route 88 expanding package Bunam Bridge - Korea



+ Busan interchange package 8th Nakdong grand bridge - Korea



+ Okdong-Nongso 1st package Ohsan grand bridge - Korea



+ Hwamyung grand bridge - Korea



Pier Table

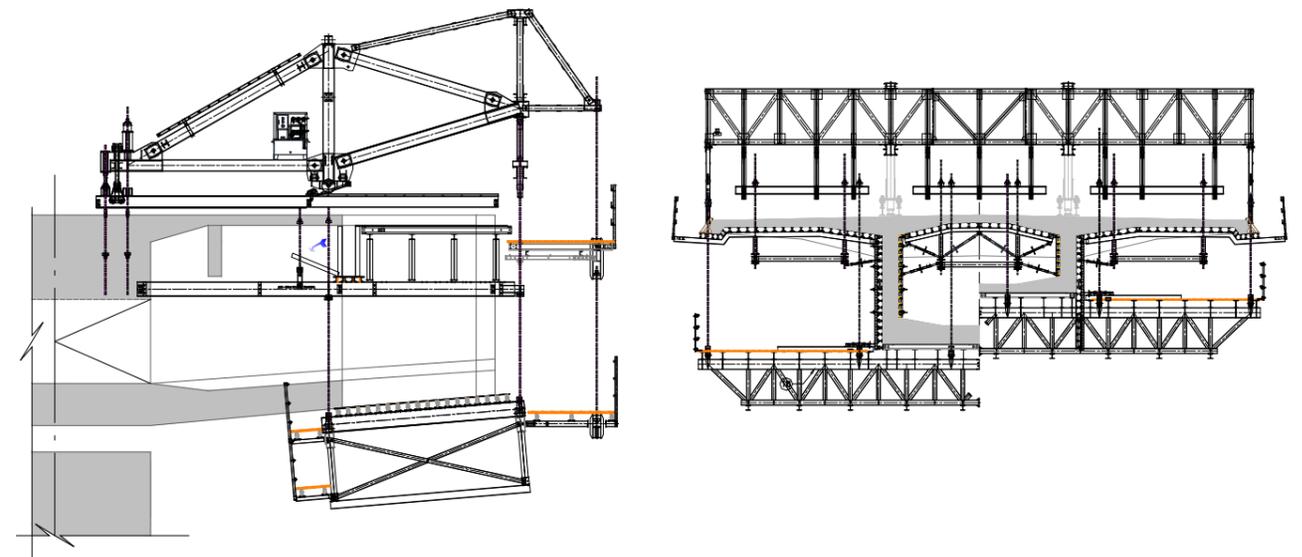
Highway route 88 expanding package Bunam bridge Jangsu, Korea



Particularities of F.C.M

The Free Cantilever Method (F.C.M) was firstly developed by the German Dywidag company in the 1950's. This method performs progressive placement by maintaining the symmetry on both sides with a movable truss (form traveler), without any scaffolding on the already built pier and pier table.

The system was applied to Shin Haeng Ju Grand Bridge, Shin Danyang Grand Bridge (highest bridge in Korea), and other large and small F.C.M bridges, and Kumkang Kind is renowned for its quality and technology.



+ Geumgang 4th bridge - Korea



+ Gwangyang Taemin 2nd bridge - Korea



F.C.M

Free Cantilever Method - Form traveler

Gyeongin canal 3rd package_Gyeonggi-do, Korea



F.S.M

Full Staging Method - Bent

Baekseok bridge_Incheon, Korea

Particularities of F.S.M

The Full Staging Method (F.S.M) is the most common method among PSC construction method, in which the scaffolding will support the concrete, formwork and working platforms' load until the concrete reaches the prescribed strength.

According to the jobsite requirement, Kumkang Kind shall provide the most optimal system.

+ Honam expressway 4-2 package ED bridge - Korea



+ Busan port rear road - Korea





F.S.L.M.

Full Span Launching Method

Temburong CC2_Brunei

Particularities of F.S.L.M

The Full Span Launching Method (F.S.L.M) is the most advanced method in producing the upper pier girder in precast concrete. Kumkang Kind has successfully used this method for the 1st time in South Korea (Honam high-speed railway project).

Through our utmost quality and technology, Kumkang Kind has been awarded various overseas projects such as the Kuwait Doha Link project and Brunei Temburong CC2 project.

+ Honam expressway 2-2 package - Korea



+ Doha Link - Kuwait



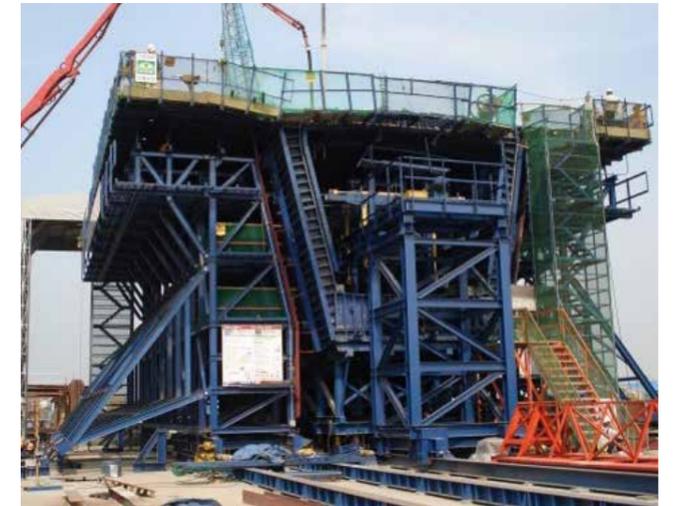
+ Jabercauseway - Kuwait



Particularities of P.S.M

The Precast Segment Method is a method to partially produce upper pier girders in a constant length and connect the girders consecutively using launching girder and etc. This method was not only applied to Incheon Grand Bridge, Uijeongbu Light Rail Transit but also applied to Bahrain ISA Town projects and other overseas projects.

+ Incheon grand bridge - Korea



+ Uijeongbu LRT project - Korea



+ ISA town project - Bahrain



P.S.M.

Precast Segment Method

Uijeongbu LRT project_Uijeongbu, Korea

Particularities of Box Culvert System

There are two types of box culvert system depending on the site condition: 1) small, manual, movable by wheels on scaffolding system, and 2) large, automatic, movable by hydraulic unit.

+ Incheon International Airport - Korea



+ Ilsan grand bridge - Korea



+ Guri-Pocheon 6th package - Korea



+ Gimcheon Nongso-Eomo road - Korea



Box culvert system

Incheon International Airport_Incheon, Korea

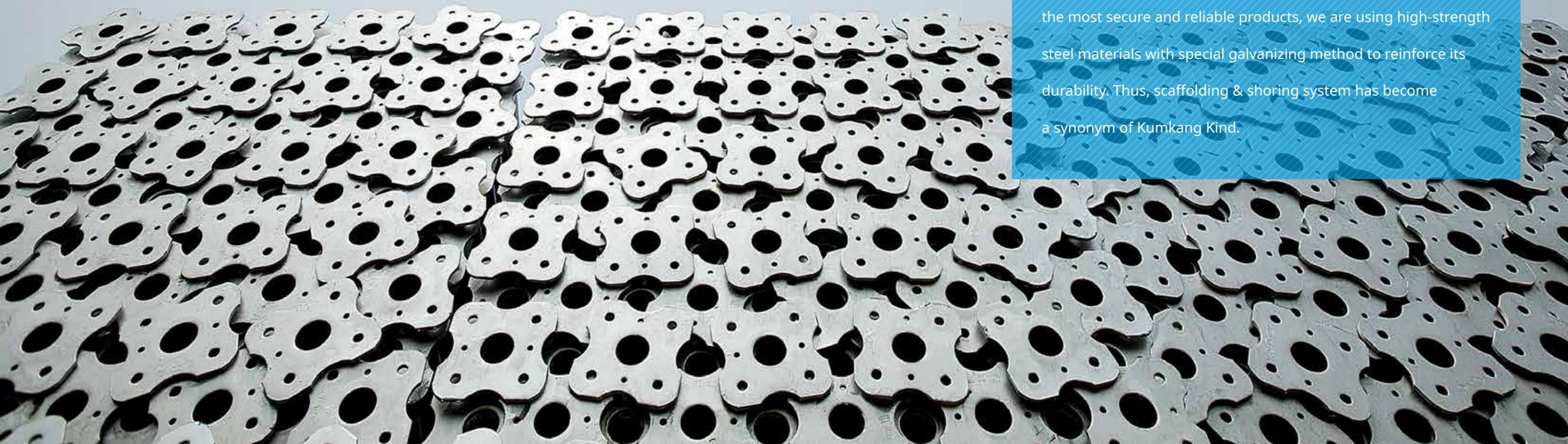
Particularities of immersed tunnel

Introduced for the first time in South Korea, the immersed tunnel connects Busan to Geoje Island. The structure will be prefabricated at the workshop, sealed with bulkheads and floated through the buoyant force, mounted on the earth 50m underwater, before being connected together with the water pressure.



Immersed Tunnel

GK project_Geoje, Korea



Scaffolding & Shoring System

Whenever you need props or scaffolding system, you will need to consider the size and location of the construction, quantity of materials needed, quality of products and etc.

With exhaustive field experience, we offer you the best scaffold and shoring materials available on the market. In order to produce the most secure and reliable products, we are using high-strength steel materials with special galvanizing method to reinforce its durability. Thus, scaffolding & shoring system has become a synonym of Kumkang Kind.

Scaffolding products

For the most secure construction projects

Kumkang Kind's support and scaffolding products use high-strength steel materials with a special galvanizing method to reinforce its durability. Moreover, with our accumulated technological know-hows and wide construction experience, Kumkang Kind offers you various top-notch quality products for your construction projects.

+ Prop

- Using our great wealth of technological know-how and the best possible raw material, we have developed the most secure and durable props available on the market. Due to its easy structure, our prop system is very simple to install and dismantle.

+ Clamps

- One of the most important products to ensure the safety of a job-site is clamps. Kumkang Kind clamps are renowned domestically and internationally for their quality. Various types of clamps are offered at Kumkang Kind: fixed clamps, swivel clamps, beam clamps, support clamps, hanger clamps, and many others.

+ Scaffolding Pipe

- Produced with high-strength material, Kumkang Kind scaffolding pipe is highly respected by our customers for its level of safety and durability with its special galvanizing method. Its recognition and market share have already been proven.

+ Square Pipe

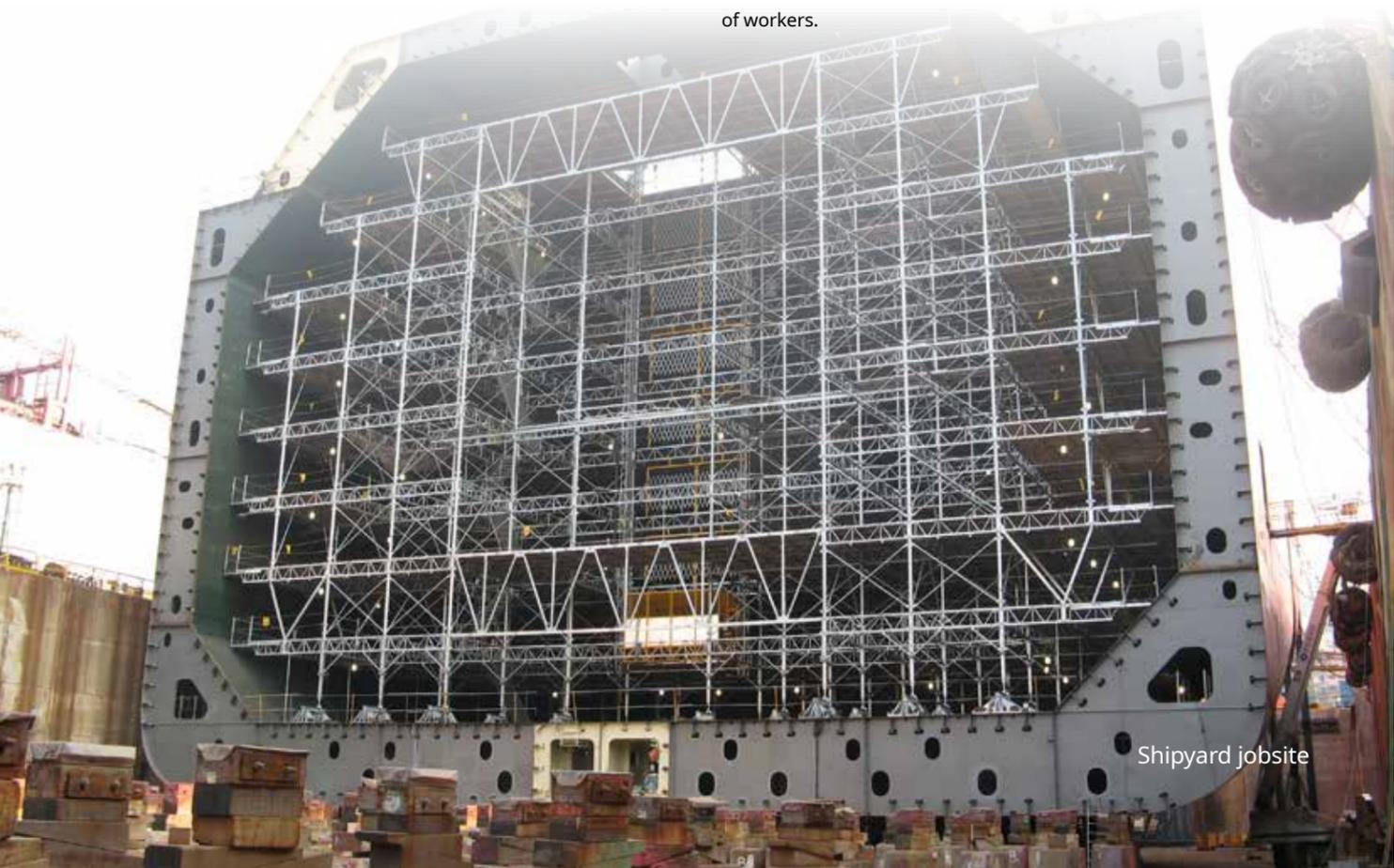
- In order to offer you the most reliable and secure square pipes, we only produce and sell square pipes with a thickness of more than 2mm. Their durability and quality will provide safety and trust for all your construction projects.

+ Safety Board

- Produced in various lengths and widths through our robotized system, Kumkang Kind safety board is light-weight but very rigid at the same time. Moreover, our safety board has been made for easy installation and dismantling by the jobsite workers. Simplicity and efficiency are two words which can best describe our safety board.

+ Shipyard scaffold

- Our scaffolding products are also used in the shipbuilding industry. They are used in building the inner part of the L.N.G.C. (liquefied natural gas carrier) and our products' efficiency is unbeatable. Moreover, our innovative safety boards are used to ensure the safety of workers.



Shipyard jobsite



▶ Clamps

- Clamps are used to attach horizontal and vertical scaffolding pipes. We offer a variety of clamps

Item	Size (mm)	Weight (kg)
Fixed, Swivel	ø48.6 X ø48.6	0.7
Advanced Universal Clamp	ø48.6 X ø42.7	0.7
Beam Clamp	ø48.6	1.2
Single Clamp	ø60.5 ø48.6	0.35
Support Clamp Swivel	ø48.6 X ø60.5	0.9



▶ Adjustable steel prop

- Supporting concrete molding structures such as office buildings, apartment buildings or bridges, our adjustable steel props help to accomplish a safe and precise construction.

Item	Size (mm)	Weight (kg)
V-1	1,800 ~ 3,200	10.9
V-2	2,000 ~ 3,400	11.5
V-3	2,400 ~ 3,800	12.5
V-4	2,600 ~ 4,000	13.0



▶ Scaffolding Pipe

Specification		Weight (kg)
STK 500 ø48.6 X 2.3t	6m	15.70
	4m	10.50
STK 500 ø48.6 X 2.3t	3m	7.80
	2m	5.20
		10.00
		5.00



▶ Safety Board

- Fixed on scaffolding columns, our safety board is used whenever a worker needs to stand up to install, dismantle, paint or weld any part of a structure.

Type	Size (mm)	Weight (kg)
Stair board	250 X 914	7
	250 X 1829	9
Working board	400 X 1829	13
	500 X 1829	15
Access board	250 X 3000	15
	400 X 3000	18
	500 X 3000	20



▶ Square Pipe

- Square pipe is used to support sidewalls or slabs while installing a formwork system.

Pipe [STK400]	Size (mm)	Weight (kg)
□50 X 50 X 2.0	250 X 914	7
	250 X 1829	9
	400 X 3000	18
	500 X 3000	20



▶ Joint Pins

- Joint pins are used to connect two scaffolding pipes together. After inserting the joint pin into the scaffolding pipe, one must rotate the joint pin until it locks into the rivet pin. By doing this, the joint pin will not get loose from the scaffolding pipe.

Steel Pipe

Produced with the best technology available, Kumkang Kind's steel pipe plays an important role in various construction jobsites.

OCTG, ordinary and general structural purpose pipe which are produced with the best technology, with a diameter ranging from 1/2" to 8", are precisely formed, welded with high-frequency electric resistance and cooled by Kumkang Kind's advanced computerized system and they are inspected rigorously through various test such as high-pressure and non-destructive tests. This is why we can say Kumkang Kind stands as the reference in the steel pipe industry!

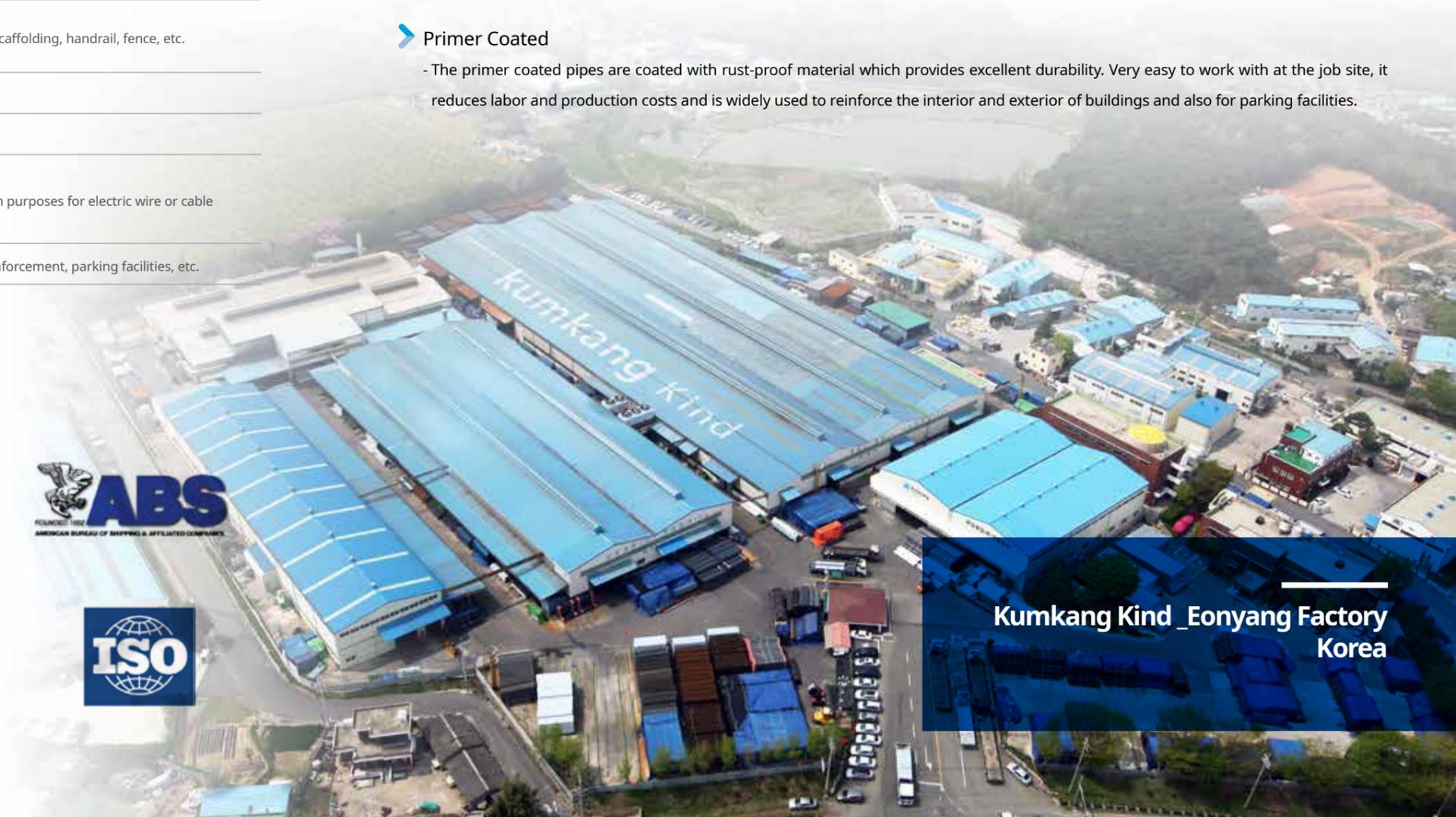
Steel pipe products

Division	Classification	Standard No.	Application
Oil Piping	Line pipes OCTG casing & tubing	API 5L - 0864 API 5CT - 1344	Oil rigs
Ordinary	Pipes for ordinary piping	KS D 3507 JIS G 3452 ASTM A 53 Gr.A BS 1387	For city & industrial water, irrigation & agriculture water, oil & gas supply, sprinkler, fire hydrant, ship piping, etc.
	Pipes for pressure service	KS D 3562 JIS G 3454 ASTM A 53 Gr.B	For pressure service at the temperature under 350°C
	Pipes for fire protection	ASTM A795	
	For fuel gas piping	KDS 3631	For city gas & LPG supply etc.
Structural	Carbon steel pipes for general structural purposes	KS D 3566 JIS G 3444 ASTM A 500	
	Square & rectangular tubes	KS D 3568 JIS G 3466 ASTM A 500	For civil engineering, building, steel tower, shoring, etc.
	Carbon steel tubes for machines structural purposes	KS D 3517 JIS G 3445	For machinery, automobile, bicycle, steel furniture, etc.
	Steel pipes for scaffolding	KS F 8003 BS 1139 JIS G 3444	For scaffolding, handrail, fence, etc.
	Fence tubes	AWWA C 202	
	Structural tubes for special purposes	Kumkang Standard	
	Rigid steel conduits	KS C 8401 JIS C 8305 UL-6 ANSI C 80.1	Protection purposes for electric wire or cable
	Color coated square & rectangular pipes	Kumkang Standard	For reinforcement, parking facilities, etc.

Product Description

- ▶ **Exporting**
 - As Kumkang Kind steel pipes are exported to various countries around the world, we conduct rigorous quality control on our pipes, This is why Kumkang Kind is renowned for its accurate delivery of quality steel pipes.
- ▶ **Hot Galvanized**
 - Used for ordinary piping, pressure service, fuel gas piping or general structural piping, its zinc galvanized coating gives it an elegant external finish and a strong rustproof effect.
- ▶ **Black Steel Pipe**
 - Used for ordinary piping, pressure service, fuel gas piping or general structural piping, it is very effective for industrial water, vessels, transportation of oil, fire hydrant pipes and structural parts of cars, machines, public works, steel towers and props.
- ▶ **Conduit Pipe**
 - Used to protect electric wires, the hot dipped galvanized conduit pipe's durability has been drastically extended and, because of the sockets at each extremity, the work at the job site is easier than ever.
- ▶ **Steel Square**
 - Kumkang Kind has a special steel square production line that produces various sizes and satisfies the most stringent customer demands for their structural pipes for construction.
- ▶ **Primer Coated**
 - The primer coated pipes are coated with rust-proof material which provides excellent durability. Very easy to work with at the job site, it reduces labor and production costs and is widely used to reinforce the interior and exterior of buildings and also for parking facilities.

Approved certification



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