Established in 1995

www.kitsen.com

KITSEN®

KITSEN Formwork and Scaffolding Technology Co., Ltd.

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Address: #12, St 5J, Prek Leap Village, Sangkat Prek Leap, Khan Chroy Chongvar, Phnom Penh Penh, Cambodia

Branch Company: KITSEN Aluminium Scaffold (Malaysia) Sdn Bhd.

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Branch Company: K.F.S Formwork and Scaffolding Inc.

Address: 9F Tower 3, WeWork, Uptown Bonifacio, 36th Street Corner 11th Avenue, Fort Bonifacio, Taguig City, 1634, Philippines.

Branch Company: KITSEN Formwork & Scaffolding LLC.

Address: Prime Business Centre Tower A, Office 1703, Jumeirah Village Circle, Dubai, UAE.

2021/08

KITSEN®

CLIMBING SYSTEM

Safety | High Efficiency | Economy | Environment Friendly

▶ **KITSEN 1st Factory**(80,000m² Area)

▶ **KITSEN 2nd Factory**(100,000m² Area)

▶ **KITSEN 3rd Factory**(100,000m² Area)

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COMPANY INTRODUCTION

WHO WE ARE

Founded in 1995 by Mr. David Huang, KITSEN Technologies Co., Ltd. is committed to R&D and production of formwork and scaffold products and technologies. KTISEN always focuses on providing high performance products and engineering services to its value clients all over the world.

KITSEN owns 3 factories with total area of 280,000 square meters and 1200 reliable workers, including 200 engineers, 30 quality inspectors, and 60 sales to guarantee qualified production and professional service.

Annual production capacity can reach 1,000,000 square meters aluminium formwork and 1200 containers for other formwork and scaffoldings.

WHAT WE DO

KITSEN covers rich product range of wall and column formwork, slab formwork and different scaffolds to meet clients' need. Key products include:

(1) Aluminium Formwork
(2) Self–climbing Platform System
(3) K100 Wall & Column Formwork System
(4) Fastform Slab Formwork
(5) 3D Deck
(6) Aluminium Tower Scaffold
(7) Mobile Folding Scaffold
(8) Ringlock Scaffold
(9) Shoring Prop
(10) OEM & ODM Service

WHERE WE GO

KITSEN has founded oversea branch companies and marketing offices in Cambodia,Indonesia, Malaysia, the Philippines, and Dubai,etc. With local experienced and professional staffs, KITSEN provides reliable products and in–time construction services to local clients.

Meanwhile, KITSEN has established long–term business cooperative relationship with world's leading brands in the market. With more than 26 years development, KITSEN has successfully earned high reputation based on hundreds of successful projects in more than 80 countries around the world.

OUR VALUE

To build up win–win cooperation with client and provide client–oriented service.

OUR MISSION

To provide integrated construction solutions with intelligent and environmental formwork and scaffolding systems to help our customers build safe, fast and smart in cost–saving construction method. Herein called "1+N" Overall Solution.

ISO/ PRODUCT CERTIFICATION

CERTIFICATES

ISO9001:2015 International Quality System

ISO45001:2018 Occupational Health and Safety Management System

TUV Certification

CE Certification

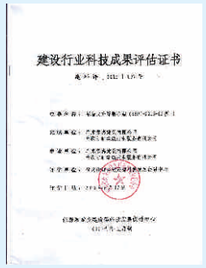
SGS Certification

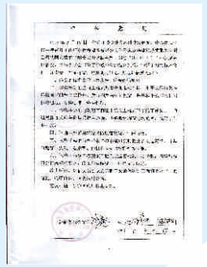
IIW International Welding Certification

All KITSEN formwork and scaffolding are covered by CNY10,000,000.00 Product Liability Insurance.

SELF–CLIMBING PLATFORM

Self–climbing platform is suitable for high–rise buildings and super high–rise shear wall structures. The system applied in facade protection and operation can effectively prevent workers and objects from falling at heights; With automatic lifting mechanism, self climbing platform reduces reliance on tower crane and scaffold erectors.





FEATURES & ADVANTAGES

Safe & Intelligent

- ✓ Easy installation and self–lifting mechanism integrated with safety monitoring system maximizes the jobsite safety and construction stability.
- ✓ Scientific and reasonable structure design make the whole system more stable and safe at height which also has good wind resistance.
- ✓ Fully sealed working environment highly minimizes the risk of falling objects accidents.
- ✓ Nonflammable all–steel materials reduce the risk of fire accidents.
- ✓ Attached device intergrating anti–drop devices and anti–tilt wheel into one which are good for falling and tilting prevention performance.
- ✓ Intelligent control system with load and overload automatic alarm and brake function.
- ✓ Intelligent control system, standardized operation process make it easy on management.

High efficiency

- ✓ One–time installation helps to improve the efficiency.
- ✓ The whole system with platform on each layer provides stage for Synchronous construction.

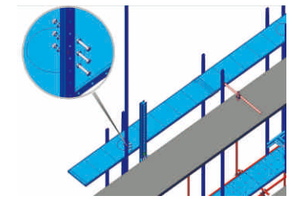
Long–term economic benefit

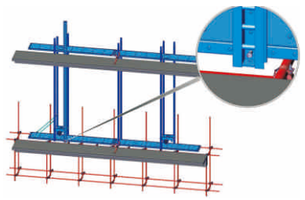
- ✓ Most component and material come with standard sizes, make system reusable for future different projects. 80% standard components can be reused for next project.
- ✓ Elevation mechanism with one–time installation ensures jobsite efficiency and safety.
- ✓ Step threshold with trapdoor platform is designed for convenience and safety features.

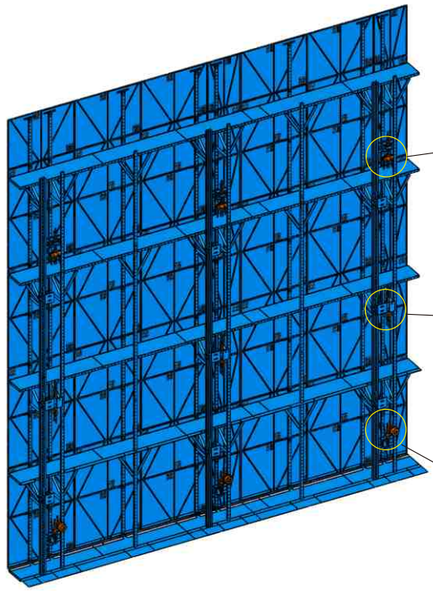
No.	Technical Requirement	Unit	Main Parameters
1	Frame Width	m	0.6
2	Frame Height	m	⩽5 floors
3	Guide Rail Span	m	⩽7.0 (broken line &curve⩽5.4)
4	Span*Height	m^2	⩽110
5	Frame Width	ton	2.0–2.8
6	Distance from Hinged Plank to the Wall	mm	⩽200
7	Allowable Loading Capacity	KN/m^2	$3KN/m^2$/2 floors;$2KN/m^2$/3 floors;
8	Lifting Speed	mm/minute	120
9	Electric Hoist Rated Tonnage	ton	7.5
10	Fireproof Requirement	/	Fireproof
11	Wall Bracket Quantities	set	⩾3
12	Hoist Turnover	/	NO
13	Maximum Wall Bracket Weight	kg	25
14	Movement at Every Elevation	floor	1
15	Anti–drop Distance	mm	⩽80
16	Anti–drop Device	pcs	3

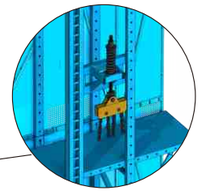
Self–climbing Platform VS Conventional Platform

No.	Conventional Platform	Self–climbing Platform
1	Manual operation, labour consuming	Efficient and safe: with automatic lifiting mechanism, one–floor climbing can be achieved in half an hour.
2	Operation at heights leads to high risk of jobsite accidents	Closed working environment highly minimizes the risk of falling objects accidents.
3	Complicated and unsafe installation process	Easy installation, intelligent control system on lifting operation and monitoring which ensure jobsite safety.
4 5	Long construction period	No usage of tower crane expedites the whole jobsite efficiency and speed up work progress.
6	Messy and disorder jobsite	Standardized management, safe and presentable jobsite.
7	High risk of fire accidents	Nonflammable all–steel materials reduce the risk of fire accidents.
8	High consumption of materials	Economic, environmental friendly materials save consturction cost
9	Complicated structure leads to unsafe operation and high risk of jobsite accidents	Standard structure with closed working environment and free maintenance brings reliable operation
	Difficult on–site management	Intelligent control system, standardized operation process make it easy on management

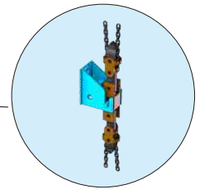




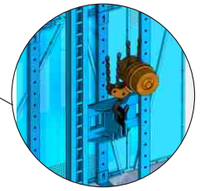




Upper hanger

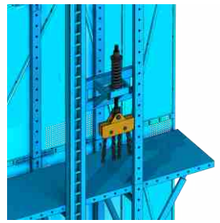


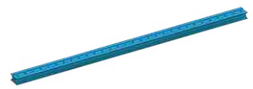
Wall Hanger

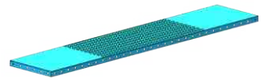


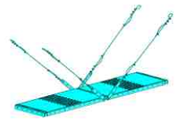
Lower Hanger
Electric Hoist

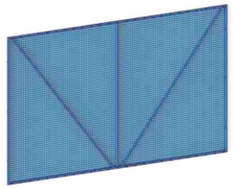
		[kg]
Upper Hanger		103
Lower Hanger		
Vertical Post	L=4500mm	23.02
Guide Rail	L=6000mm	128.00
Plain Platform	2500×600×62mm	33.36
Tower Crane Safety Screen	495×1500mm	12.00
Protection Screen	1500×2000mm	20.87



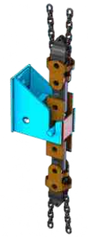


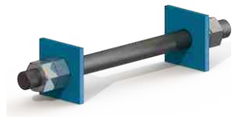




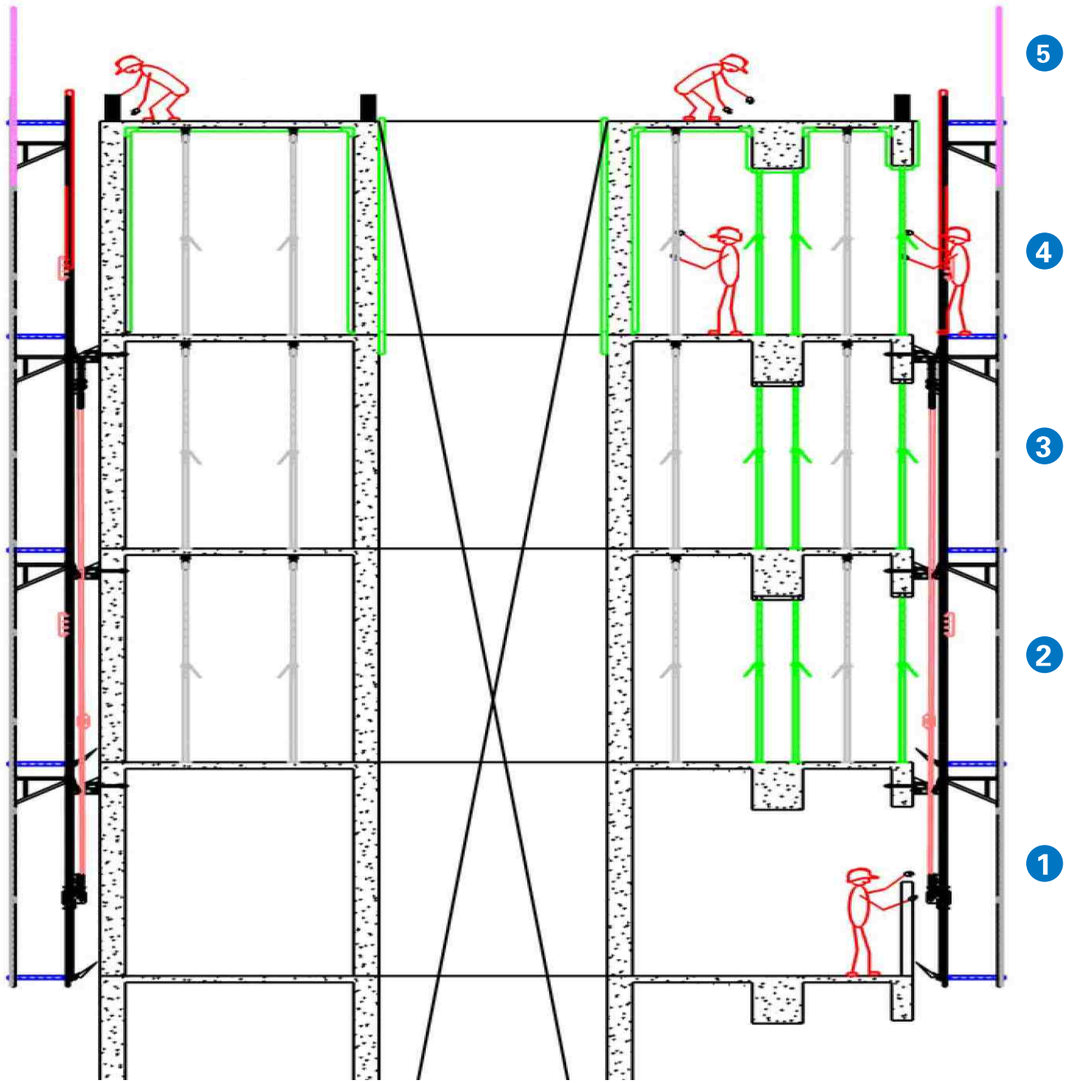


		[kg]
Wall Hanger	170×260×298mm	13.00
Tie Rod	L=500mm	3.365
Anti–drop Device	270×162×255mm	11.48
Wall Bracket	290×270×400mm	27.00
Elevation Mechanism	Dimension: 8.8 m Power:500W Load capacity: 7.5 T	105.00





SELF–CLIMBING PLATFORM



Note:

1. Layer 1: External Wall Plastering
2. Layer 2: Windows Installation
3. Layer 3: Formwork Dismantling
4. Layer 4: Formwork Installation
5. Layer 4.5: Edge Protection

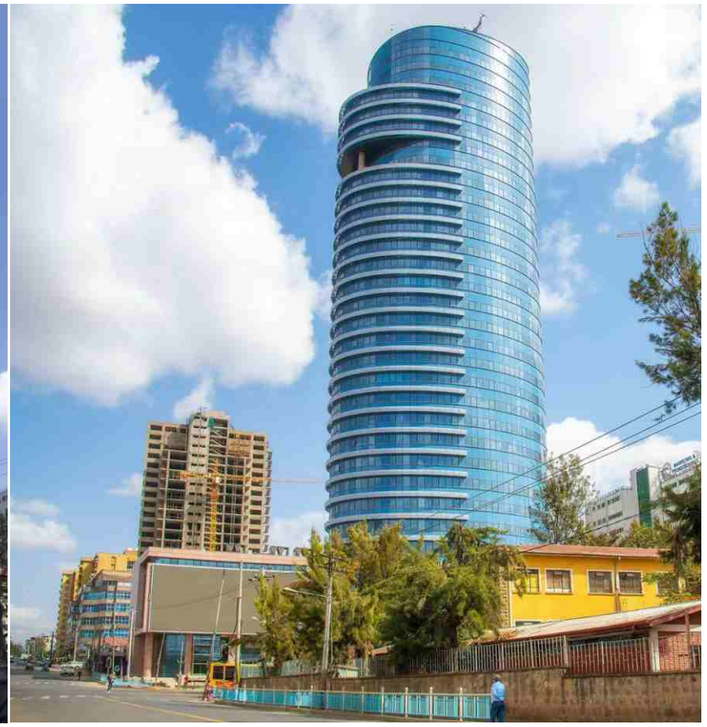
SELF–CLIMBING PLATFORM PROJECTS

▶ Project in Mexico

▶ Project in Cambodia

▶ Project in Cambodia

▶ Project in Ethiopia



▶ Project in Malaysia

▶ Project in Malaysia

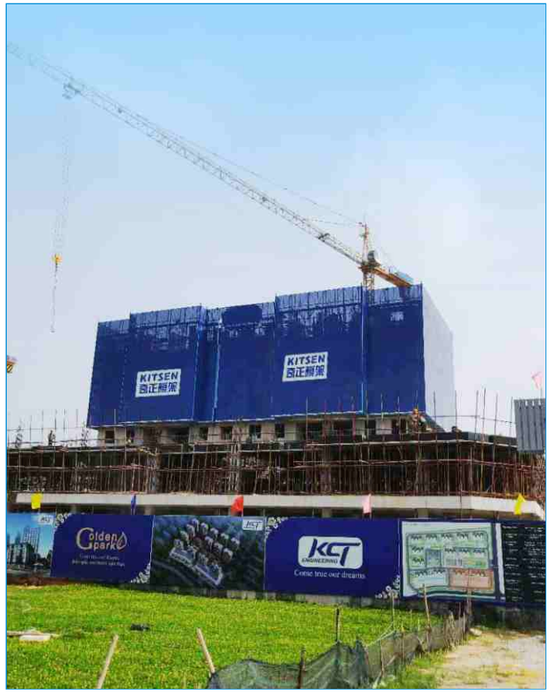
▶ Project in Malaysia

▶ Project in Thailand

▶ Project in Cambodia

▶ Project in Cambodia

▶ Project in Vietnam



▶ Project in Cambodia

▶ Project in China

▶ Project in China

▶ Project in China

▶ Project in China

SELF–CLIMBING FORMWORK

Self–climbing formwork is attached or supported on the concrete structure by the carrier, while the concrete structure is completed and demoulded, the formwork climbs to the next layer by using hydraulic cylinder as the power and guide rail as the climbing track.

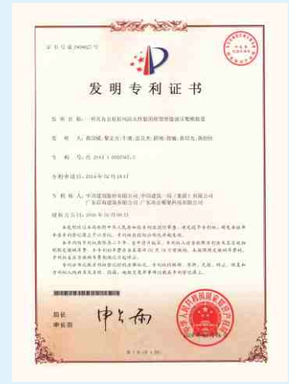
SELF–CLIMBING FORMWORK

FEATURES & ADVANTAGES

- ✓ Self climbing formwork can be lifted overall or partly with safety, stability and sychornization features.
- ✓ Easy and safe operation highly reduces time and material consuming.
- ✓ Formwork after one–time installation can be lifted up to the top floor which leads to clean and tidy jobsite and reduces the risk of collision damage of the formwork(especially the panels).
- ✓ Full range of operation platform reduces the labor cost and material on building the platform.
- ✓ Fast lifting highly increases the construction speed(average 3–5 days/floor).
- ✓ Panels, guardrail and safe screen are made of aluminum materials with lightweight and nonflammability features.
- ✓ Standardized and modular design, production and installation meet the needs of energy conservation and safe and civilized construction.

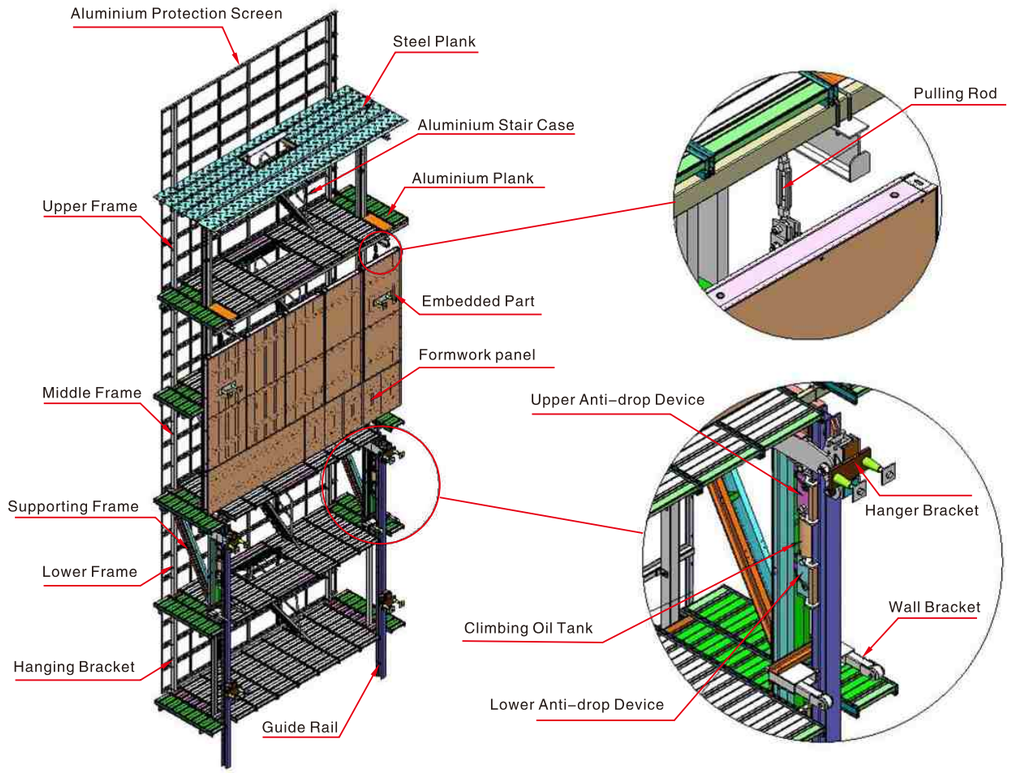

检 验 报 告
TEST REPORT
BETC-KJ-2013-108
国家建筑工程质量监督检验中心
NATIONAL CENTER FOR QUALITY SUPERVISION AND TEST OF BUILDING ENGINEERING

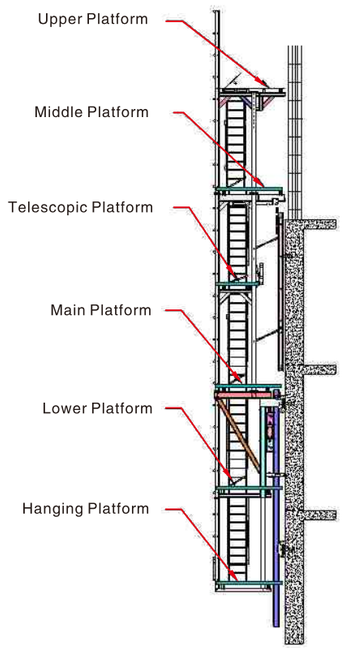

科技成果登记表
中华人民共和国科学技术部制定
中华人民共和国国家统计局批准

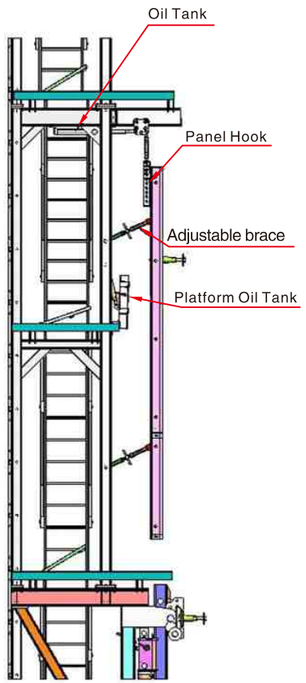

发明专利证书

No.	Technical Requirement	Unit	Main Parameters
1	Guide Rail Span	m	⩽5 (Horizontal distance between adjacent build–in point)
2	Height	m	16
3	Width	m	1.80
4	Operation Platform	LEVEL	6
5	Maximum allowable loading capacity of the upper platform		4kN/m2 (climbing at 1.0KN/m2)
6	Maximum allowable loading capacity of the middle and flexible platform	kN/m^2	1.0
7	Maximum allowable loading capacity of the main platform	kN/m^2	1.0
8	Maximum allowable loading capacity of the lower platform	kN/m^2	1.0
9	Maximum allowable loading capacity of the hanger platform	kN/m^2	1.0
10	Rated working pressure	Mpa	16
11	Oil tank stroke	mm	220
12	Hydraulic station flow	L/min	2.2
13	Extended speed	mm/min	200
14	Oil tank rated thrust	KN	200
15	Unsynchronized difference in dual oil tank	mm	⩽20
16	Electric handle operation		Achieve single oil tank, double oil tank, and multi oil tank operation

SELF–CLIMBING FORMWORK







SELF–CLIMBING FORMWORK BASIC COMPONENTS

		[kg]
Hanger Bracket		71.24
Upper Anti–drop Device		34.81
Guide Rail		
Climbing Oil Tank	16MPA	
Wall Attached Support		
Lower Anti–drop Device		

		[kg]
Lower Bracket	2920×1380mm	445.00
All Aluminium Protection Screen		
Stair Case		
Aluminium Platform Set		
Aluminium Platform		
Aluminium Formwork Panel		

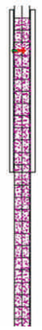
SELF-CLIMBING FORMWORK ERECTION INSTRUCTION

Installation & Climbing Flow

1

Tie the steel rebars of the second floor

2



Assemble formwork panel and embedded part, pour concrete;

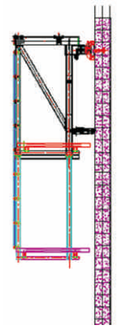
3

Remove formwork panel after demoulded;

4

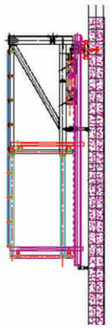
Assemble wall attached bracket;

5



Install frame, cantilever beam, plank and safe screen of the bottom layers;

6

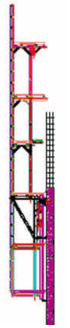


Install guard rail and hydraulic cylinder;

7

Install frame, cantilever beam, plank and safe screen of the top layers;

8



Install the steel rebars of the next floor;

9

Assemble concrete formwork and embedded part, pour concrete;

10

Install the steel rebars of the next floor;

11

Remove formwork panel; Assemble attached component of next floor;

12

Lift up the guide rail

13

Climb to the next layer

SELF-CLIMBING FORMWORK PROJECTS

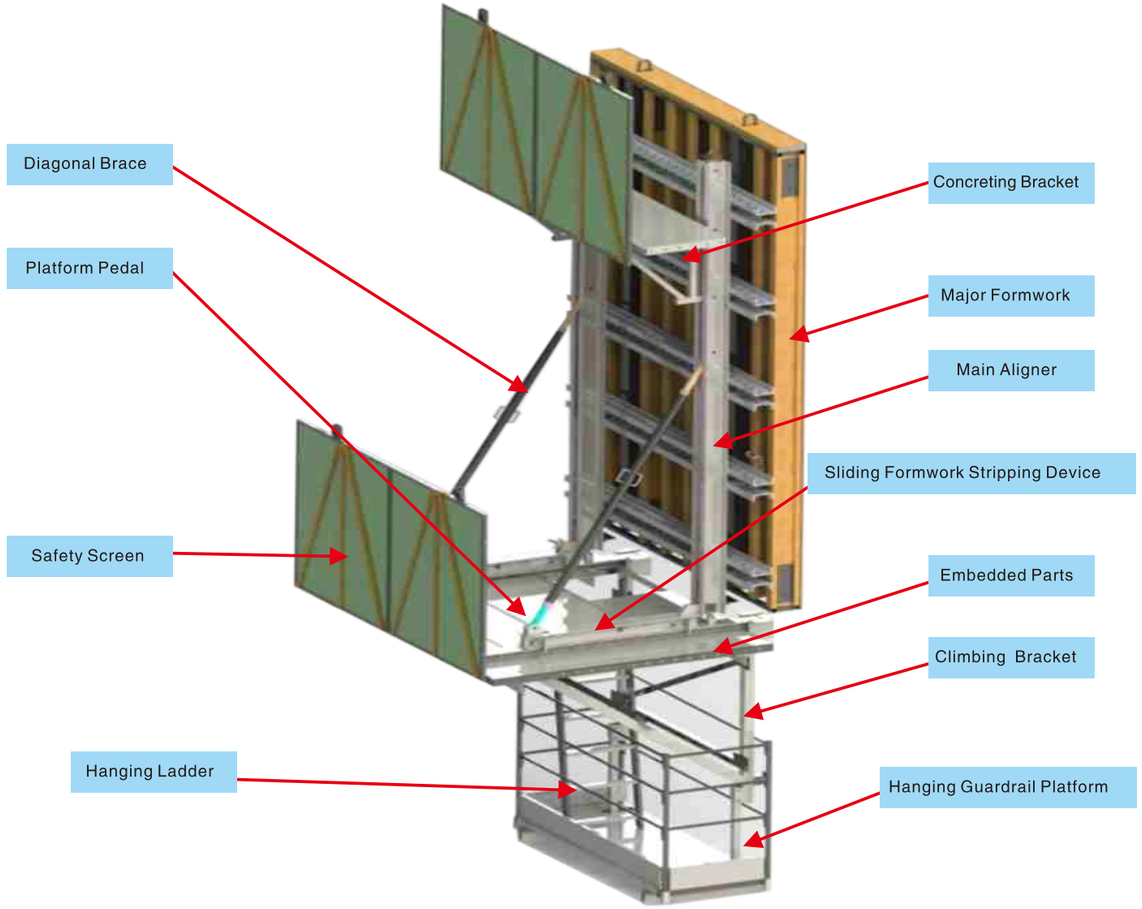
▶ Project in Guangzhou

CLIMBING FORMWORK

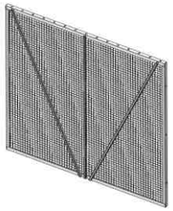
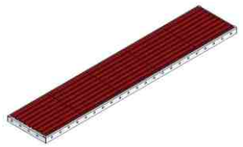
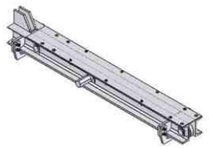
Climbing formwork, also called cantilever template, is mainly used for bilateral formwork construction of bridge piers, concrete walls and other structures.Concrete construction is simple, rapid, and very economic, the concrete surface is smooth, it's an ideal wall formwork system. This kind of formwork is mainly composed of the following parts: formwork panel , upper platform, main back truss, diagonal brace, backward device, stress tripod, main platform, hanging platform, embedded parts system. The two legs act as a single unit block.

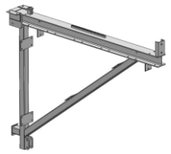
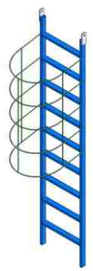
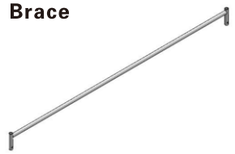
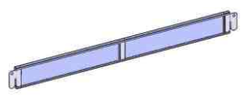
FEATURES & ADVANTAGES

- ✓ Large formwork design with integrity feature highly reduces the time and labor consuming on formwork assembly and dismantling.
- ✓ Operation platform allows flexible adjustment and position.
- ✓ All components welded by robots automatically are in high quality with stability and safety.



CLIMBING FORMWORK BASIC COMPONENTS

	[kg]
Safety Screen	23.63
	
Plain Platform	21.16
	
Hanging Platform	45.77
	
Trapdoor Platform	90.61
	
Adjustable Brace	21.41
	
Formwork Carriage	38.64
	

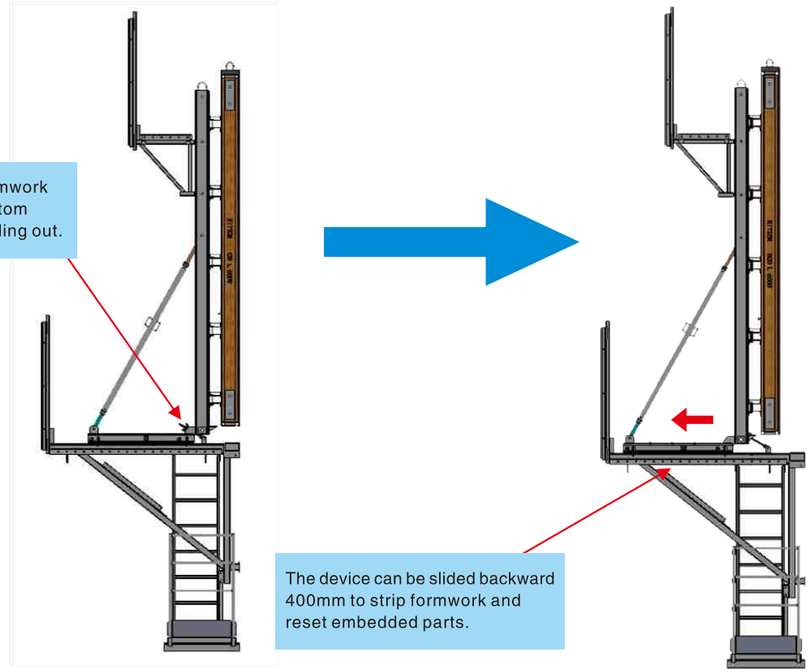
	[kg]
Climbing Bracket	114.42
	
Concreting Bracket	63.01
	
Access Ladder	46.76
	
Guardrail	7.05
	
Brace	2.26
	
Toe Board	6.37
	

	[kg]
Guard Rail Post	3.75
	
Pecial Plank	48.19
	
Pre-embedded Part	6.81
	
Platform Cantilever Beam	17.51
	
Vertical Post	8.18
Pull Rod	5.11
	

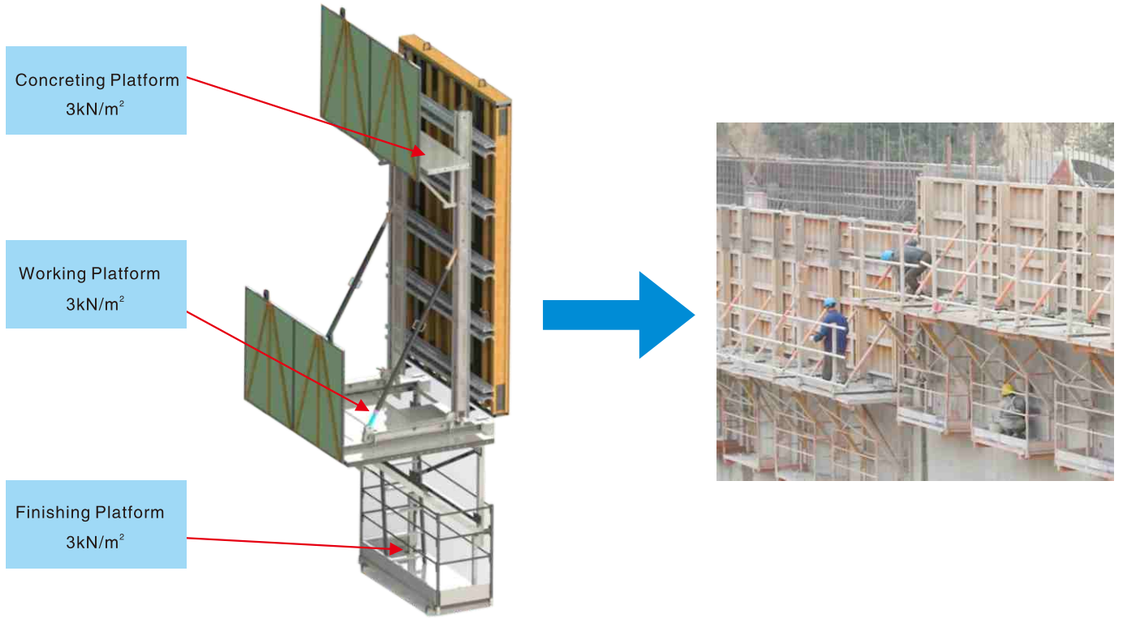
CLIMBING FORMWORK PROJECTS

▶ Nuclear Power Station Project in Taishan, China

Major Formwork Sliding

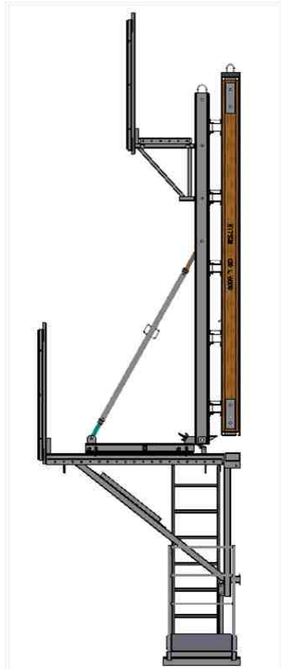


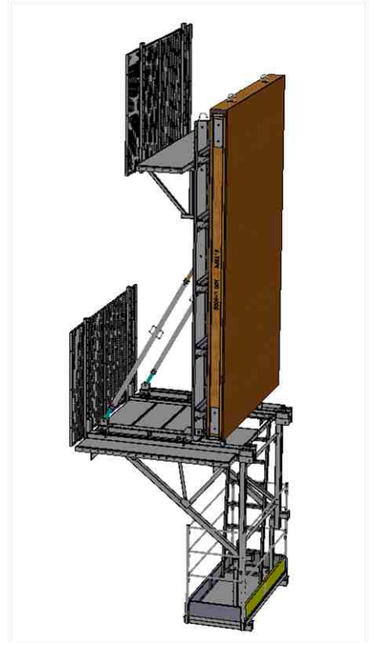
Three Working Platforms



CLIMBING FORMWORK
PRODUCT FEATURES

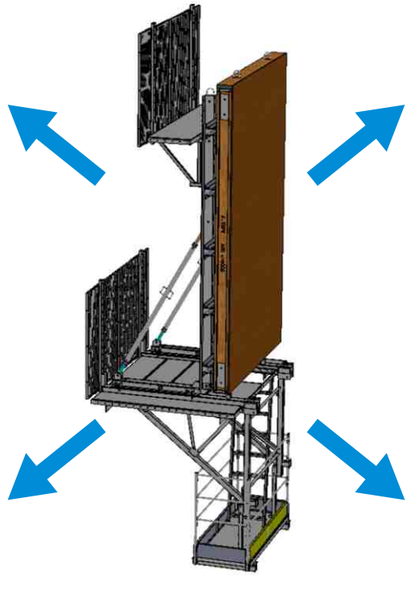
Work with Traditional Formworks





Other Types of Major Formworks

KITSEN Aluminum Formwork

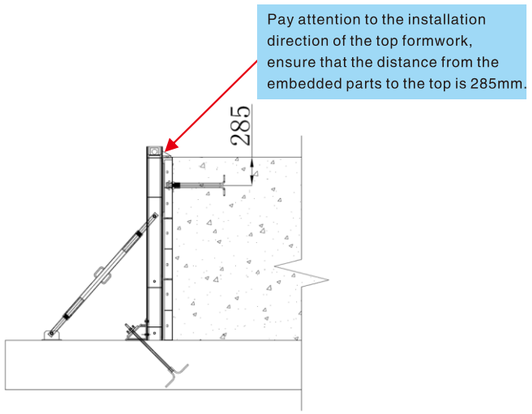


KITSEN Steel Formwork

KITSEN K100 Wallform

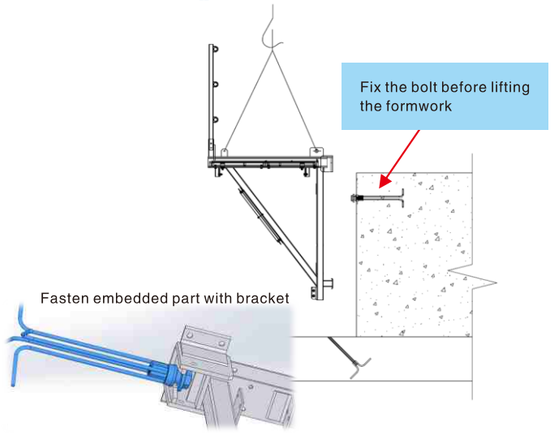
Beam Formwork

1. First Layer Construction:



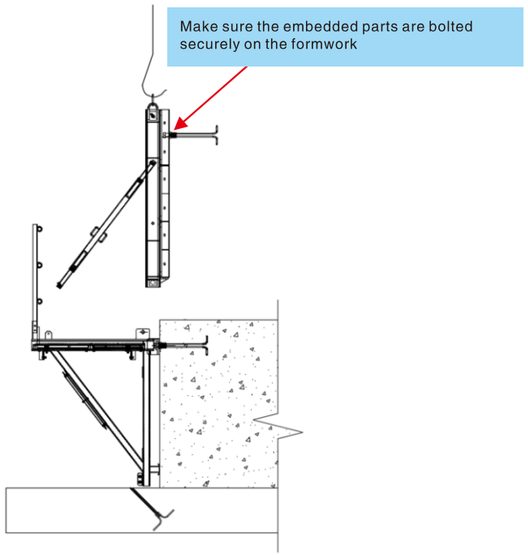
Embed tie rod in the determined position to fix the formwork, the carrier should be fixed with bolts which needs to be removed first while dismantling the embedded part.

2. Platform Lifting:



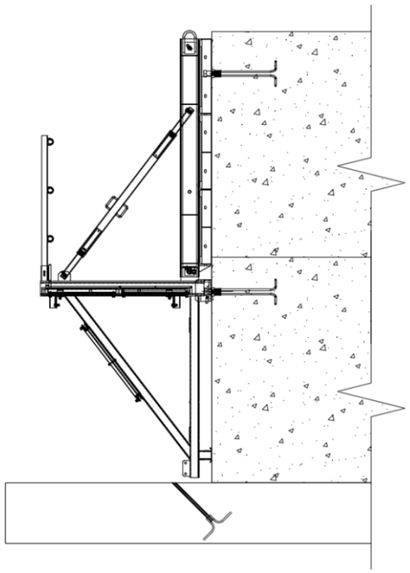
The working platform can only be installed when the concrete reaches the strength (>12MP). Before lifting the working platform, it shall be confirmed that the embedded parts are firmly connected with the bolts. During lifting, it shall be confirmed that the working platform is completely hung on the bolt before loosening the hook.

3. Formwork Lifting:



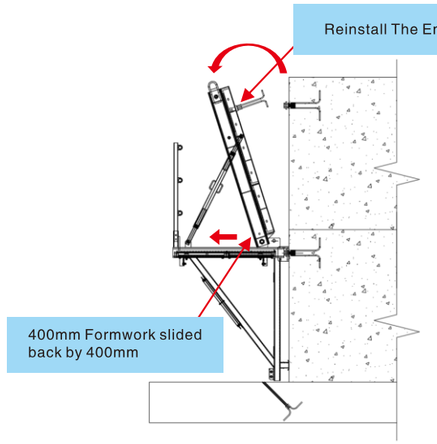
Lift the formwork after working platform installed. The formwork frame shall be sure to be securely hung on the bolts and inserted with the lock pin before releasing the hook.

4. Concrete Pouring:



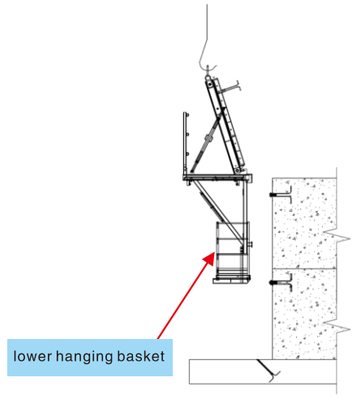
Adjust the formwork to the exact position. The top formwork needs to tilt inwards to a certain size to ensure that it will move to the vertical position after concrete pouring.

5. Formwork Removal:



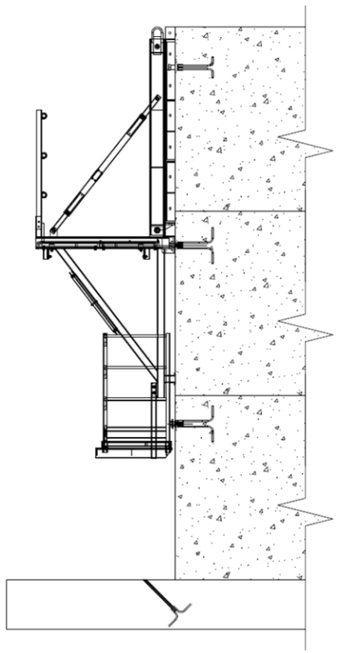
When the concrete reaches the required strength, loosen the bolts on the embedded parts first, adjust the supporting pipe to make the formwork tilt back to a certain Angle. Slide back formwork by 400mm so that there is enough space to install the positioning sleeve and embedded parts.

6. Formwork Climbing:



Install the lower hanging basket after the hanger leaves the concrete, ensure that the concrete reaches the design strength (>12MP). Pay attention that the embedded parts should firmly be connected with bolts before lifting the working platform. During climbing, make sure that the working platform is completely hung on the bolt before loosening the hook.

7. Concrete Pouring:



Adjust the formwork to the exact position. The top formwork needs to tilt inwards to a certain size to ensure that it will move to the vertical position after concrete pouring. Concrete can only be poured after removing the locating sleeve and bolts on the ground floor.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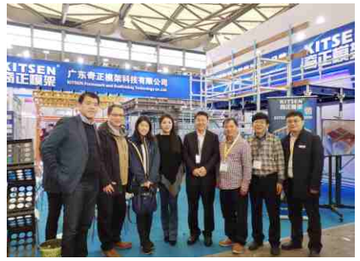
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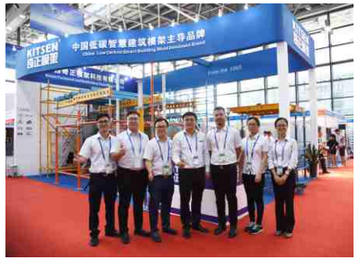
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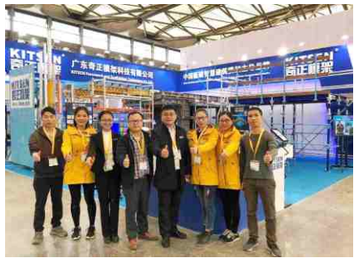
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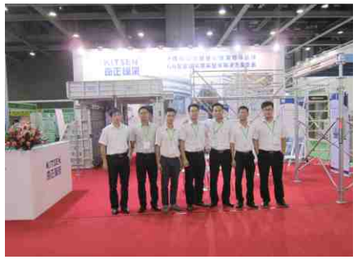
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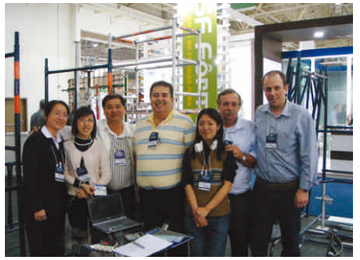
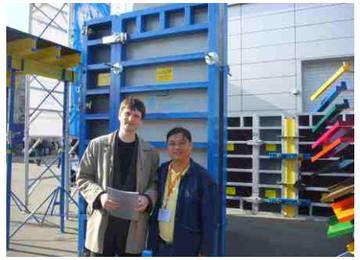
Mills


meva



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