

KT-ALUVERTICAL

MODULAR ALUMINIUM VERTICAL FORMWORK SYSTEM



“Taking Scaffolding & Formwork to New Heights”

INTRODUCTION

Kirtanlal Scaffolding & Formwork

The Kirtanlal Group of Companies has over 5 decades of experience in providing solutions to the Energy, Construction, Engineering & Industrial Sectors, throughout The Middle East, India, South East Asia, Africa, Europe, Australia, North & South America.

The Kirtanlal Group is a leading distributor in the industrial sector, comprised of a dynamic group of companies dedicated to fueling the needs of the supply chain with its diverse portfolio.

With a commitment to upholding an industry standard we ensure that all our divisions are united in consistently delivering high-quality products and services to our clients and end-users.

Established in 2015, Kirtanlal Scaffolding & Formwork has grown into a trusted provider of Contract Scaffolding, Powered Access, and Formwork Solutions across the UAE, Qatar, Saudi Arabia, Oman and India.

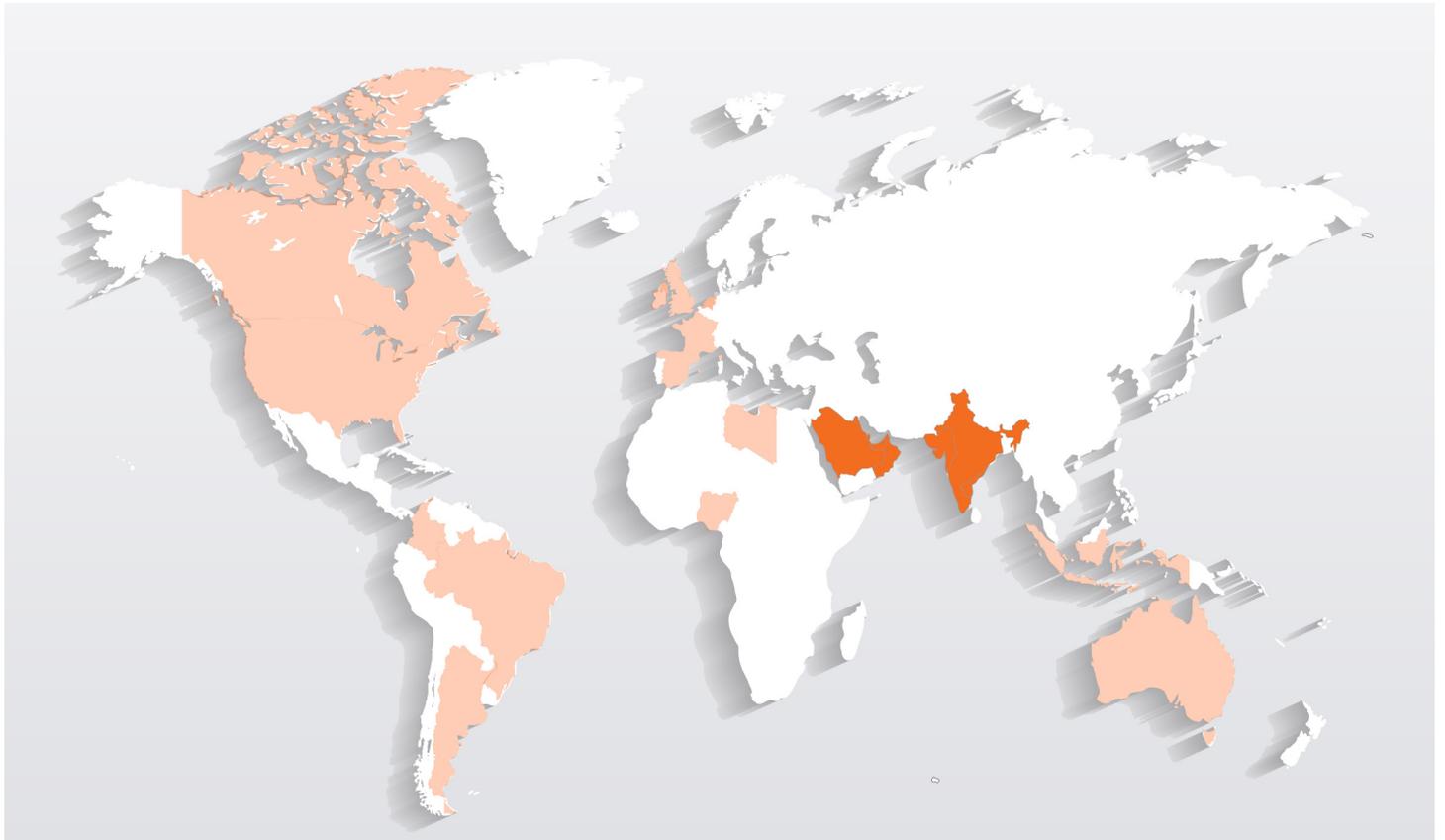
We cater to the Construction, Infrastructure, Oil & Gas, and Industrial sectors, offering high-grade materials,

NEBOSH & IOSH qualified Safety Supervisors, CISRS certified Scaffolders, and in-house Engineering & Design Services. Our team provides on-site training for safe equipment installation and operation.

Committed to Safety, Quality, and Service, we collaborate with reputed third Party inspection agencies for industry-approved safety certifications, ensuring compliance and excellence in every project.

Our Value Engineered Solutions for All Your Access & Formwork Requirements

- ▣ Contract Scaffolding
- ▣ Powered Access
- ▣ Engineering Services
- ▣ Formwork & Access Rental



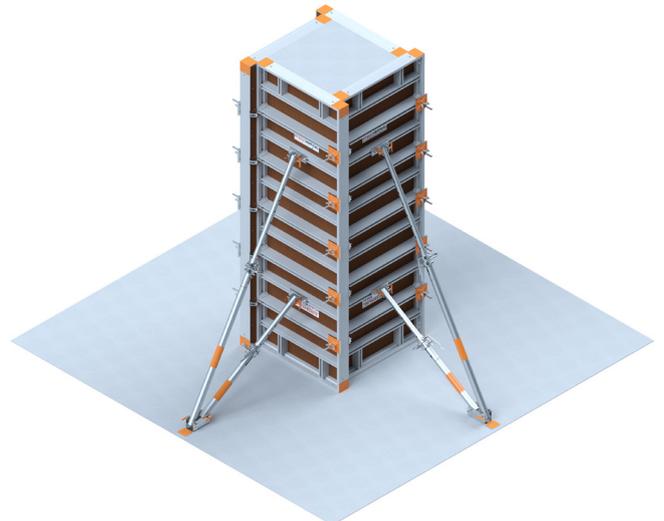
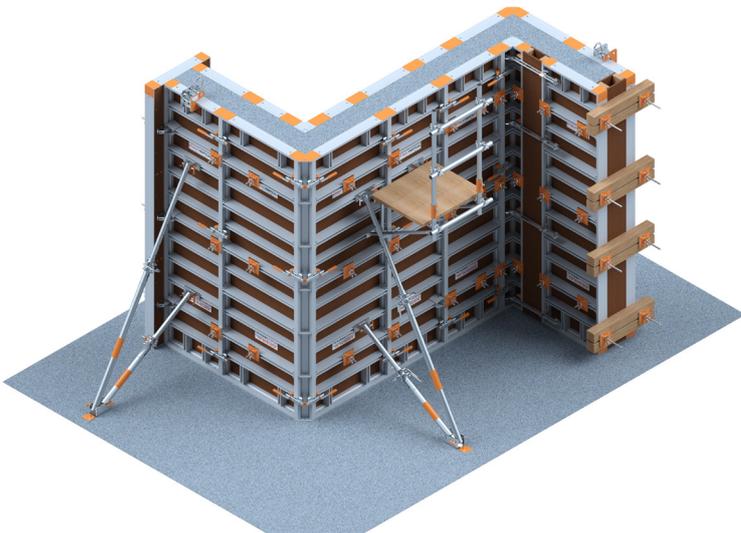
KT-ALUVERTICAL

INTRODUCTION

KT-AluVertical is the Highest Strength-To-Weight Ratio Vertical System In The Market.

The KT-AluVertical Wall Formwork System is a Lightweight, High-Grade Aluminium Handset System that is Manufactured with 6061 -T6 Alloy. KT-AluVertical Wall Formwork System combines strength and durability without compromising on ease of use. With a panel weight of less than 25kg/m², this system reduces labor effort while maintaining maximum structural integrity.

The KT-AluVertical system is specifically engineered for both column and wall formwork applications, enhancing the efficiency and performance of conventional methods. This system incorporates the latest innovations in vertical formwork technology, offering significantly faster assembly times compared to traditional wall and column forming solutions.



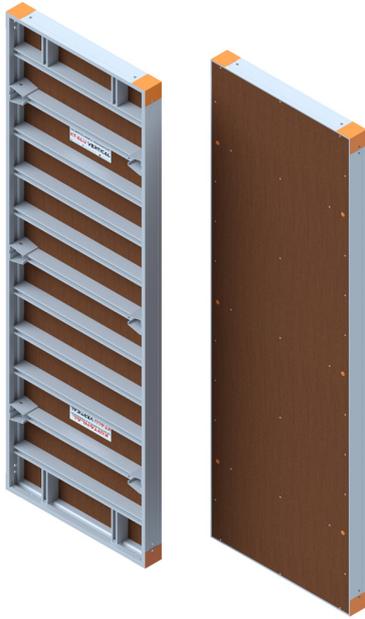
The KT-AluVertical System is built to endure concrete pressures up to 60kN/m², ensuring reliable performance in demanding construction environments.

Key Features & Benefits

-  **Versatile:** For all column & wall applications with integrated access platform.
-  **HDG (Galvanized):** All steel components are Hot Dip Galvanized (HDG) & Electroplated.
-  **Lightweight:** Aluminium Panels only 25kg/m². A profile of 120mm in depth, easily manhandled or mechanically assisted.
-  **Modular:** Fully configurable panels of sizes from 0.5m² to 3.0m². High-grade 12mm film faced birch plywood, 50-60 repetitions.
-  **High-Strength:** System is designed for permissible concrete pressure – 60kN/m².
-  **Reusable:** Reduces material waste and costs, making it an economical choice for repeated projects.

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Components



KT-AluVertical Panels

These are lightweight pre-fabricated high-grade Aluminium Panels with 12mm thick Birch Plywood and used for concrete shear, retaining, lift & staircase walls.

Product Codes	Description (m)	Weight (kg)
KAV0PAN1030T6000ML	KT-AluVertical Panel 1.0 x 3.0	74.1
KAV0PAN7530T6000ML	KT-AluVertical Panel 0.75 x 3.0	56.2
KAV0PAN0530T6000ML	KT-AluVertical Panel 0.5 x 3.0	43.3
KAV0PAN0330T6000ML	KT-AluVertical Panel 0.3 x 3.0	32.5
KAV0PAN1015T6000ML	KT-AluVertical Panel 1.0 x 1.5	40.9
KAV0PAN7515T6000ML	KT-AluVertical Panel 0.75 x 1.5	30.8
KAV0PAN0515T6000ML	KT-AluVertical Panel 0.5 x 1.5	23.5
KAV0PAN0315T6000ML	KT-AluVertical Panel 0.3 x 1.5	17.4

Material: Aluminium Alloy 6061-T6 / Equivalent, Mill Finish

KT-AluVertical Multi Panels

These are lightweight pre-fabricated high-grade Aluminium Panels with 12mm thick Birch Plywood and is used for concrete columns.

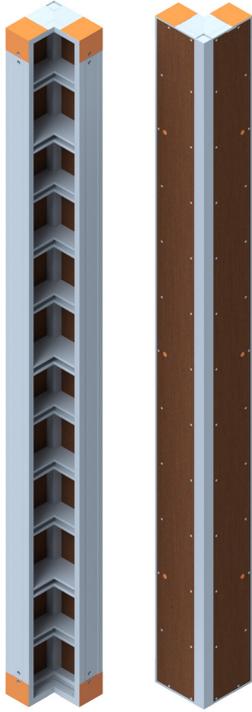
Product Code	Description (m)	Weight (kg)
KAVMPAN1030T6000ML	KT-AluVertical Multi Panel 1.0 x 3.0	77.9
KAVMPAN7530T6000ML	KT-AluVertical Multi Panel 0.75 x 3.0	58.7
KAVMPAN1015T6000ML	KT-AluVertical Multi Panel 1.0 x 1.5	43.4
KAVMPAN7515T6000ML	KT-AluVertical Multi Panel 0.75 x 1.5	32.6

Material: Aluminium Alloy 6061-T6 / Equivalent, Mill Finish



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Components



KT-Alu Internal Corners

These are pre-fabricated Aluminium Panels and is used to make Internal 90° corner in lift or staircase walls & retaining walls.

Product Code	Description (m)	Weight (kg)
KAV00OC3000T6000ML	KT-Alu Internal Corner 0.25 x 0.25 x 3.0	41.3
KAV00OC1500T6000ML	KT-Alu Internal Corner 0.25 x 0.25 x 1.5	23.0

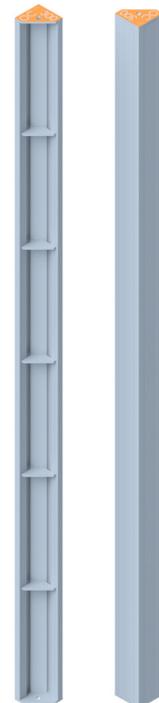
Material: Aluminium Alloy 6061-T6 / Equivalent, Mill Finish

KT-Alu Outside Corner

These are pre-fabricated Aluminium Panels and is used to make Internal 90° corner in lift or staircase walls & retaining walls.

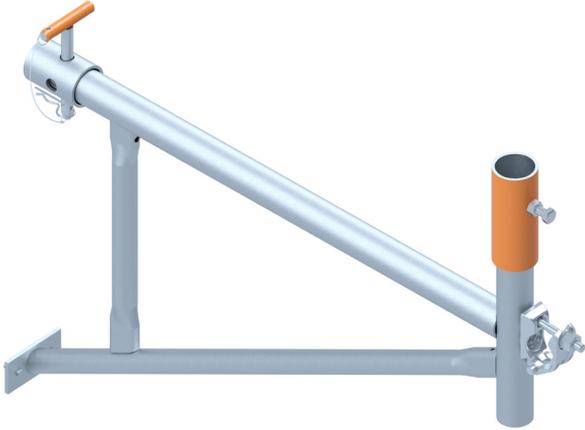
Product Code	Description (m)	Weight (kg)
KAV00OC3000T6000ML	KT-Alu Outside Corner 3.0	19.1
KAV00OC1500T6000ML	KT-Alu Outside Corner 1.5	9.7

Material: Aluminium Alloy 6061-T6 / Equivalent, Mill Finish



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Components



KT-Walkway Bracket

Three Walkway Brackets (boards) are used to create a work platform for concrete pouring.

Product Code	Description (mm)	Weight (kg)
KAV0WBK000043000GL	KT-Walkway Bracket 800	8.4

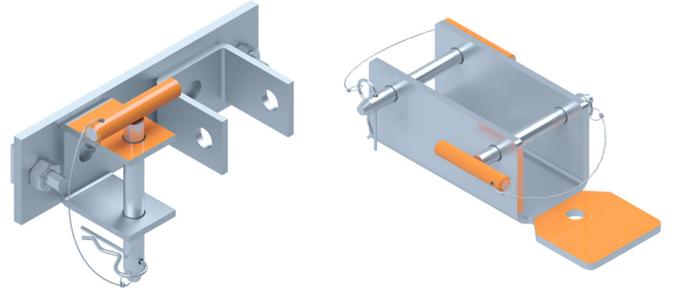
Material: Structural Steel, Hot Dip Galvanized (HDG)

KT-Brackets

KT-Bottom Brackets are used to hold and provide angular movement to the Raker Props at the bottom of the supporting slab. KT-Top Brackets are used to hold and provide angular movement to the Raker Props. And it is also used to hold Walkways Bracket using Connecting Pin.

Product Codes	Description	Weight (kg)
KAV0TBK000043000EP	KT-Top Bracket	2.6
KAV0BBK000043000EP	KT-Bottom Bracket	4.8

Material: Structural Steel, Electroplated finish

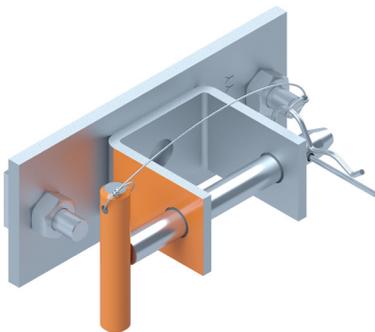


KT-Top Single Bracket

Top Single Brackets are used to hold and provide angular movement to the Raker Props or Walkway Bracket.

Product Code	Description	Weight (kg)
KAVTSBK000043000EP	KT-Top Single Bracket	2.0

Material: Structural Steel, Electroplated finish



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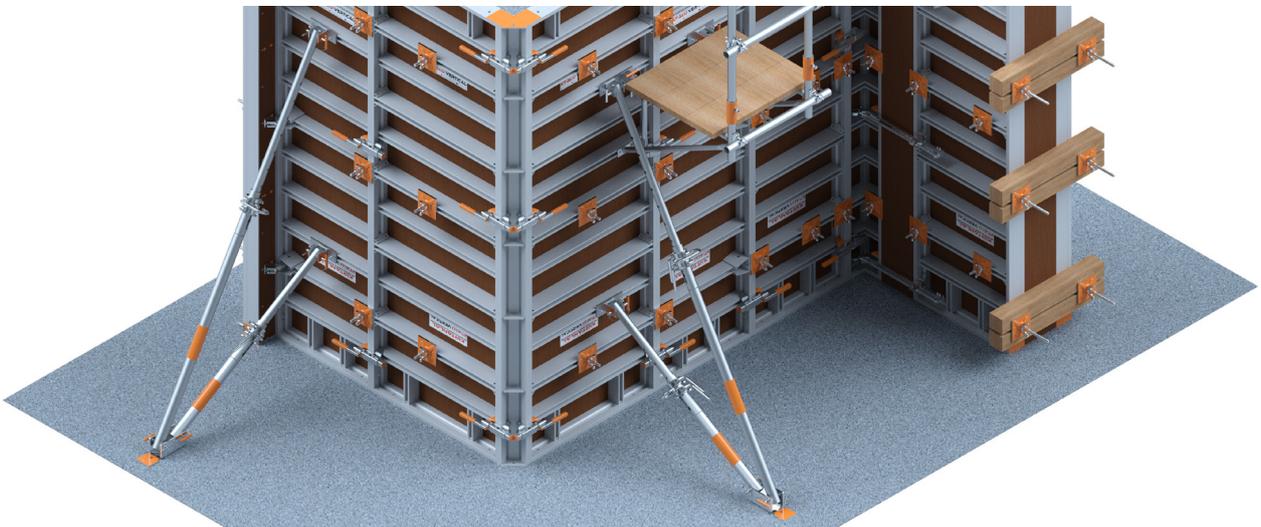
Components

KT-Push Pull Props

KT-Push Pull Prop provides rigidity to the KT-AluVertical System and can be easily attached to wall Panels using the top and bottom brackets.

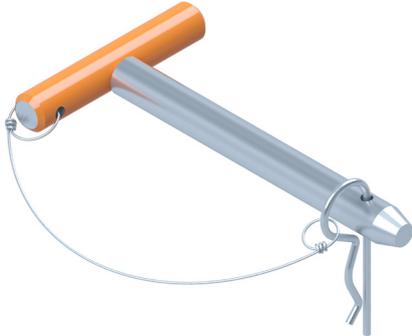
Product Code	Description	Weight (kg)
KAV0PPP101043000GL	KT-Push Pull Prop 1.0 + 1.0	11.6
KAV0PPP202043000GL	KT-Push Pull Prop 2.0 + 2.0	20.3
KAVPROP600043000GL	KT-Racker Prop 6.0m with End Connector	40.0

Material: Structural Steel, Hot Dip Galvanized (HDG)



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Components



KT-Connecting Pins

KT-Connecting Pins are used to connect Props & Brackets to the Top/Bottom Baskets.

Product Codes	Description	Weight (kg)
KAV0CTP000043016EP	KT-Connection Pin - 16mm dia	0.4
KAV0CTP000043020EP	KT-Connection Pin - 20mm dia	0.5

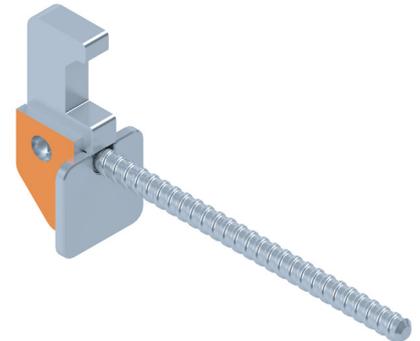
Material: Structural Steel, Electroplated finish

KT-Tie Rod Clamp

KT-Tie Rod Clamp is specifically designed for securing Multi Panels to other Multi-Panels or wall panels, particularly in column formwork or at the ends of walls.

Product Code	Description	Weight (kg)
KAVTCLP000043000EP	KT-Tie Rod Clamp	1.9

Material: Steel Grade S275/43c, Electroplated finish

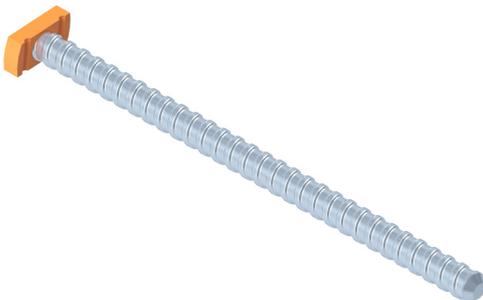


KT-Universal Waler Tie Clamp

KT-Universal Waler Tie Clamp is designed to securely fasten the Panel to the Universal Waler.

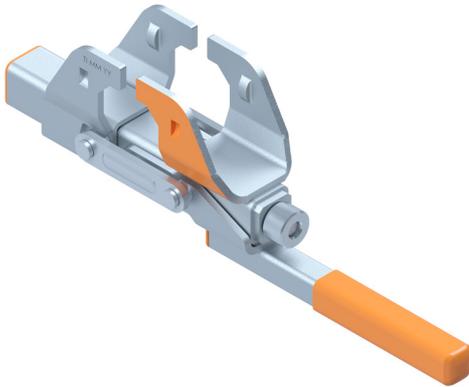
Product Code	Description	Weight (kg)
KAVUWTC000043000EP	KT-Universal Waler Tie Clamp (EP)	0.5

Material: Structural Steel, Hot Dip Galvanized (HDG)



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Components



KT-Panel Clamp

Panel Clamps adjust perfectly to the profile of the Panels and used to join Panels (vertically or horizontally).

Product Codes	Description	Weight (kg)
KAV0PCP000043000EP	KT-Panel Clamp	2.3

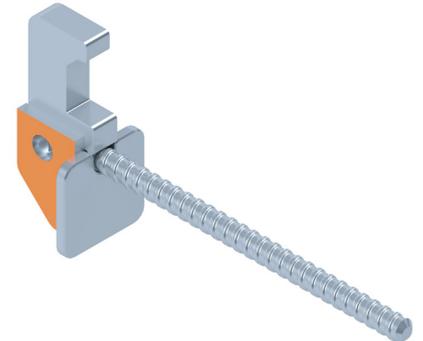
Material: Structural Steel, Electroplated finish

KT-Adjustable Panel Clamps

KT-Adjustable Panel Clamp is used to secure wall panels when Infill or timber packing is placed between the two Panels.

Product Code	Description (mm)	Weight (kg)
KAV0APC030043000EP	KT-Adjustable Panel Clamp for 300	4.5
KAV0APC015043000EP	KT-Adjustable Panel Clamp for 150	4.0

Material: Structural Steel, Electroplated finish

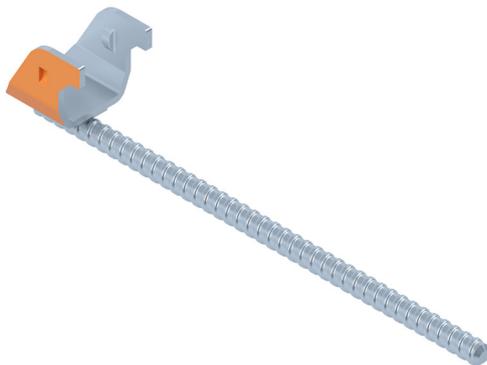


KT-Bulkhead Tie Clamp

The KT-Bulkhead Tie Clamp is used at the end of the wall to act as a stopper, ensuring secure positioning.

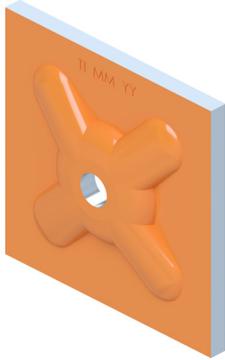
Product Code	Description	Weight (kg)
KAVBHTC000043000EP	KT-Bulkhead Tie Clamp	1.1

Material: Structural Steel, Electroplated finish



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Components



KT-Tie Anchor Plate

This is a heavy-duty Steel Plates used to support the Wing Nuts.

Product Codes	Description	Weight (kg)
KAV0TAP1414HT016EP	KT-Tie Anchor Plate 140x140mm	1.5

Material: Structural Steel, Electroplated finish

KT-Wing Nut

Used for fastening the Tie Rods

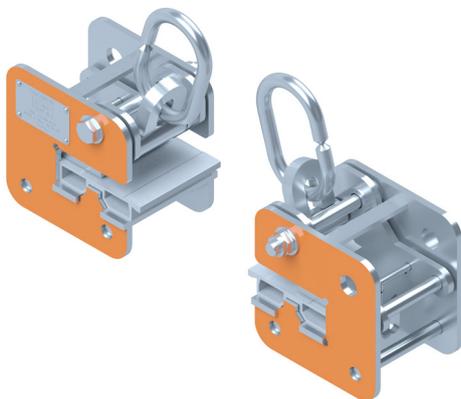
Product Code	Description	Weight (kg)
CWF0WGN00004300000	KT-Wing Nut Ø 16mm	0.3

Material: Structural Steel, Electroplated



KT-Lifting Bracket

KT-Lifting Bracket is used to lift the pre-assembled Wall panels with accessories firmly using crane.



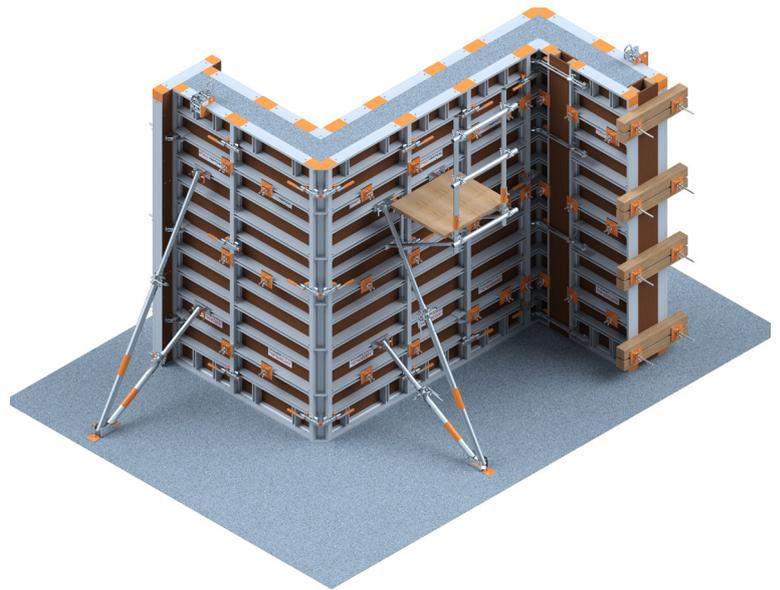
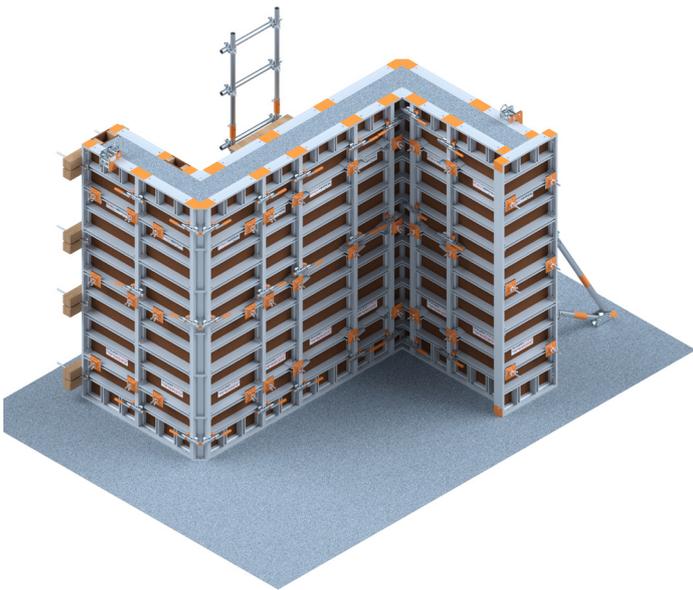
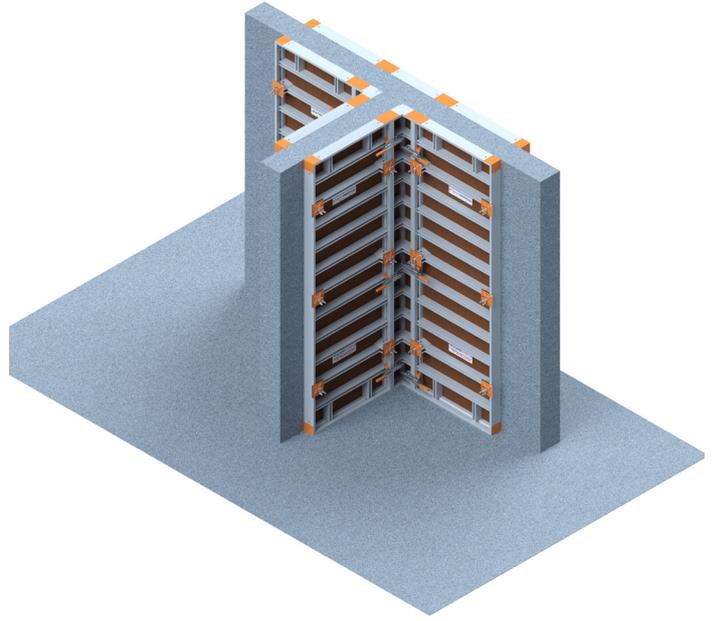
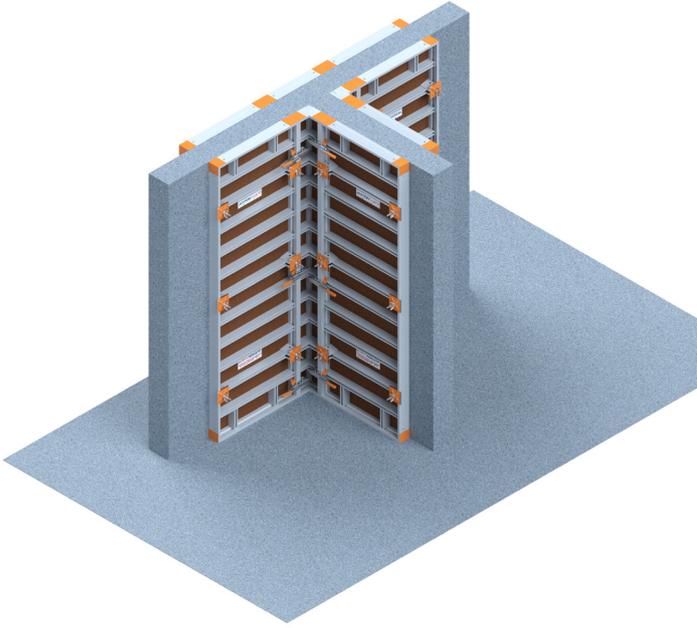
Product Code	Description	Weight (kg)
KAV0LBK000043000EP	KT-Lifting Bracket	8.3

Material: Structural Steel, Electroplated finish

Lifting capacity: 15kN

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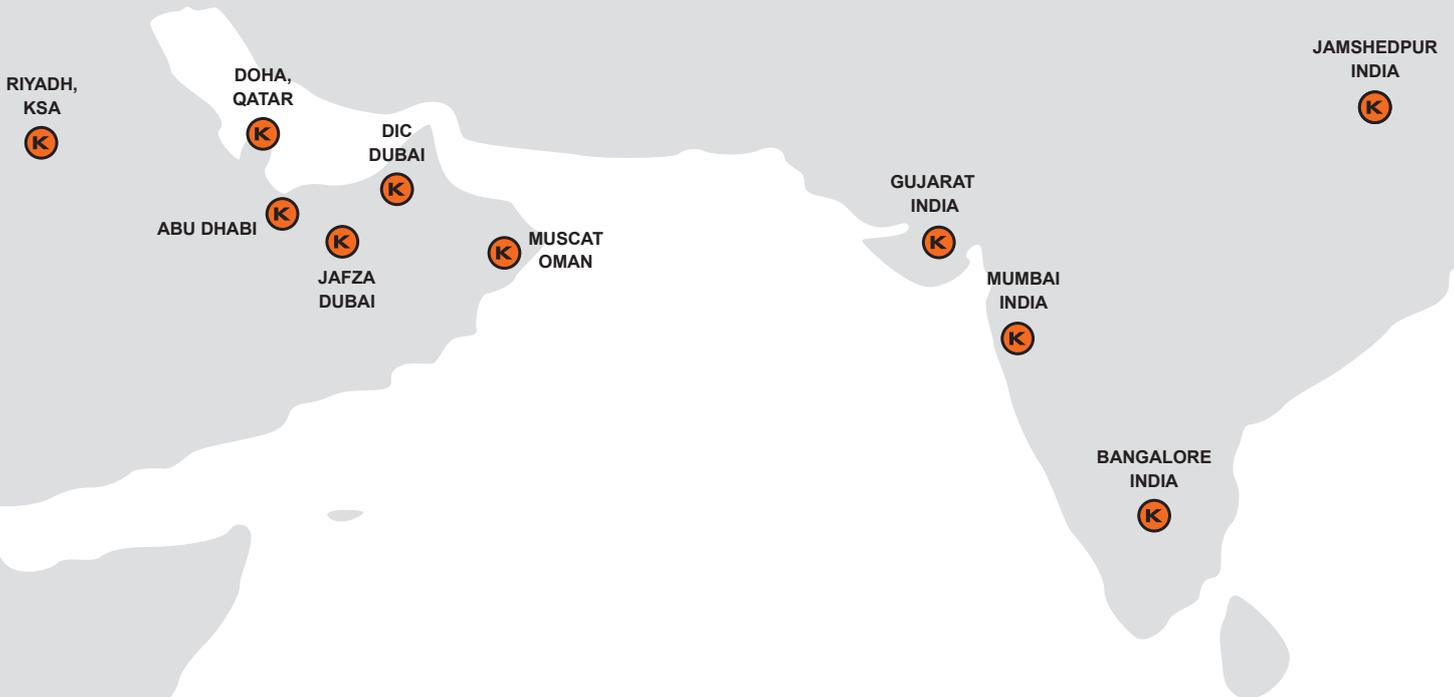
Wall Application



KIRTANLAL

SCAFFOLDING & FORMWORK

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