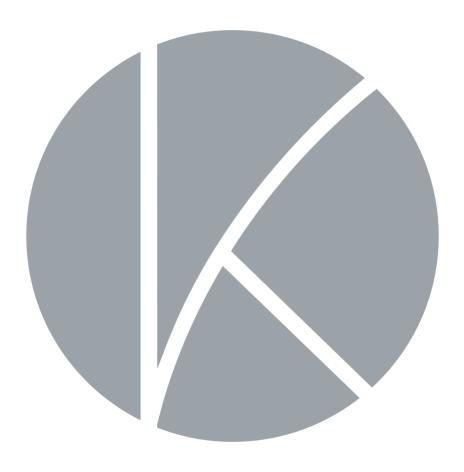


WE CARRY SUN'S ENERGY

SOLAR PANEL SUPPORT SYSTEMS



kiracmetal.com







Kıraç Group was established in 1981 with the vision to become a leading actor in the electrical market. The group includes separate entities titled as Kıraç Elektrik, Kıraç Metal, Kıraç Otomasyon, Kıraç Galvaniz, Emcekare, Pioneer Metal, Kıraç Group İnşaat and Kıraç Bilişim interconnected with each other creating a culture of inhouse support across eight different sectors. The Group invests in the future by prioritizing customer satisfaction through top quality products and services it offers since its establishment. The Group is conducting successful operations in Europe, Asia, Middle East and North America.

Kıraç Metal Ürünleri San. ve Tic. Ltd. Şti. was established in 2002 in order to manufacture cable trays. The Company has completed successful projects with its experienced and dynamic team. Its main manufacturing facility is located in Eskişehir Organized Industrial Zone. The facility is established on a total area of 20,250 sq.m having an indoors space of 12,150 sq.m. With a manufacturing capacity of 1,000 Tones/Month, Kıraç Metal produces Solar Panel Support and Mounting Systems, Cable Trays and Ladders, Supporting Components and Fittings plus Industrial-Type Electrical Panels. The facility is also designed to incorporate flexibility to adjust its manufacturing flow for tailored products. As one of the leading global manufacturers, Kıraç Metal is the choice of consumers for its high quality and customer oriented product and services, on time delivery policy and its pre/post-sales services. Kıraç Metal Ürünleri San. ve Tic. Ltd. Şti.'s primary export market is Europe while its products reach numerous other countries around the world.



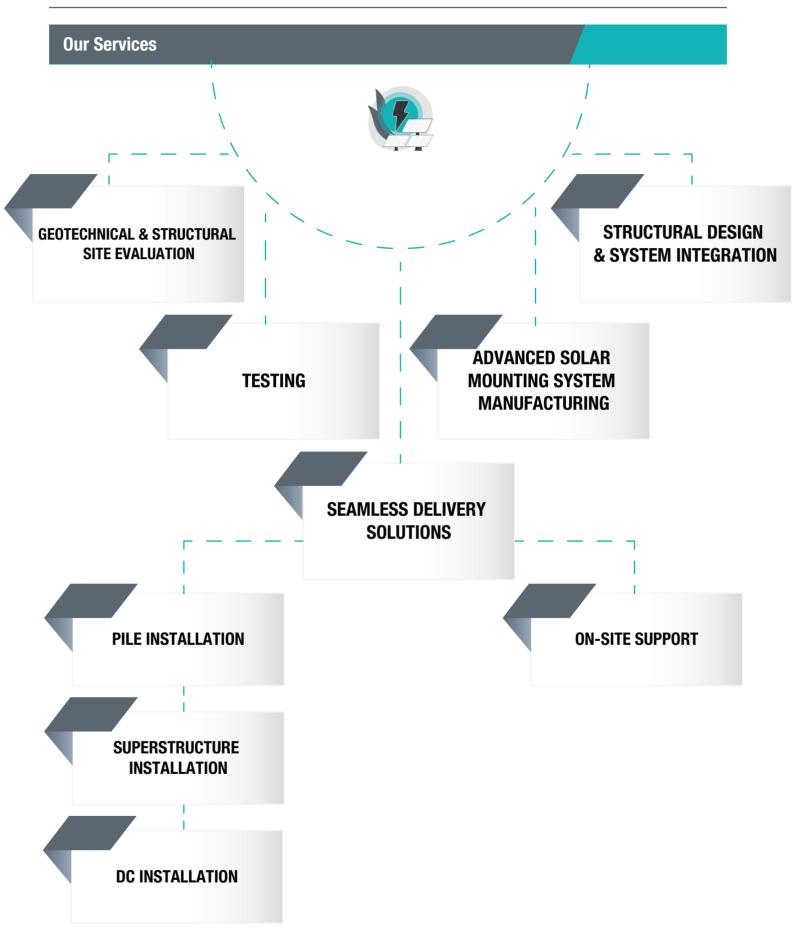
After solar panels and invertors, the most crucial equipment in a solar power plant are solar panel support systems. The reliability and effectiveness of a power plant is directly correlated with how support systems are designed in terms of strength and durability. Any mistake made during design phase may cause substantial damage to the facility. Furthermore, mounting equipment utilized in installing and connecting support equipment shall be selected from corrosion resistant materials which can withstand severe ambient conditions.

Kıraç Metal offers optimal solutions for support systems design by incorporating high-tech equipment to its advanced engineering capabilities. Variable and constant loads such as ground structure, snow load, earthquake load, wind load etc. are important in selecting support systems. Kıraç Metal has developed specific solutions for all types of land and roof applications. Kıraç Metal has a pioneering role in sector's development due to its capacity to manufacture support systems essential for solar power plants according to international standards enabling the meeting of varying market demand.



7-12	Our Services
13-14	(KPT1) Ground Driven Steel Mounting System With 2 Vertical Panels
15-16	(KPT1B) Ground Driven Steel Mounting System With 2 Bifacial Vertical Panels
17-18	(KPT2) Ground Driven Steel Mounting System With 4 Horizontal Panels
19-20	(KPT2B) Ground Driven Steel Mounting System With 4 Horizontal Panels
21-22	(KPT3) Ground Screwed Steel Mounting System With 2 Vertical Panels
23-24	(KPT3B) Ground Screwed Steel Mounting System With 2 Bifacial Vertical Panels
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29-30	(KPT5) Concrete Base Anchored Steel Mounting System With 2 Vertical Panels
31-32	(KPT5B)Concrete Base Anchored Steel Mounting System With 2 Bifacial Vertical Panels
33-34	(KPT6) Concrete Base Anchored Steel Mounting System With 4 Horizontal Panels
35-36	(KPT6B) Concrete Base Anchored Steel Mounting System With 4 Horizontal Panels
37-38	(KPT7) Concrete Embedded Steel Mounting System With 2 Vertical Panels
39-40	(KPT7B) Concrete Embedded Steel Mounting System With 2 Bifacial Vertical Panels
41-42	(KPT8) Concrete Embedded Steel Mounting System With 4 Horizontal Panels
43-44	(KPT8B) Concrete Embedded Steel Mounting System With 4 Horizontal Panels
45-46	(KPT9) Ground Driven East-West Steel Mounting System With 2 Vertical Panel Of Each Side
47	(KPT10-KPT11-KPT12) East-West Foundation Types
48-49	(KPT13) Ground Driven Single Column Steel Mounting System With 2 Vertical Panels
50-51	(KPT14) Ground Driven Steel Single Axis Solar Tracking System With 1 Vertical Panel
52	(KPT15-KPT16-KPT17) Single Axis Tracker Foundation Types
53-54	(KPT18) Concrete Anchor Steel Car Park Mounting System For 2 Cars With 3 Or 4 Vertical Panels
55-56	(KPT21) Flat Roof Aluminium Mounting Systems
57-58	(KPT29) Trapezoid Roof Mounting Systems
59-60	(KPT30) Tile Roof Steel And Aluminum Mounting Systems
61	Combiner Box (DC Combiner)
62	String Combiners Box / Ag Main Combiner Box
63	Product Description Compliant With The 2024 EU CBAM
64	Certifications





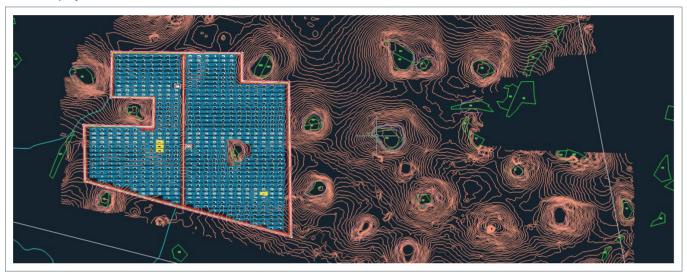


1 - Geotechnical & Structural Site Evaluation

At Kıraç Metal, our design process begins where it matters most — with the land itself.

We start by conducting a meticulous analysis of geotechnical, topographical, and foundation data to fully understand the unique characteristics of each site. This insight allows us to engineer tailored foundation solutions, optimized structural designs, and robust corrosion protection systems — all built to last.

By investing in this level of detail from day one, we deliver more than just mounting systems — we deliver long-term value. Our precision-driven approach minimizes risks, maximizes performance, and ultimately saves our customers money over the lifetime of their solar project.



2 - Testing

Pull-Out Testing

Pull-Out Testing is a crucial step in our preparation process, involving the installation and removal of test piles. This procedure plays a vital role in assessing the soil's tension, lateral, and uplift capacities.

It's not just about ensuring the foundation can support solar panels; it's about ensuring the structure can withstand additional environmental stresses, such as wind and weight loads.

By conducting thorough pile testing, we guarantee the long-term stability and reliability of your project, ensuring it performs optimally in all conditions.

This service is not available in all countries, please contact us for information.





3 - Structural Design & System Integration

Precision-Engineered. Effortlessly Installed. Guaranteed to Last.

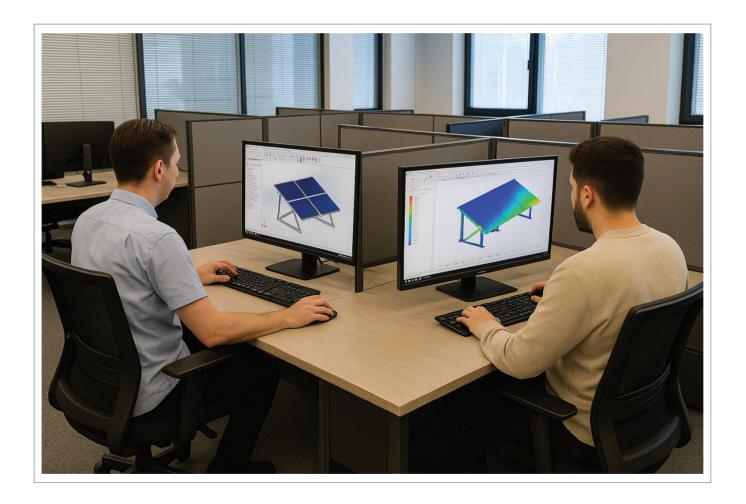
At Kıraç Metal, every system is expertly engineered for performance and designed for ease — delivering tailored solar mounting solutions backed by warranties of up to 10 years.

Using advanced technology and precision modelling, our engineers fine-tune each design to meet the unique demands of your site and environmental conditions, ensuring maximum efficiency and long-term reliability.

Installation is made simple. Our systems are developed with practical innovation at their core: one fixing size across the board, outstanding adjustability, and clever design features that significantly reduce the need for working at height — saving time, cost, and improving safety.

As an ISO 9001-certified company Kıraç Metal stands behind the quality and integrity of everything we deliver — from concept to completion, and beyond.

With **Kırac Metal**, you're never on your own — because real support starts on site.





4 - Advanced Solar Mounting System Manufacturing

Our state-of-the-art manufacturing facilities, based in Turkey and managed by our in-house team of experts, boast an annual production capacity of over 2 GW for solar PV mounting system.

With cutting-edge technology and a dedicated team, we ensure high-quality production at scale, meeting the growing demand for sustainable energy solutions worldwide.



5 - Seamless Delivery Solutions

We ensure your orders arrive on time, every time. Committed to transparency—no hidden fees, no delays—we guarantee a smooth delivery process, giving you the peace of mind that your products will reach you reliably and without surprises. With our efficient logistics network and clear communication, we prioritize customer satisfaction by providing prompt and dependable delivery for every order.





6- On-Site Support – We're With You Every Step of the Way

Every system we deliver comes with a clear, step-by-step installation guide designed for quick and easy setup. But we know that sometimes, you need more than just instructions.

That's why our experienced on-site support team is always ready to assist — whether it's a quick call to walk you through the process or a site visit to provide hands-on help.

Our goal is to ensure your installation runs smoothly and efficiently, minimizing downtime and eliminating guesswork. From start to finish, we're committed to delivering reliable, solution-driven support tailored to your project's unique needs.

This site support is not available in all countries, please contact us for more information.



7 - Pile Installation – Building a Solid Foundation for Solar Success

Our pile installation process is designed to adapt seamlessly to diverse terrain conditions, utilizing advanced pile driving techniques to establish a strong and stable foundation for solar energy systems.

Equipped with state-of-the-art machinery capable of handling post lengths up to 4-6 meters, our expert team ensures the deep, secure, and precise installation of all standard pile profiles. This enables us to deliver maximum structural integrity and long-term performance, even in the most challenging environments.

As a crucial first step in any solar project, proper pile installation plays a vital role in ensuring the long-term stability and durability of the system, tailored to meet the unique demands of each site.

This service is not available in all countries, please contact us for information.





8 - Superstructure Installation - Perfect Fit on a Solid Foundation

Following the secure driving of the foundation pile into the ground, Kıraç Metal's expert teams begin the superstructure assembly, forming the main structure of the support system. At this stage, horizontal beams, diagonal supports and purlin profiles are installed according to a project-specific layout plan.

All components are manufactured from high-strength materials with multiple configuration options and are implemented based on wind and snow load calculations specific to the project location. All bolted connections are tightened with torque-controlled precision, and the structural integrity of the system is thoroughly inspected.

Thanks to the modular design approach, fast installation, flexible adaptation, and significant time savings on-site are achieved. With Kıraç Metal, experience engineering excellence built on a strong foundation.

This service is not available in all countries, please contact us for information.



9 - DC Installation - Safe and Efficient Power Transfer

At Kıraç Metal, we carry out DC installation processes in solar energy projects in full compliance with high technical standards. From PV modules to inverters, we ensure maximum system efficiency and safety through proper cable sizing, voltage drop optimization, UV-resistant components, and well-organized cable routing.

All connections are tailored to site-specific conditions to enable fast installation, long service life, and minimal maintenance requirements.

With the assurance of Kıraç Metal, your DC infrastructure stays strong on site, and your energy flow remains uninterrupted.

This service is not available in all countries, please contact us for information.

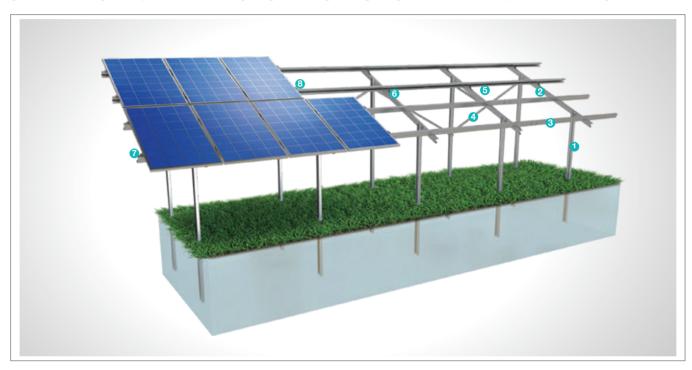




(KPT1) Ground Driven Steel Mounting System with 2 Vertical Panels

Overview

KPT1, is a ground driven steel support and mounting system with 2 vertical panels for open terrain solar panels. The system is an optimal application solution for installations of PV projects on large and medium-sized terrains. After manufacturing the system components with high-technology machines and equipment, an excellent corrosion resistance is then achieved through hot-dip galvanized coating. The system, incorporating a high-level engineering design, provides assembly and cost advantages.



STEEL COLUMN



■ CK-90 / CK-100 / CK-120

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

PURLIN CONNECTOR JOINING



■ C90 / C100 / C110

M12X30 Hex Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

STEEL BEAM



■ CR-100 / CR-120

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PURLIN CONNECTOR



M8X30 Hex Bolt M8 Flanged Nut M8 Washer M8 Spring Washer



■ CA-90 / CA-100 / CA-110

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PANEL SIDE RETAINER



■ H30-H32-H40

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL SUPPORT



■ U-40X34

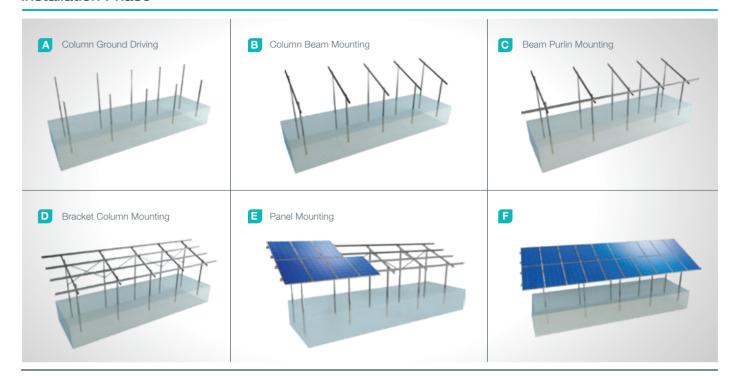
M12X30 Hex Bolt M12 Flanged Nut M12 Washer M8/M12 Spring Washer

PANEL CENTER RETAINER



M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer





Advantages

- Time saving for installation
- Cost saving for installation
- Flexible solutions for different types of terrains
- Suitable solutions for combiner box and inverter installation
- Tailored design solutions for customer
- Customer oriented engineering solutions

Description:	(KPT1) Ground Driven Steel Mounting System with 2 Vertical Panels
Mounting Method:	Ground Driving
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 6923/ DIN 125 / DIN 127 / DIN 9021



(KPT1B) Ground Driven Steel Mounting System with 2 Vertical Panels

Overview

KPT1B, is a ground driven steel support and mounting system with 2 vertical panels for open terrain solar panels. The system is an optimal application solution for installations of PV projects on large and medium-sized terrains. After manufacturing the system components with high-technology machines and equipment, an excellent corrosion resistance is then achieved through hot-dip galvanized coating. The system, incorporating a high-level engineering design, provides assembly and cost advantages.







■ CC-90 / CC-100 / CC-120

M12x30 Hex Head Bolt M12 Washer M12 Spring Washer M12 Flanged Nut

Connector Joining Piece



■ C90 / C100 / C110

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

Steel Beam



■ CC-100 / CC-110 / CC-120

M12x30 Hex Head Bolt M12 Washer M12 Spring Washer M12 Flanged Nut M8x25 Hex Head Bolt M8 Washer M8 Spring Washer M8 Flanged Nut

Panel Side Retainer



■ H30-H32-H40

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

Steel Purlin



■ CC-80 / CC-90 / CC-100 / CC-120

M12x30 Hex Head Bolt M12 Washer M12 Spring Washer M12 Flanged Nut

Panel Middle Retainer



■ L60

M8X30 Imbus Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

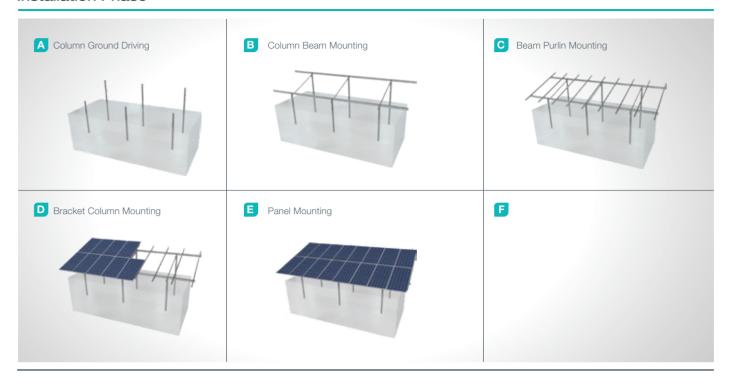
Steel Support



■ U- 40X34

M12x30 Hex Head Bolt M12 Washer M12 Spring Washer M12 Flanged Nut





Advantages

- Time saving for installation
- Cost saving for installation
- Flexible solutions for different types of terrains
- Suitable solutions for combiner box and inverter installation
- Tailored design solutions for customer
- Customer oriented engineering solutions

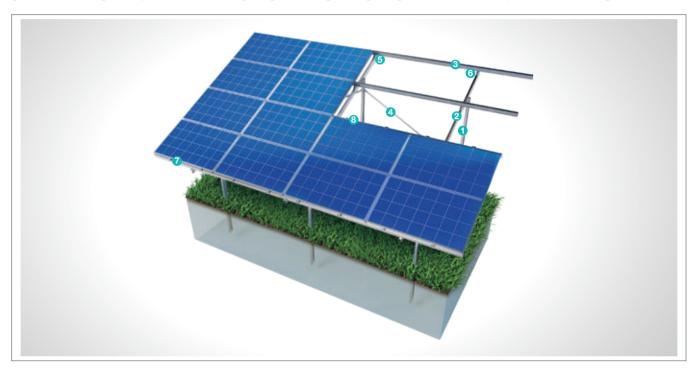
Description:	(KPT1B) Ground Driven Steel Mounting System with 2 Vertical Panels
Mounting Method:	Ground Driving
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 6923 / DIN 125 / DIN 127 / DIN 9021



(KPT2) Ground Driven Steel Mounting System with 4 Horizontal Panels

Overview

KPT2, is a ground driven steel support and mounting system with 4 horizontal panels for open terrain solar panels. The system is an optimal application solution for installations of PV projects on large and medium-sized terrains. After manufacturing the system components with high-technology machines and equipment, an excellent corrosion resistance is then achieved through hot-dip galvanized coating. The system, incorporating a high-level engineering design, provides assembly and cost advantages.



STEEL COLUMN



■ CK-90 / CK-100 / CK-120

M12x30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

PURLIN CONNECTOR JOINING



■ C-90 / C-100 / C-110

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

STEEL BEAN



■ CR-100 / CR-120

M12X30 Hex Head Bolt M12 Flanged Nut M8X30 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PURLIN CONNECTOR PIECE



■ U40

M8X30 Hex Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL PURLIN



■ CA-90 / CA-100 / CA-110

M12X30 Hex Head Bolt M12 Flanged Nut M8X30 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PANEL SIDE RETAINER



■ H30-H32-H40

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL SUPPORT



■ U-40X34

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

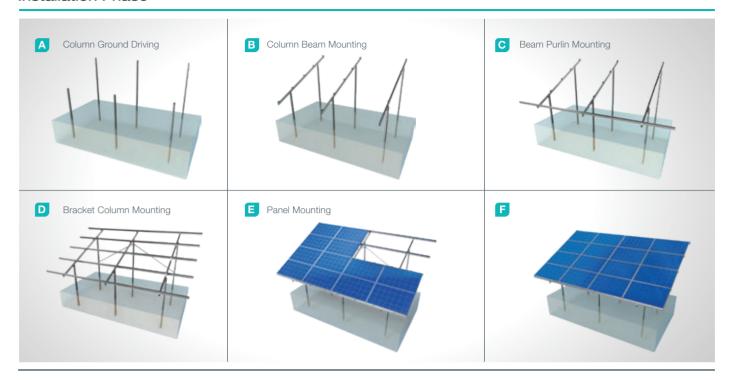
PANEL CENTER RETAINER



L60

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer





Advantages

- Time saving for installation
- Cost saving for installation
- Flexible solutions for different types of terrains
- Suitable solutions for combiner box and inverter installation
- Tailored design solutions for customer
- Customer oriented engineering solutions

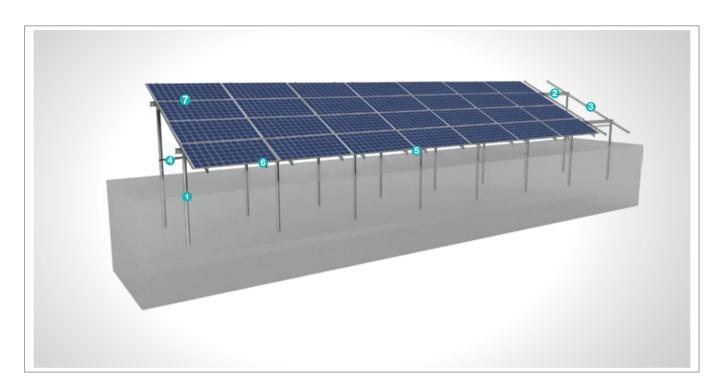
Description:	(KPT2) Ground Driven Steel Mounting System with 4 Horizontal Panels
Mounting Method:	Ground Driving
Tilt angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 6923 / DIN 125 / DIN 127 / DIN 9021



(KPT2B) Ground Driven Steel Mounting System with 4 Horizontal Panels

Overview

KPT2B, is a ground driven steel support and mounting system with 4 horizontal panels for open terrain solar panels. The system s an optimal application solution for installations of PV projects on large and medium-sized terrains. After manufacturing the system components with high-technology machines and equipment, an excellent corrosion resistance is then achieved through hot-dip galvanized coating. The system, incorporating a high-level engineering design, provides assembly and cost advantages.



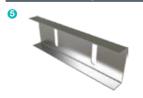




■ CC-90 / CC-100 / CC-120

M12x30 Hex Head Bolt M12 Washer M12 Spring Washer M12 Flanged Nut

Connector Joining Piee



■ C90 / C100 / C110

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer www.kiracmetal.com

Steel Beam



■ CC-100 / CC-110 / CC-120

M12x30 Hex Head Bolt M12 Washer M12 Spring Washer M12 Flanged Nut M8x25 Socket Head Bolt M8 Washer M8 Spring Washer M8 Flanged Nut

Panel Side Retainer



■ H30-H32-H40

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

Steel Purlin



■ CC-80 / CC-90 / CC-100 / CC-120

M12x30 Hex Head Bolt M12 Washer M12 Spring Washer M12 Flanged Nut

Panel Middle Retainer



■ L70

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

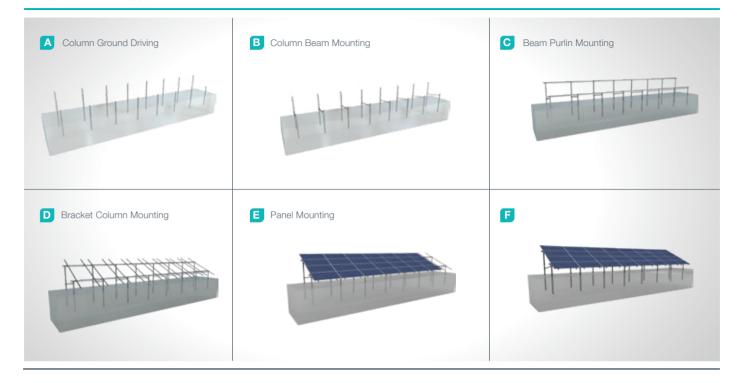
Steel Support



■ U-40X34

M12x30 Hex Head Bolt M12 Washer M12 Spring Washer M12 Flanged Nut





Advantages

- Time saving for installation
- Cost saving for installation
- Flexible solutions for different types of terrains
- Suitable solutions for combiner box and inverter installation
- Tailored design solutions for customer
- Customer oriented engineering solutions

Description:	(KPT2B) Ground Driven Steel Mounting System with 4 Horizontal Panels
Mounting Method:	Ground Driving
Tilt angle:	0-60 Degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 6923 / DIN 125 / DIN 127 / DIN 9021



(KPT3) Ground Screwed Steel Mounting System with 2 Vertical Panels

Overview

KPT3, is a steel support and mounting system for open terrain solar panels with 2 vertical panels installed to the ground with screw piles. The system is an optimal application solution for installations of PV projects on irregular terrains. The screw piles have high strength properties and can be used any time of the year for application purposes. They are not affected by vibrations generated by ambient conditions such as wind or storm due to their high load strength. After manufacturing the system components with high-technology machines and equipment, an excellent corrosion resistance is then achieved through hot-dip galvanized coating. The system, incorporating a high-level engineering design, provides assembly and cost advantages.



STEEL COLUMN



■ CK-90 / CK-100 / CK-120

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

PURLIN CONNECTOR JOINING



■ C-90 / C-100 / C-110 M12X30 Hex Head Bolt

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

STEEL BEAM



■ CR-100 / CR-120

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PURLIN CONNECTOR PIECE



■ U40

M8X25 Hex Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL PURLIN



■ CA-90 / CA-100 / CA-110

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PANEL SIDE RETAINER



■ H30-H32-H40

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL SUPPORT



■ U-40X34

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

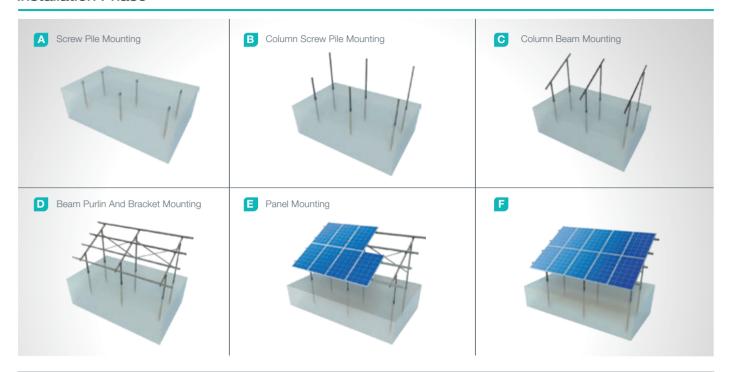
PANEL CENTER RETAINER



■ L60

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer





Advantages

- Time saving for installation
- Cost saving for installation
- Flexible solutions for different types of terrains
- Screw Piles do not require preliminary drilling and concrete
- All year round mounting capability
- Assembly can be commenced immediately
- After screw pile mounting on ground
- Re-use opportunity in some cases
- Screw pile vibration damping
- Tailored design solutions for customer
- Customer oriented engineering solutions

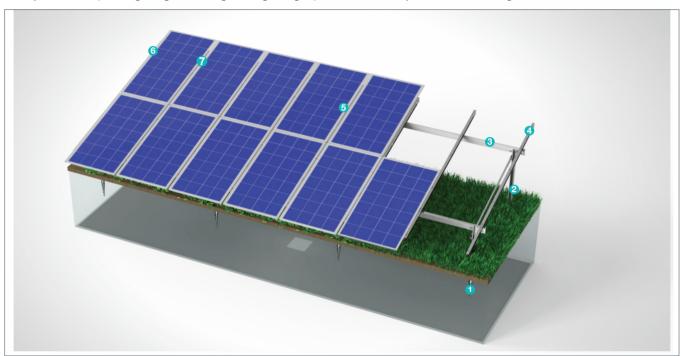
Description:	(KPT3) Ground Screwed Steel Mounting System with 2 Vertical Panels
Mounting Method:	Ground Screwing
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 6923/ DIN 125 / DIN 127 / DIN 9021



(KPT3B) Ground Screwed Steel Mounting System with 2 Vertical Bifacial Panels

Overview

KPT3B, is a steel support and mounting system for open terrain solar panels with 2 vertical panels installed to the ground with screw piles. The system is an optimal application solution for installations of PV projects on irregular terrains. The screw piles have high strength properties and can be used any time of the year for application purposes. They are not affected by vibrations generated by ambient conditions such as wind or storm due to their high load strength. After manufacturing the system components with high-technology machines and equipment, an excellent corrosion resistance is then achieved through hot-dip galvanized coating. The system, incorporating a high-level engineering design, provides assembly and cost advantages.







■ CK-90 / CK-100 / CK-120

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

PURLIN CONNECTOR JOINING



C-90 / C-100 / C-110 M12X30 Hex Head Bolt

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

STEEL BEAN



■ CR-100 / CR-120

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PANEL SIDE RETAINER



■ H30-H32-H40

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL PURLIN



■ CA-90 / CA-100 / CA-110

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PANEL CENTER RETAINER



■ L60

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

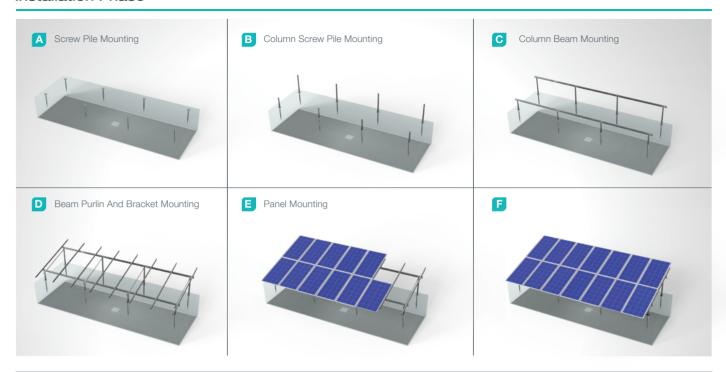
STEEL SUPPORT



■ U-40X34

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer





Advantages

- Time saving for installation
- Cost saving for installation
- Flexible solutions for different types of terrains
- Screw Piles do not require preliminary drilling and concrete
- All year round mounting capability
- Assembly can be commenced immediately
- After screw pile mounting on ground
- Re-use opportunity in some cases
- Screw pile vibration damping
- Tailored design solutions for customer
- Customer oriented engineering solutions

Description:	(KPT3B) Ground Screwed Steel Mounting System with 2 Vertical Panels
Mounting Method:	Ground Screwing
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 6923/ DIN 125 / DIN 127 / DIN 9021



(KPT4) Ground Screwed Steel Mounting System with 4 Horizontal Panels

Overview

KPT4, is a ground driven steel support and mounting system with 4 horizontal panels for open terrain solar panels. The system is an optimal application solution for installations of PV projects on irregular terrains. The screw piles have high strength properties and can be used any time of the year for application purposes. They are not affected by vibrations generated by ambient conditions such as wind or storm due to their high load strength. After manufacturing the system components with high-technology machines and equipment, an excellent corrosion resistance is then achieved through hot-dip galvanized coating. The system, incorporating a high-level engineering design, provides assembly and cost advantages.



STEEL COLUMN



■ CK-90 / CK-100 / CK-120

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

PURLIN CONNECTOR JOINING



C-90 / C-100 / C-110 M12X30 Hex Head Bolt

M12X30 Hex Head E M12 Flanged Nut M12 Washer M12 Spring Washer

STEEL BEAM



■ CR-100 / CR-120

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PURLIN CONNECTOR PIECE



■ U40

M8X25 Hex Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL PURLIN



■ CA-90 / CA-100 / CA-110

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PANEL SIDE RETAINER



■ H30-H32-H40

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL SUPPORT



■ U-40X34

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

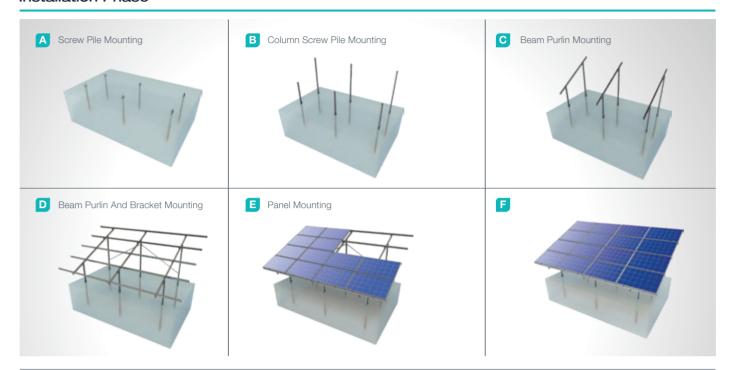
PANEL CENTER RETAINER



■ L60

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer





Advantages

- Time saving for installation
- Cost saving for installation
- Flexible solutions for different types of terrains
- Screw Piles do not require preliminary drilling and concrete
- All year round mounting capability
- Assembly can be commenced immediately
- After screw pile mounting on ground
- Re-use opportunity in some cases
- Screw pile vibration damping
- Tailored design solutions for customer
- Customer oriented engineering solutions

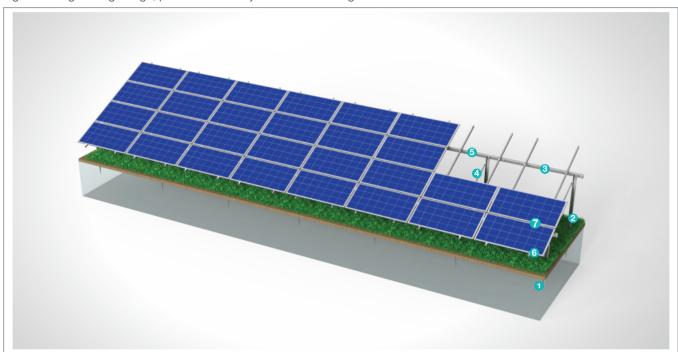
Description:	(KPT4) Ground Screwed Steel Mounting System with 4 Horizontal Panels
Mounting Method:	Ground Screwing
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 6923/ DIN 125 / DIN 127 / DIN 9021



(KPT4B) Ground Screwed Steel Mounting System with 4 Horizontal Panels

Overview

KPT4B, is a ground driven steel support and mounting system with 4 horizontal panels for open terrain solar panels. The system is an optimal application solution for installations of PV projects on irregular terrains. The screw piles have high strength properties and can be used any time of the year for application purposes. They are not affected by vibrations generated by ambient conditions such as wind or storm due to their high load strength. After manufacturing the system components with high-technology machines and equipment, an excellent corrosion resistance is then achieved through hot-dip galvanized coating. The system, incorporating a high-level engineering design, provides assembly and cost advantages.







■ CK-90 / CK-100 / CK-120

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

PURLIN CONNECTOR JOINING



■ C-90 / C-100 / C-110

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

STEEL BEAM



■ CR-100 / CR-120

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PANEL SIDE RETAINER



■ H30-H32-H40 M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL PURLIN



■ CA-90 / CA-100 / CA-110

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PANEL CENTER RETAINER



M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

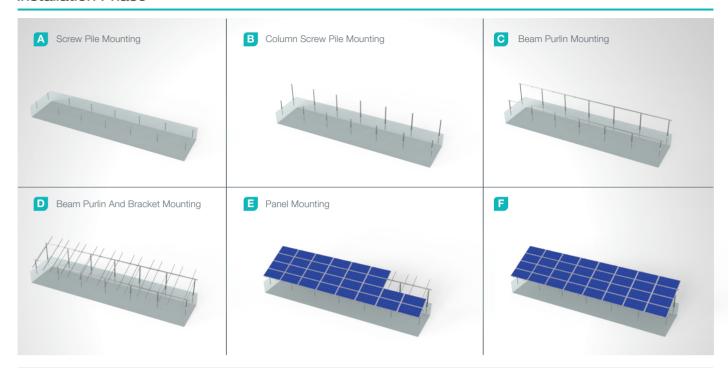
STEEL SUPPORT



■ U-40X34

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer





Advantages

- Time saving for installation
- Cost saving for installation
- Flexible solutions for different types of terrains
- Screw Piles do not require preliminary drilling and concrete
- All year round mounting capability
- Assembly can be commenced immediately
- After screw pile mounting on ground
- Re-use opportunity in some cases
- Screw pile vibration damping
- Tailored design solutions for customer
- Customer oriented engineering solutions

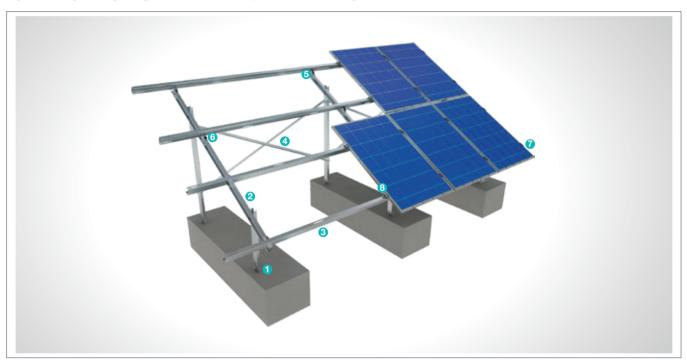
	(I/DTAD) O I O I O I M I'
Description:	(KPT4B) Ground Screwed Steel Mounting System with 4 Horizontal Panels
Mounting Method:	Ground Screwing
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 6923/ DIN 125 / DIN 127 / DIN 9021



(KPT5) Concrete Base Anchored Steel Mounting System with 2 Vertical Panels

Overview

KPT5, is a concrete base anchored steel support and mounting system with 2 vertical panels for open terrain solar panels. The system is an ideal application solution for PV projects installations on slopped medium and large sized terrains. It provides the necessary strength and stability for application in loose ground. After manufacturing the system components with high-technology machines and equipment, an excellent corrosion resistance is then achieved through hot-dip galvanized coating. The system, incorporating a high-level engineering design, provides assembly and cost advantages.



STEEL COLUMN



■ CK-90 / CK-100 / CK-120

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

PURLIN CONNECTOR JOINING



■ C-90 / C-100 / C-110

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

STEEL BEAM



■ CR-100 / CR-120

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PURLIN CONNECTOR PIECE



M8X25 Hex Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL PURLIN



■ CA-90 / CA-100 / CA-110

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PANEL SIDE RETAINER



■ H30-H32-H40

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL SUPPORT



■ U-40X34

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

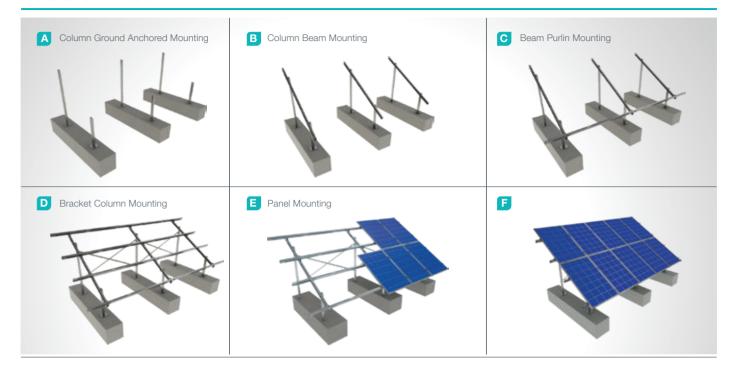
PANEL CENTER RETAINER



■ L60

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer





Advantages

- Time saving for installation
- Cost saving for installation
- Flexible solutions for different types of terrains
- Suitable for loose ground
- Suitable for slopped terrains
- Tailored design solutions for customer
- Customer oriented engineering solutions

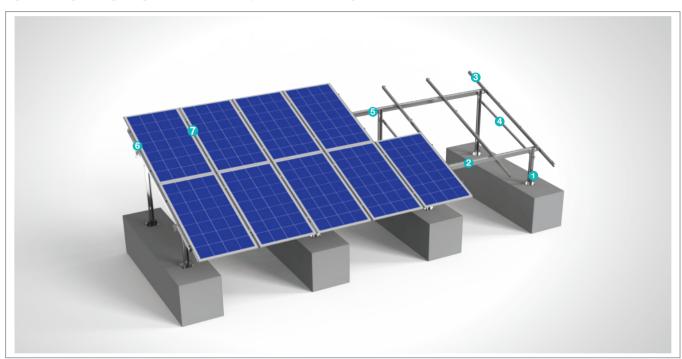
Description:	(KPT5) Concrete Base Anchored Steel Mounting System with 2 Vertical Panels
Mounting Method:	Anchor on Concrete Base
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 6923 / DIN 125 / DIN 127 / DIN 9021



(KPT5B) Concrete Base Anchored Steel Mounting System with 2 Vertical Bifacial Panels

Overview

KPT5B is a concrete base anchored steel support and mounting system with 2 vertical panels for open terrain solar panels. The system is an ideal application solution for PV projects installations on slopped medium and large sized terrains. It provides the necessary strength and stability for application in loose ground. After manufacturing the system components with high-technology machines and equipment, an excellent corrosion resistance is then achieved through hot-dip galvanized coating. The system, incorporating a high-level engineering design, provides assembly and cost advantages.



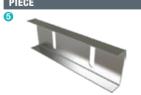
STEEL COLUMN



■ CK-90 / CK-100 / CK-120

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

PURLIN CONNECTOR JOINING



■ C-90 / C-100 / C-110

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

STEEL BEAM



■ CR-100 / CR-120

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PANEL SIDE RETAINER



■ H30-H32-H40

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL PURLIN



■ CA-90 / CA-100 / CA-110

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PANEL CENTER RETAINER



L60

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

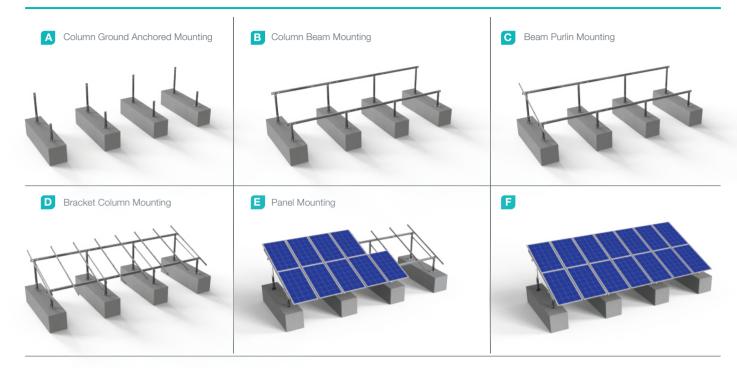
STEEL SUPPORT



■ U-40X34

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer





Advantages

- Time saving for installation
- Cost saving for installation
- Flexible solutions for different types of terrains
- Suitable for loose ground
- Suitable for slopped terrains
- Tailored design solutions for customer
- Customer oriented engineering solutions

Description:	(KPT5B) Concrete Base Anchored Steel Mounting System with 2 Vertical Panels
Mounting Method:	Anchor on Concrete Base
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 6923 / DIN 125 / DIN 127 / DIN 9021



(KPT6) Concrete Base Anchored Steel Mounting System with 4 Horizontal Panels

Overview

KPT6, is a concrete base anchored steel support and mounting system with 4 horizontal panels for open terrain solar panels. The system is an ideal application solution for PV projects installations on slopped medium and large sized terrains. It provides the necessary strength and stability for application in loose ground. After manufacturing the system components with high-technology machines and equipment, an excellent corrosion resistance is then achieved through hot-dip galvanized coating. The system, incorporating a high-level engineering design, provides assembly and cost advantages.



STEEL COLUMN



■ CK-90 / CK-100 / CK-120

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

PURLIN CONNECTOR JOINING PIECE



■ C-90 / C-100 / C-110

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

STEEL BEAM



■ CR-100 / CR-120

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PURLIN CONNECTOR PIECE



■ U40

M8X25 Hex Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL PURLI



■ CA-90 / CA-100 / CA-110

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PANEL SIDE RETAINER



■ H30-H32-H40

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL SUPPORT



■ U-40X34

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

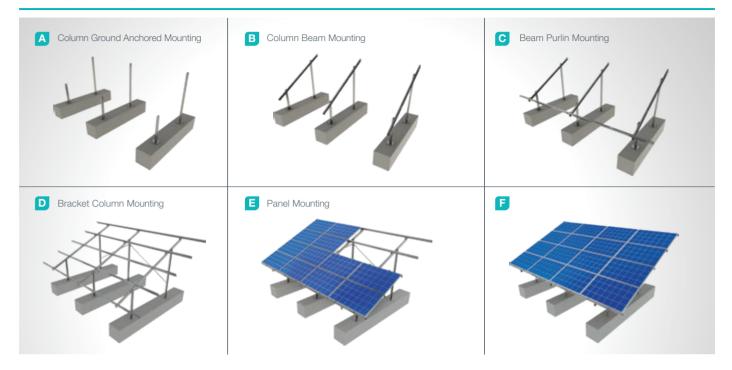
PANEL CENTER RETAINER



■ L60

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer





Advantages

- Time saving for installation
- Cost saving for installation
- Flexible solutions for different types of terrains
- Suitable for loose ground
- Suitable for slopped terrains
- Tailored design solutions for customer
- Customer oriented engineering solutions

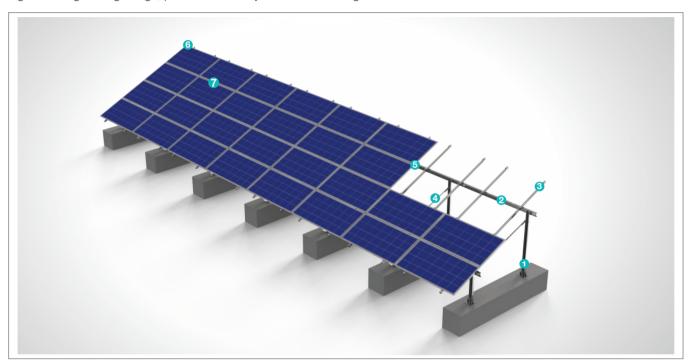
Description:	(KPT6) Concrete Base Anchored Steel Mounting System with 4 Horizontal Panels
Mounting Method:	Anchor on Concrete Base
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 6923/ DIN 125 / DIN 127 / DIN 9021



(KPT6B) Concrete Base Anchored Steel Mounting System with 4 Horizontal Panels

Overview

KPT6B is a concrete base anchored steel support and mounting system with 4 horizontal panels for open terrain solar panels. The system is an ideal application solution for PV projects installations on slopped medium and large sized terrains. It provides the necessary strength and stability for application in loose ground. After manufacturing the system components with high-technology machines and equipment, an excellent corrosion resistance is then achieved through hot-dip galvanized coating. The system, incorporating a high-level engineering design, provides assembly and cost advantages.



STEEL COLUMN



■ CK-90 / CK-100 / CK-120

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

PURLIN CONNECTOR JOINING PIECE



■ C-90 / C-100 / C-110

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

STEEL BEAM



■ CR-100 / CR-120

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PANEL SIDE RETAINER



■ H30-H32-H40

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL PURLIN



■ CA-90 / CA-100 / CA-110

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PANEL CENTER RETAINER



■ L60

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

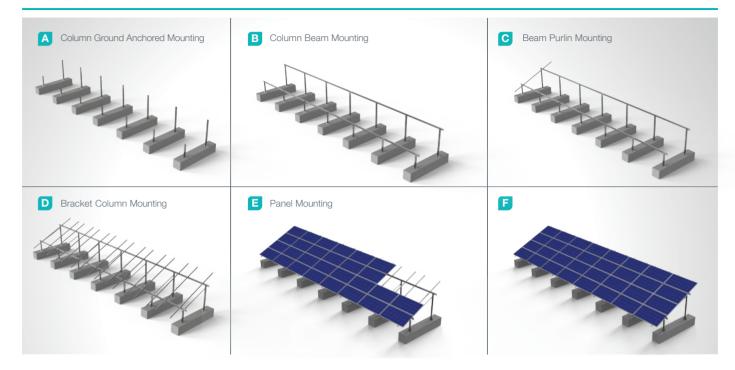
STEEL SUPPORT



■ U-40X34

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer





Advantages

- Time saving for installation
- Cost saving for installation
- Flexible solutions for different types of terrains
- Suitable for loose ground
- Suitable for slopped terrains
- Tailored design solutions for customer
- Customer oriented engineering solutions

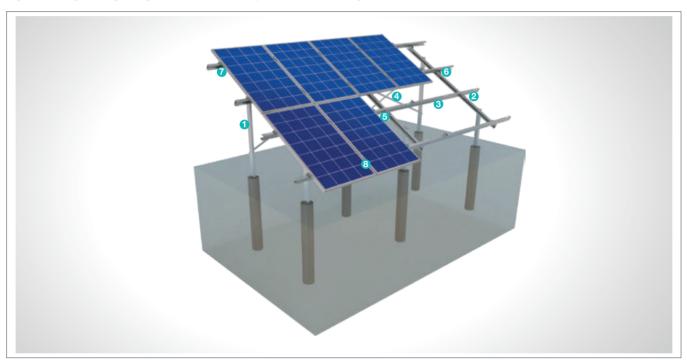
Description:	(KPT6B) Concrete Base Anchored Steel Mounting System with 4 Horizontal Panels
Mounting Method:	Anchor on Concrete Base
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 6923/ DIN 125 / DIN 127 / DIN 9021



(KPT7) Concrete Embedded Steel Mounting System with 2 Vertical Panels

Overview

KPT7, is a concrete embedded steel support and mounting system with 2 vertical panels for open terrain solar panels. The system is an ideal application solution for PV projects installations on medium and large sized terrains with loose ground. Necessary strength is achieved by application in loose ground. After manufacturing the system components with high-technology machines and equipment, an excellent corrosion resistance is then achieved through hot-dip galvanized coating. The system, incorporating a high-level engineering design, provides assembly and cost advantages.



STEEL COLUMN





CK-90 / CK-100 / CK-120

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

PURLIN CONNECTOR JOINING



C-90 / C-100 / C-110

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

STEEL BEAM





■ CR-100 / CR-120

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PURLIN CONNECTOR PIECE





■ U40

M8X25 Hex Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL PURLIN





CA-90 / CA-100 / CA-110

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PANEL SIDE RETAINER





H30-H32-H40

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL SUPPORT





■ U-40X34

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

PANEL CENTER RETAINER

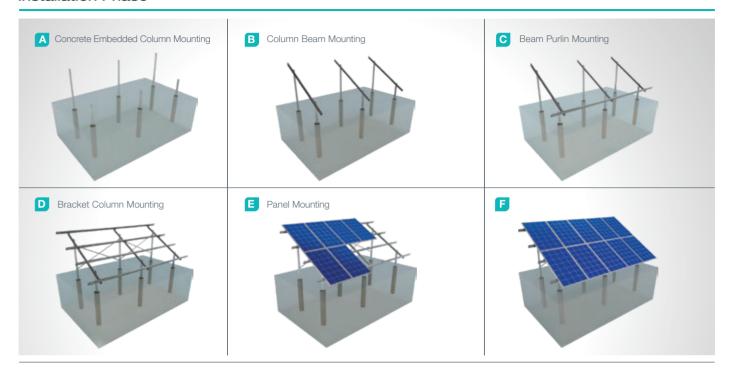




L60

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer





Advantages

- Time saving for installation
- Cost saving for installation
- Suitable solutions for combiner box and inverter installation
- Suitable solutions for different terrains
- Suitable for loose ground
- Tailored design solutions for customer
- Customer oriented engineering solutions

Description:	(KPT7) Concrete Embedded Steel Mounting System with 2 Vertical Panels
Mounting Method:	Concrete Embedded Column
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 6923/ DIN 125 / DIN 127 / DIN 9021



(KPT7B) Concrete Embedded Steel Mounting System with 2 Vertical Bifacial Panels

Overview

KPT7B is a concrete embedded steel support and mounting system with 2 vertical panels for open terrain solar panels. The system is an ideal application solution for PV projects installations on medium and large sized terrains with loose ground. Necessary strength is achieved by application in loose ground. After manufacturing the system components with high-technology machines and equipment, an excellent corrosion resistance is then achieved through hot-dip galvanized coating. The system, incorporating a high-level engineering design, provides assembly and cost advantages.



STEEL COLUMN





CK-90 / CK-100 / CK-120

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

PURLIN CONNECTOR JOINING



C-90 / C-100 / C-110

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

STEEL BEAM





■ CR-100 / CR-120

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PANEL SIDE RETAINER



■ H30-H32-H40

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL PURLIN



CA-90 / CA-100 / CA-110

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PANEL CENTER RETAINER



■ L60

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

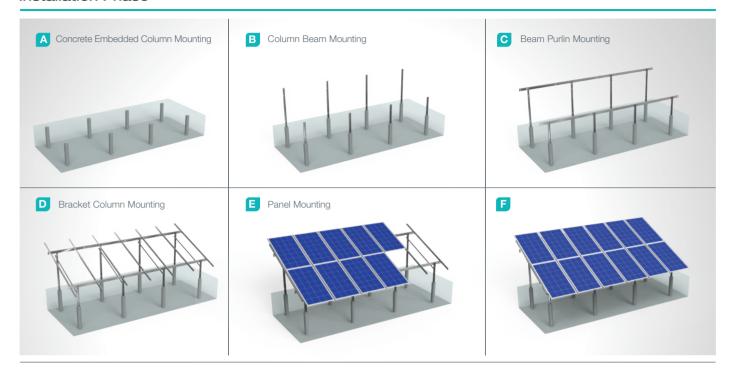
STEEL SUPPORT



■ U-40X34

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer





Advantages

- Time saving for installation
- Cost saving for installation
- Suitable solutions for combiner box and inverter installation
- Suitable solutions for different terrains
- Suitable for loose ground
- Tailored design solutions for customer
- Customer oriented engineering solutions

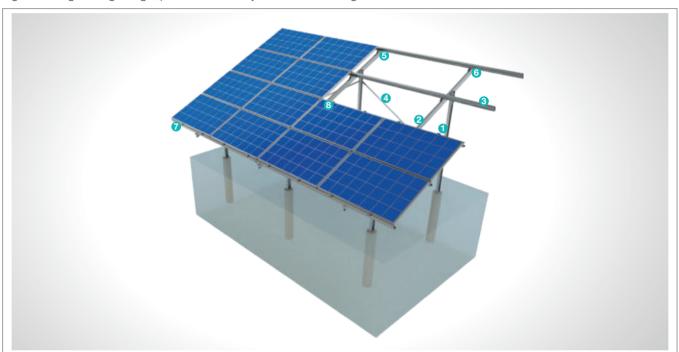
Description:	(KPT7B) Concrete Embedded Steel Mounting System with 2 Vertical Panels
Mounting Method:	Concrete Embedded Column
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 6923/ DIN 125 / DIN 127 / DIN 9021



(KPT8) Concrete Embedded Steel Mounting System with 4 Horizontal Panels

Overview

KPT8, is a concrete embedded column steel support and mounting system with 4 horizontal panels for open terrain solar panels. The system is an ideal application solution for PV projects installations on medium and large sized terrains with loose ground. Necessary strength is achieved by application in loose ground. After manufacturing the system components with high-technology machines and equipment, an excellent corrosion resistance is then achieved through hot-dip galvanized coating. The system, incorporating a high-level engineering design, provides assembly and cost advantages.



STEEL COLUMN

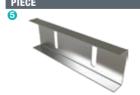




■ CK-90 / CK-100 / CK-120

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

PURLIN CONNECTOR JOINING



■ C-90 / C-100 / C-110

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

STEEL BEAM





■ CR-100 / CR-120

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PURLIN CONNECTOR PIECE





■ U40

M8X25 Hex Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL PHRI IN



■ CA-90 / CA-100 / CA-110

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PANEL SIDE RETAINER





■ H30-H32-H40

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL SUPPORT



■ U-40X34

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

PANEL CENTER RETAINER

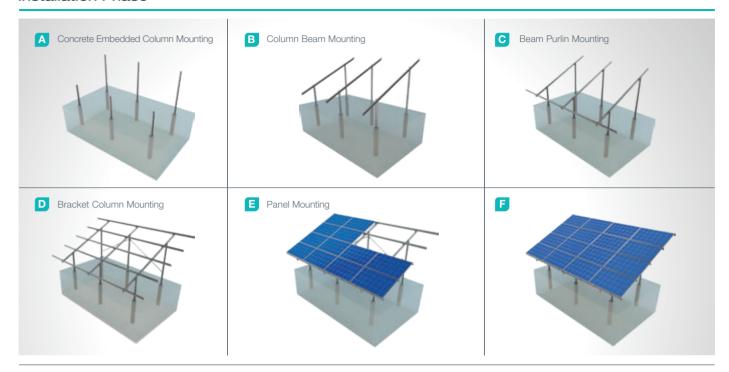




■ L60

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer





Advantages

- Time saving for installation
- Cost saving for installation
- Suitable solutions for combiner box and inverter installation
- Suitable solutions for different terrains
- Suitable for loose ground
- Tailored design solutions for customer
- Customer oriented engineering solutions

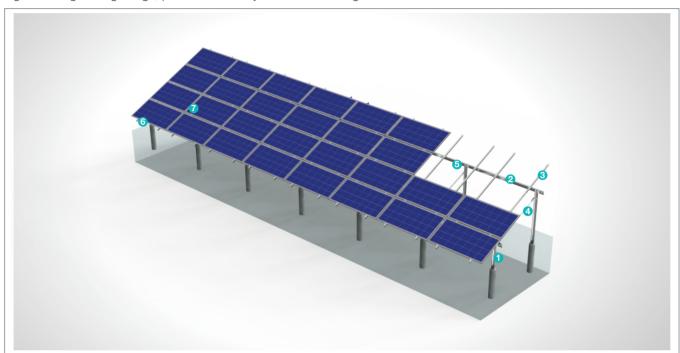
Description:	(KPT8) Concrete Embedded Steel Mounting System with 4 Horizontal Panels
Mounting Method:	Concrete Embedded Column
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 6923/ DIN 125 / DIN 127 / DIN 9021



(KPT8B) Concrete Embedded Steel Mounting System with 4 Horizontal Panels

Overview

KPT8B is a concrete embedded column steel support and mounting system with 4 horizontal panels for open terrain solar panels. The system is an ideal application solution for PV projects installations on medium and large sized terrains with loose ground. Necessary strength is achieved by application in loose ground. After manufacturing the system components with high-technology machines and equipment, an excellent corrosion resistance is then achieved through hot-dip galvanized coating. The system, incorporating a high-level engineering design, provides assembly and cost advantages.



STEEL COLUMN





■ CK-90 / CK-100 / CK-120

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

PURLIN CONNECTOR JOINING



■ C-90 / C-100 / C-110

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

STEEL BEAM





■ CR-100 / CR-120

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PANEL SIDE RETAINER





■ H30-H32-H40

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer



■ CA-90 / CA-100 / CA-110

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PANEL CENTER RETAINER





■ L60

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

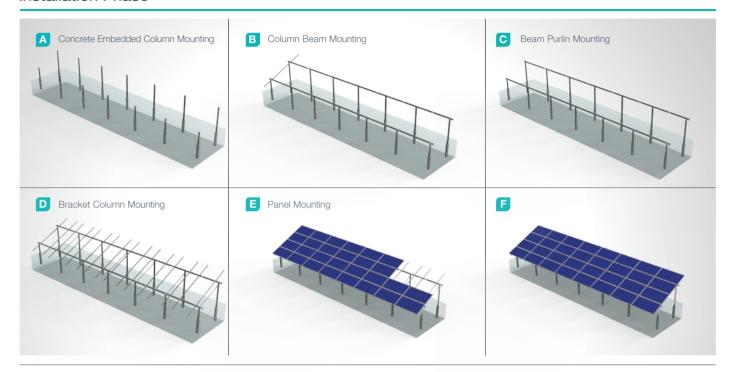
STEEL SUPPORT



■ U-40X34

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer





Advantages

- Time saving for installation
- Cost saving for installation
- Suitable solutions for combiner box and inverter installation
- Suitable solutions for different terrains
- Suitable for loose ground
- Tailored design solutions for customer
- Customer oriented engineering solutions

Description:	(KPT8B) Concrete Embedded Steel Mounting System with 4 Horizontal Panels
Mounting Method:	Concrete Embedded Column
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 6923/ DIN 125 / DIN 127 / DIN 9021



(KPT9) Ground Driven East-West Steel Mounting System with 2 Vertical Panel of Each Side

Overview

KPT9 is a steel-structured, ground-mounted open field solar panel support and installation system, assembled using the East-West Vertical Panel Pile Driving method. This system offers an ideal application solution for large and medium-scale ground-mounted PV projects with east-west orientation. The system components are manufactured with high precision using advanced machinery and equipment, then hot-dip galvanized to ensure excellent corrosion resistance. Thanks to its high-level engineering design, KPT9 provides significant advantages in terms of fast and easy installation as well as cost efficiency. Its east-west orientation allows for a more balanced utilization of sunlight throughout the day, thereby enhancing energy production efficiency. In addition, it is particularly advantageous for land-constrained areas, as it enables the installation of more panels within a limited space.



STEEL COLUMN





CK-90 / CK-100 / CK-120

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

STEEL SUPPORT





C-90 / C-100 / C-110

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

STEEL BEAM





CR-100 / CR-120

M12X30 Hex Head Bolt M8X25 Hex Head Bolt M8/M12 Washer M8/M12 Spring Washer M8/M12 Flanged Nut

PURLIN CONNECTOR PIECE



M8X25 Hex Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL PURLIN





CA-90 / CA-100 / CA-120

M12X30 Hex Head Bolt M8X25 Hex Head Bolt M8/M12 Washer M8/M12 Spring Washer M8/M12 Flanged Nut

PANEL SIDE RETAINER



H30-H32-H35-H40

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL PURLIN





■ CP-1000x188

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

PANEL MIDDLE RETAINER

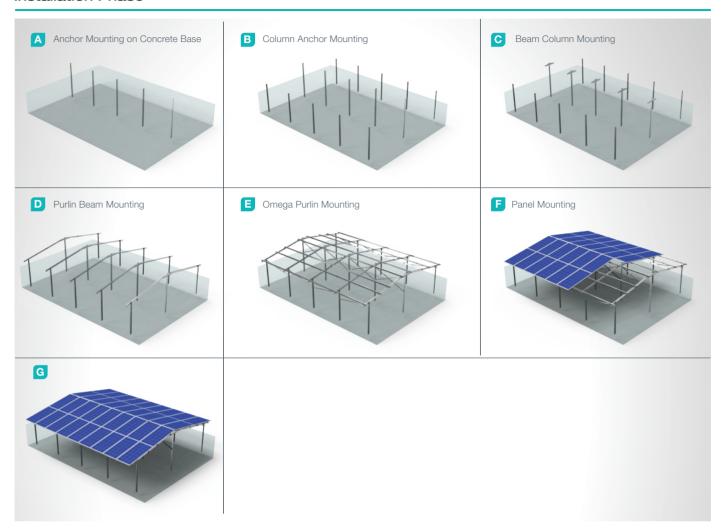
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L60

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer





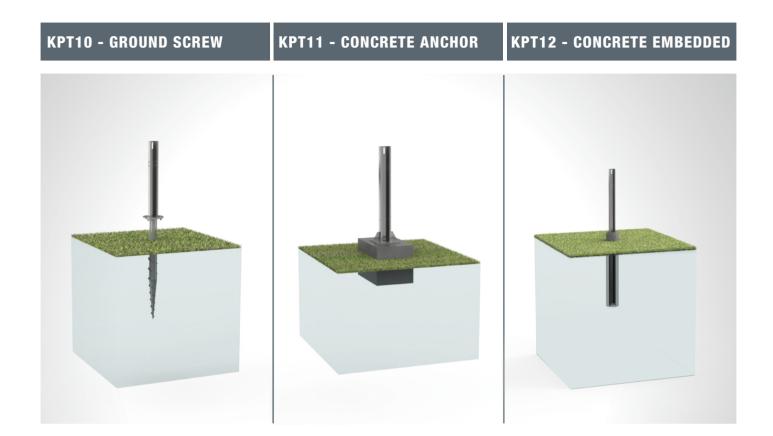
Advantages

- Time saving for installation
- Cost saving for installation
- Suitable for all kinds of car parks
- Protection against sun, rain and snow
- Flexible look
- Suitable for continuous expansion
- Tailored design solutions for customer
- Customer oriented engineering solutions

Explanation:	(KPT9) Concrete Base Anchored Steel Carport Mounting System with 4 Vertical Panels
Assembly Method:	Anchor on Concrete Base
Tilt Angle:	10 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 6923 / DIN 125 / DIN 127 / DIN 9021



EAST-WEST FOUNDATION TYPES

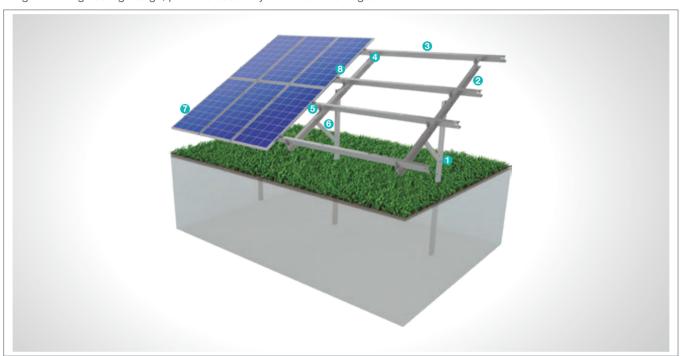




(KPT13) Ground Driven Single Column Steel Mounting System With 2 Vertical Panels

Overview

KPT13, is a ground driven single column steel support and mounting system with 2 vertical panels for open terrain solar panels. The system is an optimal application solution for installations of PV projects on large and medium-sized terrains. It is used extensively on hard ground in order to decrease the number of legs and cost. After manufacturing the system components with high-technology machines and equipment, an excellent corrosion resistance is then achieved through hot-dip galvanized coating. The system, incorporating a high-level engineering design, provides assembly and cost advantages.



STEEL COLUMN





■ CK-90 / CK-100 / CK-120

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

PURLIN CONNECTOR JOINING PIECE





C-90 / C-100 / C-110 M12X30 Hex Head Bolt M12 Flanged Nut

M12 Flanged Nut M12 Washer M12 Spring Washer

STEEL BEAM





■ CR-100 / CR-120

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PURLIN CONNECTOR PIECE





■ U40

M8X25 Hex Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL PURLIN





■ CA-90 / CA-100 / CA-110

M12X30 Hex Head Bolt M12 Flanged Nut M8X25 Hex Head Bolt M8 Flanged Nut M8/M12 Washer M8/M12 Spring Washer

PANEL SIDE RETAINER





H30-H32-H40

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer

STEEL SUPPORT



■ U-40X34

M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

PANEL CENTER RETAINER

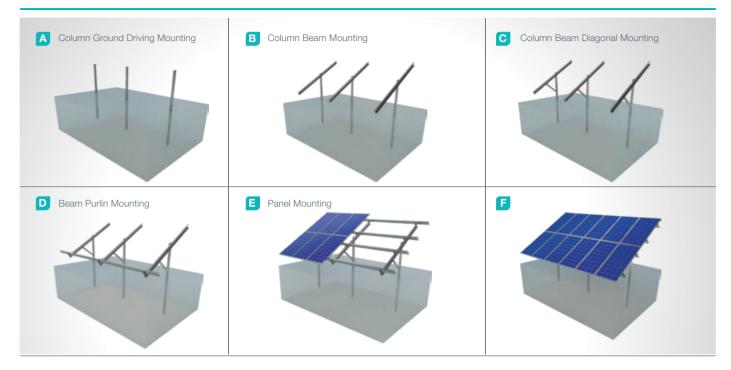




L60

M8X50 Socket Head Bolt M8 Flanged Nut M8 Washer M8 Spring Washer





Advantages

- Time saving for installation
- Cost saving for installation
- High safety level
- High durability flexible use
- Suitable solutions for combiner box and inverter installation
- Suitable solutions for different terrains
- Suitable for loose ground
- Tailored design solutions for customer
- Customer oriented engineering solutions

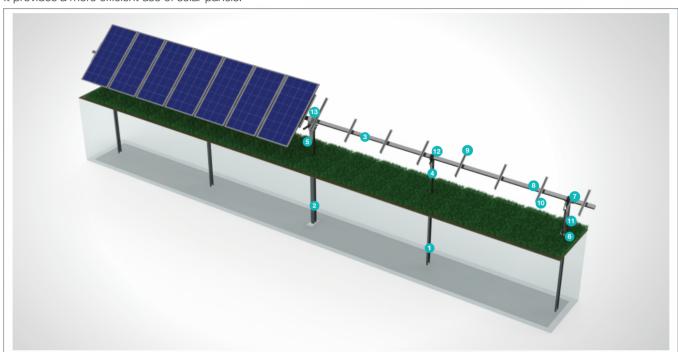
Description:	(KPT13) Ground Driven Single Column Steel Mounting System with 2 Vertical Panels
Mounting Method:	Ground Driving
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 6923/ DIN 125 / DIN 127 / DIN 9021



(KPT14) Ground Driven Steel Single Axis Solar Tracking System with 1 Vertical Panel

Overview

KPT14, is a concrete embedded steel support and mounting system which tracks the sun with 1 vertical panel for open terrain solar panels. The system is an optimal application solution for installations of PV projects on large and medium-sized terrains. After manufacturing the system components with high-technology machines and equipment, an excellent corrosion resistance is then achieved through hot-dip galvanized coating. The system, incorporating a high-level engineering design, provides assembly and cost advantages. It provides a more efficient use of solar panels.







M16x40 HEX HEAD BOLT M16 WASHER M16 SPRING WASHER M16 FLANGED NUT

STEEL ENGINE SUPPORT



■ NPI 336X305X8

M20x70 HEX HEAD BOLT

M20 WASHER

M20 SPRING WASHER

M20 FLANGED NUT

STEEL ENGINE COLUMN



CEK M16x40 HEX HEAD BOLT M16 WASHER M16 SPRING WASHER M16 FLANGED NUT

STEEL DAMPER LOWER SUPPORT



M10x145x160 U BOLT M10 SPRING WASHER M10 FLANGED NUT

STEEL SQUARE PURLIN



M16x25 HEX HEAD BOLT M16 WASHER M16 SPRING WASHER

STEEL DAMPER UPPER SUPPORT



M10x145x160 U BOLT M10 SPRING WASHER M10 FLANGED NUT

STEEL SUPPORT BRACKET



M10 M16x40 HEX HEAD BOLT M16 WASHER M16 SPRING WASHER M16 FLANGED NUT

PURLIN CONNECTOR JOINING PIECE



DPM-80x40
M16x40 HEX HEAD BOLT
M16 WASHER
M16 SPRING WASHER
M16 FLANGED NUT



STEEL PURLIN



M10x145x160 U BOLT 20x200 mm FLAT BAR M10 SPRING WASHER M10 FLANGED NUT

STEEL STOPPER

10



■ CS M10x145x160 U B0LT M10 SPRING WASHER M10 FLANGED NUT

DAMPER

1



M14x150 HEX HEAD BOLT M14 WASHER M14 SPRING WASHER M14 FLANGED NUT

PLASTBEARING

P



■ RLM M16x40 HEX HEAD BOLT M16 WASHER M16 SPRING WASHER M16 FLANGED NUT

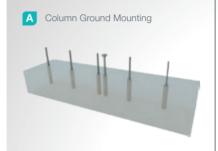
ENGINE

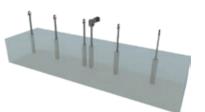
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■ SLEW DRIVE + E. MOTOR M20x70 HEX HEAD BOLT M20 WASHER M20 SPRING WASHER M20 FLANGED NUT

Installation Phase



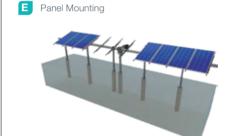


B TP Beam / Slew Drive + E. Motor Carrier Mounting

TP Purlin / Slew Drive + E. Motor Carrier









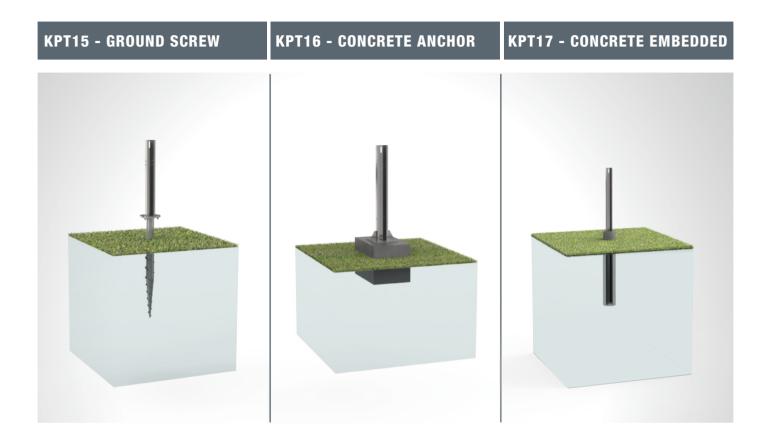
Advantages

- Time saving for installation
- Cost saving for installation
- Flexible solutions for different types of terrains
- Up to 25% efficiency advantage
- Low maintenance cost
- Independent rack movements
- Aluminum based solutions
- Smart control system
- Real time tracking
- Tailored design solutions for customer
- Customer oriented engineering solutions

Description:	(KPT14) Concrete Embedded Steel Single Axis Solar Tracking System with 1 Vertical Panel
Mounting Method:	Concrete Embedded
Tilt Angle:	-55 +55 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 6923 / DIN 125 / DIN 127 / DIN 9021



SINGLE AXIS TRACKER FOUNDATION TYPES





(KPT18) Concrete Anchor Steel Car Park Mounting System for 2 Cars with 3 or 4 Vertical Panels

Overview

KPT18, is a concrete base anchored steel support and mounting system with 3 or 4 vertical panels for carport . The system is an optimal application solution for installations of PV projects in car parks. It provides strength and stability in carports. After manufacturing the system components with high-technology machines and equipment, an excellent corrosion resistance is then achieved through hot-dip galvanized coating. The system, incorporating a high-level engineering design, provides assembly and cost advantages.



U-TYPE CARPORT STEEL ANCHORAGE PIECE





■ U-ANC

M16x300 Anchor Bolt M12x30 Hex Healt Bolt M12/M16 Flanged Nut M12/M16 Washer M12/M16 Spring Washer

PURLIN CONNECTOR JOINING PIECE





C-90 / C-100 / C-110 M12X30 Hex Head Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

STEEL COLUMN



■ KLN-200x90x25x3

M12x30 Hex Healt Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

ALUMINUM PURLIN



■ AP

M8X25 T Bolt M8 Washer M8 Spring Washer M8 Flanged Nut

STEEL BEAN



■ KRS-200x90x25x3

M12x30 Hex Healt Bolt M12 Flanged Nut M12 Washer M12 Spring Washer

ALUMINUM MIDDLE PURLIN



AMP

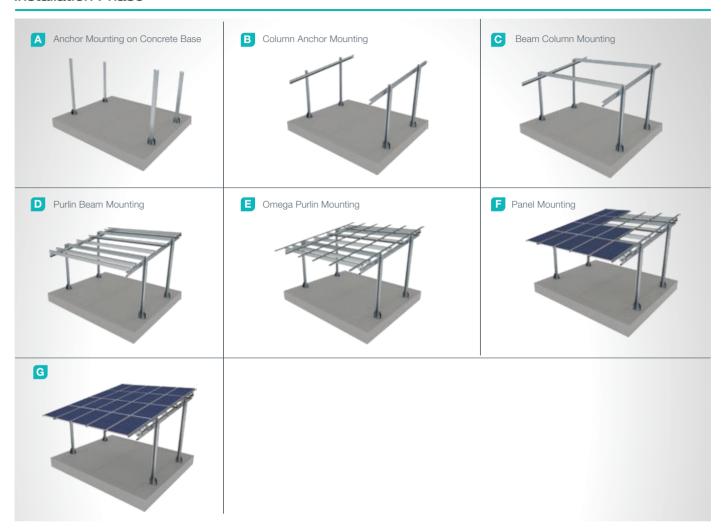
STEEL PURLIN



■ ASK-200x90x25x3

M12x30 Hex Healt Bolt M12 Flanged Nut M12 Washer M12 Spring Washer





Advantages

- Time saving for installation
- Cost saving for installation
- Suitable for all kinds of car parks
- Protection against sun, rain and snow
- Flexible look
- Suitable for continuous expansion
- Tailored design solutions for customer
- Customer oriented engineering solutions

Explanation:	(KPT18) Concrete Base Anchored Steel Carport Mounting System with 4 Vertical Panels
Assembly Method:	Anchor on Concrete Base
Tilt Angle:	10 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	250 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 6923 / DIN 125 / DIN 127 / DIN 9021



(KPT21) Flat Roof Aluminium Mounting System

Overview

KPT21, is a flat roof aluminium mounting system for 1 horiontal panel which is fixed by balast system. The system is an optimal application solution for installations of PV projects on large and small-sized roofs. It does not require any fastener for installation. The system, incorporating a high-level engineering design, provides assembly and cost advantages.







 H35-Middle Panel Clamp M8X35 Imbus Bolt M8 Nut
 M8 Spring Washer DIN 128

Panel Front Holder



 Angle Adjustment Tool M8X35 Imbus Bolt M8 Washer M8 Nut

Aluminium Side Clamp



 H35-Side Panel Clamp M8X35 Imbus Bolt M8 Bolt M8 Spring Washer DIN 128

Panel Back Holder



 Angle Adjustment Tool M8X35 Imbus Bolt M8 Washer M8 Nutn

Mounting Rail



■ EN AW 6063 T6 3X20 EPDM Tape

Balast Holder



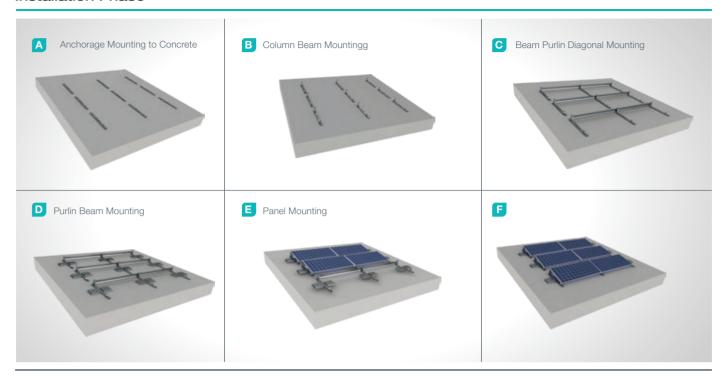
■ DX51D+Z

Windshield



■ DX51D+Z 5,5X25 Trapezoid Roof Screw





Advantages

- Time saving for installation
- Cost saving for installation
- Suitable solutions for different roof types
- 3 different types of angular adjustment
- Ballasted mounting
- Tailored design solutions for customer
- Customer oriented engineering solutions

Description:	(KPT21) Flat Roof Aluminium Mounting System
Mounting Method:	Blast system
Module Application:	Framed and Unframed
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Purlin Material:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 125 / DIN 127



(KPT29) Trapezoid Roof Mounting System

Overview

KPT29, Tis the aluminium mounting system for trapezoid roof. is a flat roof aluminium mounting system for 1 horiontal panel which is fixed by balast system. The system is an optimal application solution for installations of PV projects on large and small-sized roofs. It does not require any fastener for installation. The system, incorporating a high-level engineering design, provides assembly and cost advantages.







■ KS-Middle Retainer M6X40 Imbus Bolt Oring KLP 101

Mounted Set Side Clamp



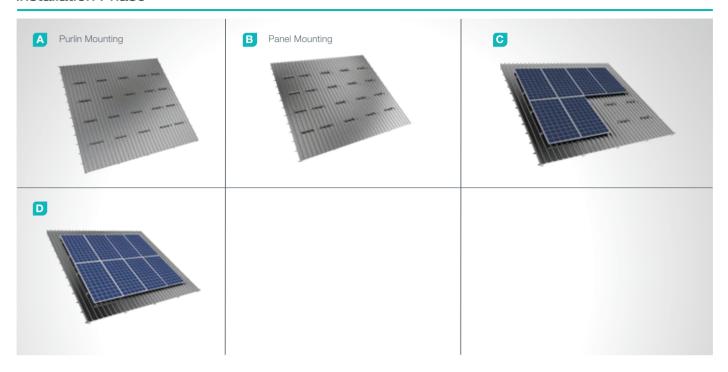
KS-Side Retainer M6X40 Imbus Bolt Oring KLP 101

Roof Profile (TCAA)



■ EN AW 6063 T6 JF3-2-5.5





Advantages

- Time saving for installation
- Cost saving for installation
- Horizontal and Vertical positioning
- Suitable solutions for different roof types
- Tailored design solutions for customer
- Customer oriented engineering solutions

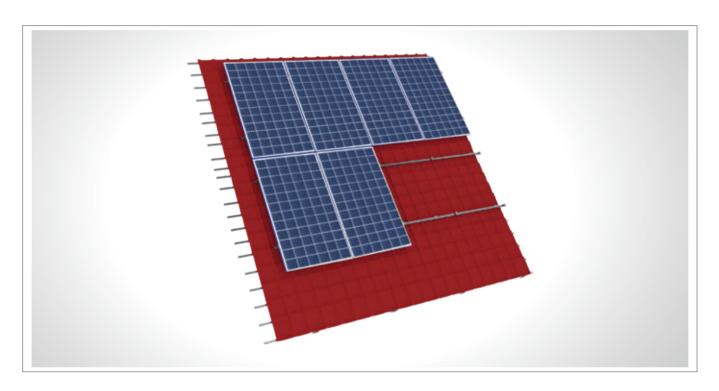
Description:	(KPT29) Trapezoid Roof Mounting System
Mounting Method:	Pitched Roof Mounting
Module Application:	Framed and Unframed
Beam Material:	EN AW 6063
Panel Retainer:	ASTM A 304 / A 316
Purlin Material:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70



(KPT30) Tile Roof Steel And Aluminum Mounting System

Overview

KPT30, is a steel and Aluminum structured mounting system and for tile type roofs. The system is an optimal application solution for installations of PV projects on large and small-sized roofs. The system, incorporating a high-level engineering design, provides assembly and cost advantages.



Mounted Set Middle Clamp



KS-Middle Retainer M6X40 Imbus Bolt Oring KLP 101

Connecto



■ EN AW 6063 T6 5,5X25 Trapezoid Roof Screw

Mounted Set Side Clamp



 KS-Middle Retainer M6X40 Imbus Bolt Oring KLP 101

Clamp Roof Hook



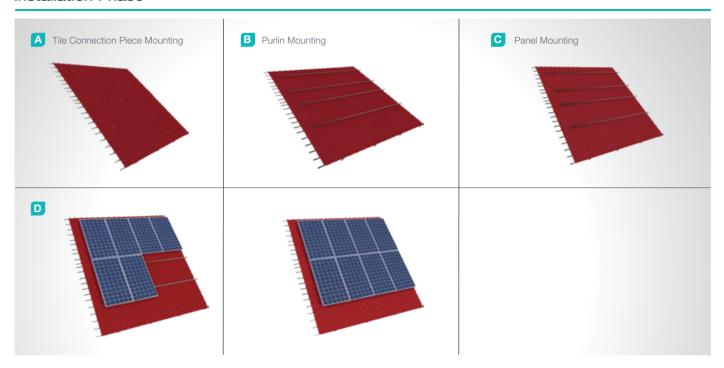
■ EN AW 6082 T6 DIN 562
A2 M10x20 Inox Screw DIN 6921
A2 Tee-head Inox Screw M8x25 DIN 9097 A2
M10 Inox Square Nut DIN 557
A2 M8 Inox Flanged Hexagon Nut DIN 6923
Lag Screw 8x100

Roof Profile (KCAA)



■ EN AW 6063 T6





Advantages

- Time saving for installation
- Cost saving for installation
- Horizontal and vertical positioning
- Suitable positioning according to roof tilt
- Suitable solutions for different roof types
- Tailored design solutions for customers
- Customer oriented engineering solutions

Description:	(KPT30) Tile Roof Steel And Aluminum Mounting System
Mounting Method:	Assembly to Tile Roof
Module Application:	Framed and Unframed
Beam Retainer:	EN AW 6063
Beam Retainer Coating:	EN ISO 1461
Beam Retainer Material:	EN 10025 / EN 10029
Panel Retainer:	EN AW 6063
Fitting Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 50979

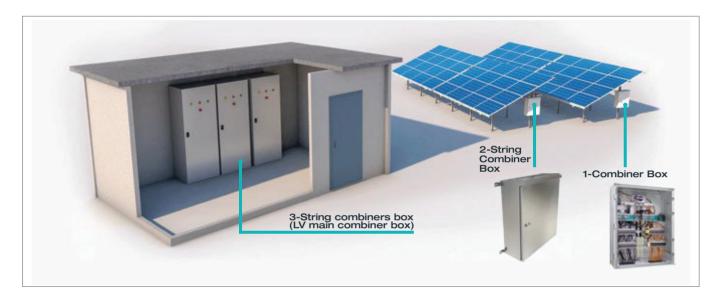


1-Combiner box (DC Combiner)

Overview

In systems using a central inverter, it bundles cables and energy coming from panel groups in one combiner box. Stringing out solar cables, consisting of positive and negative lines, to the battery or inverter causes power loss and an increase in cable amount and costs. Therefore, a particular panel group shall be combined on a single positive/negative line.

SCADA monitoring equipment can be installed in Combiner Boxes at the same time which facilitates service, maintenance and remote maintenance operations on line enabling deenergizing when a problem occurs. Another important feature of Combiner Box is the option to add surge protective devices (SPDs) for protection against lightning and power surges and this feature is crucial for solar power plants.



Advantages

- Protection for electrical equipment used as waterproof and dustproof
- Easy installation
- Simplified system cabling
- Decrease in the amount of cabling and cable costs advantage
- Easy service, maintenance and remote maintenance operations on line
- Protection against lightning and power surges
- Tailored design solutions for customers

Protection:	IP54 IK10
Product Structure:	The product has a modular design, installation modules are available for all equipment.
Materials Used :	The product is manufactured with cold-rolled steel (EN 10130) in a totally rigid structure.
Coating / Paint :	Electrostatic Powder Polyester paint / Hot-dip galvanized coating (EN 10130)
Handling:	Lifting lugs for lifting and handling.



2- String Combiners box: (AC -- Field Combiner Box)

Overview

In systems using series inverter, these type of combiner boxes bundle AC line cables and making connections thereof. The energy collected in these boxes are transferred to the Main Combiner Box via one line. It does not contain interconnection additional security and switching mechanisms. In string systems, AC power is collected with interconnection equipment before reaching the Main AC Combiner Box.

Advantages

- Protection for electrical equipment used as waterproof and dustproof
- Easy installation
- Simplified system cabling Suitable cabling
- Decrease in the amount of cabling and cable costs advantage
- Tailored production according to customer demand

Technical Specifications

Protection:	IP65 IK10
Material used:	Cold rolled steel
Coating / Paint :	Electrostatic Powder Polyester paint / Hot-dip galvanized coating (EN 10130).

3- AG Main Combiner Box

Overview

Power collected from String Combiner Boxes or at the output of central inverter is transferred to Main Combiner Box with power cables for security and control. Main Combiner is equipped with equipment necessary for power quality measurement, system security and in-house demand. The power collected at the Main Combiner Box is directed to the AG switch and transformer operable at heavy current limits in order to increase voltage value.

Advantages

- Modular form and easy installation
- Installation modules suitable for all electrical equipment.
- Protection for electrical equipment used as waterproof and dustproof
- Tailored design solutions for customers

Protection:	IP54 IK10
Product Structure:	The product has a modular design, installation modules are available for all equipment.
Materials Used :	The product is manufactured with cold-rolled steel (EN 10130) in a totally rigid structure.
Coating / Paint :	Electrostatic Powder Polyester paint
Handling:	Lifting lugs for lifting and handling.



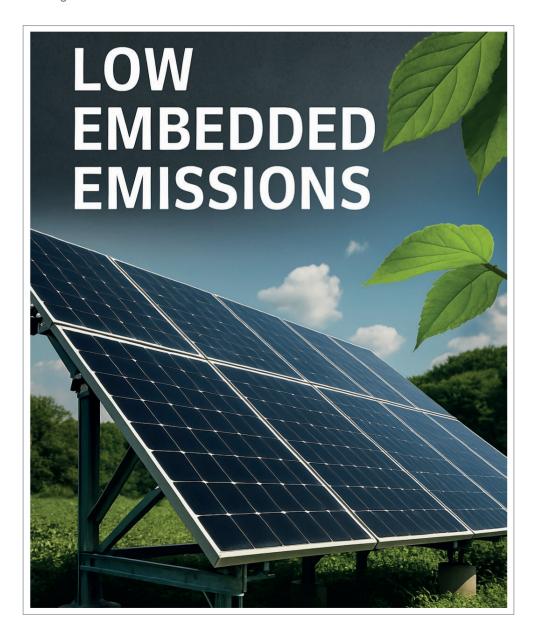
KIRAC METAL – Photovoltaic Panel Mounting Systems

Product Description Compliant with the 2024 EU CBAM - Including Specific Embedded Emissions

At Kıraç Metal, we are committed to sustainability and reducing carbon footprints. Our **photovoltaic panel mounting systems**, developed in line with the 2024 European Union Carbon Border Adjustment Mechanism (CBAM), are manufactured in full compliance with current regulations.

Throughout our production processes, we prioritize the use of energy-efficient technologies and low-carbon raw materials. The **specific embedded emissions** of our products are meticulously calculated and reported, ensuring verifiable and transparent data for all export operations subject to CBAM.

Our **photovoltaic mounting systems** are trusted in environmentally conscious projects for their structural durability and low carbon emission profiles. As a company leading the way in adapting to evolving environmental regulations, we continue to create value for our partners aiming to minimize carbon-related costs.



Kıraç Metal - Your Sustainable Partner in Solar Infrastructure





EN 1090-2 & EN 1090-3



ISO 14001:2015



ISO 9001:2015



ISO 45001:2018



TS 13891



FIRST SOLAR COMPABILITY LETTER



TS EN ISO 1461



Adres

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