



SOLAR PANEL SUPPORT SYSTEMS

www.kiracmetal.com



Adres

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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.

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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.

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Pioneer Metal Company W.L.L is a Qatar based, Joint Venture company between Almana Group, Qatar and Kirac Metal, Turkey. Pioneer Metal Co. having its manufacturing plant at New Industrial Area, Doha, Qatar is the leading manufacturer and supplier of: Cable Management System, Solar Mounting System, Low Voltage Enclosures for indoor and outdoor application and other customized steel products; for the Oil & Gas, Commercial, Industrial and Telecommunication sectors. Established in 2009, the company has invested continously in its core product ranges and is now able to offer a full solution made up of various specifications and accessories that meet the needs of almost any project and contract. Our production facility has ISO 9001:2015, ISO140001:2015, ISO45001:2018, BS EN EN61537 and our production is controlled by the quality management system estalished in accordance with the standards. Our extensive experience together with latest technology enables us to provide superior service and unrivelled support to our customers. "Pioneer Metal", "PMC" and "Cablelane" are the brand names used by the company to promote its products and services across the GCC Countries.

www.pioneermetal.org

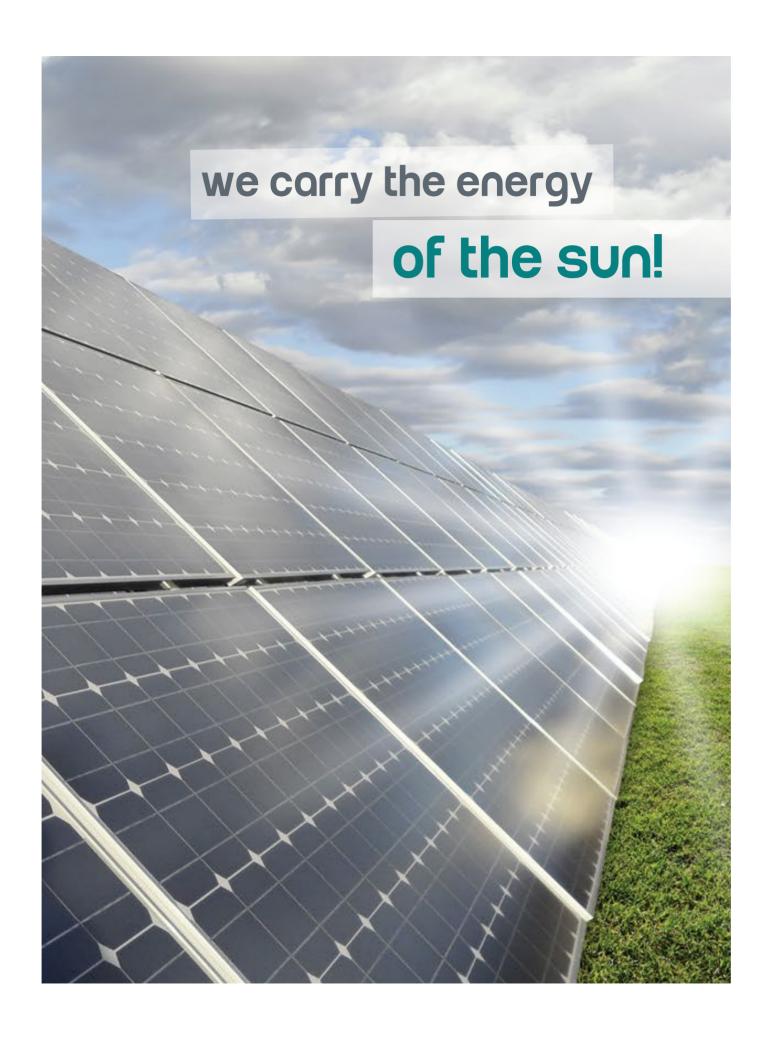


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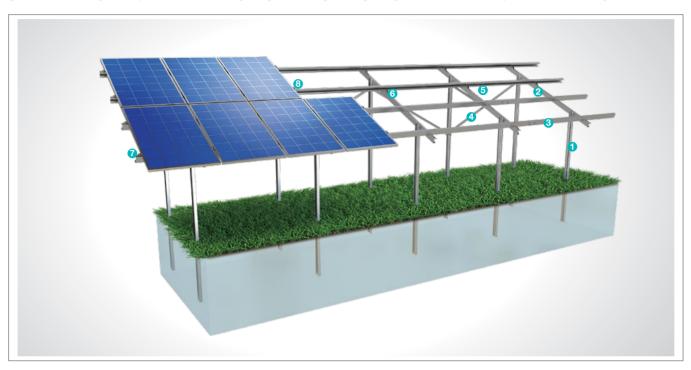




(KPT1) Ground Driven Steel Mounting System with 2 Vertical Panels

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 Knurled Bolt

M12 Flanged Nut M12 Washer

PURLIN CONNECTOR JOINING PIECE



■ C90 / C100 / C110

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

STEEL BEAM



■ CR-100 / CR-120

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PURLIN CONNECTOR



M8X30 Knurled Bolt M8 Flanged Nut M8 Washer



■ CA-90 / CA-100 / CA-110

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PANEL SIDE RETAINER



■ H30-H32-H40

M8X30 Hex Bolt M8 Flanged Nut

STEEL L BRACKET



■ CL-40X40 / CL-50X50

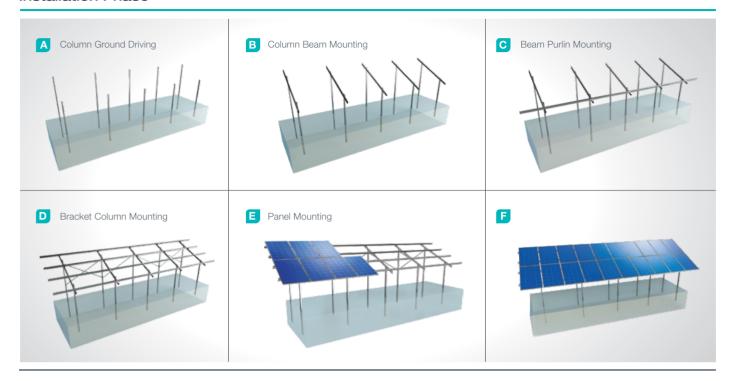
M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

PANEL CENTER RETAINER



■ L70





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

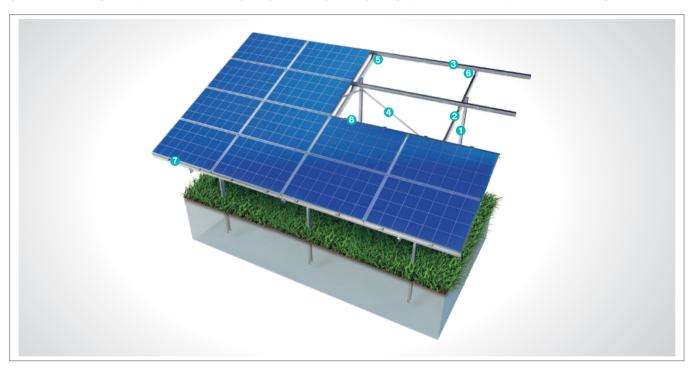
Description:	(KPT1)) Ground Driven with 2 Vertical Panel Driving Steel Mounting System
Mounting Method:	Ground Driving
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 50979



(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 Knurled Bolt

M12 Flanged Nut M12 Washer

PURLIN CONNECTOR JOINING



■ C-90 / C-100 / C-110 M12X30 Knurled Bolt

M12 Flanged Nut M12 Washer



■ CR-100 / CR-120

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PURLIN CONNECTOR PIECE



M8X30 Knurled Bolt M8 Flanged Nut M8 Washer



■ CA-90 / CA-100 / CA-110

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PANEL SIDE RETAINER



■ H30-H32-H40

M8X30 Hex Bolt M8 Flanged Nut

STEEL L BRACKET



■ CL-40X40 / CL-50X50

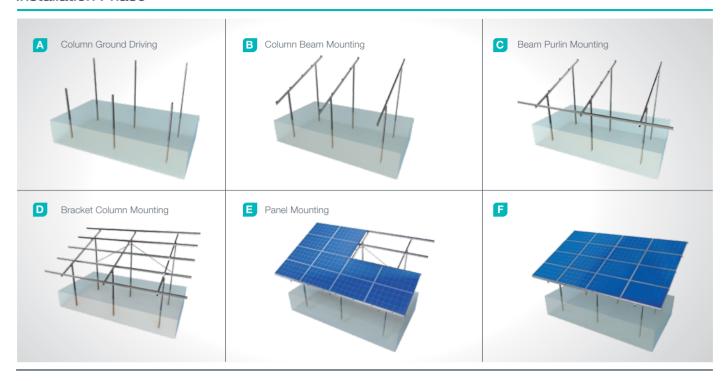
M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

PANEL CENTER RETAINER



■ L70





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 with 4 Horizontal Panels Steel Mounting System		
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 50979		



(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 Knurled Bolt M12 Flanged Nut M12 Washer M12X140 Knurled Bolt

CONNECTOR JOINING



■ C-90 / C-100 / C-110

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

STEEL BEAM



■ CR-100 / CR-120

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PURLIN CONNECTOR PIECE



M8X30 Knurled Bolt M8 Flanged Nut M8 Washer



■ CA-90 / CA-100 / CA-110

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PANEL SIDE RETAINER



■ H30-H32-H40

M8X30 Hex Bolt M8 Flanged Nut

STEEL L BRACKET



■ CL-40X40 / CL-50X50

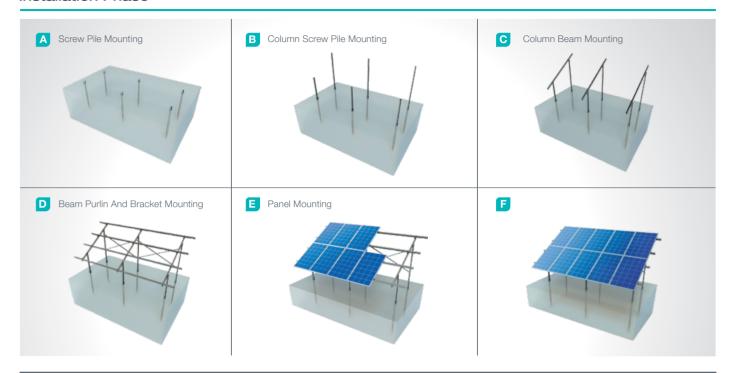
M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

PANEL CENTER RETAINER



■ L70





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 50979



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

Overview

KPT4, s 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 Knurled Bolt M12 Flanged Nut M12 Washer M12X140 Knurled Bolt

PURLIN CONNECTOR JOINING



■ C-90 / C-100 / C-110

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

STEEL BEAM



■ CR-100 / CR-120

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PURLIN CONNECTOR PIECE



M8X30 Knurled Bolt M8 Flanged Nut M8 Washer

STEEL PURLIN



■ CA-90 / CA-100 / CA-110

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PANEL SIDE RETAINER



■ H30-H32-H40

M8X30 Hex Bolt M8 Flanged Nut

STEEL L BRACKET



■ CL-40X40 / CL-50X50

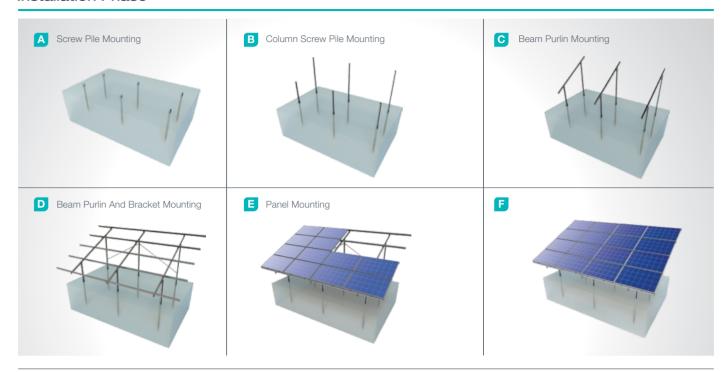
M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

PANEL CENTER RETAINER



■ L70





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

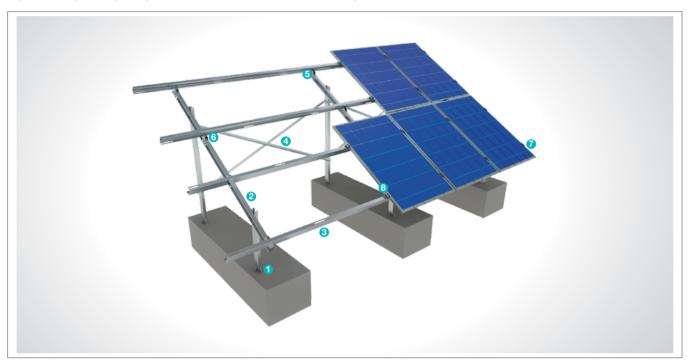
Description:	KPT4) Ground Screwed Steel Mounting System with 4 Horizontal Panels
Mounting Method:	Ground Screwing
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 50979



(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 Knurled Bolt

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

PURLIN CONNECTOR JOINING



■ C-90 / C-100 / C-110

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

STEEL BEAM



■ CR-100 / CR-120

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PURLIN CONNECTOR PIECE



■ U40

M8X30 Knurled Bolt M8 Flanged Nut M8 Washer

STEEL PURLIN



■ CA-90 / CA-100 /CA-110

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PANEL SIDE RETAINER



■ H30-H32-H40

M8X30 Hex Bolt M8 Flanged Nut

STEEL L BRACKET



■ CL-40X40 / CL-50X50

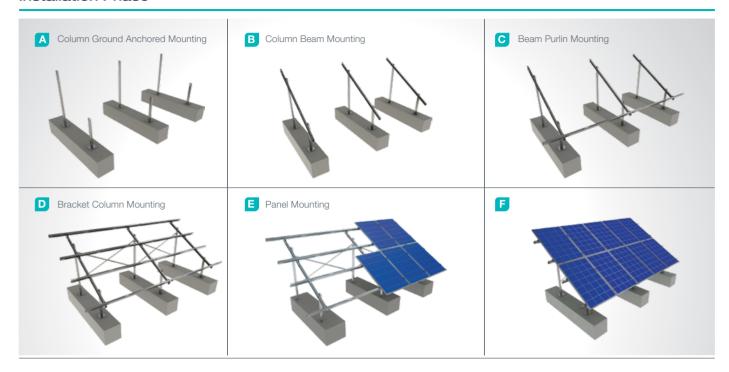
M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

PANEL CENTER RETAINER



■ L70





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

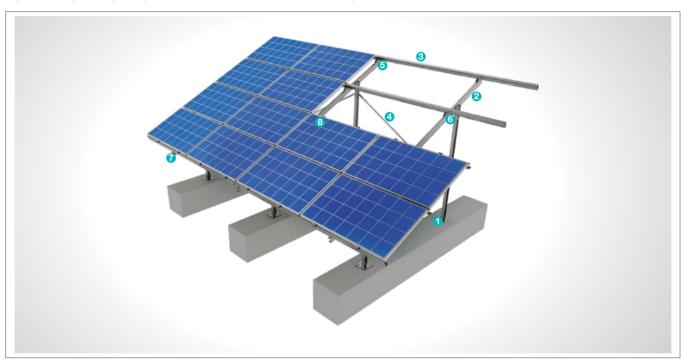
Description:	(KPT5) Concrete Base Anchored Steel Mounting System with 2 Vertical Panels
Mounting Method:	Anchor on Concrete Base
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 50979



(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 Knurled Bolt M12 Flanged Nut

M12 Washer

PURLIN CONNECTOR JOINING PIECE



■ C-90 / C-100 / C-110 M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

STEEL BEAM



CR-100 / CR-120 M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut

M8/M12 Washer

PURLIN CONNECTOR PIECE



M8X30 Knurled Bolt M8 Flanged Nut M8 Washer

STEEL PURLIN



■ CA-90 / CA-100 / CA-110 M12X30 Knurled Bolt

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PANEL SIDE RETAINER



M8X30 Hex Bolt M8 Flanged Nut

STEEL L BRACKET



■ CL-40X40 / CL-50X50

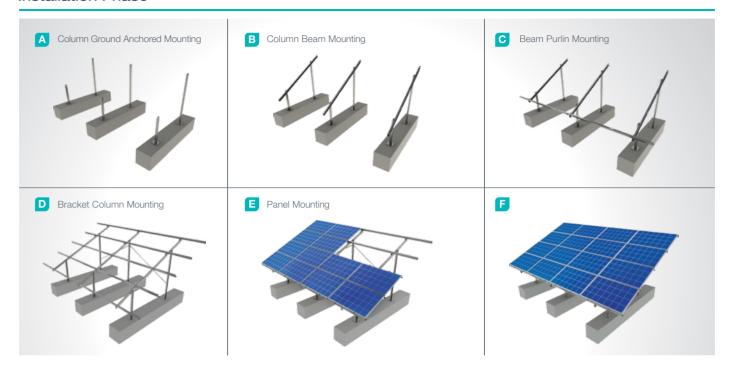
M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

PANEL CENTER RETAINER



M8X30 Hex Bolt M8 Flanged Nut





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

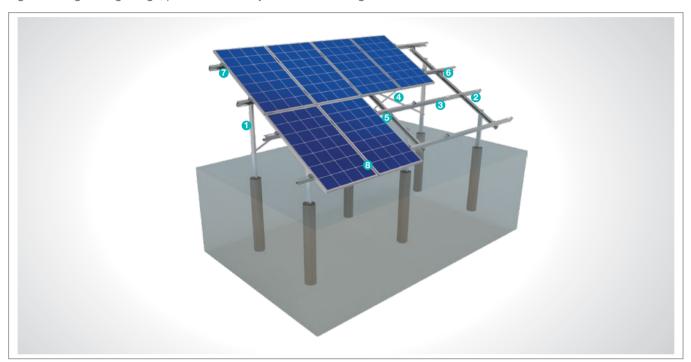
Description:	(KPT6) Concrete Base Anchored Steel Mounting System with 4 Horizontal Panels
Mounting Method:	Anchor on Concrete Base
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 50979



(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 Knurled Bolt M12 Flanged Nut M12 Washer

PURLIN CONNECTOR JOINING



■ C-90 / C-100 / C-110

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

STEEL BEAM



■ CR-100 / CR-120

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PURLIN CONNECTOR PIECE



■ U40

M8X30 Knurled Bolt M8 Flanged Nut M8 Washer

STEEL PURLIN



■ CA-90 / CA-100 /CA -110

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PANEL SIDE RETAINER



■ H30-H32-H40

M8X30 Hex Bolt M8 Flanged Nut

STEEL L BRACKET



■ CL-40X40 / CL-50X50

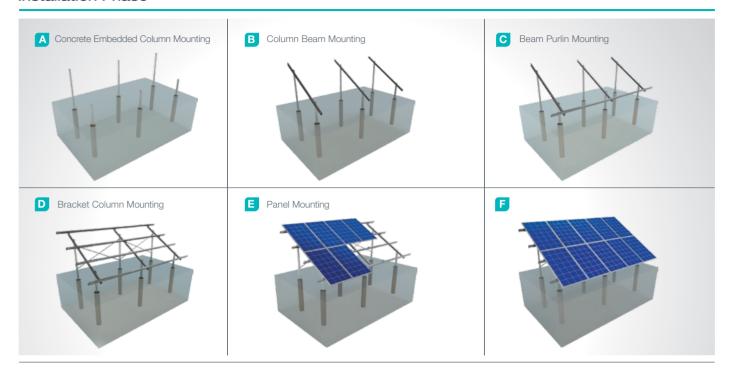
M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

PANEL CENTER RETAINER



■ L70





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

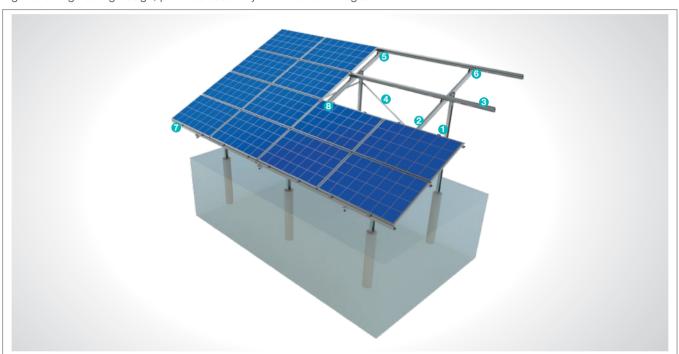
Description:	(KPT7) Concrete Embedded Steel Mounting System with 2 Vertical Panels
Mounting Method:	Concrete Embedded Column
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 50979



(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 Knurled Bolt M12 Flanged Nut M12 Washer

PURLIN CONNECTOR JOINING



■ C-90 / C-100 / C-110

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

STEEL BEAM



■ CR-100 / CR-120

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PURLIN CONNECTOR PIECE



■ U40

M8X30 Knurled Bolt M8 Flanged Nut M8 Washer

STEEL PURLIN



■ CA-90 / CA-100 /CA-110

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PANEL SIDE RETAINER



■ H30-H32-H40

M8X30 Hex Bolt M8 Flanged Nut

STEEL L BRACKET



■ CL-40X40 / CL-50X50

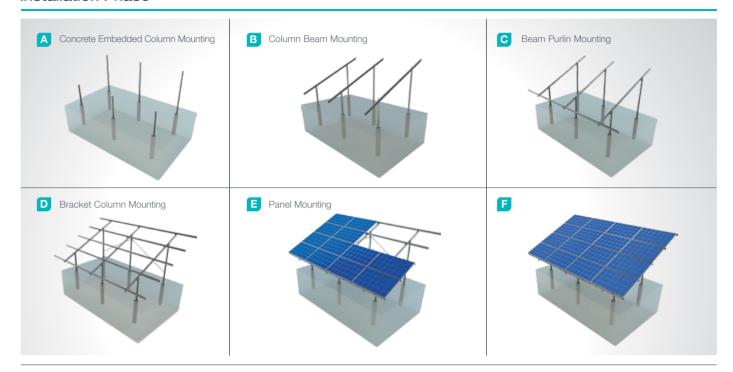
M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

PANEL CENTER RETAINER



■ L70





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 50979



(KPT9) Steel Mounting System with Ground Driven Aluminum Purlin & 2 Vertical Panels

Overview

KPT9, is a ground driven steel support and mounting system with aluminum purlin and 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.









■ CK-90 / CK-100 / CK-120

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

PURLIN CONNECTOR JOINING PIECE



■ L35 M8X30 Hex Bolt M8 Flanged Nut

STEEL BEAM





■ CR-100 / CR-120

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PANEL SIDE RETAINER



M8X30 Hex Bolt
M8 Rectangle Nut

ALUMINUM PURLIN



M8X30 Hex Bolt M8 Rectangle Nut

PANEL CENTER RETAINER



M8X30 Hex Bolt
M8 Rectangle Nut

STEEL L BRACKET

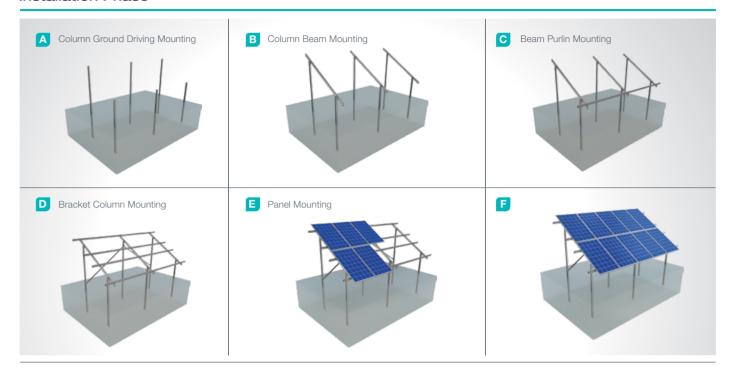




■ CL-40X40 / CL-50X50

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer





Advantages

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

Description:	(KPT9) Steel Mounting System with Ground Driven Aluminum Purlin & 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 50979



(KPT10) Steel Mounting System with Ground Driven Aluminum Purlin & 4 Horizontal Panels

Overview

KPT10, is a ground driven steel support and mounting system with aluminum purlin and 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.







■ CK-90 / CK-100 / CK-120

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

ALUMINUM PURLIN TIGHTENING PIECE



■ L35 M8X30 Hex Bolt M8 Rectangle Nut

STEEL BEAM



■ CR-100 / CR-120

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PANEL SIDE RETAINER



M8X30 Hex Bolt
M8 Rectangle Nut

ALUMINUM PURLIN



■ AA-70x70 M8X30 Hex Bolt M8 Rectangle Nut

PANEL CENTER RETAINER



■ L70 M8X30 Hex Bolt M8 Rectangle Nut

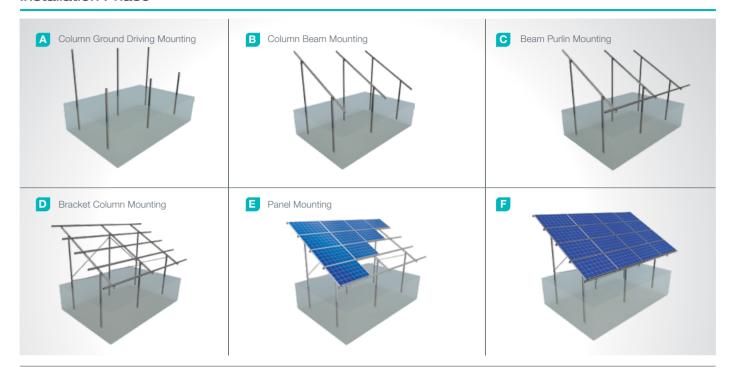
STEEL L BRACKET



■ CL-40X40 / CL-50X50 M12X30 Knurled Bolt

M12 Flanged Nut M12 Washer





Advantages

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

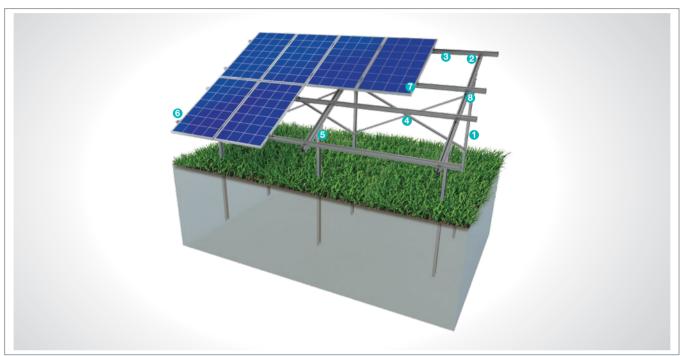
Description:	(KPT10) Steel Mounting System with Ground Driven Aluminum Purlin & 4 Horizontal Panels
Mounting Method:	Ground Driving
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Purlin Material:	EN AW 6063
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 50979



(KPT11) Aluminum Mounting System with Ground Driven Steel Column& 2 Vertical Panels

Overview

KPT11, is an aluminum support and mounting system mounted with ground driven steel column and 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. System components are manufactured with high-tech machinery and equipment. The system, incorporating a high-level engineering design, provides assembly and cost advantages..







■ CK-90 / CK-100 / CK-120

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

BEAM COLUMN BRACKET



■ EK-A M8X30 Hex Bolt M8 Flanged Nut

ALUMINUM BEAM



■ AR-120 x 80

M12X25 Knurled Bolt M12 Rectangular Nut M12 Washer M12X90 Knurled Bolt

PANEL SIDE RETAINER



M8X30 Hex Bolt
M8 Rectangular Nut

ALUMINUM PURLIN

0



■ AA-70x70 M8X30 Hex Bolt M8 Rectangular Nut

PANEL CENTER RETAINER



■ L70 M8X30 Hex Bolt M8 Rectangular Nut

STEEL L BRACKET



■ CL-40X40 / CL-50X50

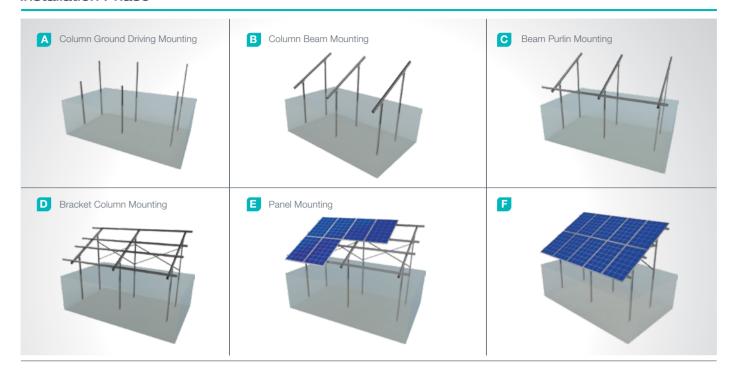
M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

CLAMPING PIECE



M8X30 Hex Bolt M8 Flanged Nut





Advantages

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

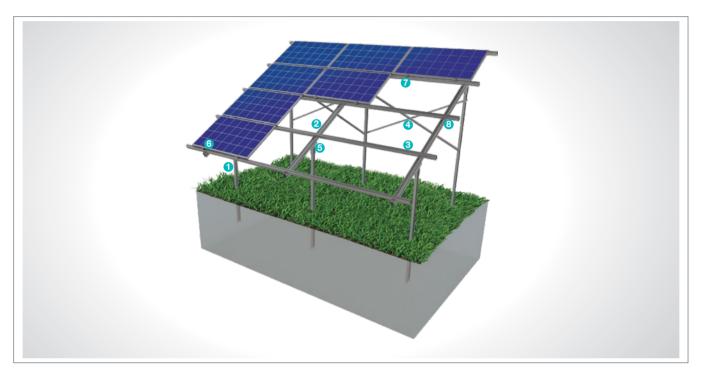
Description:	(KPT11) Aluminum Mounting System with Ground Driven Steel Column & 2 Vertical Panels
Mounting Method:	Ground Driving
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Purlin Material:	EN AW 6063
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 50979



(KPT12) Aluminum Mounting System with Ground Driven Steel Column & 4 Horizontal Panels

Overview

KPT12, is an aluminum support and mounting system mounted with ground driven steel column and 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.







■ CK-90 / CK-100 / CK-120

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

BEAM COLUMN BRACKET



■ EK-A M8X30 Hex Bolt M8 Flanged Nut

ALUMINUM BEAM



■ AR-120 x 80

M12X25 Knurled Bolt M12 Rectangular Nut M12 Washer M12X90 Knurled Bolt

PANEL SIDE RETAINER



■ H30-H32-H40 M8X30 Hex Bolt M8 Rectangular Nut

ALUMINUM PURLIN



■ AA-70x70 M8X30 Hex Bolt M8 Rectangular Nut

PANEL CENTER RETAINER



■ L70 M8X30 Hex Bolt M8 Rectangular Nut

STEEL L BRACKET



■ CL-40X40 / CL-50X50

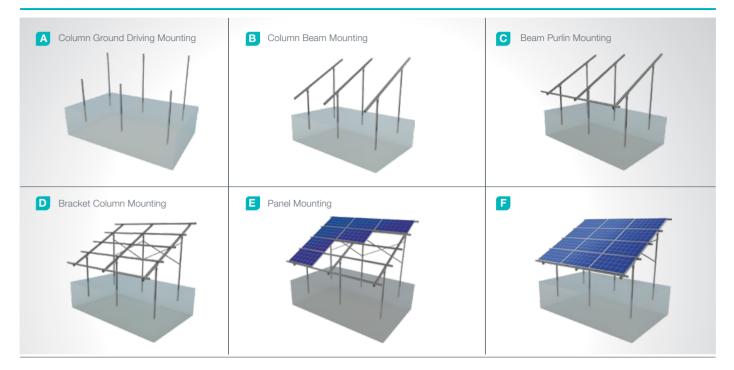
M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

ALUMINUM PURLIN CLAMPING PIECE



■ L35 M8X30 Hex Bolt M8 Flanged Nut





Advantages

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

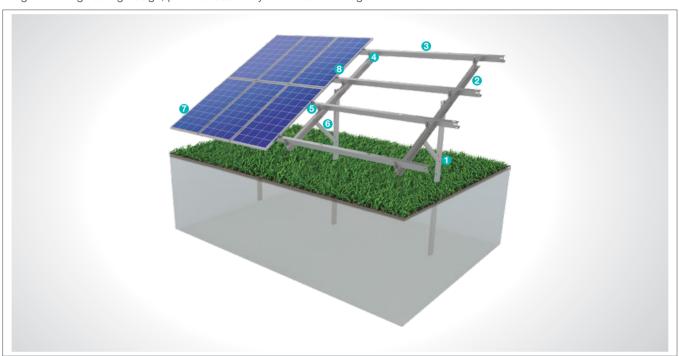
Description:	(KPT12) Aluminum Mounting System with Ground Driven Steel Column & 4 Horizontal Panels
Mounting Method:	Ground Driving
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Purlin Material:	EN AW 6063
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 50979



(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-150 / CK-120

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

ALUMINUM PURLIN CONNECTOR





■ C-110 / C-120

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

STEEL BEAM





■ CR-100 / CR-110 / CR-120

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

STEEL DIAGONAL





M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

STEEL PURLIN





■ CA-110 / CA-120

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PANEL SIDE RETAINER



H30-H32-H40

M8X30 Hex Bolt M8 Flanged Nut

STEEL L BRACKET

4



■ CL-50X50

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

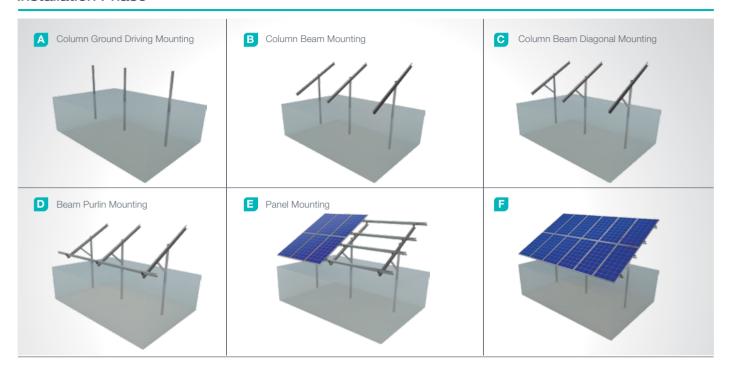
PANEL CENTER RETAINER





■ L70





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

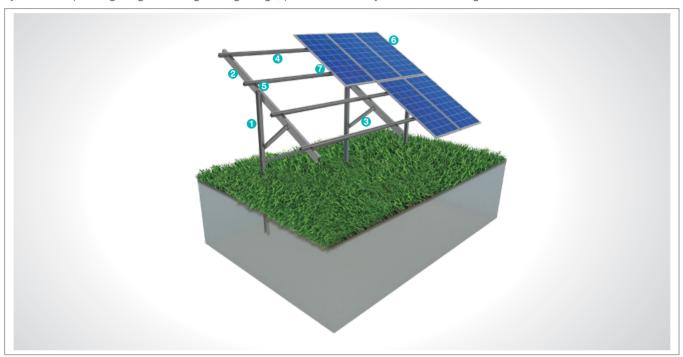
Description:	(KPT13) Ground Driven Single Column Steel Mounting System with 2 Vertical Panels
Mounting Method:	Ground Driving
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 50979



(KPT14)Ground Driven Single Column Aluminum Purlin Steel Mounting System with 2 Vertical Panels

Overview

KPT14, is a ground driven single column steel support and mounting system with aluminum purlin & 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.







■ CK-150 / CK-120 M12X30 Knurled Bolt M12 Flanged Nut M8/M12 Washer

ALUMINUM PURLIN CONNECTOR



■ L35 M8X30 Hex Bolt M8 Flanged Nut

STEEL BEAM



CR-100 / CR-110 / CR-120 M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

PANEL SIDE RETAINER



■ H30-H32-H40 M8X30 Hex Bolt M8 Rectangular Nut

STEEL DIAGONAL



C-80
M12X30 Knurled Bolt
M12 Flanged Nut
M12 Washer

PANEL CENTER RETAINER



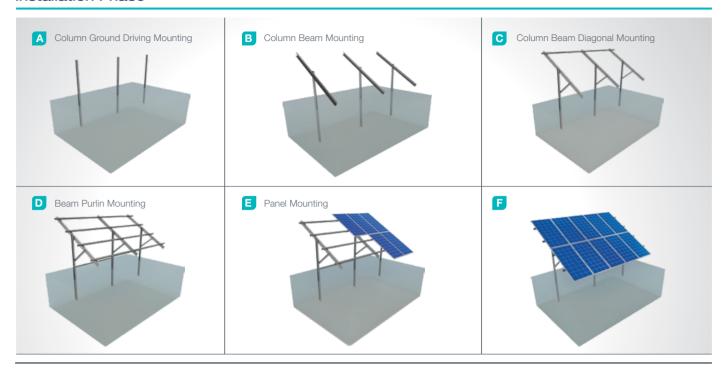
M8X30 Hex Bolt M8 Rectangular Nut

ALUMINUM PURLIN



M8X30 Hex Bolt
M8 Rectangular Nut





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:	(KPT14) Ground Driven Single Column Aluminum Purlin 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
Purlin Material:	EN AW 6063
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 50979



(KPT15) Concrete Base Anchored Steel Car Park Mounting System with 2 Vertical Panels

Overview

KPT15, is a concrete base anchored steel support and mounting system with 2 vertical panels for car park solar panels. The system is an optimal application solution for installations of PV projects in car parks. It provides strength and stability in car parks. 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 ANCHORAGE PIECE



■ CAP

M16X150 Knurled Bolt M16/M12 Flanged Nut M16/M12 Washer M12X30 Knurled Bolt

STEEL PURLIN CONNECTION PIECE



■ C-90 / C-100 / C-110

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

STEEL NPI COLUMN



■ NPI-200 x 90 x 7,5

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PURLIN CONNECTOR



■ U40

M8X30 Knurled Bolt M8 Flanged Nut M8 Washer

STEEL BEAM

8



■ CR-150

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PANEL SIDE RETAINER



■ H30-H32-H40

M8X30 Hex Bolt M8 Flanged Nut

STEEL PURLIN



■ CA-100 / CA-110

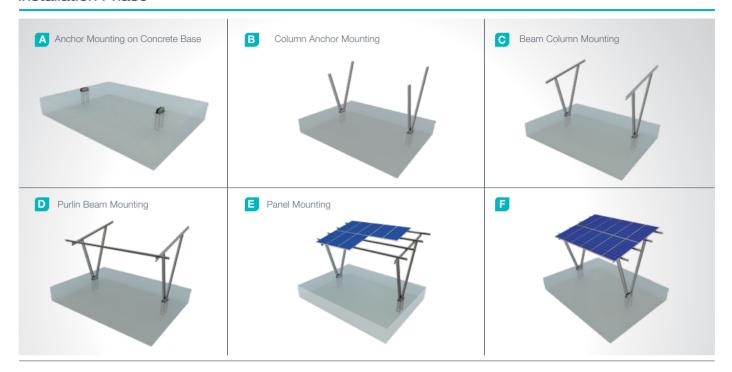
M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PANEL CENTER RETAINER



■ L70





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:	(KPT15) Concrete Base Anchored Steel Car Park Mounting System with 2 Vertical Panels
Assembly 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 50979



(KPT16) Concrete Base Anchored Steel Car Park Mounting System with 4 **Horizontal Panels**

Overview

KPT16, is a concrete base anchored steel support and mounting system with 4 horizontal panels for car park solar panels. The system is an optimal application solution for installations of PV projects in car parks. It provides strength and stability in car parks. 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 ANCHORAGE PIECE



■ CAP

M16X150 Knurled Bolt M16/M12 Flanged Nut M16/M12 Washer M12X30 Knurled Bolt

STEEL PURLIN CONNECTOR



■ C-90 / C-100 / C-110

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

STEEL NPI COLUMN



■ NPI-200 x 90 x 7.5

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PURLIN CONNECTOR



M8X30 Knurled Bolt M8 Flanged Nut M8 Washer

STEEL BEAM

8



■ CR-150

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PANEL SIDE RETAINER



■ H30-H32-H40

M8X30 Hex Bolt M8 Flanged Nut

STEEL PURLIN



■ CA-100 / CA-110

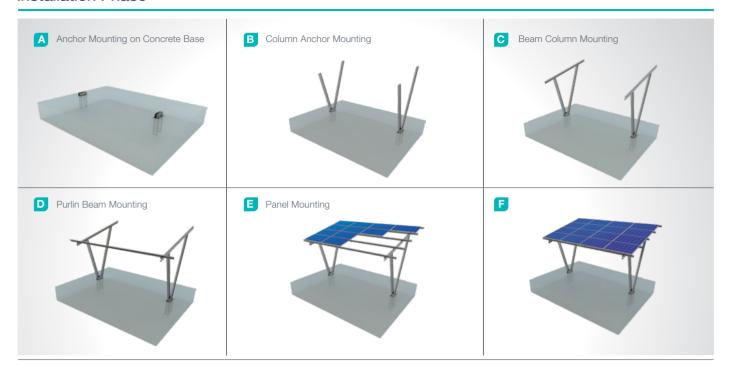
M12X30 Knurled Bolt M12 Flanged Nut M8X30 Knurled Bolt M8 Flanged Nut M8/M12 Washer

PANEL CENTER RETAINER



■ L70





Advantages

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

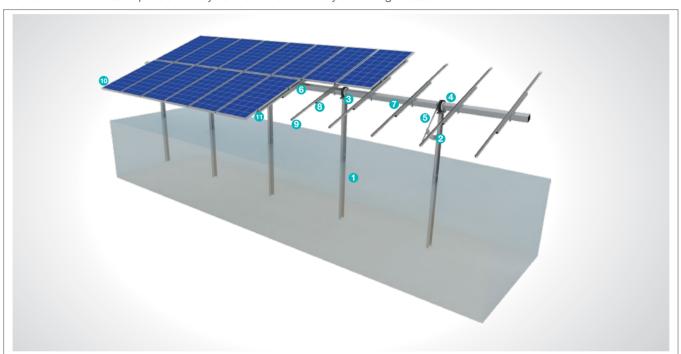
Explanation:	(KPT16) Concrete Base Anchored Steel Car Park Mounting System with 4 Horizontal Panels
Assembly Method:	Anchor on Concrete Base
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 50979



(KPT17) Ground Driven Manual Moving Single Axis Steel Mounting System with 2 **Vertical Panels**

Overview

KPT17, is a manual moving 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. It provides a more efficient use of solar panels. The system is moved manually according to season.







■ CK-150

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

STEEL ANGLE ADJUSTMENT LEVER



■ CADK

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer



M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

PURLIN CONNECTOR JOINING PIECE



M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

STEEL T / TP



M12X30 Knurled Bolt M12 Flanged Nut M16X180 Knurled Bolt M16 Flanged Nut M16/M12 Washer

STEEL SQUARE PURLIN



■ KPA

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer



■ TP-100 / TP-110

M16X180 Knurled Bolt M16 Flanged Nut M16 Washer

STEEL RECTANGULAR RAFTER



■ DPM-80x40

M12X110 Square Bolt M12 Flanged Nut M12 Square Bolt Washer



STEEL PROFILE

9



■ CP41x41 M12X110 Square Bolt M12 Flanged Nut M12 Square Bolt Washer

PANEL CENTER RETAINER



M8X30 Hex Bolt M8 Rectangular Nut

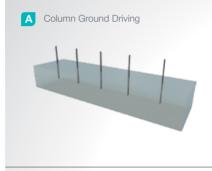
PANEL SIDE RETAINER

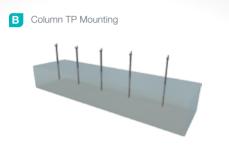
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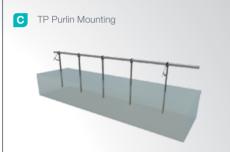


■ H30-H32-H40 M8X30 Hex Bolt M8 Flanged Nut

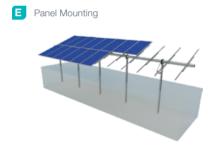
Installation Phase













Advantages

- Time saving for installation
- Cost saving for installation
- Flexible solutions for different types of terrains
- Up to 10% efficiency advantage
- Low maintenance cost
- Independent rack movements
- Tailored design solutions for customer
- Customer oriented engineering solutions

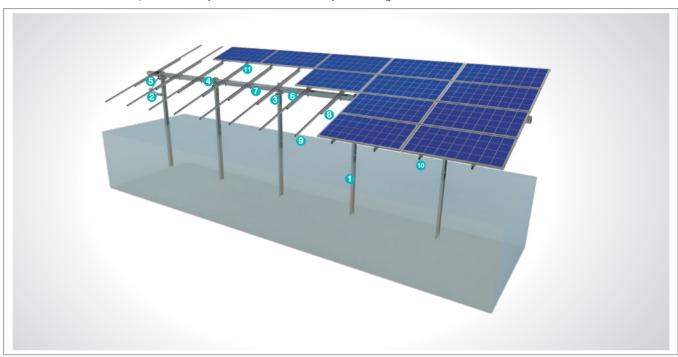
Description:	(KPT17) Ground Driven Manual Moving Single Axis Steel Mounting System with 2 Vertical Panels
Mounting Method:	Ground Driving
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height from Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 50979



(KPT18) Ground Driven Manual Moving Single Axis Steel Mounting System with **4 Horizontal Panels**

Overview

KPT18, is a manual moving 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. It provides a more efficient use of solar panels. The system is moved manually according to season.







M12X30 Knurled Bolt M12 Flanged Nut

M12 Washer

STEEL ANGLE ADJUSTMENT LEVER



■ CADK M12X30 Knurled Bolt M12 Flanged Nut M12 Washer



M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

PURLIN CONNECTOR JOINING PIECE



M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

STEEL T/TP



M12X30 Knurled Bolt M12 Flanged Nut M16X180 Knurled Bolt M16 Flanged Nut M16/M12 Washer

STEEL SQUARE PURLIN



M12X30 Knurled Bolt M12 Flanged Nut M12 Washer



■ TP-100 / TP-110 M16X180 Knurled Bolt M16 Flanged Nut M16 Washer

STEEL RECTANGLE RAFTER



■ DPM-80x40 M12X110 Square Bolt M12 Flanged Nut M12 Square Bolt Washer



STEEL PROFILE

9



■ CP41x41 M12X110 Square Bolt M12 Flanged Nut

M12 Square Bolt Washer

PANEL CENTER RETAINER



M8X30 Hex Bolt M8 Rectangular Nut

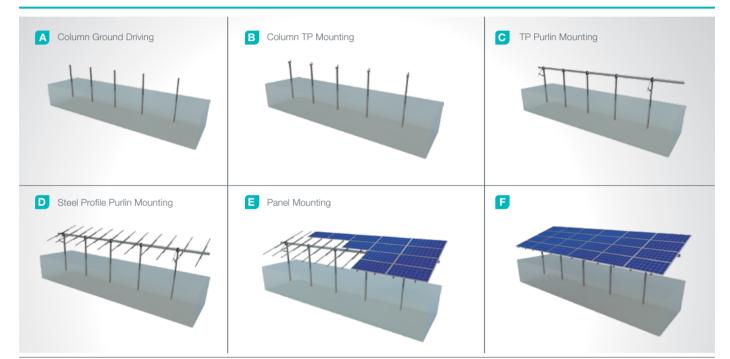
PANEL SIDE RETAINER

(1)



■ H30-H32-H40 M8X30 Hex Bolt M8 Rectangular Nut

Installation Phase



Advantages

- Time saving for installation
- Cost saving for installation
- Flexible solutions for different types of terrains
- Up to 10% efficiency advantage
- Low maintenance cost
- Independent rack movements
- Tailored design solutions for customer
- Customer oriented engineering solutions

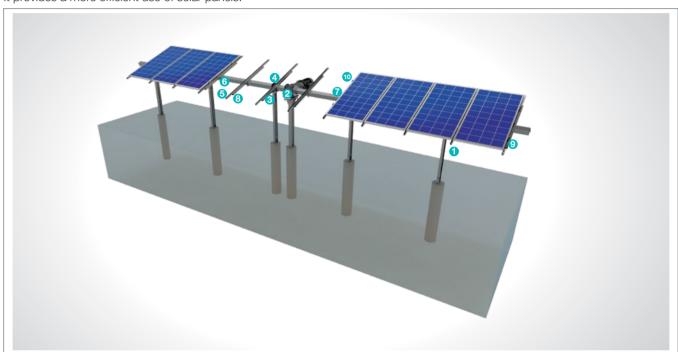
Description:	(KPT18) Ground Driven Manual Moving Single Axis Steel Mounting System with 4 Horizontal Panels
Mounting Method:	Ground Driving
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 50979



(KPT19) Concrete Embedded Steel Single Axis Solar Tracking System with **1 Vertical Panel**

Overview

KPT19, 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.



STEEL COLUMN



■ CK-150

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

STEEL PROFILE



■ CP41x41

M12X110 Square Bolt M12 Flanged Nut M12 Square Bolt Washer

STEEL ENGINE SUPPORT



■ NPI 160x82x7,4

M12X150 Tij M12 Flanged Nut M12 Washer M12x30 Knurled Bolt

PURLIN CONNECTOR JOINING PIECE



■ KPE

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

STEEL T/TP



M12X30 Knurled Bolt M12 Flanged Nut M16X180 Knurled Bolt M16 Flanged Nut M16/M12 Washer

STEEL SQUARE PURLIN



■ KPA

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer



■ TP-100 / TP-110

M16X180 Knurled Bolt M16 Flanged Nut M16 Washer

STEEL RECTANGLE RAFTER



■ DPM-80x40

M12X110 Square Bolt M12 Flanged Nut M12 Square Bolt Washer



PANEL CENTER RETAINER

9



■ L70 M8X30 Hex Bolt M8 Rectangular Nut

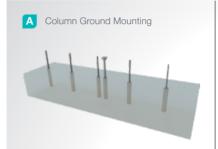
PANEL SIDE RETAINER

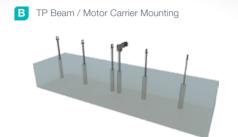




■ H30-H32-H40 M8X30 Hex Bolt M8 Rectangular Nut

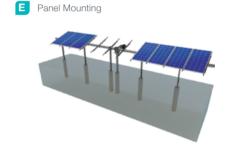
Installation Phase

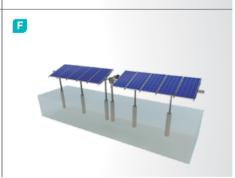












Advantages

- 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

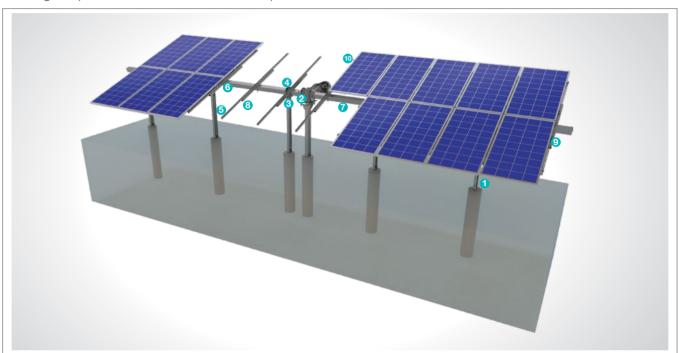
Description:	(KPT19) Concrete Embedded Steel Single Axis Solar Tracking System with 1 Vertical Panel
Mounting Method:	Concrete Embedded
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height From Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 50979



(KPT20) Concrete Embedded Steel Single Axis Solar Tracking System with 2 **Vertical Panels**

Overview

KPT20, is a concrete embedded steel support and mounting system which tracks the sun 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. It provides a more efficient use of solar panels.



STEEL COLUMN



■ CK-150

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

STEEL PROFILE



■ CP41x41 M12X110 Square Bolt

M12 Flanged Nut M12 Square Bolt Washer

STEEL ENGINE SUPPORT



■ NPI 160x82x7,4

M12X150 Rod M12 Flanged Nut M12 Washer M12x30 Knurled Bolt

PURLIN CONNECTOR JOINING PIECE

6

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

STEEL T/TP



■ CT

M12X30 Knurled Bolt M12 Flanged Nut M16X180 Knurled Bolt M16 Flanged Nut M16/M12 Washer

STEEL SQUARE PURLIN



M12X30 Knurled Head Bolt M12 Flanged Nut M12 Washer



■ TP-100 / TP-110

M16X180 Knurled Bolt M16 Flanged Nut M16 Washer

STEEL RECTANGLE RAFTER



■ DPM-80x40

M12X110 Square Bolt M12 Flanged Nut M12 Square Bolt Washer



PANEL CENTER RETAINER

9



■ L70 M8X30 Hex Bolt M8 Rectangular Nut

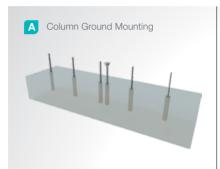
PANEL SIDE RETAINER

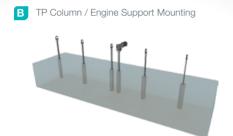




■ H30-H32-H40 M8X30 Hex Bolt M8 Rectangular Nut

Installation Phase













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

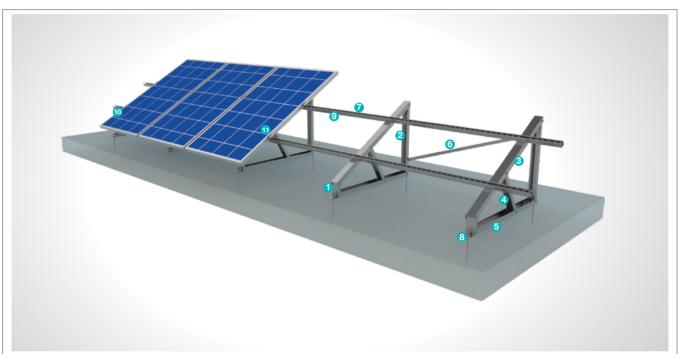
Description:	(KPT20) Concrete Embedded Steel Single Axis Solar Tracking System with 2 Vertical Panels
Mounting Method:	Concrete Embedded
Tilt Angle:	0-60 degrees
Module Application:	Framed and Unframed
Panel Height from Ground:	60 cm
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 50979



(KPT21) Flat Roof Steel Mounting System with 1 Vertical Panel

Overview

KPT21, is a flat roof steel mounting system with 1 vertical panel. The system is an optimal application solution for installations of PV projects on large and small-sized roofs. 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.













Chemical Anchor

M12 Flanged Nut

M12 Washer



PURLIN CONNECTOR JOINING PIECE



■ C41 M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

PANEL SIDE RETAINER



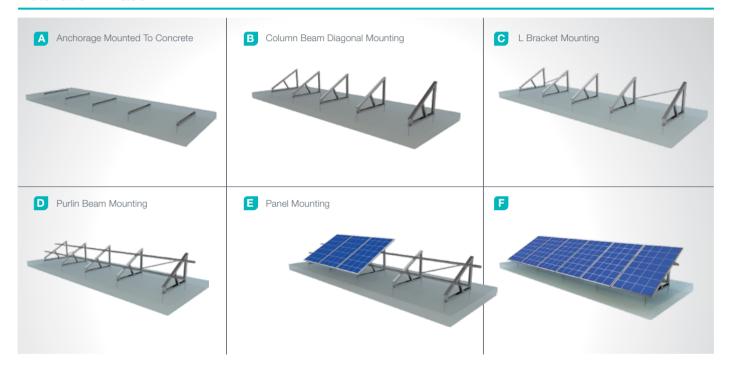
■ H30-H32-H40 M8X30 Hex Bolt M8 Rectangular Nut

PANEL CENTER RETAINER



■ L70 M8X30 Hex Bolt M8 Rectangular Nut

Installation Phase



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

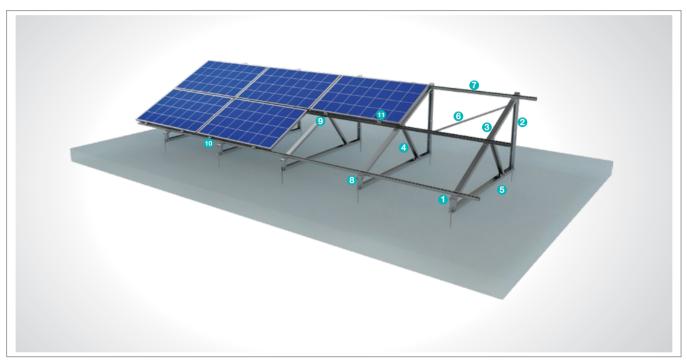
Description:	(KPT21) Flat Roof Steel Mounting System with 1 Vertical Panel
Mounting Method:	Roof Floor Mounting
Module Application:	Framed and Unframed
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 50979



(KPT22) Flat Roof Steel Mounting System with 2 Horizontal Panels

Overview

KPT22, is a flat roof steel mounting system with 2 vertical panels. The system is an optimal application solution for installations of PV projects on large and small-sized roofs. 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.













M12 Washer



PURLIN CONNECTOR JOINING PIECE



■ C41 M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

PANEL SIDE RETAINER



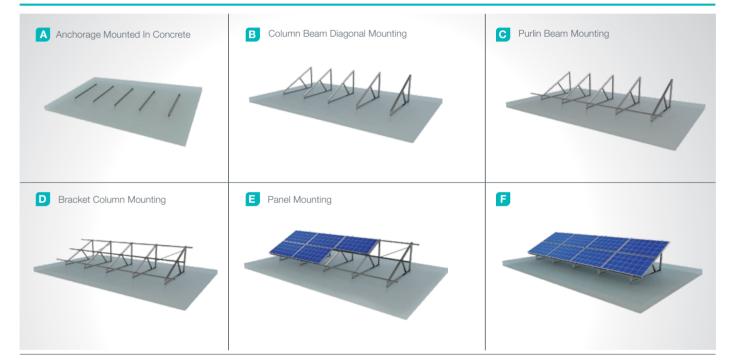
■ H30-H32-H40 M8X30 Hex Bolt M8 Rectangular Nut

PANEL CENTER RETAINER



■ L70 M8X30 Hex Bolt M8 Rectangular Nut

Installation Phase



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

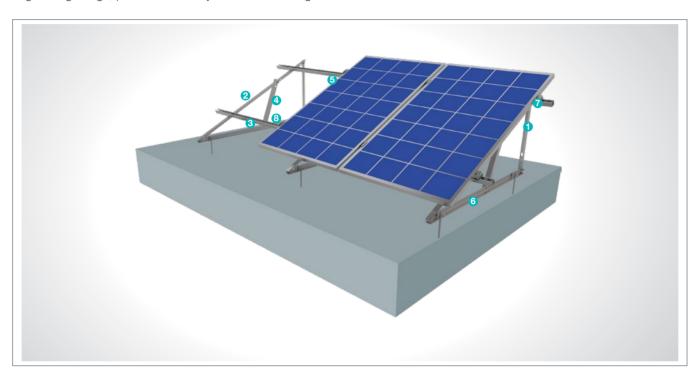
Description:	(KPT22) Flat Roof Steel Mounting System with 2 Horizontal Panels
Mounting Method:	Roof Floor Mounting
Module Application:	Framed and Unframed
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 50979



(KPT23) Eco Series Flat Roof Steel Mounting System with 1 Vertical Panel

Overview

KPT23, is a flat roof steel mounting system with 1 vertical panel. The system is an optimal application solution for installations of PV projects on large and small-sized roofs. 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.



L BRACKET COLUMN





■ LK-40x40

M12X30 Knurled Bolt M12 Flanged Nut M8/M12 Washer

PURLIN CONNECTOR JOINING PIECE





■ C41

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer





■ LR-40x40

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

L BRACKET ANCHOR



■ LA 40x40

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

STEEL PROFILE



■ CP-41x41

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Hex Bolt M8 Flanged Nut M8/M12 Washer

PANEL SIDE RETAINER

■ H30-H32-H40

M8X30 Hex Bolt M8 Rectangular Nut

L BRACKET DIAGONAL



■ LD-40X40

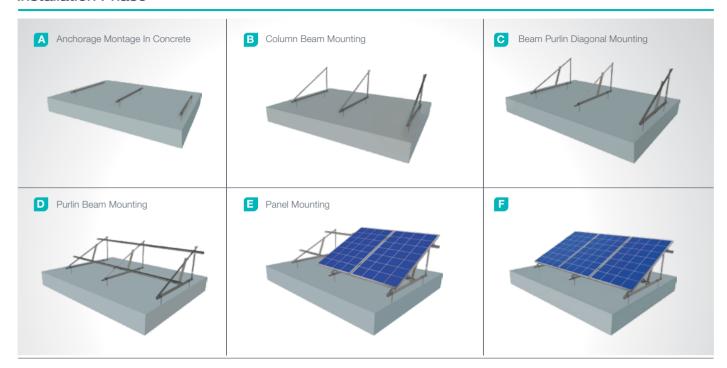
M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

PANEL CENTER RETAINER



M8X30 Hex Bolt M8 Rectangular Nut





Advantages

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

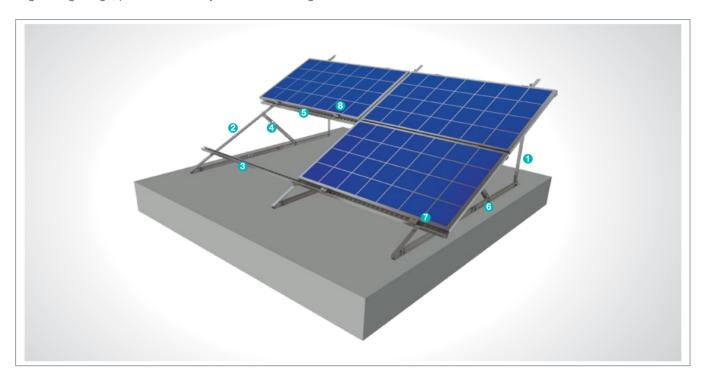
Description:	(KPT23) Eco Series Flat Roof Steel Mounting System with 1 Vertical Panel
Mounting Method:	Roof Floor Mounting
Module Application:	Framed and Unframed
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 50979



(KPT24) Eco Series Flat Roof Steel Mounting System with 2 Horizontal Panels

Overview

KPT24, is a flat roof steel mounting system with 2 vertical panels. The system is an optimal application solution for installations of PV projects on large and small-sized roofs. 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.



L BRACKET COLUMN





■ LK-40x40

M12X30 Knurled Bolt M12 Flanged Nut M8/M12 Washer

PURLIN CONNECTOR JOINING





M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

L BRACKET BEAM





■ LR-40x40

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

L BRACKET ANCHOR





■ LA 40x40

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

STEEL BEAM





■ CP-41x41

M12X30 Knurled Bolt M12 Flanged Nut M8X30 Hex Bolt M8 Flanged Nut M8/M12 Washer

PANEL SIDE RETAINER





■ H30-H32-H40

M8X30 Hex Bolt M8 Rectangular Nut

L BRACKET DIAGONAL



■ LD-40X40

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

PANEL CENTER RETAINER

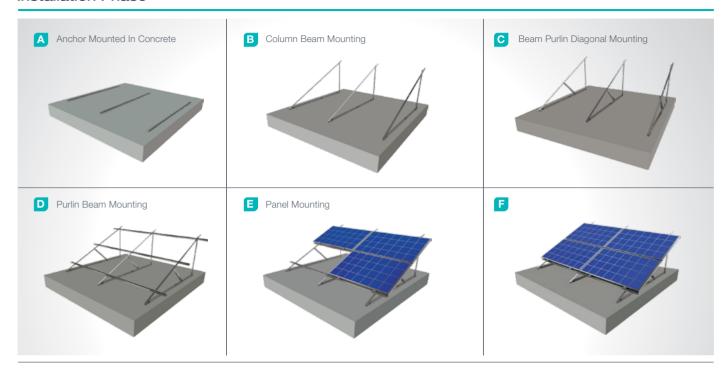




■ L70

M8X30 Hex Bolt M8 Rectangular Nut





Advantages

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

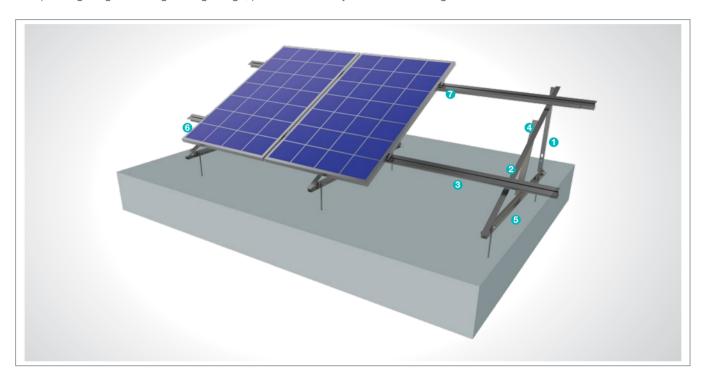
Description:	(KPT24) Eco Series Flat Roof Steel Mounting System with 2 Horizontal Panels
Mounting Method:	Roof Floor Mounting
Module Application:	Framed and Unframed
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 50979



(KPT25) Flat Roof Steel Mounting System With Aluminum Purlin & 1 Vertical Panel

Overview

KPT25, is a flat roof steel mounting system with aluminum purlin and 1 vertical panel. The system is an optimal application solution for installations of PV projects on large and small-sized roofs. 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.









■ LK-40x40

M12X30 Knurled Bolt M12 Flanged Nut M8/M12 Washer

L BRACKET ANCHOR





■ LA 40x40

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

L BRACKET BEAM





■ LR-40x40

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

PANEL SIDE RETAINER



■ H30-H32-H40

M8X30 Hex Bolt M8 Square Nut

ALUMINUM PURLIN



■ AA-100x70

M12X30 T Bolt M12 Flanged Nut M8X30 Hex Bolt M8 Square Nut M8/M12 Washer

PANEL CENTER RETAINER





M8X30 Hex Bolt M8 Square Nut

L BRACKET DIAGONAL

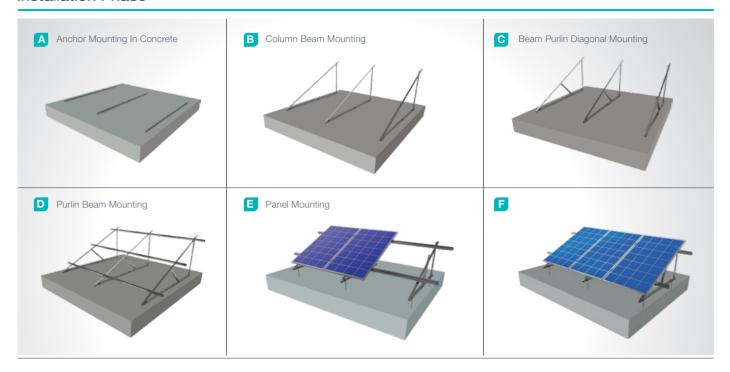




■ LD-40X40

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer





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

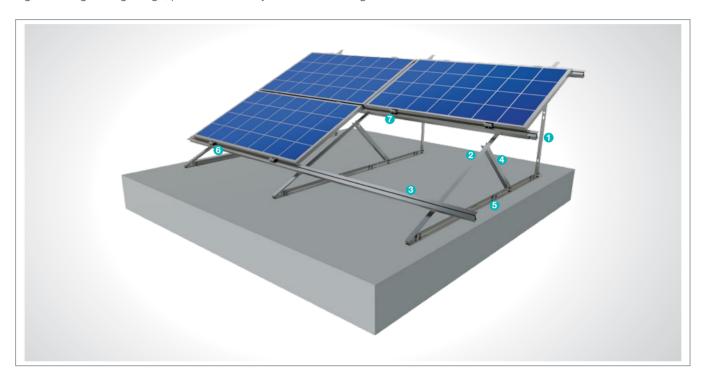
Description:	(KPT25) Flat Roof Steel Mounting System With Aluminum Purlin & 1 Vertical Panel
Mounting Method:	Roof Floor Mounting
Module Application:	Framed and Unframed
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Purlin Material:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 50979



(KPT26) Flat Roof Steel Mounting System With Aluminum Purlin & 2 Horizontal Panels

Overview

KPT26, is a flat roof steel mounting system with aluminum purlin and 2 horizontal panels. The system is an optimal application solution for installations of PV projects on large and small-sized roofs. 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.









■ LK-40x40

M12X30 Knurled Bolt M12 Flanged Nut M8/M12 Washer

L BRACKET ANCHORAGE





■ LA 40x40

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

L BRACKET BEAM



■ LR-40x40

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

PANEL SIDE RETAINER





■ H30-H32-H40 M8X30 Hex Bolt M8 Square Nut

ALUMINUM PURLIN



■ AA-100x70

M12X30 T Bolt M12 Flanged Nut M8X30 Hex Bolt M8 Square Nut M8/M12 Washer

PANEL CENTER RETAINER



■ L70 M8X30 Hex Bolt M8 Square Nut

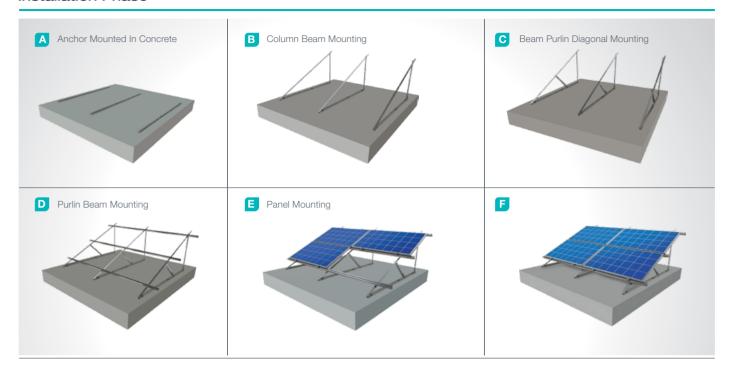
L BRACKET DIAGONAL



■ LD-40X40

M12X30 Knurled Bolt M12 Flanged Nut M12 Washer





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

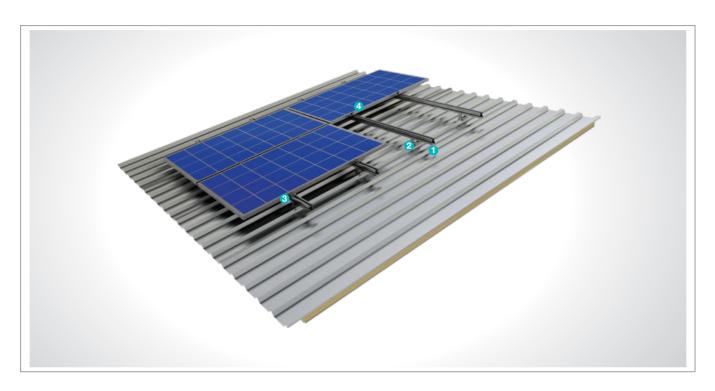
Description:	(KPT26) Flat Roof Steel Mounting System With Aluminum Purlin & 2 Horizontal Panels
Mounting Method:	Roof Floor Mounting
Module Application:	Framed and Unframed
Column and Beam Coating:	EN ISO 1461
Column and Beam Material:	EN 10025 / EN 10029
Optional Beam Material:	EN 10346
Panel Retainer:	EN AW 6063
Purlin Material:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70 DIN 50979



(KPT27) Pitched Roof Aluminum and Stainless Steel Mounting System

Overview

KPT27, is a pitched roof aluminum and stainless steel mounting system. The system is an optimal application solution for installations of PV projects on large and small-sized roofs. System components are manufactured with high-tech machinery and equipment. The system, incorporating a high-level engineering design, provides assembly and cost advantages.







■ AA-90x45 M10/T25 Head Bolt M10 Flanged Nut

ALUMINUM PURLIN CONNECTION PIECE



■ PT-Stainless
M8X30 Round Head Bolt
M8 Flanged Nut
Pitched Roof Screw

PANEL SIDE HOLDER



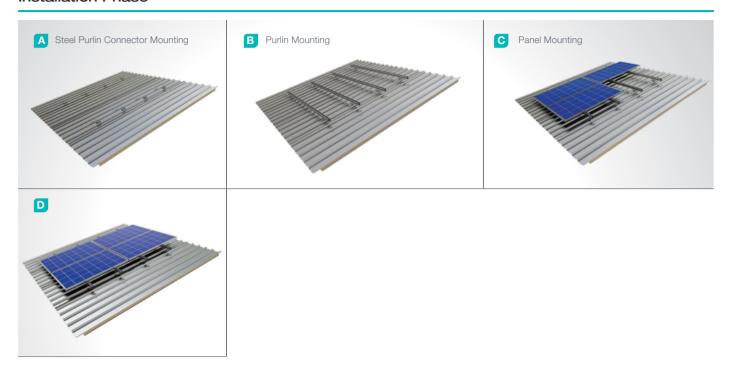
M8X30 Hex Bolt M8 Rectangular Nut

PANEL CENTER HOLDER



■ L70 M8X30 Hex Bolt M8 Rectangular Nut





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

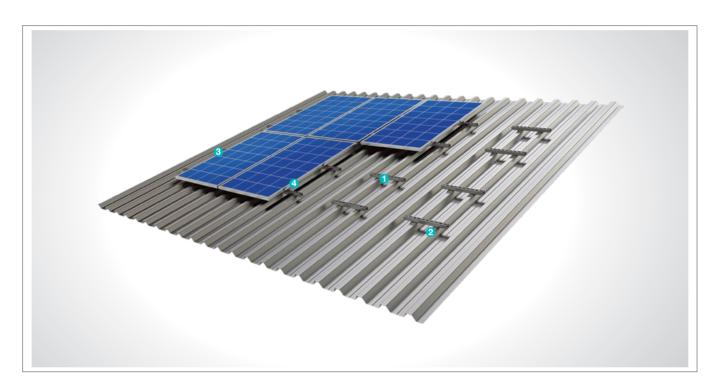
Description:	(KPT27) Pitched Roof Aluminum and Stainless Steel Mounting System
Mounting Method:	Pitched Roof Mounting
Module Application:	Framed and Unframed
Beam Material:	EN AW 6063
Panel Retainer:	ASTM A 304 / A 316
Purlin Material:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70
Optional Connector Equipment:	Special Type Adhesive



(KPT28) Eco Series Pitched Roof Aluminum and Stainless Steel Mounting System

Overview

KPT28, is a more affordable type pitched roof aluminum and stainless steel mounting system. The system is an optimal application solution for installations of PV projects on large and small-sized roofs. System components are manufactured with high-tech machinery and equipment. The system, incorporating a high-level engineering design, provides assembly and cost advantages.







M12X30 Knurled Bolt M12 Flanged Nut M12 Washer

STEEL PURLIN CONNECTOR



■ PTK
Pitched Roof Screw

PANEL SIDE RETAINER



■ H30-H32-H40 M8X30 Hex Bolt M8 Cage Nut

PANEL CENTER RETAINER



M8X30 Hex Bolt M8 Cage Nut





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

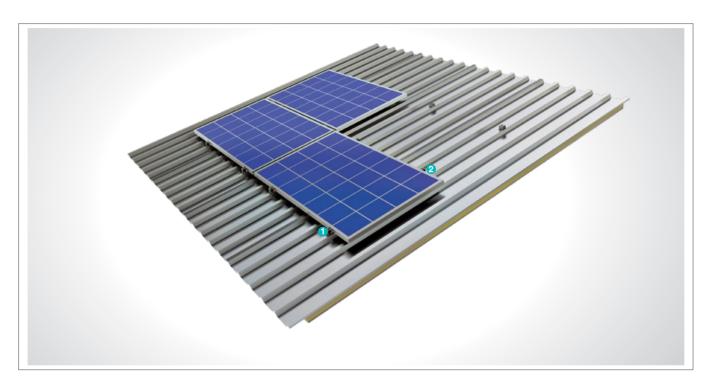
Description: (KPT28) Eco Series Pitched Roof Aluminum and Stainless Steel Mounting System Mounting Method: Pitched Roof Mounting Module Application: Framed and Unframed
Module Application: Framed and Unframed
Beam Material: EN AW 6063
Panel Retainer: ASTM A 304 / A 316
Purlin Material: EN AW 6063
Connector Equipment: DIN 934 / DIN933 / DIN 912, A2-70



(KPT29) Pitched Roof Aluminum Mounting System

Overview

KPT29, is an aluminum mounting systemfor pitched roof. The system is an optimal application solution for installations of PV projects on large and small-sized roofs. System components are manufactured with high-tech machinery and equipment. The system, incorporating a high-level engineering design, provides assembly and cost advantages.







■ H30-H32-H40 M8X30 Hex Bolt M8 Nut Pitched Roof Screw

PANEL SIDE RETAINER



M8X30 Hex Bolt M8 Nut Pitched Roof Screw





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

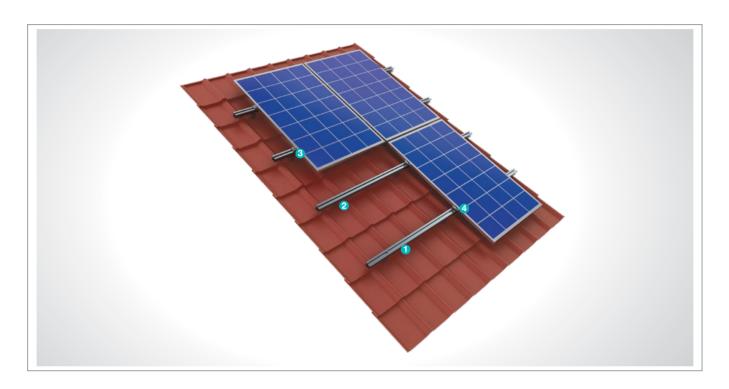
Description:	(KPT29) Pitched Roof Aluminum Mounting System
Mounting Method:	Pitched Roof Mounting
Module Application:	Framed and Unframed
Beam Material:	EN AW 6063
Panel Retainer:	ASTM A 304 / A 316
Purlin Material:	EN AW 6063
Connector Equipment:	DIN 934 / DIN933 / DIN 912, A2-70



(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, incorporating a high-level engineering design, provides assembly and cost advantages.







M10/T25 Head Bolt M10 Flanged Nut

TILE PURLIN CONNECTION PIECE



MAP
M10/T25 Head Bolt
M10 Flanged Nut
Self-drilling Screw

PANEL SIDE RETAINER



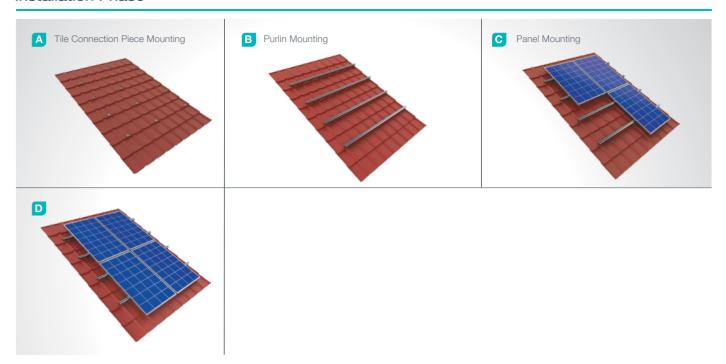
M8X30 Hex Bolt
M8 Rectangular Nut

PANEL CENTER RETAINER



M8X30 Hex Bolt
M8 Rectangular Nut





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

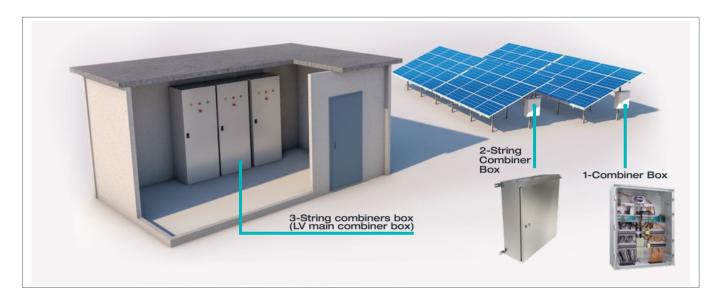


1-Combiner box (DC Combiner)

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.



References

























































































Reference List

100 MW

Turkey

USA

Ukraine

Slovakia















































