AP Precision Metals Inc. Introduces Cost-Efficient Aluminum Busbar for Leading Solar Companies

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AP Precision Metals Inc. has announced that it is now supplying custom aluminum busbars to some of the top solar companies in the United States. This is a big deal for the company, which has over 20 years of expertise in the metal solutions industry. By meeting the high demand from solar companies, AP Precision Metals aims to contribute to the growing renewable energy sector.

Switching to aluminum busbars instead of traditional copper busbars offers several advantages for solar companies. One of the main benefits of using aluminum busbar is the significant cost savings. Because aluminum is generally more affordable than copper, it reduces both the initial investment and long-term operational costs. This makes aluminum an attractive option for companies looking to manage budgets without losing out on performance.

"Supplying aluminum busbars to leading solar companies shows our commitment to innovation and cost-efficiency," said Joe, a representative from AP Precision Metals. "The lightweight yet durable nature of aluminum busbars ensures not only financial savings but also ease of installation and maintenance for our clients."

Besides the cost savings, aluminum busbars are known for being lightweight. This is especially useful in solar applications where reducing the weight of electrical components can lead to easier handling and quicker installation. The light weight also allows for greater design flexibility and puts less stress on mounting systems.

Aluminum busbars also excel in conductivity, which is crucial for electrical applications. They offer good electrical conductivity while also providing excellent corrosion resistance, which is important for the longevity of solar power systems. This durability means fewer maintenance requirements and extends the life of the electrical components, adding another layer of cost efficiency.

"Our aluminum busbars are made to meet high conductivity and durability standards needed by solar companies," Joe continued. "They are not just a cost-effective solution but a reliable one, ensuring that solar power systems run efficiently and consistently."

AP Precision Metals operates at the forefront of aluminum busbar manufacturing technology, processing over 75,000 lbs of aluminum busbar each month in their modern 40,000 sq. ft. facility. For solar applications, the company uses 6063-T52 aluminum alloy, chosen for its high tensile strength, corrosion resistance, and suitability for cold-forming. This material not only delivers strong performance but also supports the sustainability goals of solar companies.

The comparison between aluminum and copper busbars shows more advantages for aluminum in solar installations. While copper has higher electrical conductivity, aluminum's excellent conductivity-to-weight ratio offers a balanced compromise. Aluminum's resistance to corrosion and ability to handle significant temperature changes make it ideal for outdoor and long-term installations, which are common in solar farms.

In 2023, AP Precision Metals expanded its network of plating suppliers to increase their finishing capacity. This step ensures a high-quality finish for all aluminum busbars leaving their production lines. The increased capacity allows them to meet the growing demand efficiently while maintaining the highest standards of quality.

Additionally, AP Precision Metals offers a wide array of metal solutions, including fabrication, cutting, welding, painting and finishing, and OEM supply. The company employs specialized machinery for cutting a wide range of metal alloys and thicknesses, ensuring high precision and efficiency. They also provide in-house finishing processes such as powder coating, and collaborate with trusted suppliers for other finishing needs.

The shift to aluminum busbars in the solar industry signals a broader trend towards more cost-effective and lightweight solutions without sacrificing performance or durability. It highlights the ongoing innovation in metal

solutions that AP Precision Metals continues to support.

For more information about AP Precision Metal?s aluminum busbar solutions, interested parties can explore the company's services and detailed benefits of using aluminum busbar. Additionally, for a complete understanding of the materials, a detailed comparison between aluminum and copper busbars is available.

AP Precision Metals is dedicated to providing high-quality metal solutions to meet the evolving needs of various industries, including renewable energy. By focusing on innovation, cost-efficiency, and sustainability, the company aims to set new standards in manufacturing excellence.

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AP Precision Metals Inc.

AP Precision Metals, Inc. was founded in 1998 by Lane Litke and Victor Miller out of a necessity for reliable metal products for their growing robotics company.

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