

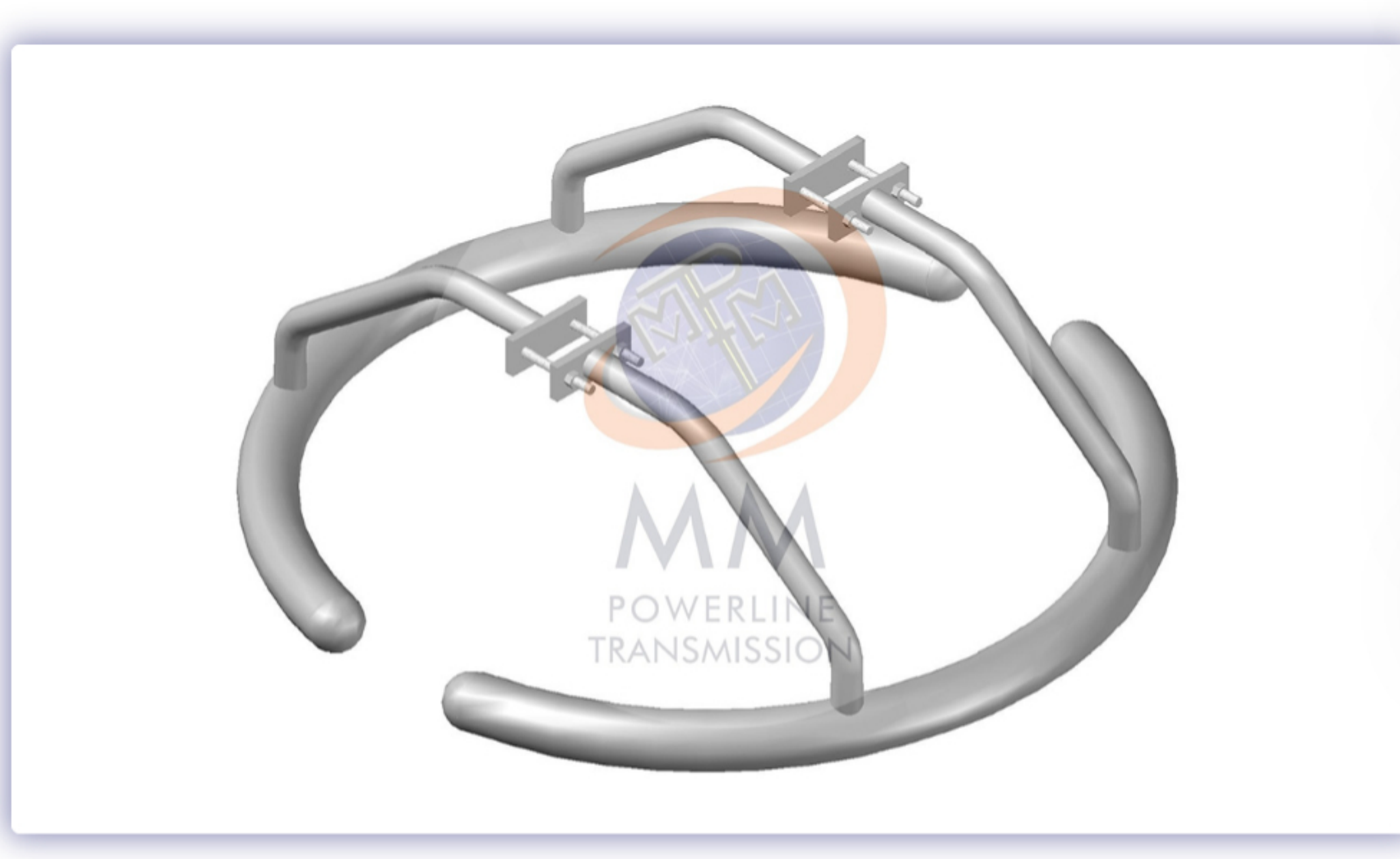


Corona Ring OD-900

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Corona Ring OD-900

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At MM POWERLINE TRANSMISSION, we are committed to maintaining the highest standards of safety, reliability, and efficiency in our power transmission networks. A critical component that aids in achieving these objectives is the Corona Ring (OD – 900). This essential piece of equipment plays a vital role in mitigating electrical stress, protecting conductors and insulators, and ensuring the stability of transmission lines. In this article, we will explore the features, functions, and importance of the Corona Ring (OD – 900) in our transmission infrastructure.

What is a Corona Ring (OD – 900)?

The Corona Ring (OD – 900) is a specialized device designed to reduce the occurrence of corona discharge in overhead power transmission lines. Corona discharge happens when the electric field around a conductor becomes strong enough to ionize the surrounding air, leading to energy loss, reduced efficiency, and potential damage to components like insulators. The corona ring helps to smooth the electric field around the conductor, reducing the likelihood of corona discharge and ensuring a longer lifespan for the transmission system.

The Corona Ring (OD – 900) is specifically designed with a 900mm outer diameter to fit various conductor types and sizes, providing optimal protection and performance for transmission lines.

Key Features

- 1. Durable Construction:** The Corona Ring (OD – 900) is made from high-strength materials, typically stainless steel or aluminum. These materials are highly resistant to corrosion, high voltage, and environmental wear, ensuring the ring's durability and long-lasting performance under harsh operating conditions.
- 2. Efficient Design:** The design of the Corona Ring (OD – 900) is engineered to distribute the electric field around the conductor evenly. This helps prevent corona discharge and its associated effects, such as energy loss, degradation of components, and interference in transmission line operation.
- 3. Precision Fit:** With its outer diameter of 900mm, the Corona Ring (OD – 900) is designed to fit specific conductor sizes, ensuring an optimal and stable connection to the transmission system. Its dimensions offer excellent compatibility across a wide range of power lines.
- 4. Easy Installation:** The Corona Ring (OD – 900) is designed for simple installation, making it easy to attach to conductors without significant downtime. This feature minimizes maintenance time, ensuring that transmission systems can stay operational and efficient.

Functions of the Corona Ring (OD – 900)

- 1. Minimizing Corona Discharge:** The primary function of the Corona Ring (OD – 900) is to reduce the occurrence of corona discharge. By ensuring a more uniform electric field around the conductor, the corona ring minimizes the chances of ionizing the surrounding air, which helps prevent energy loss and ensures a smooth power flow.
- 2. Protecting Insulators:** By reducing the risk of corona discharge, the Corona Ring (OD – 900) helps protect the insulators from the damaging effects of electrical stress. This increases the lifespan of the insulators and reduces the need for frequent replacements.
- 3. Improving Power Transmission Efficiency:** Preventing corona discharge helps enhance the overall transmission system's efficiency. By reducing energy loss caused by corona, the Corona Ring (OD – 900) ensures that more electricity is delivered effectively and efficiently, improving the system's overall performance.
- 4. Enhancing Safety:** The Corona Ring (OD – 900) plays a crucial role in ensuring the safety of both the transmission infrastructure and personnel. By preventing corona discharge, it reduces the risk of electrical faults and other safety hazards, ensuring that the transmission system operates safely.

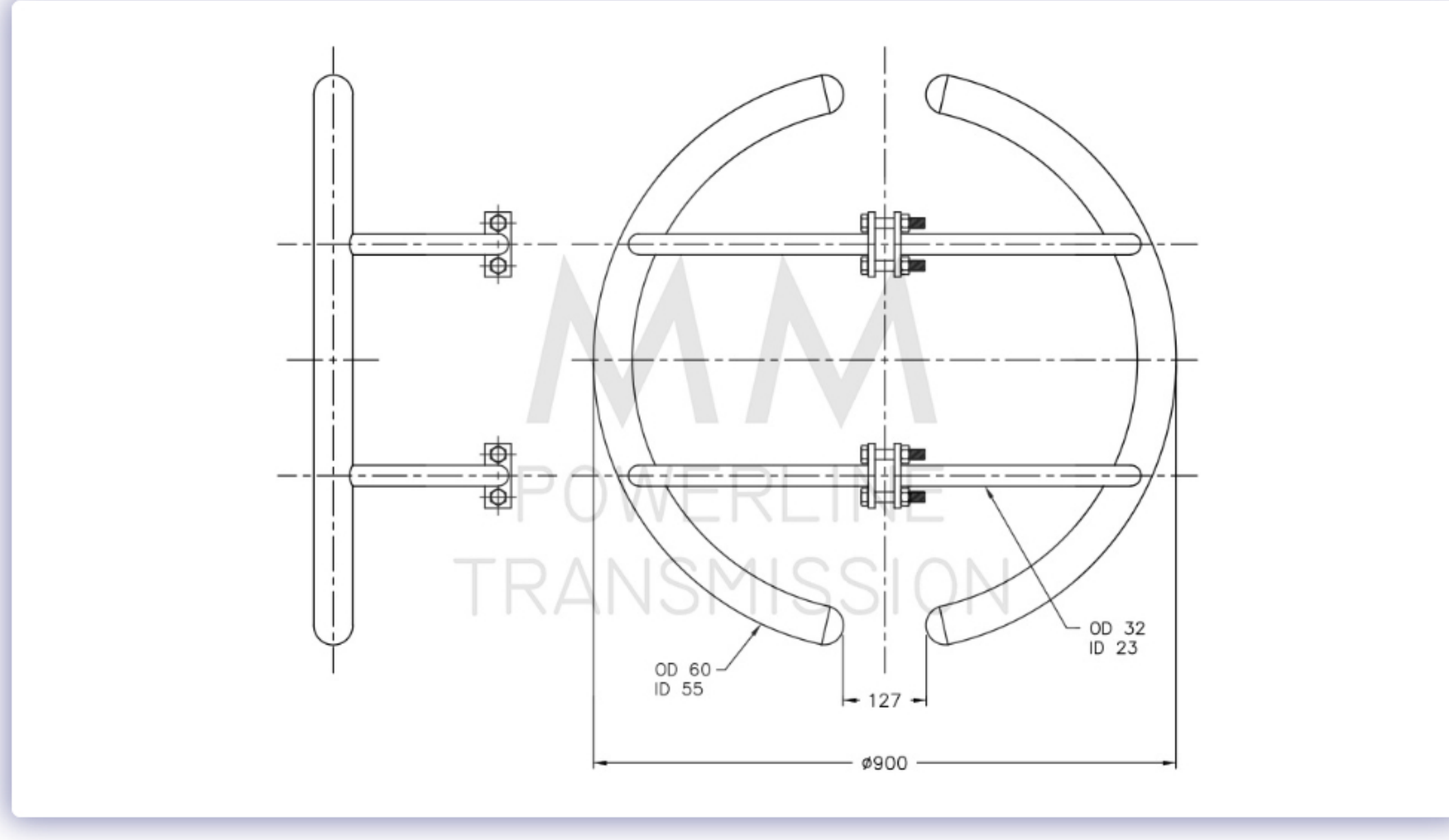
Importance in Transmission Line Systems

The Corona Ring (OD – 900) is essential in transmission line systems for the following reasons:

- **Safety:** By preventing corona discharge and ensuring a uniform electric field, the Corona Ring (OD – 900) minimizes electrical faults and safety hazards, protecting personnel and the equipment from potential damage.
- **Reliability:** A reliable power transmission system is essential for consistent electricity supply. The Corona Ring (OD – 900) helps improve the system's reliability by reducing energy loss, protecting components, and ensuring uninterrupted power delivery.
- **Cost Efficiency:** The Corona Ring (OD – 900) contributes to cost savings by enhancing the longevity of transmission components and reducing the need for frequent maintenance. This helps lower the overall operational costs and ensures the transmission system's long-term efficiency.

Conclusion

The Corona Ring (OD – 900) is a critical component in the infrastructure of MM POWERLINE TRANSMISSION. Its role in preventing corona discharge, protecting insulators, and enhancing the overall efficiency of transmission lines is essential to the safety and reliability of our power transmission systems. As the demand for electricity continues to rise, it is more important than ever to maintain a resilient and efficient transmission network. The Corona Ring (OD – 900) ensures that our transmission lines remain safe, efficient, and reliable, meeting the growing energy needs of our communities. Proper selection, installation, and maintenance of this component are key to ensuring the long-term success and reliability of our power transmission systems.



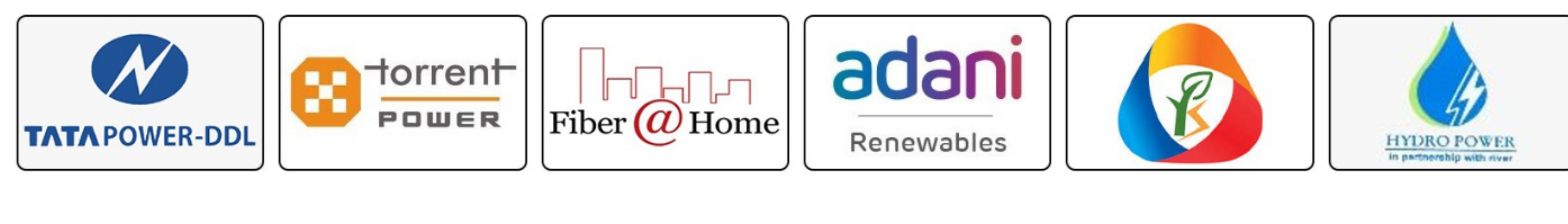
BOM

SL. NO	DESCRIPTION	QTY	MATERIAL
1	CORONA RING	2 NOS	AL.ALLOY
2	BRACKET	4 NOS	AL.ALLOY/HDG STEEL
3	BOLT	4 NOS	HDG STEEL
4	NUT	4 NOS	HDG STEEL

TECHNICAL DATA

1. ALL DIMENSIONS ARE IN MM.
2. GENERAL TOLERANCE ±5% UNLESS OTHERWISE SPECIFIED.
3. FERROUS PART HOT DIP GALVANISED AS PER IS : 2633.
4. FERROUS RING & BRACKET AL. ALLOY

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Address

Office : 2D.N.S.Road,shantinagar Colony,Compact Appt., Block-B,Flat-G001,Liluah,Howrah-711 204,West Bengal,India
 Factory : 58.N.S.Road,Lilauh,Howrah – 711204,West Bengal,India
 +91 8961536500
 sales@mmpt.in

