



*Quality products made in Norway for rough climatic situations*

# SELF CLOSING SPARK GAP

## 22kV

May 2024

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### USAGE

EL-tjeneste AS delivers robust arcing horns that can handle high levels of overcurrent without breakage. Their construction and the material used, will not lead to different characteristic even after many flashovers. Testing shows that they can extinguish sequential currents up to 42A.

### MOUNTING

Arcing horn can be placed in front of the transformer or the components it shall protect, used as freestanding protection or commonly used in combination with surge arrester.

The arcing horn will reduce the peak over the transient overcurrent, so that it protects the surge arrester and make it more capable of handling the overcurrent. In the event of failure in surge arrester, the transmission line will still have overvoltage protection. Defect surge arrestors can be difficult to detect visually and costly to verify. There is a risk that defect surge arrestors remains undetected and gives a false sense of protection.

Several arcing horns can be placed sequential in the poles in front of transformation station, where there are good grounding conditions.

### GENERAL INFORMATION

The arcing horns is equipped with bird protection made of insulated material, to prevent birds from landing on and short-circuiting live components. Causing damage to wildlife as well as unnecessary faults in the distribution line.

Most of our arcing horns are mounted on insulators, where they form a spark gap across the insulator with a lower breakdown voltage than the air path along the insulator surface. By diverting the overvoltage away from the surface of the insulator, they protect the insulator from damage.

Our arcing horns cover various types of insulators and is also available for live-line work.

















### USE IN CORROSIVE ENVIROMENT

Special considerations must be taken when used in corrosive environment. Grease can prevent moisture between materials in connection points. See [www.el-tjeneste.no](http://www.el-tjeneste.no) for more information.

### INSTRUCTIONS AND DATASHEET

Mounting instructions and datasheet can be found on our webpage [www.el-tjeneste.no](http://www.el-tjeneste.no).

Each product has a label with a QR-code, this will lead to the product on the webpage.

El-no	Name	Description	Unit	Picture
2851768	Arc horn GMEGH	Arc horn for self closing spark gap. Unit set of 3.	SET	
2851767	Arc horn GMSGH	Arc horn for self closing spark gap. Unit set of 3.	SET	
2851769	Arc horn GMTGH	Arc horn for self closing spark gap. Unit set of 3.	SET	
2851771	Earth rod JS2150	Earth rod for live working on spark gap. Phase 1,5m. Unit set of 2 with length 1,5m	SET	
2851772	Earth rod JS2200	Earth rod for live working on spark gap. Phase 2m. Unit set of 2 with length 2m	SET	
2851764	Shunt clamp SK-GK	Shunt clamp. Accessory to spark gap.	SET	
2851753	Spark gap GME	Self closing spark gap. Unit set of 3.	SET	
2851755	Spark gap GME-I	Self closing spark gap. Unit set of 3.	SET	
2851752	Spark gap GMS	Self closing spark gap. Unit set of 3.	SET	
2851756	Spark gap GMS-I	Self closing spark gap. Unit set of 3.	SET	
2851750	Spark gap GMS-JS	Self closing spark gap with isolators for live-line work. Phasedistance 1,5-2m. Unit set of 3.	SET	
2851751	Spark gap GMS-JSB	Self closing spark gap with isolators for live-line work. Phasedistance 0,5-0,6m Unit set of 3.	PCS	
2851754	Spark gap GMT	Self closing spark gap. Unit set of 3.	SET	
2851757	Spark gap GMT-I	Self closing spark gap. Unit set of 3.	SET	
2851773	Spark gap GMT-KL	Self closing spark gap. Unit set of 3.	PCS	
2851766	Spark gap GMT-GK-I	Self closing spark gap. Unit set of 3.	SET	



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