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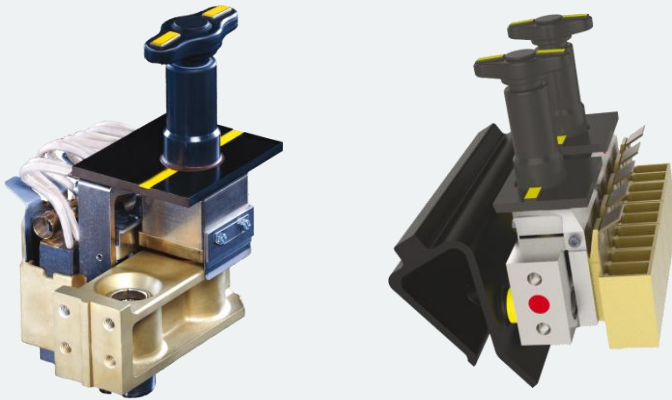
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# PLUG SET BRUSH-HOLDERS FOR TURBO GENERATORS AND SYNCHRONOUS MACHINES

ZOOM

FOR MACHINES  
10 - 1,200 MVA



## THE GUARANTEE OF PERFECT CONTACT BETWEEN THE PLUG SET AND THE BRUSH BAR thereby limiting selective action between carbon brushes in the plug set

Carbon brushes in turbo generator collectors must transfer current at **very high peripheral speeds**.

Mersen's plug sets **optimize current sharing** between brushes and ensure a **sound electrical/mechanical interface** to the slip ring.

Mersen has a 35 year history of supplying plug set solutions to Turbo Generator OEMs worldwide.

Mersen's plug sets allow safe on line brush change out under load with no loss of production.

## MODULAR CONSTRUCTION

1 to 6 carbon brushes per plug set

## DESIGNED WITH SAFETY IN MIND

Guaranteeing full protection with associated PPE when replacing carbon brushes under load

## INSTALLATION FLEXIBILITY

Offering the possibility of fixing the plug set into a brush bar or clamped to a rod

## PERFORMANCES

Silver "multi-contact" design for current transfer to the bus

The unique Mersen silver laminar multi-contact socket



## BREAKTHROUGH SMART CHARACTERISTICS, GUARANTEEING:

A PERFECT CONTACT BETWEEN THE SLIP RING AND THE CARBON BRUSHES		
+ MODULAR DESIGNS		
	<ul style="list-style-type: none"> <li>• 2 to 6 carbon brushes per plug set</li> <li>• Constant force springs</li> <li>• "Magazine" and "Single" brush style plug sets available</li> <li>• Optional integral brush hold-off device</li> </ul>	→ Wide freedom of design
+ SAFETY		
	<ul style="list-style-type: none"> <li>• Handle insulated to 2,500 volts</li> <li>• Mechanical capture of the brush in its holder on plug set removal</li> </ul>	→ Safe carbon brush replacement
FLEXIBILITY OF ASSEMBLY		
	<ul style="list-style-type: none"> <li>• Possibility to fix the plug set with plug-in bar or with rod, bolt and clamp</li> </ul>	→ Optimum wear rate for all the brushes → Suited to retrofits in existing machines
PERFORMANCE		
	<ul style="list-style-type: none"> <li>• Constant pressure on the carbon brushes</li> <li>• Stable brush performance</li> <li>• Multi-contact technology</li> <li>• 250, 400 and 600 Amp capacity units available</li> <li>• Brush wear indication and Safety system</li> <li>• Option to include remote brush wear monitoring</li> </ul>	→ Optimum current distribution between all the carbon brushes → No potential harmful selective action → Voltage drop reduction → Mechanical flexibility upon plug set extraction for carbon brush replacement

**EASY, SAFE and EFFICIENT**

Mersen has developed special material-conserving brush exchange devices which allow easy replacement of brushes:

**Step 1:** Once dismantled, insert the plug set into the exchange device in your workshop

**Step 2:** Turn the handle to release the carbon brush

**Step 3:** Replace the carbon brush, re-fasten the terminal, turn the handle and remove the plug set from the exchange device

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