



## Products for paper industry

carbon products & supplies for industry



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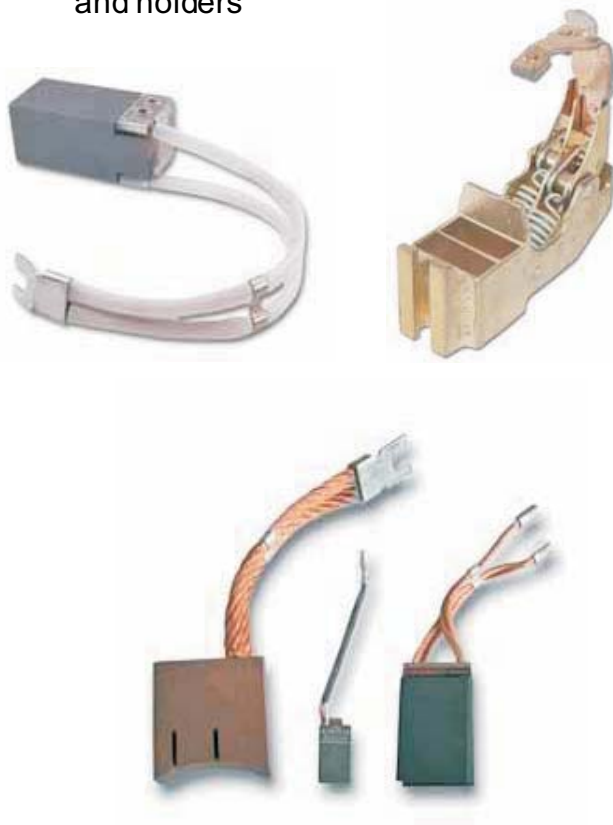
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Powerful motor performance with Carbonex carbon brushes and holders



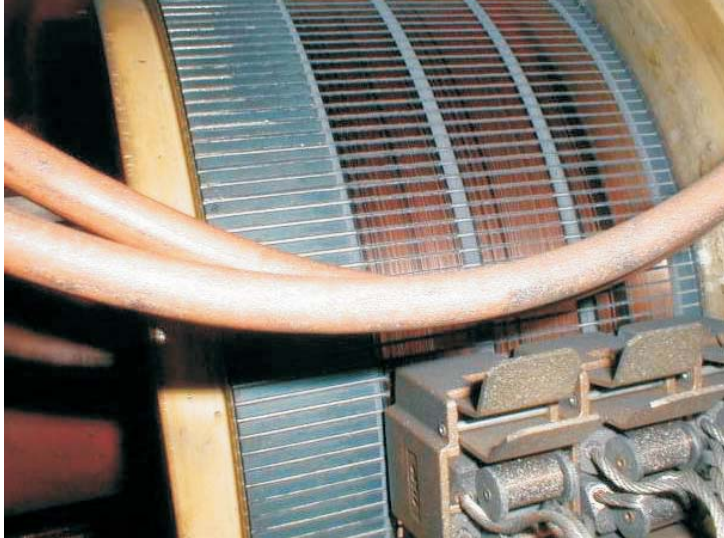
## Main Problems

- Low load (threading)
- High humidity
- Polluted environment

## Our Solutions

- Low load resistance grades
- Grades with improved film control characteristics
- Grades with special impregnations

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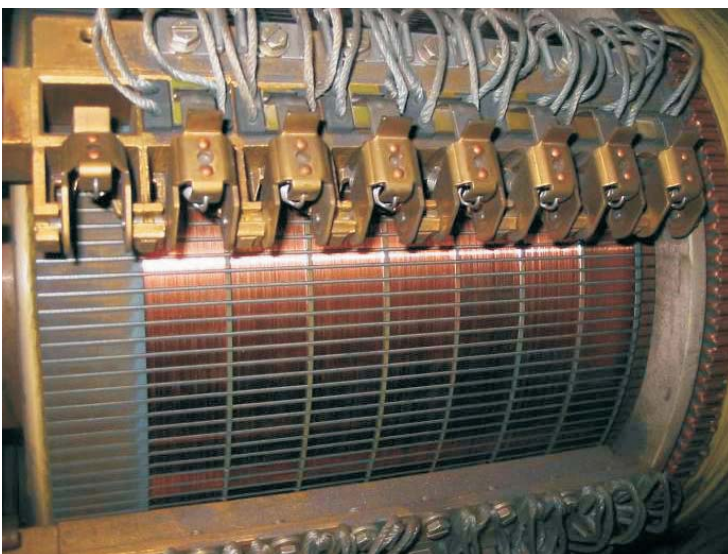


The problems that appear in the paper industry are:

- Oxidation in the collector and specifically there it where work the brushes
- Groove formation on the surface to collector
- The collector is out of roughness
- Ambient conditions (H<sub>2</sub>S, SO<sub>2</sub>, HCL ...)

The remedial actions that we can do are:

- Change the brush design in sandwiches – e.g. E101M
- Use specialized grades that keep the collector clean during the operation



The grade E498 used successfully in the paper industry. Keeps the surface of the collector clean during the operation

## Grade Recommendations - Paper Industry

### Wet Zone

Grade	Metal content %	Optimal permanent current density		Max. Permanent speed		Remarks
		A/in <sup>2</sup>	A/cm <sup>2</sup>	ft/s	m/s	
E101	-	78	12	131	40	Standard grade, sandwich design possible
E108	-	78	12	131	40	Standard grade, polluted environment sandwich design possible
E191	-	78	12	131	40	Good commutation
E55	-	78	12	131	40	Good film formation
F63	-	52	8	131	40	Low load resistant
F49	-	52	8	131	40	Low load resistant polluted enviroment

### Dry Zone

Grade	Metal content %	Optimal permanent current density		Max. Permanent speed		Remarks
		A/in <sup>2</sup>	A/cm <sup>2</sup>	ft/s	m/s	
E101	-	78	12	131	40	Standard grade, sandwich design possible
E49X	-	78	12	131	40	Improved commutation
E46X	-	92	14	131	40	High load
F51	-	52	8	131	40	Low load resistant



[www.carbonex.gr](http://www.carbonex.gr)

VASILIADIS BROS  
Carbon Brushes & Trading of Brush Holders

18 Attalias Str. -P.O. 142 31  
N. IONIA, ATHENS, GREECE

Tel: (+30) 210.27.56.961  
Fax: (+30) 210.27.76.637

e-mail: [carbnext@yahoo.gr](mailto:carbnext@yahoo.gr) | [carbonex@carbonex.gr](mailto:carbonex@carbonex.gr)