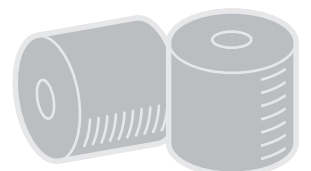


Texturizing Nozzle - Hardened Version

**A highly wear-resistant part for the production
of top quality carpet yarn**



Optimized texturizing nozzle with extended lifetime for constant yarn quality

Your advantages:

- Reduced lifecycle cost
- 1% more efficiency compared to competitor products
- Approved quality
- In-house manufacturing
- Improved wear resistance
- Long-term constant yarn quality
- Reduced stock-keeping

Extend the lifetime – minimize the costs

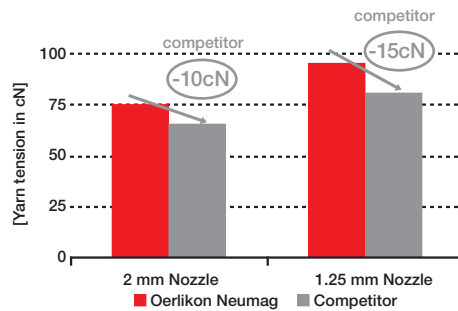
The precision in manufacturing results in a considerably increased wear resistance compared to non-hardened nozzles. A constant yarn quality is guaranteed over a long period. This is the result of stable and reproducible process parameters based on stability and wear resistance. A dramatically increased lifetime leads to reduced stock-keeping and lower costs for original parts.

Oerlikon Neumag invests in optimizing your business

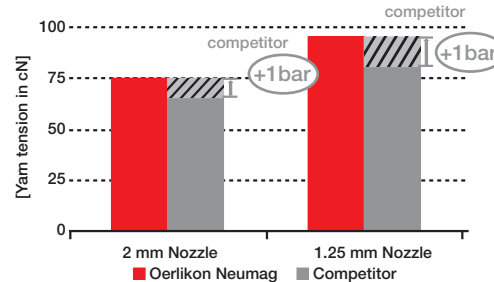
Oerlikon Neumag has developed a production process to realize completely hardened texturizing nozzles instead of hardened thin surfaces only. Our nozzles have Rockwell-hardness just like very good knives. Tests with Oerlikon Neumag's original texturizing nozzle and alternative products in the R&D BCF laboratory have proven noticeably lower twist and less yarn tension for non-original nozzles.

Original Oerlikon Neumag nozzles save about 12% energy costs from compressed air

Yarn tension at same pressure (8 bar)



Yarn tension at different pressure



Low twist results in 1% less efficiency of the BCF production capacity. A BCF 6 position 3-end machine with 13 t/day produces waste to the amount of approx. 170 €/day.

More than 10cN less yarn tension is requiring about 1 bar more texturizing pressure in order to achieve a similar tension to Oerlikon Neumag's nozzles. Higher pressure results in a volumetric flow rate increase of 10 – 12% (see table below). The energy consumption is rising about 1kW/h per position. A BCF 6 position 3-end machine will be requiring an additional 6kW/h electricity cost.

Oerlikon Neumag texturizing nozzle – quality you can trust in

Applicable to: BCF monocolour and tricolour. All common materials such as PP, PA6, PET and PTT

Titer range:

- 2.0 mm nozzle
1,600 – 4,500 dtex
ID-No. 08221460
- 1.5 mm nozzle
1,000 – 3,000 dtex
ID-No. 08344110
- 1.25 mm nozzle
700 – 2,000 dtex
ID-No. 08225900



	Hardness	Texturizing-Pressure/ Temperature	Twist*	Yarn tension	Additionally required pressure	Volumetric flow	Additional energy costs	Additional electricity consumption
Oerlikon Neumag 2.0 mm	Good	9 bar / 185 °C	0	~ 75 cN	–	25 Nm³/h	–	–
Competitor 2.0 mm	Weak	9 bar / 185 °C	-3	~ 65 cN	+ 1 bar for 75 cN	28 Nm³/h	+ 12%	+1 kW/h
Oerlikon Neumag 1.25 mm	Good	8.5 bar / 185 °C	0	~ 95 cN	–	21 Nm³/h	–	–
Competitor 1.25 mm	Good	8.5 bar / 185 °C	-2	~ 80 cN	+ 1 bar for 95 cN	23 Nm³/h	+ 10%	+1 kW/h

* Oerlikon Neumag BCF R&D Measure for Carpet Yarn Twist, < 0 demonstrates less machine efficiency

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