

Displacement Roll

**Maximum process security for
a top carpet yarn production**



Displacement Roll from Oerlikon Neumag

There is nothing better than the original

Your advantages:

- Extended life-time by wear-resistant roll coating
- Clearly reduced surface damages even for a robust suction gun handling
- The surface roughness ensures optimal adhesive yarn strength
- Extraordinary process speeds
- Large temperature application field
- The high strength of the bearing enables the processing of large titer ranges
- Low-maintenance by bearings being lubricated for life
- Simple adjustment by a user-friendly design
- Exactly balanced before delivery

Well equipped for special duty

In everyday's use of the BCF line, e.g. when stringing up, processes shouldn't take long. It is essential that the displacement roll surface is unsusceptible for contacts with the suction gun. Therefore, extremely hard displacement rolls are of major importance such as the Oerlikon Neumag original with its high-grade double chrome alloy. The high-quality of the materials and the sophisticated design ensure an extremely high life-time.

Good surface, better yarn

Displacement rolls have the important task to reliably turn over the yarn without influencing it negatively.

The surface plays here a decisive roll. If the displacement roll is too smooth, the yarn gets stuck and does not detach in an optimal way. Result: filament breaks.

If the displacement roll is too rough, the yarn slips through. Consequently, a sufficient yarn tension can not be built up. Oerlikon Neumag's experts have specified the materials and the surface quality in such a way that the yarn is supported to the maximum.



Yin and Yan – Displacement rolls in perfect balance

In the BCF process, not only very high temperatures but also high process speeds are prevailing. The displacement rolls being balanced before delivery allow maximum process speeds without any problems.

Tests have proven a significant difference between Original Oerlikon Neumag rolls and competitors products: oscillating velocity is 0.3 mm/s with original rolls against 4 mm/s with alternative rolls. This was proven at low speed of 1460 m/min. Oerlikon Neumag rolls will therefore run very calm even at high speeds up to 4000 m/min without any noticeable vibration.

Professionals choose original parts

When designing the idler roll, the focus was placed on the demands of the maintenance responsables.

The fixing of the displacement roll is very user-friendly. It is carried out via a simple shaft hub connection. The desired angle to the godet, respectively the herewith related yarn displacement on the godet and the idler roll is realized by loosening/tightening of three screws and by manual alignment. This is also feasible during full operation.

Special bearing

Use Oerlikon Neumag's original displacement rolls for a maximum process security and a reliable production of high-quality carpet yarns. Tensile forces between idler roll and godet provoked by temperature fluctuations and high speeds are absorbed by bearings with optimally designed dynamic basic load ratings. The bearings lubricated for life ensure a continuously high operational availability even for high loads.

- D60/L245, ID-No. 10013084
- D60/L320, ID-No. 10020149
- D21/L58, ID-No. 454771
- D22/L58, ID-No. 10081868
- D50/L150, ID-No. 10075083
- D36/L110, ID-No. 10048017
- D35/L70, ID-No. 10075322