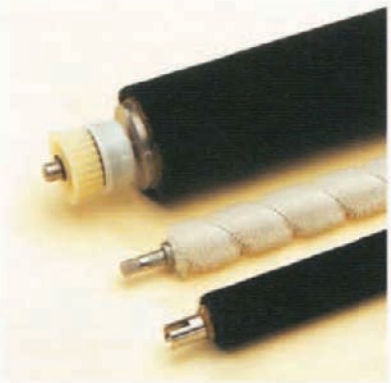
Cleaning brushes

A complete range of brush designs

Schlegel manufactures cleaning rollers using a spiral winding process. The fabrics used in these rollers are specially developed for their individual applications and are generally specific to a given printer or copier model. Available to fit any type of shaft, these rollers are typically used to clean photoreceptor drums and the belts in toner-based printers and copiers. Extensive experience enables us to blend yarns with different properties and fine-tune fabric densities to develop brushes offering unique performance benefits. These fabrics boast an extremely uniform brush surface, unmatched by traditional brush manufacturing processes.



Schlegel offers brush designs in a wide choice of diameters for an extensive range of applications:

- Large diameter rollers (typically 70 mm) with a low pile density, used at high impact speeds
- Small diameter rollers (typically 15 to 30 mm) with highly conductive filaments used at low rpm
- Very dense small diameter rollers that act as toner disturber components, facilitating blade lubrication
- Abrasive brushes for cleaning offset plates in 'plate processors'
- Rotating cleaning systems for print head cleaning (on impact printers, for example) or for audio and video equipment: CD-ROMs, VCRs and audiocassettes etc.

Schlegel bvba
Rochesterlaan 4
8470 Gistel
BELGIUM
Tel: +32 (0)59 270 300
Fax: +32 (0)59 270 345
industrial.products@schlegel.be
www.schlegel.be
a UniPoly Company

Schlegel

Cleaning brushes

Technical details

- Fabric densities can range from less than 1000 filaments per cm^2 to 100,000 filaments per cm^2
- Diameter and stroke tolerances meeting functional requirements
- Regular or impregnated cardboard tube diameters from 10 mm to 50 mm and above
- Cut pile and loop pile are both used, with pile heights ranging from 2 to 25 mm
- Electrically conductive fabric coatings and adhesives available
- Brushes can be resistant to corrosive chemicals and solvents, as well as high temperatures
- Pile finishing such as Teflon or silicone coating and dry cleaning offered
- Pile yarns used: Polypropylene, Nylon, Kevlar, Nomex, Teflon, Rayon, Mohair, all in sizes from 200 µm down to 5 µm
- Materials can also be selected to match triboelectric characteristics and fine-tune electrical resistance. Electrically conductive or semiconductive yarns used include carbon, stainless steel, silvered nylon and carbon-filled nylon.
- Stainless steel shafts and nickel plated rods used, typically from 300 to 1200 mm long

Schlegel offers you more

Schlegel invests in recycling programs, working in close collaboration with its OEM customers. We can design components and subassemblies specifically with re-manufacturing in mind. Just as we have developed control and quality assurance processes specially to meet re-usable component requirements.

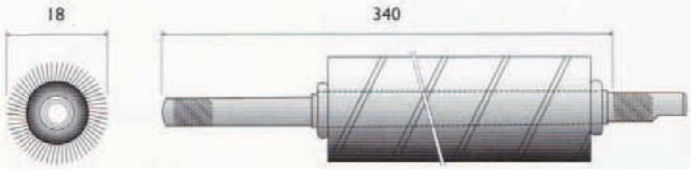


Fig. 1

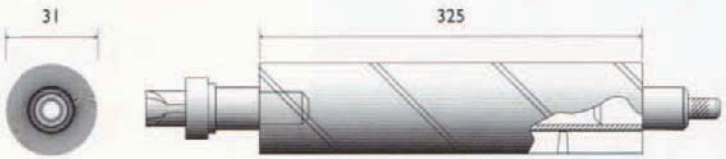


Fig. 2

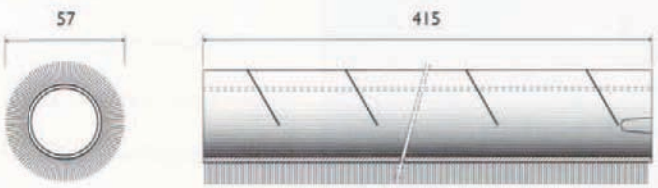


Fig. 3

Examples of Brush geometries
Fig. 1: Cleaning brush on steel shaft
Fig. 2: Cleaning brush with aluminium tube with plastic inserts
Fig. 3: Low density cleaning brush on cardboard tube

Printed in Belgium 01/03