

# Today and for a (Vehicle's) Lifetime

W.S. Tyler, along with parent company Haver & Boecker, are leading manufacturers of metal woven wire cloth used in the automotive industry. Certified in accordance with ISO TS 16949, our wire weaving divisions produce filtration materials responsible in the suction filter of a dual clutch transmission for retaining particles. This ensures the smooth operation of the transmission – over a vehicle's lifetime.

■ Klaus Sklorz, head of the automotive business unit at Haver & Boecker, W.S. Tyler's parent Company

What properties are required to optimize filter performance from all contaminants in transmission oil, and continue to achieve this even after 100,000 miles of use? W.S. Tyler continue to answer these questions and provide the highest quality filters for the many uses of wire mesh. From the flow regulator of a faucet to the precision filter element in a spacecraft, metal wire mesh filters and moulded parts perform a wide range of tasks. The customer's wishes and requirements form the basis for producing such customizable products. Even the production line developed for transmission oil filters is based on the client's specifications. We check their feasibility and take on the design of the corresponding tools, equipment, and specialist machines.

We produce metal wire mesh on weaving machines that are designed and developed in house. The planning of the specifications (mesh size, wire thickness etc.) and the implementation are based on our many years of experience. High production and storage capacity ensure a continual supply for the process chain. We heat treating the mesh before it is fed into the production line to manufacture the oil filter. The sintering process prevents loose wires from the surrounding edges. In addition, the mesh can be manipulated into any size and shape. All our mesh products are produced in accordance with ISO TS 16949. Transmission oil filters receive the greatest possible filter surface area by pleating and pressing the fabric. **in addition** to standard plastics PA66 and its related products, W.S. Tyler can handle unique plastics such as heat-resistant PEEK and LCP plastics.



**Permanent filters for the life of a vehicle**  
Pleating the wire mesh gives the transmission oil filter the greatest possible filter area.

To meet the filter's technical cleanliness requirements, transmission oil filters are cleaned under air pressure. On top of this they undergo 100 % camera inspection. The 'HAVER Vision System' developed in house is used to visually inspect and monitor mass-produced products, and is continually developed in line with growing quality requirements. Supported by manual interim and downstream visual inspections, W.S. Tyler pursue a zero-error strategy, even beyond the automotive area.

For more information, contact our office in:

**North America**  
W.S. Tyler®  
8570 Tyler Boulevard  
Mentor, Ohio 44060, USA  
www.wstyler.com  
800-321-6188