

PLASTICS TECHNOLOGY



WILHELM HERM. MÜLLER

www.whm.net





Full Service: complete WHM range



Rubber and Plastics Technology

On a world wide scale, WHM as a service and quality conscious service provider based on high consultation and system solution competence assists customers of all fields of industry. Almost 100 years of experience make us a reliable supplier of technical components and semi-finished products made of rubber and plastic. From moulded rubber parts, profiles, water jet processing through to die cutting, WHM provides cutting edge individual components, assembly groups as well as complex individual solutions. In our own plastics processing workshop, we reliably produce milled and turned parts on our modern CNC equipment, paired with excellent know-how. High-tech processing centres for individual component and small series production, or the manufacture of high-precision acrylic components ensure first-class and effective workmanship at a fair value for money. WHM is one of the founding members of Kooperation Federungstechnik (FETECH).



Drive engineering

WHM has been highly experienced in mechanical drive engineering for more than 50 years. Be it polyurethane or rubber timing belts, V-belts, flat or round belts, WHM can always offer the suitable solution from a comprehensive product range of belt types, belt dimensions, synchronous pulleys and components. Designers in the fields of mechanical drive, linear and transport engineering are offered full service solutions from one source. A comprehensive offer for belt finishing as well as our own pulley production round off our full service in drive engineering. WHM is a founding member of Mulco and Kooperation p-d-m (Power Drive Motion).





Know-how, service und quality

WHM has long standing experience in plastics processing. Our product management is capable of deriving solution suggestions from customer-specific requirements.

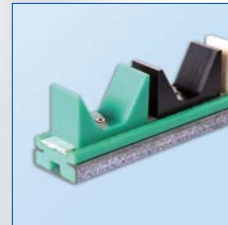
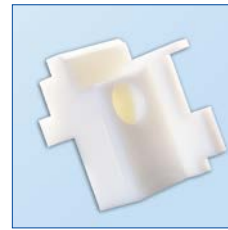
We also attach utmost importance to personal customer service, expert and process accompanying consultancy that starts as early as in the development phase, fast order processing, adherence to delivery dates and a fair value for money.

Materials

WHM produces high-quality technical plastics components from all thermoplastics and thermosetting materials available in the market, e.g. PE, PA 6, POM, PET, PEEK, PVDF, etc.

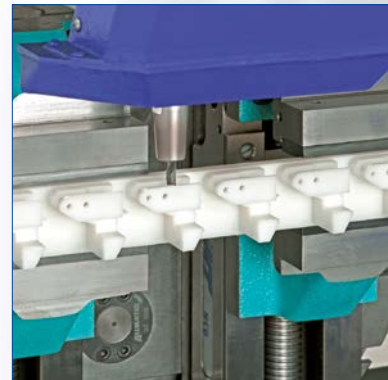
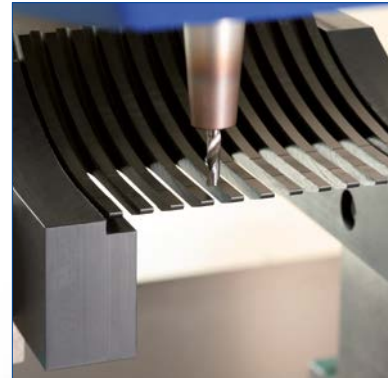
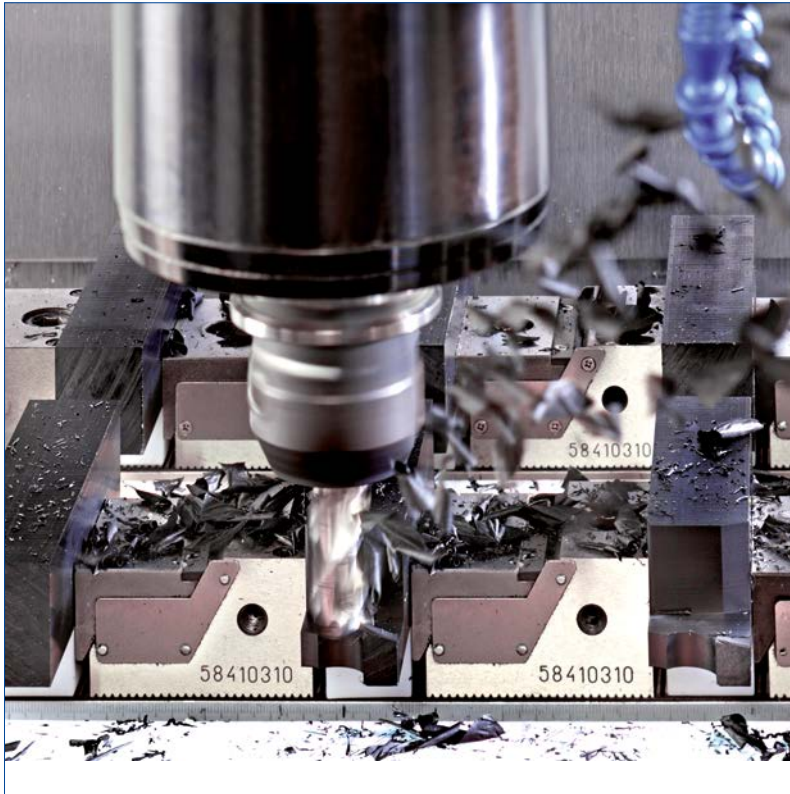
Component dimensions Plastic

- 3 axis machining, max. 1000 x 500 x 600 mm.
- 5 axis machining, max. 600 x 620 x 620 mm.
- Production of 3D contours and free formed surfaces.



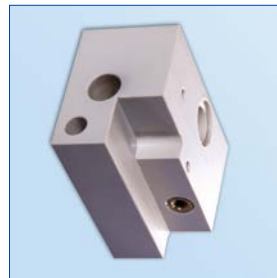


CNC milling



Precise workmanship

CNC machining on state-of-the-art milling machines permits the manufacture of small and medium sized series.



The product range includes components of simple through to complex geometries based on 3D data.



Machinery used by WHM includes modern 3 axis and 5 axis CNC machining centres permitting all thermo-setting and thermoplastic materials to be machined with high precision and surface quality. In addition, profilators, gear shaving and console milling machines are used for gear milling.



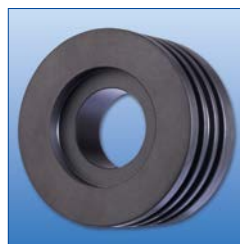
From standard components through to special elements

Based on drawings, WHM produces medium sized and large series on its CNC controlled lathes. Conventional lathes are available for the production of prototypes and small series. The product range includes standard parts through to special elements.



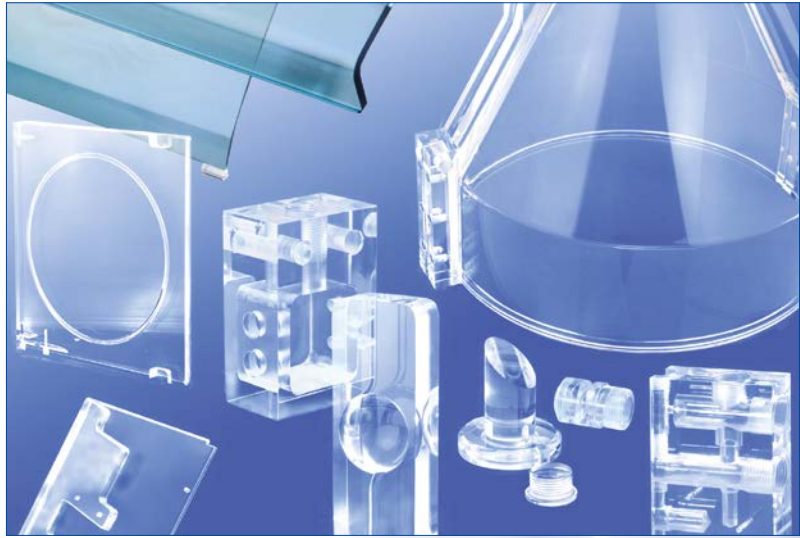
Performance range of turned parts

- Conventional chuck parts up to \varnothing 450 mm.
- CNC turning parts up to \varnothing 280 mm.
- CNC parting up to \varnothing 85 mm.





Acrylic glass machining



Versatile application

There is hardly any line of industry which does not use this design element.

Protection cladding installed to ensure health and safety at work, production sequences to be visually monitored, or countless other applications: acrylic glass and polycarbonate represent ideal materials, on the one hand offering weight related advantages, and, on the other hand a large number of design and machining possibilities.

Transparent materials leave a choice between cold forming and hot bending. Whereas Makrolon® supports both methods of production, only thermal hot forming can be used for working Plexiglas®. The objects can then be bonded and even screw connected to form complex hoods and covers.

For technical turning and milled components, the machining marks can be polished such that also very tight tolerances can be achieved.

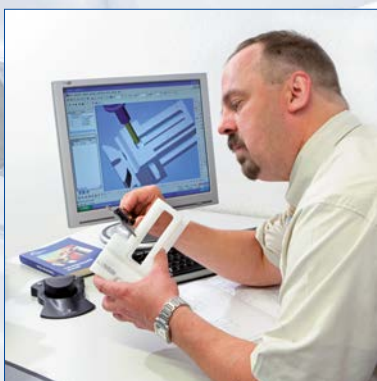
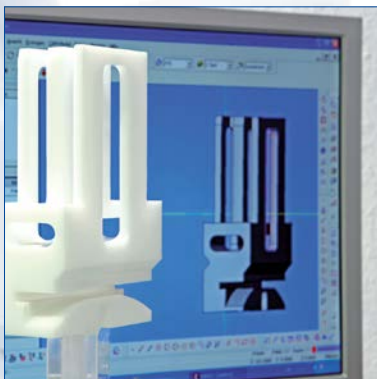
This is of special importance for WHM customers in the medical and technical packaging industries.

It goes without saying that we also respond to requirements regarding printing on your articles.



Everything from one source

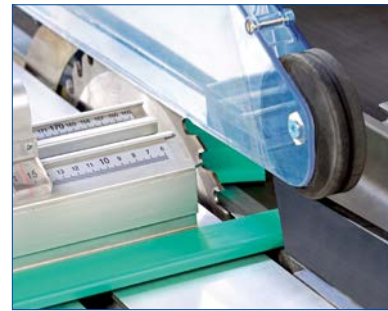
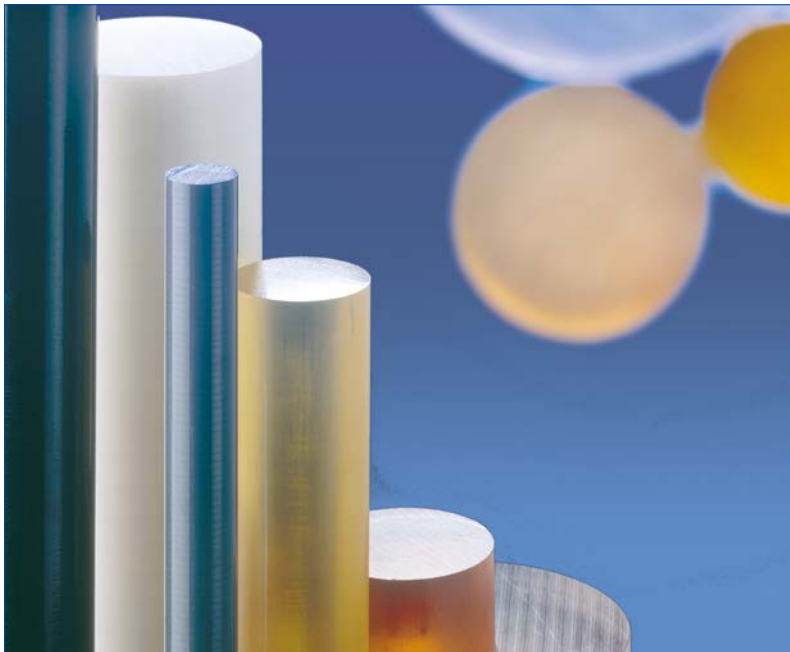
Before the background of production costs, it is frequently necessary to reduce the production or assembly depth respectively, and, in parallel, to streamline the number of sub-suppliers. WHM has realised customer requirements for entire assembly groups on time, and is ready today to offer an excellent assembly group management. Implying many possibilities for you!



- Production of required plastic and metal drawing parts
- Procurement of the standard components belonging to the assembly groups
- Provision and installation of components produced by you.

Design service is another customer-oriented WHM service within the framework of our Full Service offer with all services from one source. Experienced employees carry out the most varied tasks for you, with expertise and competence.

- Manufacture of components according to customer drawings or samples.
- Processing of external design data (dwg, dxf, step or iges-file).
- Creation of design drawings with CAD.
- Consultation for the selection of technical plastics.



Optimal stock keeping

Today, fast deliveries are as important a criterion in plastics technology as is the ability to respond to highly individual design and material requirements. WHM guarantees and meets these requirements by means of an extensive stock of the most important design materials: plates and round bars. Tubes and high-performance semi-finished plastics products are procured at short notice from a network of partner warehouses.

Semi-finished products in small dimensional increments are kept in stock. In this manner, you can choose from semi-finished products from a range of more than 100 different plastics materials. Special-feature semi-finished products can be realised from almost 500 different modified plastics.

WHM supplies semi-finished products tempered for low tension in special heat treatment ovens. Polyethylenes, which are low tension by their very nature resulting from modern sinter/press technique, form an exception.



Cutting service

We, of course, also cut the semi-finished products on our modern machines either to raw or finished dimensions as requested by you. There is also the possibility of grinding the round and tubes to finished dimension.

Moreover, flat bars can be form planed and angle-planed on 4 side machines.



POWER TRANSMISSION

- Polyurethane timing belt drives
BRECO®, BRECOFLEX®, CONTI® SYNCHROFLEX,
CONTI® SYNCHROCHAIN
- Special timing belts
- Rubber timing belts
- Components
- Round & flat belt drives
- V-belt drives
- Roller bearings
- Chains and sprocket wheels
- Adjustable motor mountings

PLASTICS ENGINEERING

- Milled parts
- Turned parts
- Acrylic glass machining
- Semi-finished parts
- Blank cutting service
- Assemblies
- Design service

RUBBER ENGINEERING

- Molded parts and profiles
- Punchings and water jet technology
- Suspensions
- Hoses
- Assemblies
- Design service

PRODUCTION

- Belt customizing
- Belt refinement
- Conveyor belt production
- Timing belt pulleys and accessories
- Poly V-belt pulleys
- CNC turning
- CNC milling
- Mechanical processing

Any questions?

**We would be happy to receive
your call, fax, or e-mail.**

Wilhelm Herm. Müller GmbH & Co. KG
Heinrich-Nordhoff-Ring 14 · D-30826 Garbsen
P.O. Box 141230, D-30812 Garbsen
Phone: +49 5131 4522-0
Fax: +49 5131 4522-110
e-mail: info@whm.net

Our Range of Services:

- **Drive technology**
- **Plastics technology**
- **Rubber technology**
- **Production**
- **Technical consultation**
- **Design service**

WILHELM HERM. MÜLLER

Development. Service. Partnership.

Germany

Wilhelm Herm. Müller GmbH & Co. KG
Heinrich-Nordhoff-Ring 14 · D-30826 Garbsen
P.O. Box 141230, D-30812 Garbsen
Phone: +49 5131 4522-0
Fax: +49 5131 4522-110
e-mail: info@whm.net
Homepage: www.whm.net

Leipzig Branch Office

Westringstraße 160 · D-04435 Schkeuditz
Phone: +49 34205 785-0
Fax: +49 34205 785-10
e-mail: Niederlassung.Lieipzig@whm.net
Homepage: www.whm.net

Poland

Wilhelm Herm. W. H. Müller Polska Sp. z o.o. (PLC)
ul. Solna 20 · PL-85-862 Bydgoszcz
Phone: +48 52 349 07 15
Fax: +48 52 349 00 75
e-mail: whm@whm.pl
Homepage: www.whm.pl

Czech Republic

W. H. Müller, s.r.o. (PLC)
Brněnská 995 · 664 42 Modřice
Phone: +420 543 211 008
Fax: +420 543 212 343
e-mail: whm@whm.cz
Homepage: www.whm.cz

