

Maagtechnic



Your Partner of Choice

Maagtechnic



Focus on Competence

The joint basis for the highest level of performance

Switzerland

Maagtechnic
Unit of Daetwyler Switzerland Inc.
Sonnentalstrasse 8
CH-8600 Dübendorf 1
Telephone +41 (0)44 824 91 91
Fax +41 (0)44 821 59 09
info@maagtechnic.ch
www.maagtechnic.ch

Maagtechnic Kunststoffzentrum
Unit of Daetwyler Switzerland Inc.
Schneckelerstrasse 9
CH-4414 Füllinsdorf
Telephone +41 (0)61 315 30 30
Fax +41 (0)61 311 44 63
kunststoffzentrum@maagtechnic.ch

Maagtechnic Vulkanisation
Unit of Daetwyler Switzerland Inc.
Freulerstrasse 4
CH-4127 Birsfelden
Telephone +41 (0)61 377 85 30
Fax +41 (0)61 313 25 64
basel@maagtechnic.ch

Germany

Maag Technic GmbH
Jahnstrasse 104-106
DE-73037 Göppingen
Telephone +49 (0)7161 9771-0
Fax +49 (0)7161 9771-269
info@maagtechnic.de
www.maagtechnic.de

France

Maagtechnic SAS
118, avenue Franklin-Roosevelt
FR-69516 Vaulx-en-Velin
Telephone +33 (0)4 72 05 46 50
Fax +33 (0)4 72 05 46 62
revol@maagtechnic.fr
www.maagtechnic.fr

Maagtechnic Soded
Z.A.C. Les Echavagnes
B.P. 150
FR-38164 Saint-Marcellin
Telephone +33 (0)4 76 64 60 30
Fax +33 (0)4 76 64 60 31
soded@maagtechnic.fr

Czech Republic

Maagtechnic s.r.o.
Na pořiči 1016
CZ-51801 Dobruška
Telephone +420 491 487 662
Fax +420 491 487 661
info@maagtechnic.cz

- 2 **More than 100 years of innovation** | For economically leading solutions
- 4 **Engineering** | Persisting until the breakthrough
- 6 **Elastomer technology** | Boundless potential
- 8 **Plastics technology** | Powerful performers
- 10 **Fluid and drive technology** | Precision means love for the detail
- 12 **Electronics and connection technology** | Cutting-edge controls
- 14 **Quality management and logistics** | Culture determines behaviour
- 16 **Contact** | Effective and pleasant
- 18 **Catalogue assortment** | More than 55,000 standard products
- 19 **Our range of services** | Your partner of choice
- 20 **Chronology** | From way back to way ahead



It is almost impossible to adequately describe a company's performance in a brochure. It is also hard to show the enormous market fluctuations and resulting measures that nonetheless strongly influence every company's range of services. The decisive factor is the employees, who play the greatest role in success or failure.

The situation has completely changed over the past few years. Not only speed and flexibility are required, but a high level of competence in consultancy and innovative capacity as well. Dear reader, you can only truly grasp the competence of our company when dealing with our sales staff and our product specialists on a daily basis.

What we can show you here is enormous product diversity and the associated complexity, especially in the area of logistics. In recent years, the Maagtechnic Group has made major investments in this regard in order to maintain its competitiveness in the European environment. But this isn't enough: constant changes in business models call for new, and above all efficient, solutions.

The Maagtechnic Group, with locations in Switzerland, Germany and in France, guarantees a constant business relationship with its customers and supplier partners. We would thus like to use this general overview of our products and services to give you, among other things, the certainty that you have chosen the right partner with Maagtechnic.


Peter Matti, CEO Maagtechnic Group

For economically leading solutions

More than 100 years of innovation



What started as a rubber goods commercial firm in 1905 has now become a leading technical trading, manufacturing, and services group.

The Maagtechnic Group grew from a core of only five persons, but now has several hundred employees and meets the complex requirements of very diverse customers. The Maagtechnic Group currently includes the Maagtechnic unit of Daetwyler Switzerland Inc. (CH), Maag Technic GmbH (D), Maagtechnic SAS (F) and Maagtechnic s.r.o. (CZ).

"Gummi-Maag", the company founded by Heinrich Maag in 1905, remains well-known even today. The trading firm offered rubber products, primarily for private customers, in all variations. It was located right in the middle of Zurich, on the Bahnhofplatz. During the years that followed, the product range was constantly enhanced with new products, even becoming an industrial supplier. The current range of products and services include some 200,000 articles, including technical components and a variety of services:

- Elastomer technology
- Plastics technology
- Fluid technology
- Drive technology
- Electronics and connection technology
- Occupational safety
- Operating equipment
- Lubricants

Converting dynamism into commercial energy

Change has never been as rapid as it is today. And industrial development has never put greater demands on innovation, speed and efficiency. What was the optimum yesterday is now considered to be the criterion that could put competitiveness in question the day after. We are thus always preoccupied with attaining the maximum possible. This is a challenge that has motivated us to achieve peak innovative performance for more than 100 years. More than ever, solid, technological know-how and service-oriented commitment form the foundation of sustainable and efficient partnerships. We are not only a first-class supplier to our customers, but also a development and service partner with exclusive key competences.

Duty and choice

References from industry, trade and the public sector prove that we are on the right track. As a key supplier of companies in the fields of metal processing and finishing, machine and apparatus construction, medical systems, as well as electrical systems, we look innovation right in the eye each day. The faith of our customers is a challenge and commitment at the same time. The creative dynamic of our motivated team produces convincing solutions again and again. Make use of our potential. Win with us!

The vision of the Maagtechnic Group

As a competent partner in polymer, fluid, and drive technology as well as electronics and connection technology:

- we develop efficient solutions to problems (installation of ready-to-use components, modules, systems) together with our OEM (Original Equipment Manufacturer) customers;
- we strengthen our OEM customers in their market position through production and procurement competence for a short time to market;
- we prove ourselves as a reliable OEM supplier and service partner, from the prototype phase up to series delivery.

With our service competence

- we make it possible for our customers in the MRO sector (Maintenance, Repair, Operation) to have reliable and optimised operations through access to a wide range of products and selected services with high availability;
- we support our customers to avoid downtime and keep repair times as short as possible;
- we, as a system partner, provide our customers with process-supporting, efficient solutions.

- 1 The Maagtechnic business location in Germany is in Göppingen.
- 2 The address for plastics processing: Maagtechnic in France.
- 3 The headquarters of the Maagtechnic Group is in Dübendorf, Switzerland.

Persisting until the breakthrough

Engineering



What are the most important conditions for convincing solutions? Surely: experience, know-how and a reliable feeling for customer benefits.

Understanding. Thinking. Rethinking if necessary. Planning. Implementing. Stubborn perseverance. Maintaining flexibility. That is how trendsetting, efficient solutions come into being. Just as important are the ideal choice of materials, practical construction, and manufacturing optimisation. That is the domain of our application engineers and technicians. They accompany the processes from A to Z: calculation, development, installation recommendations, manufacture of samples, prototypes, pre-production series deliveries, successful series production release. Our own manufacturing guarantees short communication paths and rapid implementation right up to series launch.

Diving in instead of theorising

The close, intensive collaboration and exchange of experience with supply partners from around the world assure us of optimised, efficient series production. The goal of the consulting and support covering multiple stages is the efficient use of resources. It means considerable benefits for you as the customer. Buzzwords like cost reduction and TTM (Time to Market), become reality. Diving in instead of theorising, grappling with tasks instead of watching – this is our approach. Experience has shown that growing together with the tasks results in the most lasting progress.

Said and done

Even if we use specialists, our approach is the same. Once the problem has been identified, we will present practical proposals for solutions within the shortest possible time. Prototypes or samples are available just as rapidly.

Focal points of engineering

- New development of application-specific products and solutions
- Design of systems according to a functional specification
- Installation recommendations for existing constructions
- Analyses of existing products with regard to optimisation potential

- 1 Collaboration and exchange of experience lead to optimum solutions.
- 2 Punched insulating components for the electronics industry.
- 3 EPDM sealing profile for window panes.

Boundless potential

Elastomer technology



If the criteria become rubbery, then we are in our element. This is because no other family of materials requires more experience in the interpretation of physical and chemical properties.



Elastomers show their true value in endurance tests of their application. This is where the true art of redefining material-related limits emerges. Material combinations such as metal and elastomer or plastic and elastomer are taking on a priority position and are a special type of challenge to us. We thus enjoy the reputation of being a sought-after contact partner for development, prototyping and manufacturing customer-specific products made of elastomers. We produce parts out of practically all available elastomer materials – independently of whether a compression, transfer, or injection process is used, or by using freehand vulcanisation. We are proficient in all types of vulcanisation technology and in the fabrication of semi-finished elastomer products.

The recipe for success

The key to today's successful company is found in elastomer technology. The multifaceted areas of this technology have been used optimally and are constantly diversified. Decades of practice and active, continuous knowledge management characterise how we deal with the highest demands. We know the most expedient development methods for specific problems. And, we know the most economical manufacturing loca-

tions in the entire world. Whatever it is that you want to make, we will advise and accompany you for manufacturing any orders of magnitude. In this regard, we attach importance to the most efficient solutions, with the highest possible quality.

Services

- Moulded articles
- Elastomer profiles
- Static and dynamic sealing elements
- Panels made of elastomers and composite materials
- Elastomer-metal and elastomer-plastic combinations
- Sound insulation and vibration technology

Own production

- Moulded articles using compression, transfer or injection processes
- Punched articles made of polymer materials
- Compound materials (e.g. asbestos-free gaskets)
- Manufacturing of customer-specific products from semi-finished products
- Vulcanisation of rollers and cylinders
- Freehand vulcanisation

Prototyping

- Moulded articles, profiles, sealing elements and material combinations (e.g. elastomer/plastic) from pilot moulds

Vulcanisation

- Pneumatic gaskets, sleeves, bellows
- Continuously vulcanised gaskets and frames
- Disc bellows

Rubber coatings

- Cylinders, wheels and rollers up to 600 millimetres in diameter and 3 metres in length

- 1 Asbestos-free punched gaskets based on modified, silicate-reinforced PTFE.
- 2 Two-part silicon-elastomer moulded part makes large volumes possible.
- 3 Noise-protection dowels made of a plastic-elastomer combination.
- 4 Vulcanisation of cylinders, rollers and wheels in an autoclave in Göppingen.

Powerful performers

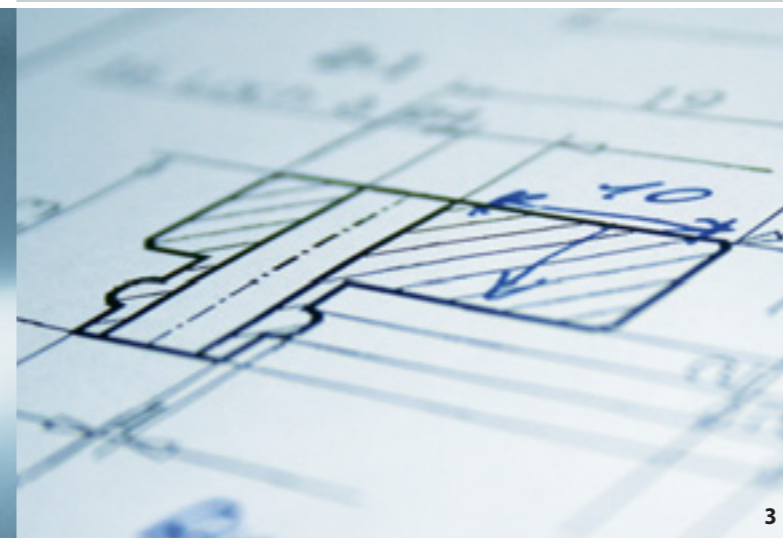
Plastics technology



2



1



3

The expansion and enhancement of our plastics know-how has made us into one of the most important providers of complex plastic solutions.

Our company is distinguished by competence in development, prototyping and manufacturing. Because complex plastic solutions are part of our core business, we wouldn't have gotten anywhere without innovative ideas. The plastics technology area covers the manufacture and processing of machined plastic parts. And it also includes the sale of semi-finished products made of plastic. The basis for this is a level of knowledge that is always up-to-date, coupled with solid know-how and completed by intensive services.

A vision stand at the beginning

This is almost how it always is with the development of technical parts. The vision ends up becoming production-ready through close cooperation between experts on the user's and manufacturer's side. It is often a multistage process with several attempts until the best and most efficient solution is achieved. In the process, we don't limit ourselves to mechanical machining processes such as turning, milling, drilling and punching, but instead have a penchant for complex development and manufacturing tasks.

Maximum support

What is decisive in the development of high-performance plastic parts? We put it this way: the combination of the best-suited material with the most reasonable and economical production method. If the finished plastic parts are particularly complex, then we will accompany you from the first prototype until everything is ready for series production. You can also count on our competence for quality assurance of the series

production at the financially most interesting location. Many customers value us as a partner because we ensure that they obtain valuable know-how through our involvement. This is the case, for example, for thermoplastic and thermosetting plastics and pultruded, fibrous, composite materials (composites).

Range of services

- Semi-finished plastic products made of thermosetting plastics and thermoplastics
- Fibrous composite materials (e.g. GFK, CFK)
- Construction profiles and systems made of fibrous composite materials
- Films, sheets, insulating materials
- Transparent and translucent plastic panes for display and design articles

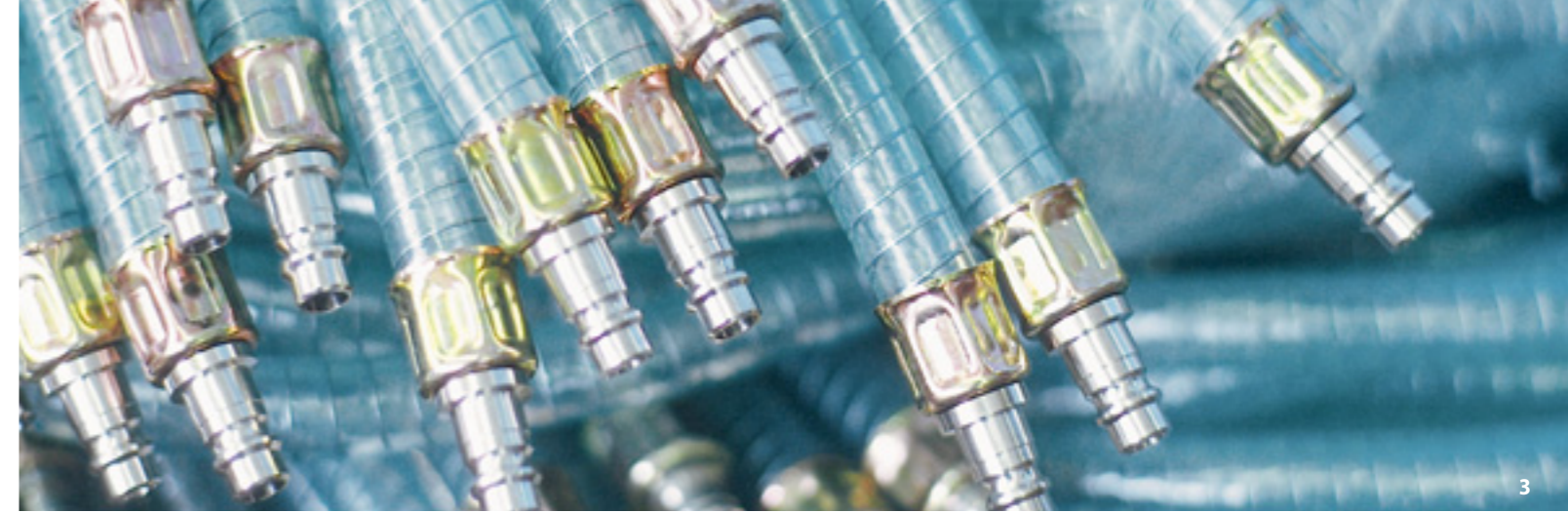
Own production

- Machined plastic parts/component assemblies made of thermosetting plastics and thermoplastics
- Punched articles (plastics, elastomers, insulating and sealing materials)
- Blanks made of semi-finished plastic products

- 1 Slide-in prism with insulation function made of epoxy-glass reinforced laminate.
- 2 Fibre-reinforced composite materials are true alternatives to steel or wood.
- 3 Consulting, construction, manufacturing – from the idea up to readiness for series production.

Precision means love for the detail

Fluid and drive technology



We leave nothing to chance – neither we nor our customers want to accept contingencies.

Whether hydraulic components, line elements, central lubrication, industrial hoses or fittings, the features of our products and systems are based on precisely-calculated parameters. They can be checked at any time and have been proven in practice.

Used regionally – available globally

In the field of fluid technology, we build individual units and manufacture small batches. In the process, we use components and quality products from worldwide leading manufacturers. This includes, for example for minimum lubrication systems, Willy Vogel AG, Berlin, which belongs to the SKF Group. We also work together with Manuli, Bell, Eckerle, Parker and HKS in the hydraulics field. The products of these manufacturers, who are represented worldwide, give you and us the security of always being able to count on a reliable quality standard for repairs, spare parts or retrofitting orders.

A functional specification is a matter of honour

When we build customer-specific systems, then the work is based on a functional specification prepared together with our application technicians and specialists. The high requirements resulting from the functional specification provide a guarantee for the quality of the work. All the components that we use are tested according to internationally-valid quality guidelines. If necessary, the entire system is tested on our test stand before delivery. We are at your side for the installation, instruction of your staff, and commissioning.

Take a drive

When dealing with drive technology, the requirements are no less demanding. A complete range of drive belts, drive rollers and wheels is the basis for comprehensive consulting. Our service also includes technically sophisticated special designs, for example specific coatings or material combinations, as well as sample and prototype delivery. Whether a standard or customised solution, we will accompany you until everything is ready for series production.

Range of services

- Industrial hoses and fittings
- Hydraulic line elements
- Hydraulic components
- Central lubrication systems
- Pneumatics
- Drive technology: belts, rollers, and wheels
- Stabilus pneumatic springs
- Roller bearings
- Lubricants (including Shell)

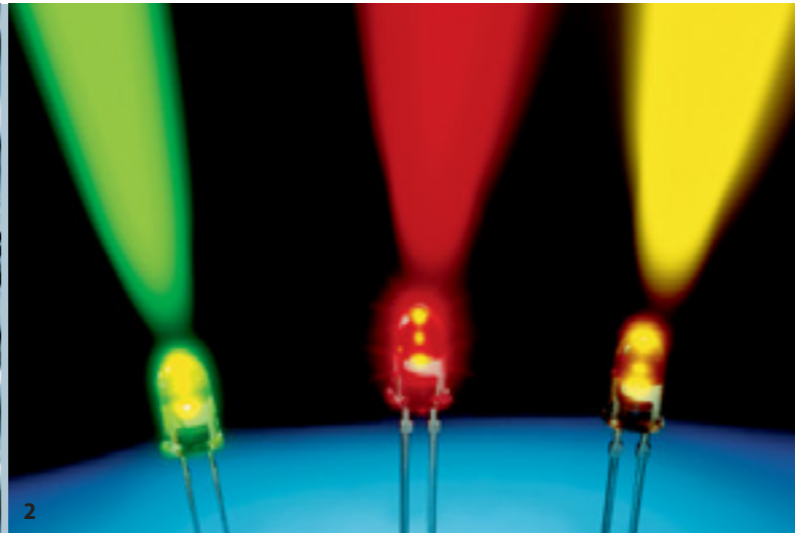
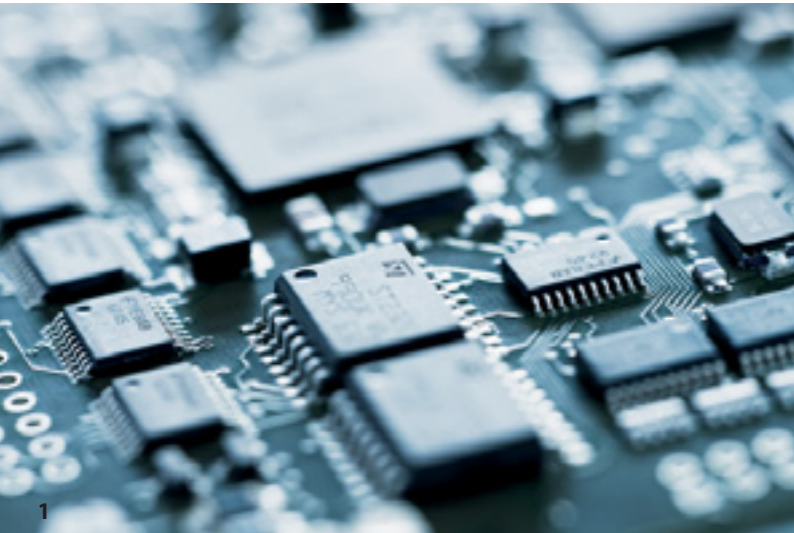
Own manufacturing and assembly

- Design and construction of hydraulic units, hydraulic and central lubrication systems
- Hydraulic hose service (Dübendorf, CH), hose lines
- Fabrication of drive belts

- 1 Hydraulic units are assembled in our own facilities.
- 2 We sell quality roller bearings from SKF.
- 3 Fabricated industrial hoses with coupling nipples pressed in.
- 4 Four different coated toothed belts.

Cutting-edge controls

Electronics and connection technology*



One of the most important prerequisites for successful collaboration is not just a high-quality product, but also trust in partners – whether as provider or buyer.



Who will help you to keep track of around 60,000 technical components in the realm of electronics and connection technology? Besides decades of experience, we in the Dätwyler Electronics division also offer technical support during the development phase. Or would you like to personally meet the American, Asian or European manufacturers? Here as well, we have excellent contacts and will arrange interesting meetings. Our customers from the electronics industry have relied on this for many years. The longstanding direct contacts to leading manufacturers are elementary for success in the electronics industry. There are no commercial intermediaries, either for customer-specific products or for standard products, and that is how we ensure a short response time.

Your partner right from the first idea

The experienced team in the Electronics and Composite technology division will advise, support and accompany you from the first product idea until everything is ready for the market and series production. We provide knowledge onsite with qualified employees in field sales, product managers and application engineers. We speak the language of the industry and represent the interests of Swiss customers with international manufacturers.

Broad assortment

Our strength is the diversity of products, whether in the area of industrial cables or electronic components. The extensive optoelectronics include, among other things, display modules of a great variety of sizes and technologies with the associated controller cards. These products have been used successfully for many years in medical systems, electronics, telecommunications, and the machinery industry.

Range of services

- Active and passive semiconductors
- Optical and electromechanical components
- Complete range of cables for the industry
- Development tools for a rapid time to market
- Direct contact to manufacturers
- Partly exclusive sales for Switzerland
- Technical support during the entire product lifecycle

- 1 ICs on controllers or control cards.
- 2 Powerful LEDs.
- 3 Field bus sensor in use.
- 4 Customer-specific cables, ready to use.

* only in Switzerland

Culture determines behaviour

Quality management and logistics



Modern technology in the logistics centre ensures that parts are dispatched to the next station. Several thousand product items are moved each day.

Quality management embraces the holistic control of all involved processes. Quality assurance also means being aware of the needs of employees. And, to have lasting success in the market we must impress our customers with our products, services and technical solutions. The basis for this are our employees, who can deal quickly and flexibly with requirements.

Entrepreneurial thinking and responsible action are not buzzwords to us, but a corporate culture that is lived out. The goal of our personnel development is to ensure optimum efficiency of the staff as a decisive condition for continuous competitiveness, as well for the development and exploitation of new markets. We promote this through classical training and courses, through coaching, through taking on new tasks, and through collaboration in projects.

Today and in the future

We promote innovativeness through customer contacts by our engineers and technicians, through short communication paths to contact persons in the design and development departments of our customers, through permanent further education and knowledge transfer in the

departments, through a committed crew with good ideas, and through swapping experience with our supplier partners.

Product testing

Customer-specific products are checked in our quality control according to a jointly defined quality control plan. The data is recorded in a detailed test report and given to the customer.

Outstanding pioneers

Maagtechnics has always been among the pioneers wherever quality management standards have been set.

- ISO-9001:2008 certificate for Maagtechnic quality management
- ISO-14001:2004 certificate for Maagtechnic environmental management
- Maagtechnic has been a member of EFQM since 1994 (European Foundation for Quality Management)

Logistics

The guiding principle is "fast, correct, and cost-effective". With the modern logistics centre that went into operation in 2005, Maagtechnic has a

future-orientated logistics, manufacturing and service platform that can also optimally fulfil further customer requirements, which are constantly becoming more and more complex.

The new logistics centre makes it possible to considerably expand the range of products for customers:

- Efficient procedures through an optimised flow of goods
- Extended hours of operation
- Considerably shorter throughput times – urgently required spare parts can thus be delivered in less than 24 hours
- Reduction of truck driving distances for deliveries and shipments

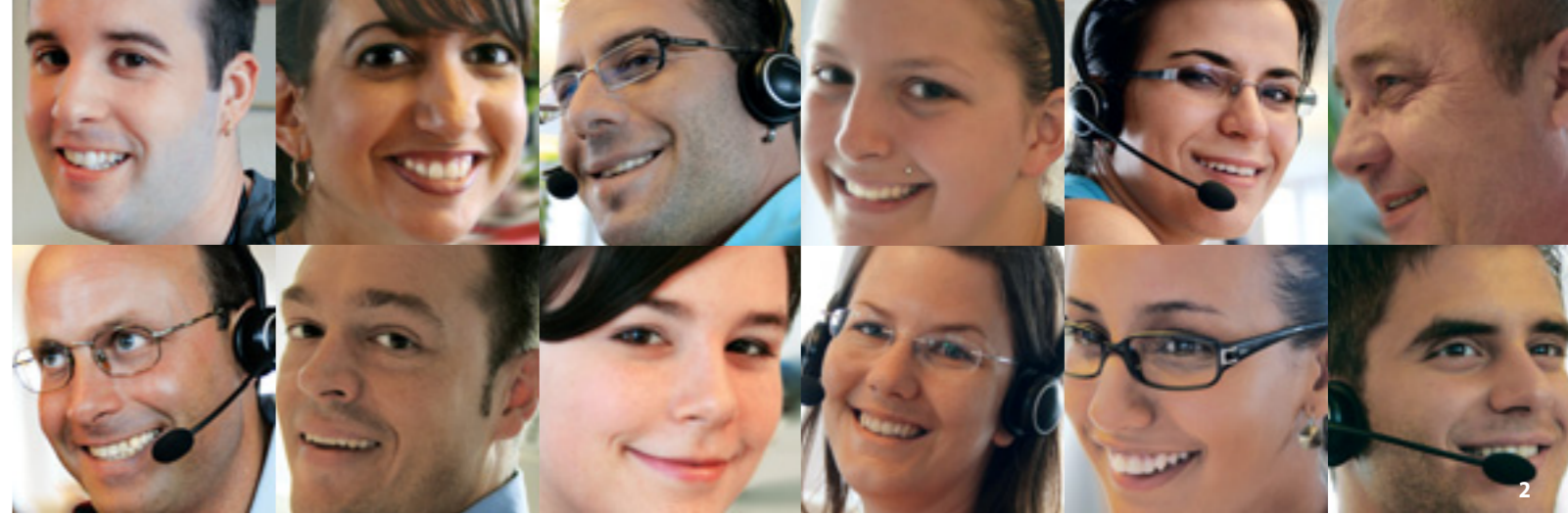
A mature warehouse management system together with commercial IT (ERP) controls and optimises all material flows and activities.

Logistics services

- Collective transport
- Goods checking and testing
- C-parts logistics
- Just-in-time deliveries
- Automatically controlled delivery systems, e.g. Kanban

- 1 Quality control according to a defined inspection schedule.
- 2 The containers are conveyed from the automatic small parts storage to the order picking stations.
- 3 The high-bay storage has 10,000 pallet bays and is more than 16 metres high.

Effective and pleasant Contact



Use our online shop. You can order there around the clock. Our customer service centre makes sure that e-mails, faxes or calls make their way directly to the right contact person.



There are many options open to you for your requests, questions or orders. Whether you call, send a fax or an e-mail, fast processing is very important to us. In addition, our online shop is open for you 24 hours a day and 365 days a year. Another advantage of the online shop is that you will always see the latest catalogue version, with the current prices. All catalogue articles are usually in stock, and will be delivered in the shortest possible time.

Customer service centre

Do you already know what articles you want to order? Great! Our customer service centre will take your order quickly and for all departments. If you have technical questions, they will find the right contact for you in the responsible department.

Personal consulting

Do you have concerns that cross divisional boundaries or specific technical problems? Are you introducing new items, or do you need more in-depth information? Request the field service technical consultant or application technician who is responsible for your region so that you have the right contact person at your side.

Our specialists support you with

- new development of application-specific products and solutions
- the design of plant and systems according to a functional specification
- installation recommendations for existing systems
- the development, documentation and implementation of inner-company concepts for personal protective equipment

Customised e-business solutions

Tried-and-tested elements of our sales concept are our e-business solutions and the online shop. You can have faster and easier online access to the constantly updated catalogue products. We also have a range of products and services that meets the need for integrated processing of electronic orders or for individual e-procurement solutions:

- Processing of orders via external marketplaces
- Fully or partly integrated order processing from the buyer to Maagtechnic, for example EDI
- Easy incorporation of the online shop into the customer's ERP system via an OCI interface

- 1 Knowledge exchange as a basis for partnership.
- 2 Friendly and competent employees in the customer service centre.
- 3 The online shop knows no business hours. It is open 365 days per year and 24 hours a day.
- 4 The main catalogue is clearly organised into categories and product lines.

More than 55,000 standard products

Catalogue assortment



A first-class offer for industry, trade, construction, and the public sector: More than 55,000 articles to cover all maintenance needs and personal protective equipment from a single source.

Without our dedicated service mindedness or covering all the product needs from customers from industry, trade, construction, the public sector and maintenance companies, Maagtechnic's growth over the past 100 years would not have been possible. Our customers count on this reliability and put their trust in us.

Whatever standard products are needed, we offer them. Everything from a single source is not just a fleeting concept, but a true programme of ours. The benefits are obvious: Company-internal costs are reduced thanks to less administration, access to an extensive range of products with high availability, and supporting services. That way, repair times can be reduced and downtime can be avoided.

The Maagtechnic main catalogue has established itself as a reference tool with more than 55,000 standard articles. Besides an extensive range of products, it also offers a great deal of technical information, overview tables and much more. We are diligent, and constantly update, optimise and expand it. In the process, the needs of our customers play an essential role.

Service competence

- Extensive product range with high availability
- Selected services: cutting service, repair/spare parts kits, technical seminars, and so on
- Customised e-business solutions with our own online shop, for a 24-h ordering service
- System partner for process-supporting solutions

¹ Many vehicles and service technicians are available to MaagServices.

Your partner of choice

Our range of services

Maagtechnic Group

- Switzerland
- Germany
- France
- Czech Republic

Elastomer technology

Moulded articles
Profiles
Rubber panels and gaskets
Vulcanising and freehand vulcanising
Sealing technology
Vibration and damping elements
Noise control

Plastics technology

Technical and amorphous plastics
Semi-finished and processed parts
Composites
Films, sheets and insulating materials

Fluid and drive technology

Industrial hoses and fittings
Hydraulic line elements
Hydraulic components and units
Hydraulic rotary drives
Pneumatic screw assembly, Festo pneumatics
Central, minimum quantity, and dry lubrication systems
Submersible pumps
Mechanical drive technology
SKF roller bearings
Pneumatic springs
Cables and stranded wire
Bus systems

Electronics*

Active and passive semiconductors
Optoelectronic elements
Electromechanical components

Occupational safety Operating equipment

Personal protective equipment
Operating equipment
Technical chemical products
Tools**

Shell lubricants*

Industrial lubricants
Lubricant transport business
Automotive lubricants

* only in Switzerland
** only in Germany

From way back to way ahead

Chronology



GummiMaag
AG SA

Fähnle

Dätwyler Electronics

Groupe
REVOL

1905 Heinrich Maag founded his firm "Gummi-Maag". The name is still well-known even today. The trading firm offered rubber products, primarily for private customers, in all variations. It was located right in the middle of Zurich on the Bahnhofplatz. During the following years, the product range was constantly enhanced with new products, right up to becoming an industrial supplier.

1945 Conversion into a stock corporation.

1949 Sold to the Dätwyler Group in Altdorf. The company remained true to its core business and continued to expand its market position in the field of rubber products. There was an actual burst of growth in the 50ies when synthetic elastomers penetrated more and more into the market.

1966 Move to Zurich Schwamendingen. A major goal was achieved: warehouse, manufacturing, sales and office – everything under one roof. Gummi-Maag showed courage and foresight a few years later: the construction of the building in Dübendorf, an enormous one for conditions at that time, marked a new dimension.

1975 Move from Schwamendingen to today's address in Dübendorf.

The company had long since lifted its restriction to only rubber products. The variety of products forced a name change.

1983 Gummi-Maag became Maag Technic AG. The company used the name change to emphasise its general technical competence in the areas of elastomer, plastics, fluid and drive technology, occupational safety and operating equipment, as well as its orientation towards industrial and commercial customers.

2003 Integration of Wachendorf AG into Maag Technic AG. Decision to renovate existing operations and the warehouse building and to construct a new, modern logistics centre and thus to establish an important plastic centre.

2006 The companies Maag Technic AG (CH), Maag Technic GmbH (D), and Dätwyler Electronics appeared under the name Maagtechnic Group. Maagtechnic Germany had already been in the Dätwyler enterprise as Fähnletechnik since 1998. Dätwyler Electronics AG came into being in 1998 from the merger of Basix AG and Fenner AG.

2007 Maagtechnic became international with the integration of the Revol Group (three locations in France and one in the Czech Republic).