

PRECISION FOR THE AUTOMOTIVE INDUSTRY AND ENGINEERING

STAMPED, DRAWN AND BENT COMPONENTS



AUGUST SCHMITS
Stanz- und Umformtechnik

// DEVELOPMENT

Continuity and expertise since 1929

FOUNDED ON 10/07/1929 IN METTMANN

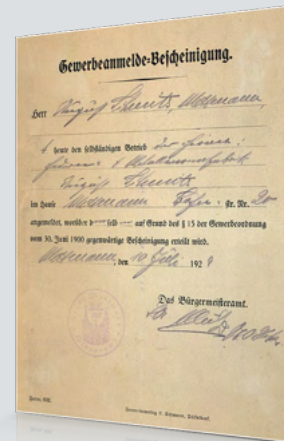
On 10/07/1929, the »August Schmits Metal Factory in Mettmann«, also called »Schmits-Mettmann« was established by August Schmits. Simple pressed and stamped components were initially produced there, and August Schmits had already established contact with automotive suppliers by 1932.

CONSTANT GROWTH

The volume of orders and machinery grew constantly, such that a large factory could be built on Bibelskircher Weg in 1951. Karl Kaldeuer, owner and managing director of »Schmits-Mettmann« today, built a new factory and administration building in 2011. The machinery was continually adapted to reflect the requirements at that time

STAFF DEVELOPMENT

Our employees have kept faith in the business for decades and pass on their knowledge and experience to the younger generation and apprentices. We have significantly more apprentices than the industry average, and they form the basis of our future staff development.



// BUSINESS PROFILE

Innovative capability and modern production techniques



EVERYTHING UNDER ONE ROOF

The particular strength and potential of »Schmits-Mettmann« lies in uniting our experience and innovative capability, extensive expertise in construction and individual tool manufacture with traditional craft and modern production techniques. We offer everything under one roof: from the first concept, construction, component analysis, choice of material and tool-making to short-term prototyping and the subsequent mass production, with the maximum degree of precision.

SOLUTION-ORIENTED DEVELOPMENT

We consider ourselves to be a competent consultant and active development partner. We find functional solutions in close coordination with our customers. In doing so, we value cost-effective and efficient production. Cooperation begins with the formulation of a requirements profile. Afterwards, our engineers develop the corresponding components in modern CAD workplaces. We produce all tools, equipment and special machines using our own tool manufacturing process.

HIGHEST LEVEL OF CUSTOMER SATISFACTION

All activities performed within our business are focused on achieving one goal: the highest level of customer satisfaction and a zero-error strategy. The path to this goal includes consistently focusing on the highest quality. All processes are incorporated into the quality assurance system, which is certified to IATF 16949:2016. As a result, the quality of our products and services is documented and archived throughout every phase.

QUALIFIED AND MOTIVATED EMPLOYEES

Innovative capability that is based on the use of resources and technical competence of employees who bring their capabilities to the development processes. We constantly encourage this level of commitment. Our employees have many years of experience and are highly qualified, and these qualifications are updated to the most recent standard through further education. Every person feels connected to »Schmits-Mettmann« in specific ways and takes responsibility for the success of their firm.

ENVIRONMENTAL RESPONSIBILITY

ENVIRONMENTAL RESPONSIBILITY

We are constantly improving our products and processes whilst taking environmentally friendly solutions into consideration. In doing so, we ensure a balanced relationship between economic and ecological use.





// PRODUCTS

An impressive product range for high demands

QUALITY AND PRECISION

Precision is of paramount importance. Many of our products are used in sensitive areas of automotive engineering. Both machine and plant engineering, as well as manufacturers of high-quality, technical consumer goods, trust the quality of »Schmits-Mettmann«.

SPECIALIST FOR CHALLENGING DRAWN PARTS

We have gathered extensive expertise, specifically in the area of drawn parts. We are particularly strong in this area. We design and create tools and equipment materials corresponding to the high demands of our customers. The complex production steps of the forming process for drawn components are controlled with the highest level of precision.



// MATERIAL, PROCESSING AND ASSEMBLY

Service performance

EXPERTISE IN HANDLING MATERIALS

»Schmits-Mettmann« has extensive experience in processing different materials. At the same time, we inform ourselves of physical and technical modifications, whilst cultivating intensive exchanges with our suppliers. It is our goal to increase knowledge of innovation, performance potential and the service life of products manufactured by us, and pass this on to the customer.

COATING

»Schmits-Mettmann« offers its customers qualified system solutions. Our products are treated with the most diverse surface methods in the context of our service performance.

ASSEMBLY

If requested, the individual elements of pre-finished assembly parts and components can be assembled.

FURTHER TREATMENT:

- ⊕ Surface treatment (nitrate, etc.)
- ⊕ Finish (hardening)
- ⊕ Common coating methods (painting, powder coating, zinc coating)

MATERIAL THICKNESS:

- ⊕ Stamped parts 0,1 – 6 mm
- ⊕ Stamped bent parts 0,5 – 6 mm
- ⊕ Deep-drawn parts 0,5 – 4 mm
- ⊕ Embossed parts 0,1 – 6 mm

MATERIALS:

- ⊕ Steel
- ⊕ Stainless steel
- ⊕ Non-ferrous metals

ASSEMBLY:

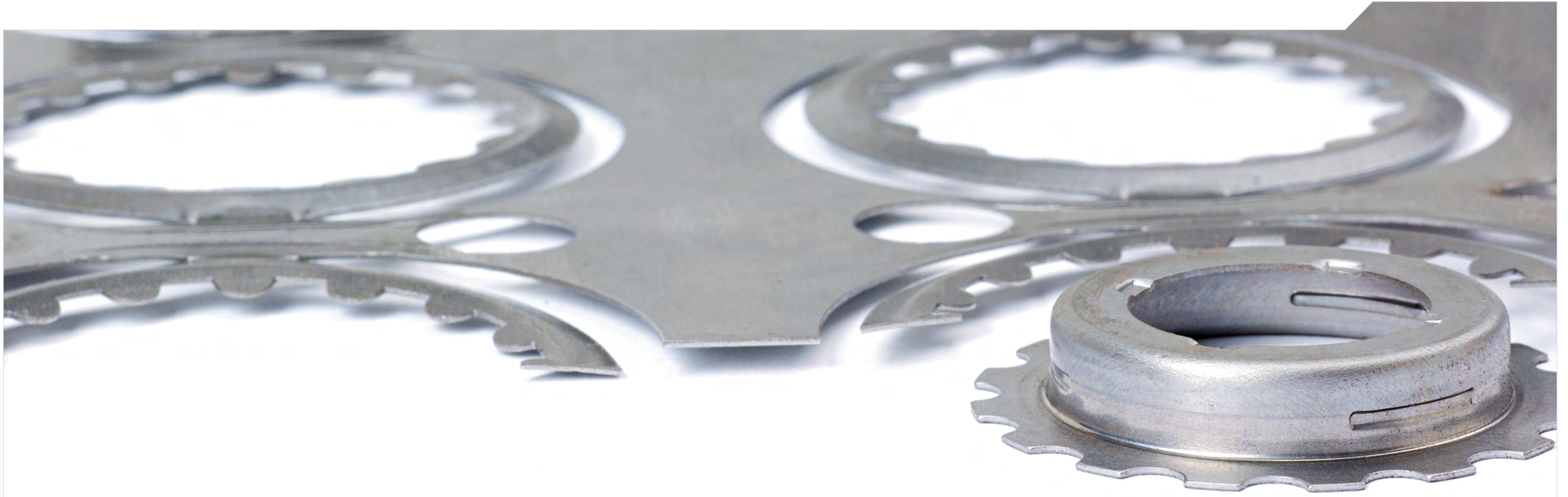
- ⊕ Of component parts
- ⊕ Of complex assemblies





❖ DIVERSE STAMPED, DRAWN AND BENT PARTS

Our range of products is just as impressive as the quality of our individual components: we produce challenging stamped, drawn and bent parts in small, medium and large quantities.



// **PRODUCT DEVELOPMENT**
Solution-oriented partnership

CONSTRUCTION IN CAD WORKPLACES

As a competent consultant and active development partner, we cooperate closely with our customers. Dialogue is opened at a very early stage. The first product ideas or customer sketches often constitute the starting point for the joint development process. The next step involves formulating a concrete profile of requirements. After this, our engineers develop the corresponding components in modern CAD workplaces. Throughout the entire development phase, we keep in close contact with our business partners. In doing so, we develop functional solutions including economical and efficient production.

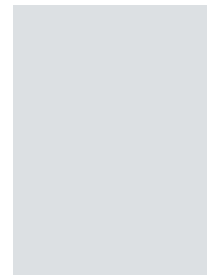
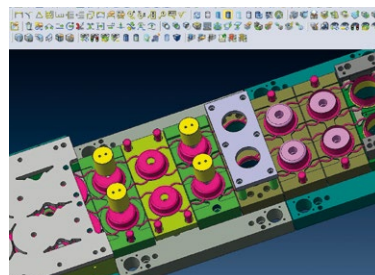
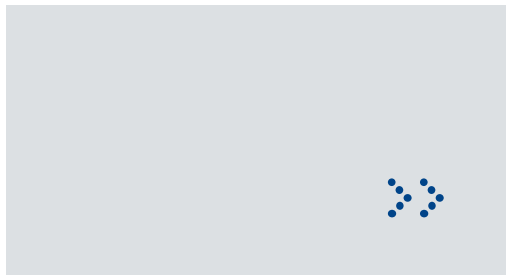
// **PROTOTYPING**
Safety for serial production

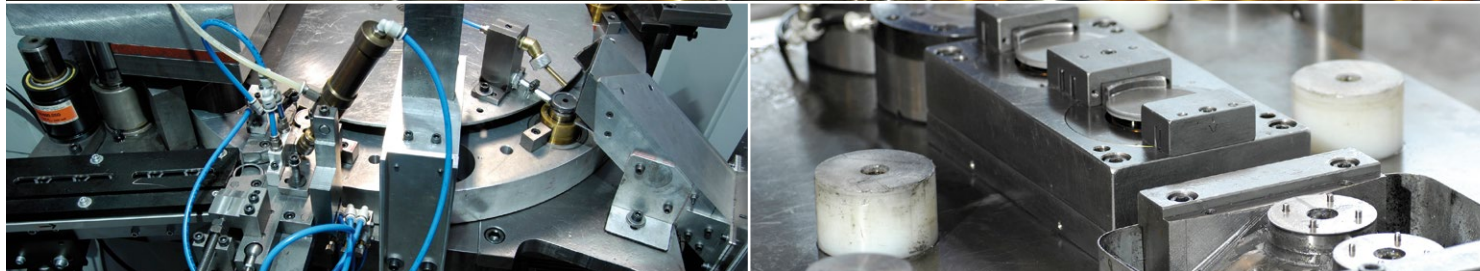
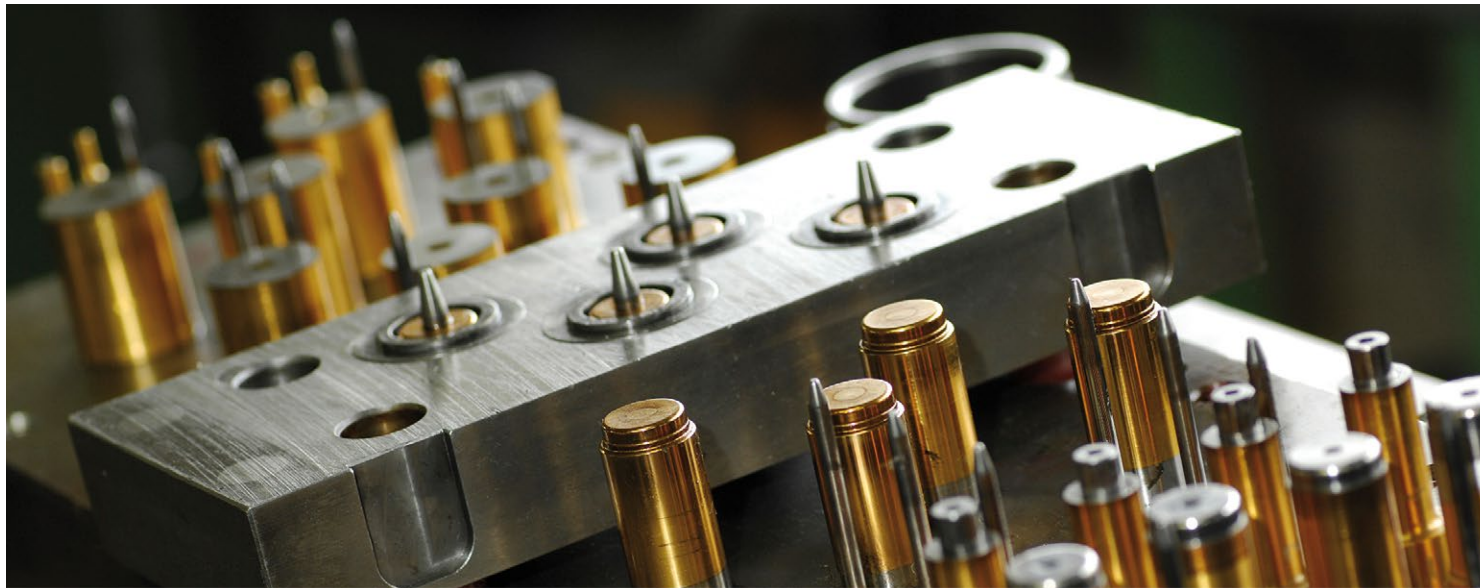
PROTOTYPES CREATE CLARITY

Prototyping is an important step in the development process of complex components. When creating products to specifications, we ensure clear coordination regarding the design of the products and the associated choice of materials. Using the prototypes we have produced, we are able to review the construction concept together with our customer and create a final design for mass production.

EXTENSIVE INTERNAL AND EXTERNAL TESTS

Our prototypes undergo internal tests. Furthermore, external specialists are at our disposal. Further tests under mechanical, thermal and thermomechanical stress serve to check and confirm the process parameters and material batches we have specified.





// PRODUCTION

Production in progressive and transfer systems

HIGH LEVEL OF AUTOMATISATION FOR HIGH PRECISION

»Schmits-Mettmann« uses the dynamics of technological development in metal processing with continual investment in production plants which are up to date with technology. So, the level of automatization in our production lines rises increasingly. The integration of most modern technology ensures efficient mass production and guarantees the maximum level of precision.

LARGE, MEDIUM AND SMALL QUANTITIES

We manufacture our products in modern automatic punching presses using progressive and transfer systems with programmable feeds. Short preparing times enable the manufacture of medium and small quantities in addition to mass production. Eccentric and hydraulic presses, as well as special machines, are available for further processing.

// TOOL MANUFACTURE

Flexibility by in-house tool manufacturing

CRAFT AND COMPUTER TECHNOLOGY

Building complex tools requires precision. Only a perfect tool guarantees the highest level of precision in production. Our understanding of tool production is based on our combination of the manual traditions of tool mechanics combined with modern computer technology.

SPECIAL TOOLS AND MACHINES

The complete range of our tools are developed and produced by our own tool production. Therefore, we use computer-controlled tool machines. This guarantees the high quality and reproducibility of our tools. An extensive spare parts store also ensures that the production process runs without disruption. Special machines are also build in-house. This basis insures a flexible reaction to customers needs at any time.

USING OUR TOOL MANUFACTURING PROCEDURE, WE PRODUCE:

- ⊕ Progressive and transfer tools
- ⊕ Equipment
- ⊕ Special machines



// CAQ/ZERTIFIZIERUNGEN

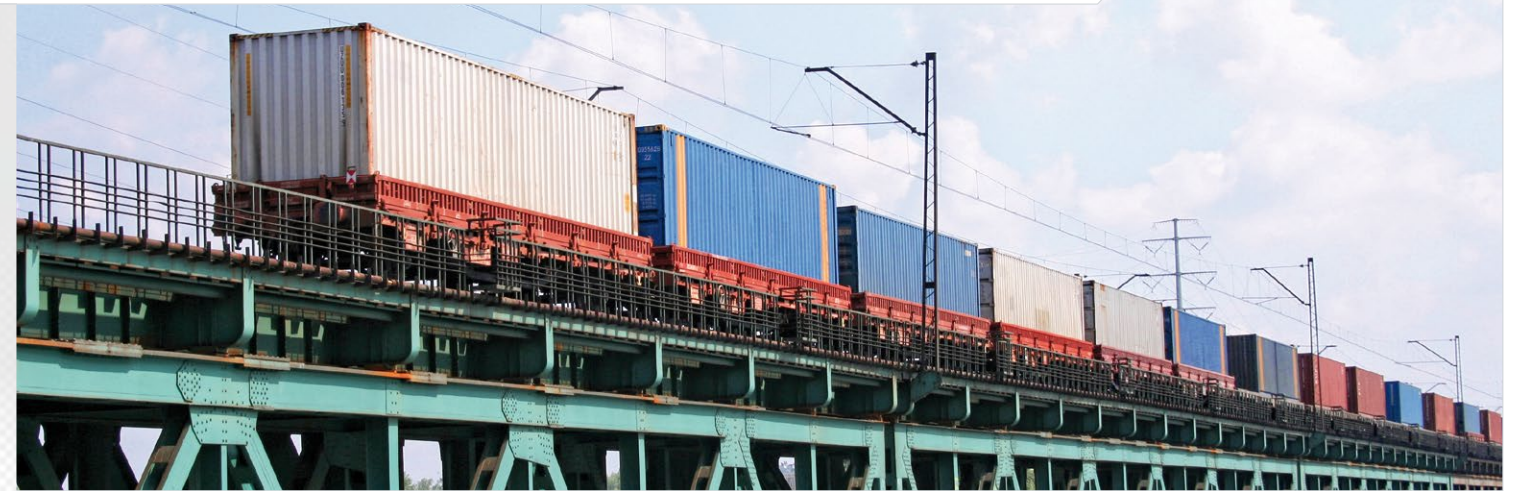
Computergestützte Qualitätssicherung

ANALYSIEREN, DOKUMENTIEREN UND ARCHIVIEREN

»Schmits-Mettmann« setzt die computergestützte Qualitätssicherung (CAQ) als Element des Qualitätsmanagements ein. Wir analysieren, dokumentieren und archivieren qualitätsrelevante Daten zu unseren Fertigungsprozessen. Über statistische Prozesskontrolle erreichen wir optimale Qualität. Die kontinuierlichen Auswertungen bestätigen das hohe Qualitätsniveau unserer Produkte, wie es unsere Kunden erwarten.

NACH IATF 16949:2016 ZERTIFIZIERT

Dass unsere Prozesse überwacht sind und die Qualität unserer Produkte nachvollziehbar ist, zeigt die Zertifizierung nach IATF 16949:2016. Mit dieser Norm wurde ein einheitlicher und weltweit anerkannter Standard für Automobilzulieferer geschaffen, den »Schmits-Mettmann« als zertifiziertes Unternehmen erfüllt.



// LOGISTIK

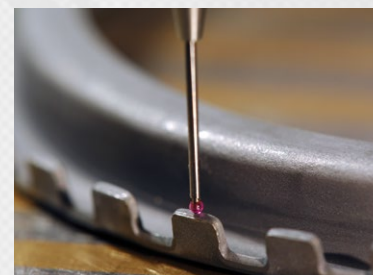
Exzellente Lieferfähigkeit

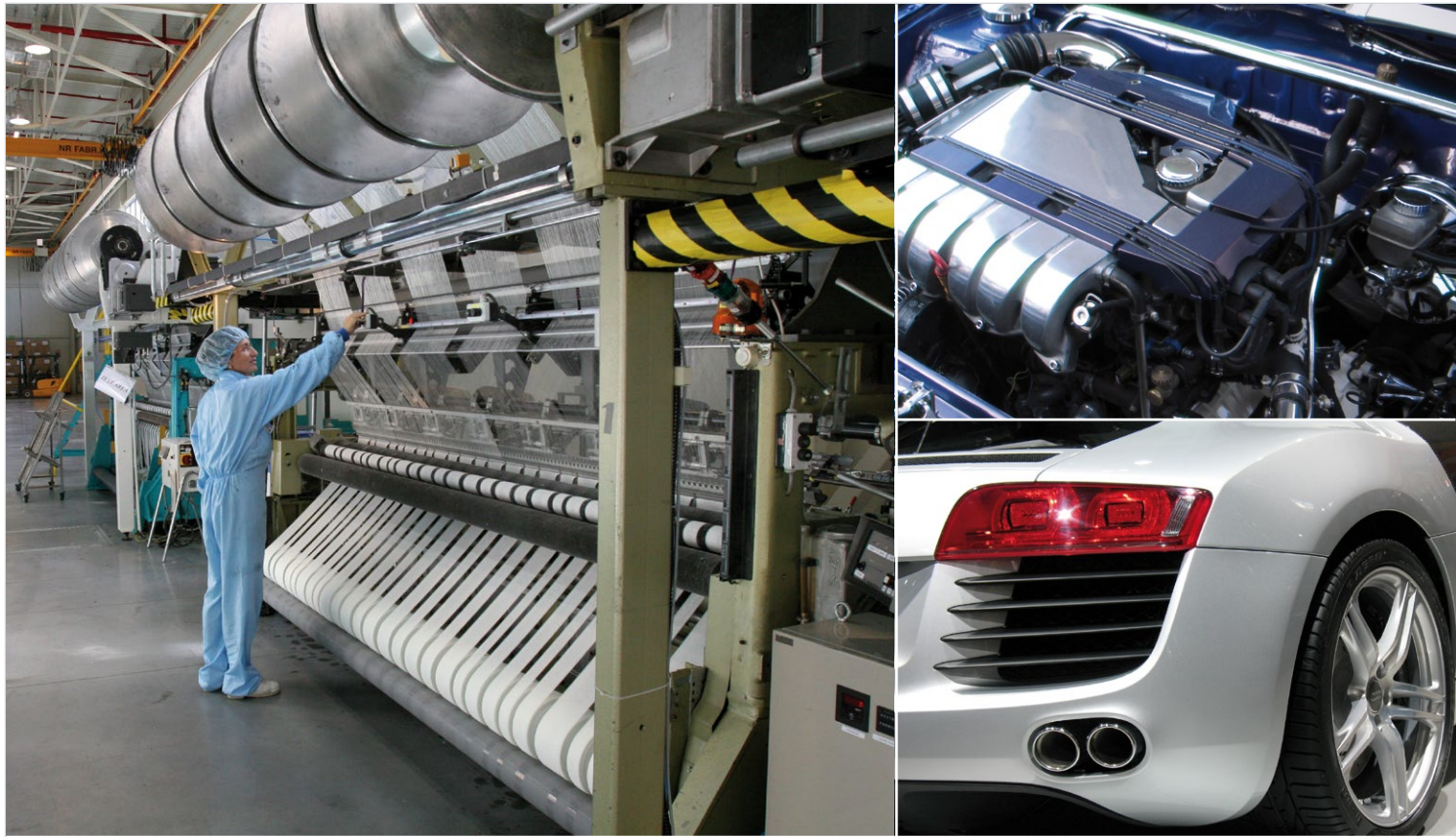
PERMANENTE VERFÜGBARKEIT STÄRKT MARKTTEILNEHMER

Qualitätsprodukte zu produzieren reicht nicht aus. Sie müssen auch verfügbar sein, genau dann, wenn sie gebraucht werden, und genau dort, wo sie weiterverarbeitet werden. Wir sichern unseren Kunden kurze Reaktionszeiten und eine permanente Verfügbarkeit zu – weltweit. Termingerecht liefern wir exakte Stückzahlen »just in time« oder »just in sequence«.

Dafür steuern wir Warenwirtschaft und Logistik über unsere hochleistungsfähige IT und ermitteln über »EDI« den Bedarf unserer Kunden. Unsere exzellente Lieferfähigkeit stärkt sowohl unsere eigene Marktposition als auch die unserer Kunden, die ihre Zusagen als Systemzulieferer stets einhalten können.

» PERMANENTE VERFÜGBARKEIT – WELTWEIT





// BRANCHES

Automotive supply, mechanical engineering,
technical consumer goods

COMPREHENSIVE INDUSTRY KNOWLEDGE

»Schmits-Mettmann« successfully works together with automobile suppliers, mechanical engineering, plant manufacturers, and producers of consumer goods. We know the special challenges of our branches. Our customers value our expertise, flexibility, product quality and absolute reliability.

SUCCESS AS AN AUTOMOTIVE SUPPLIER

As a partner of large system suppliers within automotive manufacture, we develop and produce stamped, drawn and bent parts for original equipment in modern vehicles. Our components are installed in all areas of the automotive industry, for example in chassis technology and in vibration and noise reduction. We specifically produce filigree components for the latest generation of injection systems. Through permanent innovation, we integrate technological progress into our production to meet the highest demands of our business partners – today, tomorrow, and in the future.

// PRODUCTION FACILITIES

An Overview of Our Machinery

DOUBLE-COLUMN PUNCH PRESSES

1 punch press with 500 metric tons of pressing force and a 4-axis transfer system, die length up to 3,000 mm, strip width 30–600 mm, strip thickness 0.7–6.0 mm (manufactured in 2022)

1 automatic press with 315 tons of pressing force and a 3-axis transfer system, maximum die length 2,000 mm

5 automatic presses with pressing forces ranging from 90 to 315 tons, maximum die length up to 2,000 mm, (manufactured in 2025)

INSERT PRESSES

4 eccentric presses for insert work and semi-automated production with pressing forces ranging from 63 to 160 tons

4 hydraulic presses for insert work and semi-automated production with pressing forces ranging from 30 to 250 tons

30 miscellaneous presses

VIBRATORY FINISHING

2 circular trough vibratory finishing systems
1 washing system for small parts

WE MANUFACTURE STAMPED-BENT AND DEEP-DRAWN PARTS IN THE FOLLOWING SIZES:

- ⊕ Deep-drawn parts from approx. Ø 4 mm to Ø 500 mm
- ⊕ Drawing height up to max. 80 mm
- ⊕ Stamped-bent parts up to approximately 350 mm x 350 mm (Ø 500 mm)

WE HAVE OUR OWN TOOLMAKING DEPARTMENT WITH EQUIPMENT DESIGN CAPABILITIES. IN THESE DEPARTMENTS, WE DESIGN AND MANUFACTURE:

- ⊕ Progressive die, deep-drawing, and transfer dies up to 3000 mm in size
- ⊕ Extrusion dies
- ⊕ Insert dies
- ⊕ Bending dies
- ⊕ Fixtures and special-purpose machines

// CONTACT

Your Contacs

Do you have any requests or questions? Would you like to have stamped, drawn or bent parts developed and manufactured by »Schmits-Mettmann«? Learn more about our business and our personal service!

We'd be happy to advise you. Just give us a call: +49. (0) 2104.92 98 - 0

If you have specific questions about certain areas, our qualified representatives are here to help. Give us a call—we look forward to speaking with you.



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