

MAGNET-SCHULTZ

Your Specialists for electromagnetic Actuators and Sensors

QUALITY SINCE 1912



High Tech for the 21st Century.

»Support your customers' success!«

»Support your customers' success!«

We are specialists for electromagnetic actuator, sensor and valve technology.

We develop individual high-tech solutions in cooperation with our customers of the aerospace, automotive, electromechanics, hydraulics, medical technology, pneumatics industries and many more.

As independent family company in the 4th generation, we stand for experience, know-how, sustainability and highest quality. With a wide vertical range of production and 2500 employees at our sites in Europe, the USA and China, we are your reliable and global partner for your innovation today and in future.

Our key to success has been the same for more than 100 years:

»We support our customers' success!«

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Quality
since 1912



MSMgroup

Magnet-Schultz
Memmingen
Prefag Walzbachtal
W.E. Schultz Schweiz
Magnet-Schultz
of America
Magnet-Schultz China
Magnet-Schultz UK
Magnet-Schultz Italia



Career

Working at
Magnet-Schultz
Career Orientation
Apprenticeship
Studies
Live and Work
in the Allgaeu region



Individual High-Tech Solutions

We are specialists for electromagnetic actuator and sensor technology. We develop and produce for our customers in industries with high standards of technology and quality. Our products are manufactured as »custom design« and are used from the deep sea to the outer space, in road and rail vehicles, in commercial and construction machines as well as in passenger cars, in medical devices, in industrial environments and in explosive areas.

Since 1960, we have been optimising energetic efficiency and service life with sustainable usage of material and have offered holistic solutions for each application.

Aerospace



**Sensor aerospace
A WX F 003**
Sensor for
flight control systems



**Control solenoid
G CA X 027**
Control of electrohydraulic
aggregates
in commercial aircrafts



**Pin puller
G SC H 023**
Unlocking a gearbox in
the Solar Orbiter



**Rotary solenoid aerospace
G CM D 070**
Emergency unlocking
device in in-flight refuelling
systems



**Solenoid valve aerospace
G CA V 030**
Special valve for general
hydraulic applications
in aircrafts



**Hydraulic valve
G CA V 038**
Special valve for general
hydraulic applications
in aircrafts



**Pneumatic valve
G CA X 027**
Pneumatic applications
in aircrafts



**Pneumatic valve
G CA X 027**
Pneumatic applications
in aircrafts

We make you fly –

even though you cannot see us directly.

Our valve solenoids and sensors control hydraulic and pneumatic functions in aircrafts.

Due to the special requirements in terms of function and quality, aviation is an outstanding technology carrier and innovation driver for us. We are certified according to EN 9100. Within the scope of the certification, we are considered a Component Manufacturer and are authorized to produce according to “make to print” and “make to specification”.

In the sector of aerospace, we actually pursue customer oriented product development only. We find individual electro-magnetic solutions for your challenges.

Our product examples show
the wide range of our activities.



more information:
magnet-schultz.com/en/aerospace

Automotive



**Pressure regulator
VR 026**
Control of automatic
transmissions in
passenger vehicles




**High pressure valve for
hydrogen**
Fuel cells in mobile
applications



Park lock
Automatic transmissions in
passenger vehicles



**ON/OFF solenoid
G AL Y 020**
Actuator for Common Rail
injectors at diesel engines



Sensor automotive
Monitoring the
transmission control



Valve box
Box with up to 8 pneumatic
valves for transmission control



Valve block
Exhaust gas aftertreatment
in commercial vehicles



Proportional valve
Variable change of the
damping characteristic of
shock absorbers

We move people –
even if you cannot directly see us.

Our solenoids work in automobiles of famous brands.

Automation and increasing electrification in passenger vehicles as well as in commercial vehicles and busses require suitable actuator and sensor technology. In the mobile sector, the solenoid is principally used as linear actuator, shotbolt lock unit or holding element but also as rotary actuator in its various characteristics. Compared to other actuator systems, it is characterised by its speed, simple construction and control as well as by high reliability.

Depending on the application area in the vehicle, special requirements regarding protection type, vibration resistance, temperature and voltage ranges, corrosion resistance and resistance against various operating media have to be fulfilled. The usually large quantities require highly automated production processes and appropriate constructions.

In the automotive sector, the customer specific solution is standard. A selection hereof shall give you inspiration and serve as a reference.

With valves for hydrogen, we serve applications in vehicles with fuel cell drive and are among others „participants“ in the Winter Olympics 2022.



more information:
magnet-schultz.com/en/automotive

Electromechanics



We control functions –

even if you cannot directly see us.

Our solenoids show diversity: pushing, pulling, rotating, holding, locking, vibrating.

The fields of application for solenoids are diverse and therefore they are applied in countless industrial sectors such as mechanical, plant and apparatus engineering, automation, process and laser technology. There our standard programme covers many requirements. Electronic control devices expand the field of application for solenoids towards energy efficiency, increase of performance or reduction of construction space. Where required, there is the option of customer-specific variations and special developments.

<p>DC solenoid G BK K 022 Automated coin sorting system</p>	<p>Holding magnet G MH X 040 Air control in industrial vacuum cleaners</p>	<p>Shotbolt lock unit F MM E + F ST X 035 to ATEX / IECEx Solution from our flexible modular system</p>	<p>Rotary solenoid with holding current reduction G DC 050 + Z KD H 211 Actuations in packing machines</p>
<p>Shotbolt lock unit G HU Z 007 Locking tasks in precision mechanical devices</p>	<p>Solenoid G BO X 124 Parking locks in agricultural tractors</p>	<p>Shotbolt lock unit with limit switch G MC X 037 Locking in strapping machines</p>	<p>Solenoid with integrated electronics G AK X 065 Release of brakes in escalators</p>

Product examples show the wide range of our activities.



more information:
magnet-schultz.com/en/electromechanics

Hydraulics



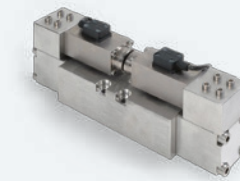
We make you strong –

even if you cannot directly see us.

Our valve solenoids, pilot valves and sensors sensitively control and regulate quick movements and strong forces in high-tech working machinery.

In hydraulics at the interface between electrical control and power media, the solenoid as actuator of the solenoid valve plays a central role for the function of diverse machines and tools.

We have accompanied the market from the beginning and contribute to the sector's success with important and today widespread basic developments in the sector of electromagnetic actuator technology.



**DC hydraulic solenoids
G AA Y**
Hydraulic control blocks for
underwater applications



**Proportional pressure
reducing valve 32 mm**
Mobile applications



**Hydraulic solenoid
in twin design
G RF Y 030**
Hydraulic valves in mobile and
stationary applications



**Valve solenoid pull type
with valve needle**
Seat valve for mobile and
stationary applications



**Bidirectional
proportional solenoid**
Actuation of proportional
and servo valves



**Valve solenoid
with media separation**
Valves for media with increased
pollution input



Position control inductive
Sensor (LVDT) in pressure-tight
version as position control
for valve piston



Hall sensor
Position control
for valve piston


An efficient modular system for valve solenoids and pre-pilot valves provides a solid basis for your application-specific solution.



more information:
magnet-schultz.com/en/hydraulics

Medical Technology






**Flow control valve
V PR M 016**
Gas flow control for
pediatric ventilation



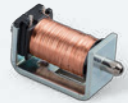
**Linear solenoid
G TC A**
Hose clamps in
dialysis machines




**Media-separated
solenoid valve**
Fluid technology in medical
devices and dialysis machines



**Miniature solenoid valve
V PK M 007**
Pneumatic control in blood
pressure monitors



**Miniature solenoid valve
G BR L 010**
Pneumatic control of blood
pressure monitors



**Rotary solenoid
G DA Y 075**
Actuation of hose clamps
in dialysis machines

We help you heal people –

even if you cannot directly see us.

Our solenoids fulfill important functions in medical technology devices.

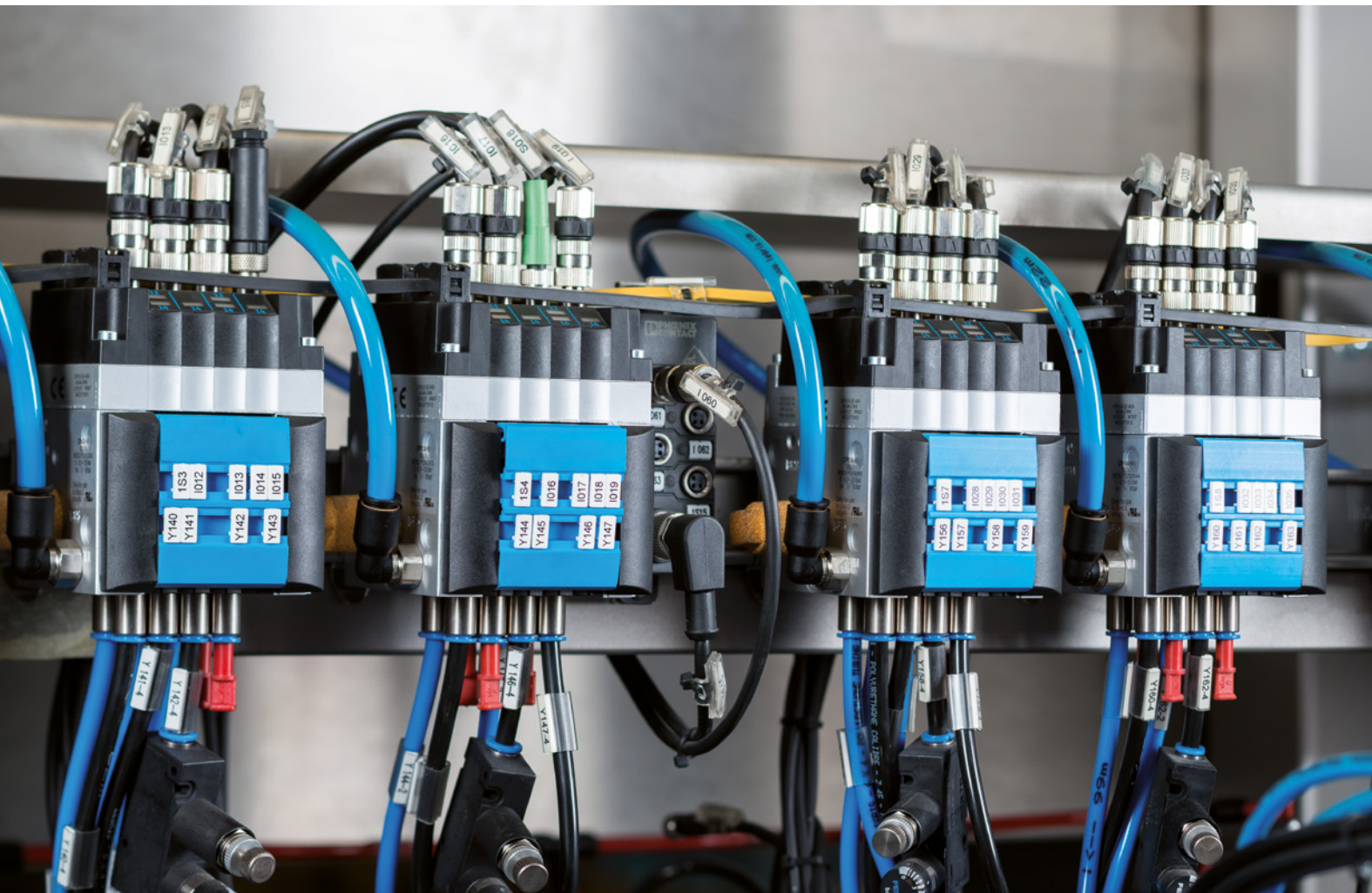
For a variety of applications in medical technology, we reliably master the requirements related to the electromagnetic solution. Furthermore, we possess a high competence in supplying function units and valve units as combination of solenoid, mechanics and electronic control. Safe function, low noise emissions, the application of FDA compliant and physiologically harmless substances are taken as given, depending on the field of application.

Product examples show the wide range of our activities.



more information:
magnet-schultz.com/en/medicaltechnology

Pneumatics



We increase your productivity –

even if you cannot directly see us.

Our valve solenoids and valves automatise machines and production lines.

The media air as well as other gaseous substances place specific demands to an electromagnetic actuator. We know the industry, have shaped the market since the beginning in the sixties and are aware of requirements and solutions to switching function, leak tightness, media resistance, protection type, service life, flow, pressure, switching speed, electrical actuation and many more. Besides the valve solenoids, our portfolio also comprises solenoid valves and valve assemblies.

Pneumatics is a market which is characterised by customer-specific fully automated large-scale production.



Valve block
Valve block for exhaust gas aftertreatment in commercial vehicles



Valve solenoid G BK R 010
Miniature valve island



Valve box
Box with up to 8 pneumatic valves for transmission control



Solenoid valve
Valve for pneumatic transmission control



Valve solenoid in twin design G BZ A 038
Brake systems in commercial and railway vehicles



Miniature solenoid valve G BR L 010
Pneumatic control of blood pressure monitors



Valve solenoid in twin design
Mobile applications in commercial vehicles



Valve solenoid in twin design
Air treatment systems in commercial vehicles

With our modular system and our standard programme, we are able to cover project and special requirements with individual demands.



more information:
magnet-schultz.com/en/pneumatics

Product Groups

more information:
magnet-schultz.com/en/products



As specialists for electromagnetic and actuator and sensor technology we offer besides our customer specific special developments a broad portfolio of standard products for various applications.



Solenoids

We supply DC and AC solenoids, single acting solenoids, reverse solenoids and polarised solenoids as special solution for monostable, bistable or particularly energy-efficient actuator systems.



Shotbolt Lock Units

We offer push type and pull type versions as well as types with limit switch for position detection of the shotbolt.



Rotary Solenoids

Our rotary solenoids, as a special form of electromagnets, are characterised by precision and longevity. The drive shaft has a ball bearing and does not perform an axial movement during rotation.



Valve Solenoids for Hydraulics

We are specialists for low hysteresis, high compressive strengths, difficult ambient conditions in mobile and stationary applications and solve your task with our flexible modular system.



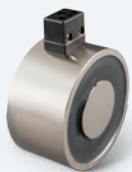
Sensors

We offer you inductive sensor principles LVDT (Linear Variable Differential Transformator), single-coil systems and systems on the basis of Hall sensor, pressure-tight systems up to 400 bar, measuring paths up to +/- 100mm, very good linearity, high temperature ranges with low temperature drift and systems for sensor-less position detection.



Valves for hydrogen and fuel cells

We offer control and ON/OFF valves as well as assembly units for the requirements in mobile and stationary applications according to customer specifications.



Holding Magnets

We offer holding solenoids, permanent holding magnets and appropriate counterparts, called armatures.



Vibrators

We offer open and encapsulated designs, devices for direct connection to the AC network (vibration frequency = twice the supply frequency) or devices for connection to the AC network via one-way rectifier (vibration frequency = supply frequency)



Valve Solenoids for Pneumatics

Pneumatics is a market which is characterised by customer-specific fully automated large-scale production. With our modular system and standard programme, we are able to cover project and special requirements with individual demands.



Electronics

We supply you with standard devices and individual solutions for holding current reductions, solutions for digital and analogue interfaces and bus systems, sensor-less detection of position, motion and switching time, complex solenoid activation for the control of force and speed as individual solution.



Devices to ATEX, IECEx

Our product programme includes devices for the application areas mechanics, pneumatics and hydraulics.



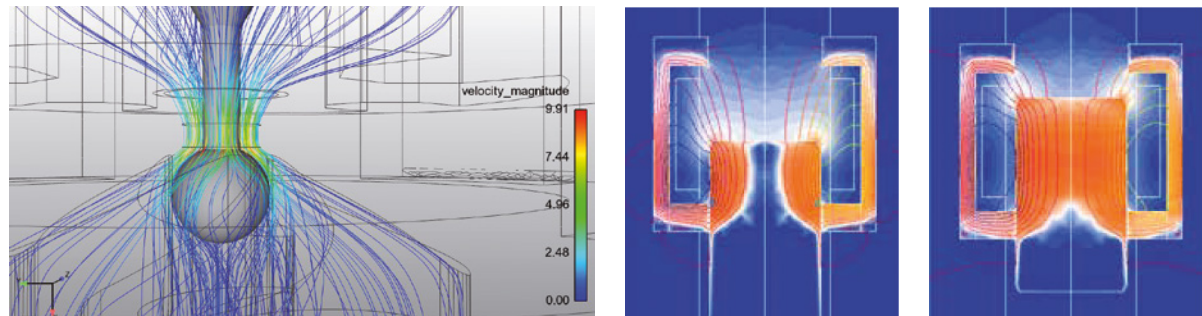
Individual Development

Together with our customers, we develop individual electromagnetic high-tech solutions according to your requirements. With our experience, our development skills and our technical possibilities, we support you as long-term partner with high innovative strength.

Thanks to our development competence we are leaders in development and production of electromagnetic actuators and sensors. Our products are developed as custom designs within sophisticated customer projects. We provide engineering competence from acquisition to production to application.

Innovation

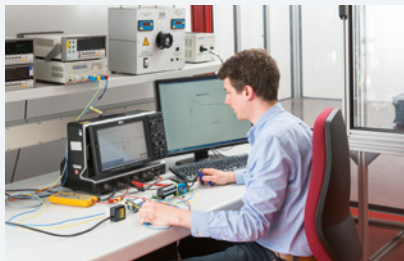
In order to secure this high level of innovative force and development competence in the long term, we pursue basic development by using simulation and calculation tools. We cooperate with recognized universities. We think ahead, thus we invest in innovative developments as well as in the professional training of our engineers and skilled workers.



FEM calculations for the simulation of flow characteristics and magnetic circuits



Measuring station for transducers



Laboratory workplace for electronics development



High pressure test bench up to 1000 bar



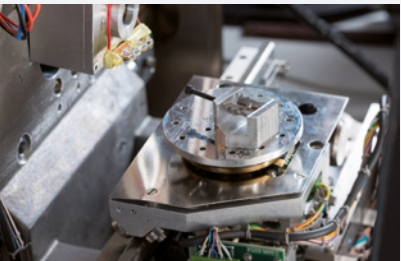
DSC analysis



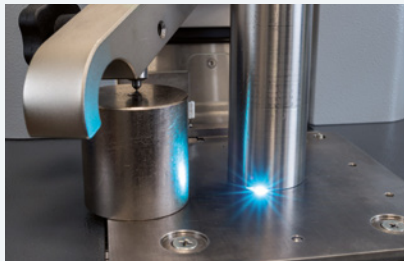
Pulsation pressure measurement devices



Kesternich chamber for corrosion tests



Scanning electron microscope for material analysis



Spectral analysis for metals



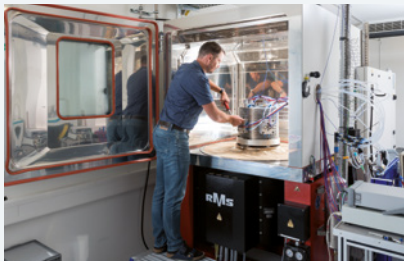
Remagraph for measuring of magnetic properties



Function test bench for hydraulics



Cleanliness analysis



Shaker up to 45kN

Production

Solenoids place high demands to precision and specially adapted production procedures and processes. Thus, know-how in production is one of our core competencies and requires a large vertical range of manufacture. Our ultra-modern equipment guarantees flexibility and competitiveness.

Large series production using the example of a fully automated assembly system for solenoid valves



Multi spindle winding machines



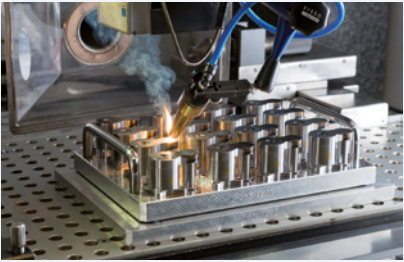
Fully automated assembly and leakage test of tubes



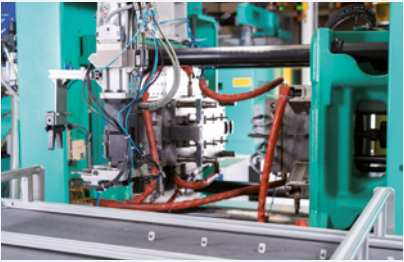
Automated handling



In-process quality control



CNC laser welding



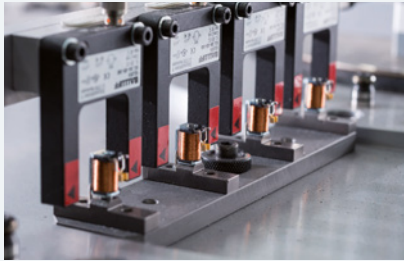
Plastic injection moulding with automated parts placement



Automated electroplating



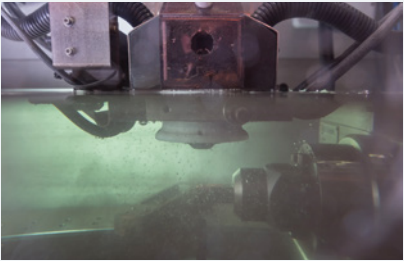
Multi spindle CNC lathes



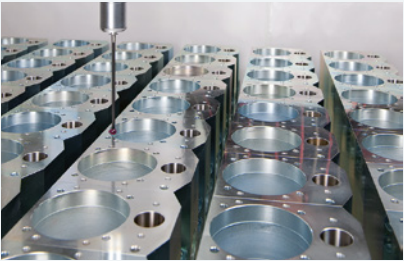
Auto-preventive facilities in automated production lines



Fully automated plastic encapsulation of solenoid bodies



CNC eroding procedures for prototypes and toolmaking



CNC coordinate measuring machine

Quality

Even prior to the application of QA systems, »MSM quality« was well known. The goal of our quality management is to continuously improve the quality of our processes, products and services and to secure them by effective control circuits and modern quality management methods. In regular audits, we compare our quality standards with the relevant national and international standards as well as with customer requirements.

In 2018, we have passed the transition of ISO/TS to IATF 16949 »best in class«.



more information:
magnet-schultz.com/en/quality

Spectral analysis
in the receiving
department



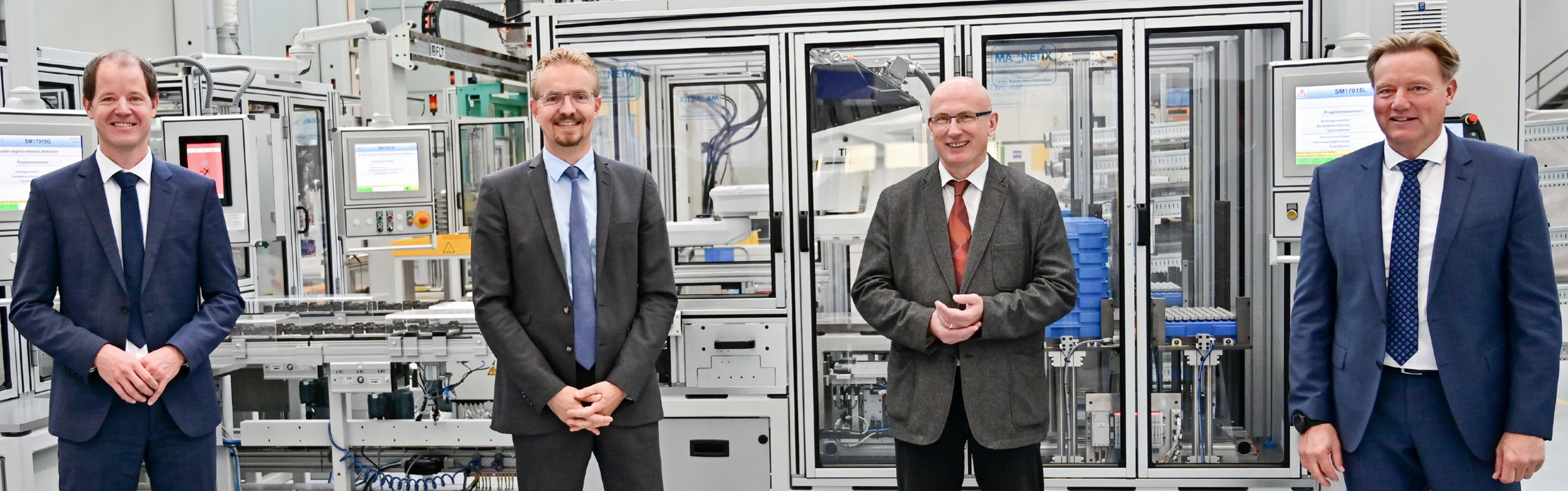
Awards

The highest award for us is the satisfaction and the success of our customers. Supplier Awards emphasise the effectiveness of our efforts and are motivation for us to continue performing at the highest level.



ZF Supplier Award 2011,
Festo Supplier Elite Award 2013,
FCA Supplier Award 2014,
Bosch Group Supplier Award 2015,
Supplier Award 2017 of Liebherr
Aerospace Lindenberg GmbH

Presentation of the Supplier Award 2017 at Liebherr-Aerospace Lindenberg GmbH
f.l.t.r.: Claus Peter Hasel (R&D MSM), Dr.-Ing. A. W. Schultz (CEO MSM), Josef Gropper (Management Liebherr)



Business Management Magnet-Schultz

»We want to continue growing with leading technology in a sustainable, independent and diversified way.«

Dr. Albert W. Schultz

Quality since 1912 ensures leading technology for the 21st century – we want to be professional and longtime partners for our customers with experience, knowhow, innovative force and development competence.

MSM was founded in 1912 and became a sustainable works of generations. The entrepreneurs Schultz see themselves as trustees of their generation (Eduard W. Schultz). We can only stay socially responsible, if we remain competitive (Wolfgang E. Schultz).

Management

As an owner-managed family business in the 4th generation, we sustainably focus on high competence, professionalism and ethics.

Our code („Corporate Governance“) and our executive rules are the basis for our shareholders and managers to assume their responsibility towards the company, our customers, our suppliers and society as trustees of their generation.

A professional family company with the advantages of quick decision making and long-term planning and expertise for more than 100 years is able to stress its position on global markets.



Albert W. Schultz
Dr.-Ing. MBA IMD
CEO, Partner

2001 Dipl. El.-Ing. ETH Zürich
2001–2 Elektromechanik GmbH
2006 Dr.-Ing. RWTH Aachen
2006–8 ZF Marine GmbH
2009 MBA IMD Lausanne
Since 2010 director

Supervisory board Airport
Memmingen GmbH,
Vice President
ICC Swabia, programme
committee »IFK«, technical-
commercial advisory
council »O&P Fluidtechnik«



Sven Kreutzkamp
Dipl.-Wirt.-Ing.
Managing Director
Production

2002 Dipl.- Wirt.-Ing.
TU Darmstadt
2002–2016 Robert Bosch GmbH
At Magnet-Schultz since 2017
2019 Faching. Hydraulik Ulm
Appointed to the management
board in 2020



Werner Schmidt
Dipl.-Ing.
Managing Director
Production

1995 Dipl.- Ing. TU Stuttgart
1995–2003 Robert Bosch GmbH
2003–2004 Burger GmbH
2005–2007 FELSS Burger GmbH
2008–2016 MTU
Friedrichshafen GmbH
At Magnet-Schultz since 2016
Appointed to the management
board in 2020



Wolfgang Selbitschka
Dipl.-Ing. (FH)
Managing Director
Sales

1989 Dipl. Ing (FH) Kempten
At Magnet-Schultz since 1989
Appointed to the management
board in 2013

Facts and Figures

Sales 440.000.000 €
5% R&D budget
8% investment budget
25% direct exports
Family company in 4 th generation
2600 employees
10% abroad
9% apprentices in Memmingen
Production > 50% workers with certified skills
Continuous education
Working time adjusted to requirements
1000 employees did celebrate their 25+ jubilee with MSM
Minimal fluctuation accumulates know-how





»Family business with tradition«

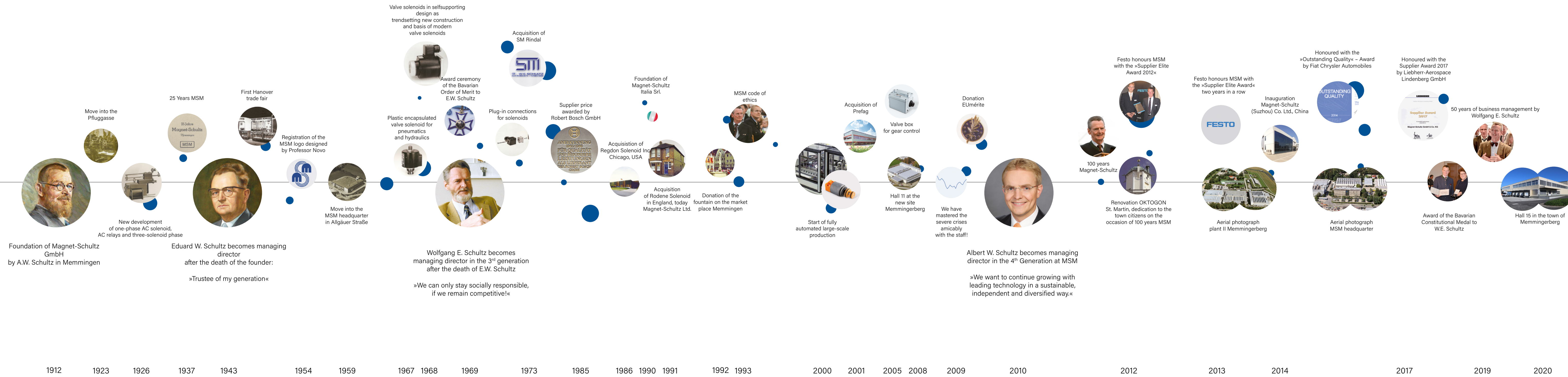
As an owner managed family business in the 4th generation we focus sustainably on high competency, professionalism and ethics.


Our story began at the end of the 19th century with a country lad from Grunewald who dreamt of becoming an engineer and thus laid the foundation for a family business with tradition.



Diploma certificate for electrical engineers from company founder A.W. Schultz from 1898

History



 Weitere Informationen zur Historie bei MSM auf magnet-schultz.com/historie

MSM Group supports customers' success all over the world!!

We rely on the potential and the creativity of our experts – throughout the world!



Magnet-Schultz GmbH & Co. KG
Headquarter Memmingen
Sales | R&D | Production

Since the construction of the new plant in 1959, the headquarter of the MSMgroup has been located here. The space capacities have been exhausted since the construction of Hall 6 in 2003.

Allgäuer Straße 30
D-87700 Memmingen
Phone +49 8331 10 40
info@magnet-schultz.de
www.magnet-schultz.com



Plant Memmingerberg
R&D | Production

On the site of the former military airport Memmingerberg, production areas have been continuously created since 2008. Currently the location has production and office space in 4 newly built halls and existing buildings.

A.-W.-Schultz-Str. 1
D-87766 Memmingerberg



PREFAG Carl Rivoir GmbH & Co. KG
Sales | R&D | Production

PREFAG was founded in the northern Black Forest in 1954. The company is specialized in the manufacture and assembly of small precision parts. PREFAG has supplemented the MSM group of companies since 2001.

Prefagstraße 4
D-75045 Walzbachtal
Tel. +49 7203 8 70
info@prefag.de
www.prefag.com



W. E. SCHULTZ
Sales | Production

The company has been part of the MSMgroup since 1973. The production spectrum includes CNC multispindle lathes, coil winding and assemblies of electromagnetic devices.

Ramsau, CH-9604 Oberrindal
Tel. +41 71 394 60 50
info@smrindal.ch
www.magnet-schultz.ch



Magnet-Schultz of America
Sales | R&D | Production

Magnet-Schultz of America joined the MSMgroup in 1987 through the acquisition of Regdon Solenoids. Today, they are a leading, innovative manufacturer of solenoids, voice coils, subsystems and precision components and primarily serve the North American market with their products.

401 Plaza Drive
Westmont, Illinois 60559, USA
Tel. +1 630 7 89 06 00
info@magnet-schultzamerica.com
www.magnet-schultzamerica.com



Magnet-Schultz (Suzhou) Co., Ltd.
Production

Magnet-Schultz (Suzhou) was opened as production site for the Chinese market in 2014.

No. 395 Quande Road
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Economic & Technological Development Zone
Suzhou, Jiangsu 215200
CN-P.R.China
Tel. +86 512 81 55 88 90
info@magnet-schultz.cn
www.magnet-schultz.cn

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Sales | Assembly

3-4 Capital Park
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GU22 9LD, UK
Tel. +44 1483 79 47 00
sales@magnetschultz.co.uk
www.magnetschultz.co.uk

Magnet-Schultz Italia Srl.
Sales

Via Paracelso 18
20041 Agrate Brianza (Mi), Italia
Tel. +39 039 6 05 72 61
info@magnetschultz.it
www.magnet-schultz.it

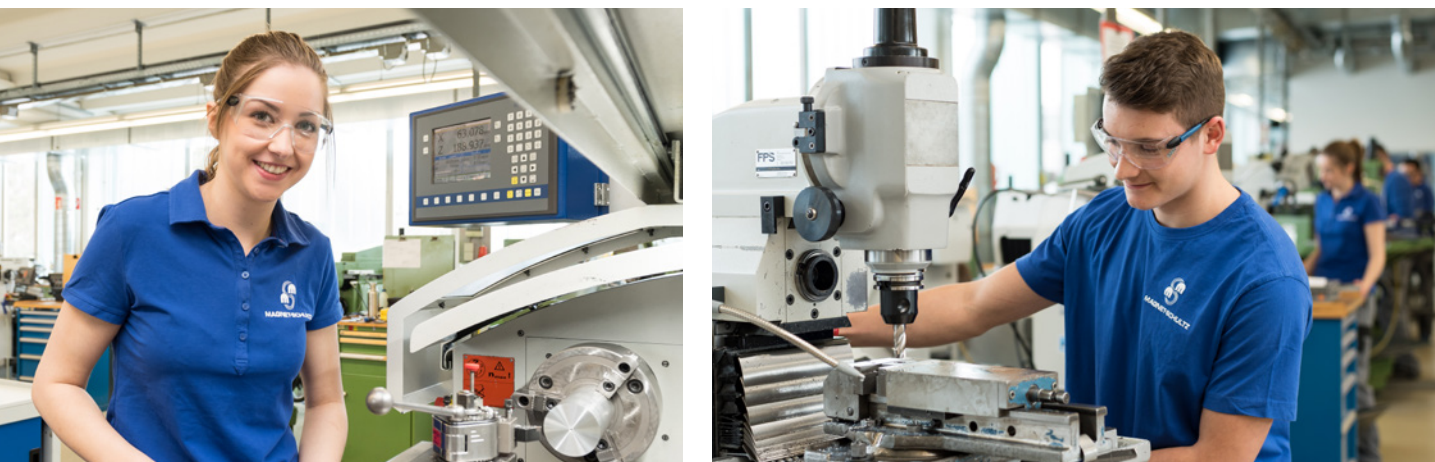


Working at MSM

Our products and services shall give security to our customers and employees. We count on the potential and creativity of our employees. Thorough education, motivating work atmosphere, high investments, strong innovation and presence on the world market defend our leadership:

Longterm orientated, appreciative and independent cooperation in small teams increase motivation and success.

Apprenticeship at MSM - things are moving here!



Training makes successful ! To ensure that our products continue to make our customers successful in the future as well, we rely on training in a variety of the following professions:

- | | | |
|---|------------------------------------|-----------------------------|
| Electronics technicians – Automation technology | Specialists in warehouse logistics | Technical product designers |
| Electronics technicians – Industrial operation | Industrial clerks | Process mechanics |
| Information technology specialists for system integration | Industrial mechanics | Tool mechanics |
| | Mechatronics technicians | Cutting mechanics |
| | Surface coating technicians | |



Apprentices at MSM

A View Beyond the Horizon...

Theoretical and practical training is one thing; but for us also extra professional topics belong to a comprehensive education. Thus, apprentices participate consistently in events of all kinds in the years of apprenticeship. Here a brief insight into what has been offered off desk and work bench:



Graduation "flight" to Berlin



Visits of our sister companies



Project »Learn to learn«



Workshop „Healthy Nutrition“



Journey to the European Parliament in Strasbourg



Occupational health management




Warming-up days/team development in Kleinwalsertal



Driver safety training



Trade fair visits

 Further information on apprenticeship at MSM at magnet-schultz.com/en/career

Study at MSM - strong perspectives for the future!



MSM maintains technology-oriented cooperations with RWTH Aachen, TU Munich, ETH Zurich or the University of Applied Sciences Kempten and is practice partner of the Dual University Baden-Württemberg as well as the University Ulm and Kempten in terms of studies. In addition to that, MSM offers besides project and term papers a variety of internships domestic or abroad.

We currently offer the following university programs:

Composite studies: (with integrated training according to the Ulm Model)

Electrical Engineering and Information Technology
Mechanical Engineering
Mechatronics
Digital Production / Production Management

Study with in-depth practice:

Electrical Engineering and Information Technology
Mechanical Engineering
Mechatronics

Dual study

Business Management – Forwarding, transport, logistics
Business Management - Industry
Business Management - Controlling & Consulting
Industrial Engineering



more information on
studies at MSM on
magnet-schultz.com/en/career



Live and Work in the Allgaeu

Memmingen is a lively town with all schools up to University, interesting by living in town and the surrounding area. The site is attractive by industry, trade, handcraft, logistics and gastronomy, as well as by good traffic links (Allgäu Airport, motorway/rail connection) and only 45 minutes away from the mountain and ski paradise Allgaeu, the royal castles and the Lake Constance.

The beautiful Allgäu



Market place, also called the „Gute Stube“ (parlour) of Memmingen, with town hall, tax house and the fountain, donated by Magnet-Schultz in 1992.



The tower of the church St. Martin watches over the city as the highest building and landmark. Magnet-Schultz sponsored the renovation of the Octagon on the occasion of their centenary in 2012.



On the traditional „Fischertag“ (fisherman's day), the town river is fished out with great fanfare on the last Saturday before the summer holidays every year.



In 1525, the Twelve Articles were adopted by Upper Swabian farming groups. Thus, the first transcript of human rights and civil liberties in continental Europe was issued in Memmingen.



Benediktine Abbey Ottobeuren, founded in the year 764.



3rd Bavarian commercial airport Allgäu Airport Memmingen www.allgaeu-airport.de

Factories and Distribution Germany



Magnet-Schultz GmbH & Co. KG

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