WE GENERATE EXCITMENT.

Since its founding by Andreas Maier in 1890, our company has lived through many exciting times. Today we are the leading manufacturer in Europe, supplying over 5,000 different products from the fields of clamping, hand tools and locks. With this extensive product range we can meet all of our customers’ needs and requirements.

But providing optimal quality means meeting the challenges at all levels: Expert consultation, modern team organisation, individual solutions (including special developments), flexibility in response to changing conditions, etc. And we ourselves find this so exciting that we look forward every day to shaping the market together with our employees and our customers – both now and in the future. That is something you can count on.

THE AMF SERVICE GUARANTEE

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Terms of sale, delivery and payment

These Terms of Sale apply for companies, legal entities governed by public law and public law limited liability companies. Our goods and services are supplied exclusively on the basis of the following conditions. Any deviating purchasing conditions of the customer or any additional conditions stipulated by us will not become part of the contract through acceptance of the order. By placing the order and accepting the goods we deliver, the customer confirms to accept our terms and conditions.

1. Offer and contractual conclusion

All our offers are always subject to change without notice unless otherwise explicitly agreed. Our offers and quotation and the order are based on the latest version of our catalogue. Dimension and weight values, as well as illustrations, drawings and data, are non-binding and may be changed by us at any time. Therefore, deviations cannot be ruled out and do not justify any compensation claims against us.

Orders are only accepted when confirmed by us in writing. If, for organisational reasons, the customer does not receive a separate confirmation upon the receipt of the goods, the invoice shall also be deemed the order confirmation.

2. Prices

The prices are in EURO, ex-works, excluding VAT, packing, handling, postage and all possible external costs. In case of invoicing otherwise agreed, e.g. FOB (Free on Board), the prices valid on the day of delivery shall apply. We are entitled to charge a minimum quantity surcharge of 10% (Euros) for cost reasons.

3. Tool costs

Unless the other agreements have been reached, the tools fabricated for the purpose of executing the order shall remain our property in all cases, even if we have invoiced a tool cost component separately.

4. Payment

Unless otherwise stated on the invoice, the purchase price falls due for net payment within 30 days of the invoice date (without deduction of discount). Invoice amounts of more than 300 Euros are due for payment immediately. In case of late payments, we are entitled to charge charge interest on account of the debt. The amount and the interest rate for current account credits at our bank (the default rate) will be applied by the European Central Bank. Moreover, in case of default following written notice to the customer, we shall be entitled to cease to fulfill our obligations until payments are received.

5. No set-off

There is no right to set-off with only legally confirmed or undecided counterclaims.

6. Right of withdrawal in case of delayed acceptance or payment and insolvency

If the customer fails to accept the goods in due time, we shall be entitled to set a reasonable period of time for acceptance. After this period, the customer must accept and supply the customer on a reasonably longer term. Our right to withdraw from the contract depends on the circumstances. As a rule, we shall be entitled to withdraw from the contract if the customer is insolvent or the goods are unsold or unmarketable.

The time at which the risk is transferred is decisive for the contractual state of the goods. If we are hindered in the fulfillment of our obligations due to the onset of unforeseeable circumstances that led to impossibility, it shall remain under an obligation to render the service. The same applies if this circumstance occurs at a time when the customer is behind schedule with acceptance.

7. Customer-specific fabrications/project fabrications (custom fabrications)

Customer-specific fabrications require binding information on design, quantity etc. in written form at the time of ordering. For manufacturing reasons, we reserve the right to differ from 10% above or below the order quantity. Technical modifications or cancellations are subject to any costs incurred. The return of customer-specific fabrications is not possible.

8. Delivery and packing, transfer of risk

The delivery date is non-binding, although stated to the best of our knowledge. It is subject to circumstances, defects in the delivery and complete delivres. The stated delivery dates relate to completion in the factory, starting on the day the order is accepted by us. Delivery ex works (ex-works) in accordance with Incoterms 2020. Therefore, the costs are borne by the customer. The risk is transferred to the customer when the goods are passed to the customer. The customer must ensure that the delivery is executable to the shipment. This also applies for partial deliveries, or if we have assumed responsibility for delivres and cost. The risk shall be transferred to the customer even in the case of delayed acceptance.

In case of specific shipping instructions, we shall proce according as we deem fit and without any obligation to the cheapest or most expidient method. The customer agrees that the invoice delivres shall be also delivered in parts, inter alia this is reasonable for the customer. We shall charge a 5% EURC processing fee for shipping to third parties that we may not deliver our goods without your written authorisation.

The packaging complies with the packing ordinance. Disposable packaging shall charged a separate price. The packaging cannot be taken back.

9. Performance impedement and/or impossibility

If we are hindered in the fulfillment of our obligation due to the onset of unforeseeable circumstances that led to impossibility, we are unable to avoid despite reasonable effort in relation to the nature of the circumstances (e.g. operation interruption, delay in the delivery of imported raw materials, defects in the delivery), the delivery time shall be extended by a reasonable period, inter alia as the supply of goods or services is not rendered reasonably possible or impossible.

If we have to accept that these circumstances are not only temporary, we shall be entitled to withdraw from the contract either in whole or in part.

If the supply of goods or services becomes impossible, the customer shall not be obliged to furnish its own contract service. Section 275 BGB applies mutatis mutandis. If, however, the customer is solely or predominantly responsible for the
Contents

- Functional Principle of Radio Sensors 4 - 7
- The Gateway 8
- Sender Units 9
- Sensors 10 - 15
- Accessoires 16 - 17
AMF RADIO SENSORS - WIRELESS COMMUNICATION TECHNOLOGY FOR YOUR PRODUCTION

1. Sensors
2. Radio pressure switch
3. Sender unit
Whether in clamping technology or for modern handling and storage systems - the AMF radio sensor is the perfect solution for a fully automated, unmanned production process. Wireless signal transmission by means of failure-free Bluetooth Low Energy 4.0, very long battery life as well as space-saving small construction are just a few features of this innovative technology. Inexpensive to buy and flexible to use, the AMF radio sensor ensures seamless process integration and thus increases the efficiency in your production.
With the reed switch the position of the cylinder piston is scanned in the clamping element and transmitted by the connected sender unit wirelessly to the gateway.

Integrated support control by built-in microswitches in the fixture. Once the workpiece is mounted, the release is transmitted wirelessly to the gateway and machine control via the sender unit.
Hydraulic pressure monitoring by means of the integrated radio pressure switch. This monitors in this case the system pressure of the hydraulic zero point clamping station.

The gateway is connected to the machine control. A WLAN router can be connected optionally to access the web-based user interface of the gateway via a tablet.
Gateway

Design:
Inputs: 8 wireless with transmission protocol Bluetooth Low Energy (BLE 4.0), transmission frequency 2.4 GHz.
Outputs: 8 potential-free relay outputs, electrically isolated, with screw terminals.
Max. 60 W / 125 VA - 220 VDC / 250 VAC, 2A
Radio signal range to the sender unit is approx. 10 metres. An extension of the radio signal is possible with antenna extension.
Power supply voltage: 24 V DC, nominal current 0.2 A
Designed for ambient temperatures from +5 to +65 °C.

Application:
Gateway (receiver) for wireless communication between sender units and the machine control.
The gateway monitors, processes, visualises and outputs the incoming radio signal to the machine control. The incoming radio signal on the gateway is transmitted by the sensor to the sender unit by cable and then transmitted by means of Bluetooth Low Energy (BLE 4.0).
The sensors in conjunction with the sender unit can be used and mounted, for example, on machine tables, fixtures, in workpiece storage technology or other storage systems.
The pairing (connection) of the sender unit to the gateway can optionally take place by the pushbuttons on the gateway or can be carried out on the integrated web interface using a tablet, for example.

Note:
All switching states of the sender units can be monitored via the integrated web interface.
The interface for this is the Ethernet RJ45 socket. If a WLAN router is used, the signal can be transmitted wirelessly.
For further technical information please request the product data sheet.

Dimensions:

<table>
<thead>
<tr>
<th>Order no.</th>
<th>B</th>
<th>B1</th>
<th>H</th>
<th>H1</th>
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<td>95</td>
<td>113.5</td>
<td>58</td>
<td>120</td>
<td>107</td>
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</table>
No. 5010SUS
Sender unit

<table>
<thead>
<tr>
<th>Order no.</th>
<th>Cabled input</th>
<th>Output wireless</th>
<th>Battery life up to [years]</th>
<th>Ingress protection</th>
<th>Weight [g]</th>
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<td>1</td>
<td>1</td>
<td>5.0</td>
<td>IP67</td>
<td>132</td>
</tr>
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</table>

Design:
The sender units are available in two versions. The longlife sender unit with Order No. 554179 has a battery life of up to 5 years and differs from the standard version in energy management (number and version of batteries) with a battery life of up to 1.5 years.

Input: 1 cabled input for the sensors.
Output: 1 wireless - to the gateway.
Radio signal range to the gateway is approx. 10 metres.
Designed for ambient temperatures from +5 to +65 °C.

Application:
Sender unit for wireless communication between sensors and the gateway.
The sensor (sensor system) is connected to the sender unit by cable. The sender unit transmits the information to the gateway via Bluetooth Low Energy (BLE 4.0).
The sensors in conjunction with the sender unit can be used and mounted, for example, on machine tables, fixtures, in workpiece storage technology or other storage systems.

Note:
Designed for ambient temperatures from +5 to +65 °C.
For further technical information please request the product data sheet.

Dimensions:

<table>
<thead>
<tr>
<th>Order no.</th>
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<td>4,8</td>
<td>M8x1</td>
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<td>6</td>
<td>4,5</td>
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<td>54</td>
<td>48,5</td>
<td>8,3</td>
<td>40</td>
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</tbody>
</table>
No. 5020-D01
Radio pressure switch

Design:
The radio pressure switches are available in two versions with different pressure ranges.
Output: 1 wireless - to the gateway
Sensor type: Mechanical pressure switch
Radio signal range to the gateway is approx. 10 metres.

Application:
Wireless pressure switch for pressure monitoring of a hydraulic clamping circuit on machine tables, fixtures, in workpiece storage technology and other storage systems.
The integrated sender unit transmits the switching state to the gateway via Bluetooth Low Energy (BLE 4.0).

Note:
Other pressure ranges available on request.
Designed for ambient temperatures from +5 to +65 °C.

Dimensions:

<table>
<thead>
<tr>
<th>Order no.</th>
<th>B</th>
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<th>dia. D1</th>
<th>dia. D2</th>
<th>G</th>
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<th>H1</th>
<th>H2</th>
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<th>L2</th>
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</table>
No. 5020-R01
Reed switch IP67

<table>
<thead>
<tr>
<th>Order no.</th>
<th>Slot</th>
<th>Length of connection cable [mm]</th>
<th>Ingress protection</th>
<th>Weight [g]</th>
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<td>T8</td>
<td>300</td>
<td>IP67</td>
<td>50</td>
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</table>

Design:
Reed switch with plastic housing. Function: PNP.
See specification for length of connection cable, the connector (M8) is preassembled ready for connection for the AMF sender unit.
Designed for ambient temperatures from -25 to +70 °C.

Application:
The reed switch (cylinder sensor) for T-slot cylinders signals the position of the piston, for example. It detects a ring magnet in the cylinder piston when it passes the position of the sensor and signals this via a switch signal.
Can be used on all standard cylinders made of non-magnetisable material.
The IP67-certified switch is water, dust and moisture-resistant.

Note:
Different lengths of the connection cable are available on request.
For further technical information please request the product data sheet.

Dimensions:
<table>
<thead>
<tr>
<th>Order no.</th>
<th>A</th>
<th>B</th>
<th>dia. D</th>
<th>G</th>
<th>L</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
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### No. 5020-M01

**Microswitch, plastic housing**

<table>
<thead>
<tr>
<th>Order no.</th>
<th>Stroke [mm]</th>
<th>Length of connection cable [mm]</th>
<th>Ingress protection</th>
<th>Weight [g]</th>
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<td>50</td>
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<td>554796</td>
<td>2.7</td>
<td>500</td>
<td>IP67</td>
<td>70</td>
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</table>

#### Design:

Microswitch with plastic housing. Function: PNP with mechanical contact.  
See specification for length of connection cable, the connector (M8) is preassembled ready for connection for the AMF sender unit.  
The stroke is a max. of 2.7 mm with an operating force of 1.2 N.  
Designed for ambient temperatures from 0 to +80 °C.

#### Application:

With their compact design, these microswitches are suitable, for example, as grip control for robot grippers or in detector applications.  
The mini stroke pushbutton has been designed for contact reliability and is ideal for applications in confined spaces.  
The sliding contact structure guarantees very quiet operation.  
The IP67-certified switch is water, dust and moisture-resistant.

#### Note:

Different lengths of the connection cable are available on request.  
For further technical information please request the product data sheet.

---

**Microswitch, plastic housing**

**Dimensions:**

<table>
<thead>
<tr>
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</table>
### Design:
Microswitch with V2A housing M10x0.75 and hardened striking surface, flush mountable.
Function: PNP with mechanical contact.
See specification for length of connection cable, the connector (M8) is preassembled ready for connection for the AMF sender unit.
The stroke is a max. of 0.5 mm with an operating force of 0.8 N. The static load of the probe tip (stainless steel ball) is a max. of 1500 N.
Designed for ambient temperatures from 0 to +80 °C.

### Application:
With their compact design, these microswitches are suitable, for example, as grip control for robot grippers or as positioning and contact control of workpieces in fixtures. These are particularly suitable for installation situations under cramped conditions.

### Note:
Two M10x0.75 fastening nuts are supplied as standard.
Different lengths of the connection cable are available on request.
For further technical information please request the product data sheet.

### Dimensions:

<table>
<thead>
<tr>
<th>Order no.</th>
<th>B</th>
<th>dia.D</th>
<th>G</th>
<th>G1</th>
<th>L</th>
<th>L1</th>
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No. 5020-M03
Microswitch IP67

<table>
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<th>Precision [mm]</th>
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<th>Ingress protection</th>
<th>Weight [g]</th>
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<td>500</td>
<td>IP67</td>
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</table>

Design:
Microswitch with V2A housing M10x0.75 and hardened striking surface, flush mountable.
Function: PNP with mechanical contact.
See specification for length of connection cable, the connector (M8) is preassembled ready for connection for the AMF sender unit.
The stroke is a max. of 0.3 mm with an operating force of 0.8 N. The static load of the stainless steel probe tip is a max. of 1500 N.
Designed for ambient temperatures from 0 to +80 °C.

Application:
With their compact design, these microswitches are suitable, for example, as grip control for robot grippers or as positioning and contact control of workpieces in fixtures. These are particularly suitable for installation situations under cramped conditions. The IP67-certified switch is water, dust and moisture-resistant.

Note:
Two M10x0.75 fastening nuts are supplied as standard.
Different lengths of the connection cable are available on request.
For further technical information please request the product data sheet.

Dimensions:

<table>
<thead>
<tr>
<th>Order no.</th>
<th>B</th>
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<th>dia. D1</th>
<th>G</th>
<th>G1</th>
<th>L</th>
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<tbody>
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<td>561</td>
<td>500</td>
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</table>
No. 5030ZA
Antenna extension

Design:
Antenna extension with magnetic base for better positioning of the antenna and for optimum transmission and reception power.
Connection cable: 1.5 metres
Connector: straight

Application:
The antenna extension is used to amplify the transmitted and received signals of the gateway. The magnetic base allows the antenna extension to be positioned and attached outside the electrical box (Faraday cage).

<table>
<thead>
<tr>
<th>Order no.</th>
<th>Length of connecting cable [m]</th>
<th>dia. D</th>
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<th>G</th>
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<th>H1</th>
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<td>M8</td>
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<td>9,5</td>
<td>110</td>
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</tbody>
</table>

No. 5030ZB
Spare battery and flat seal

Design:
Order No. 554860: 1 button cell and 1 flat seal for sender unit
Order No. 554861: 2 button cells and 1 flat seal for longlife sender unit

Application:
Spare battery and flat seal for the sender unit.
During a battery change, the flat seal must be replaced in order to further ensure the ingress protection IP 67.

Note:
Please note that the sender unit must be paired anew with the gateway after changing the battery.

<table>
<thead>
<tr>
<th>Order no.</th>
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<th>Seal [pcs]</th>
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</tbody>
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No. 5030ZP
Pairing stick

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<th>Length [mm]</th>
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</thead>
<tbody>
<tr>
<td>554802</td>
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<td>25</td>
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</tbody>
</table>

**Application:**
The pairing mode is activated on the sender unit using the pairing stick. A brief touch on the lateral contact area is sufficient to do this. Afterwards, the sender unit can be connected to the gateway via Bluetooth Low Energy (BLE 4.0).

No. 5030ZR
WLAN router

<table>
<thead>
<tr>
<th>Order no.</th>
<th>L x W x H</th>
<th>Weight [g]</th>
</tr>
</thead>
<tbody>
<tr>
<td>554801</td>
<td>57 x 57 x 18</td>
<td>18</td>
</tr>
</tbody>
</table>

**Design:**
TP-Link WLAN router up to 300 Mbits/s
WLAN frequency: 2.4 GHz
Interfaces: LAN (10/100 MBit/s) and Micro USB

**Application:**
The WLAN router is used to access the web interface and to monitor the state on the gateway. For this purpose, the router is connected to the gateway by cable. The pairing mode can then be started on the gateway, for example, by WLAN via smartphone or tablet.

**Note:**
We recommend positioning the WLAN router outside the electrical box (Faraday cage).
Radio sensors in use
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The prices are in EURO, ex-works, excluding VAT, packing, heating, postage and freight if not otherwise agreed. All prices valid on the day of delivery and are subject to change without notice. In case of technical changes or changes in the purchase price index, we reserve the right to make a minimum quantity surcharge of 10 EURO for cost reasons.

3. Tool costs
Unless other agreements have been reached, the tools fabricated for the purpose of executing the order shall remain our property in all cases, even if we have invoiced a tool cost component separately.

4. Payment
Unless otherwise stated on the invoice, the purchase price falls due for net payment within 30 days of the invoice date (without deduction of discount). Invoice amounts of below 300 EURO are due for payment immediately.

5. Delivery time
In case of unforeseen events (force majeure) outside our control, we reserve the right to change the delivery time. The amount corresponds to our interest rate for current account credits at our main bank: the German banks. Computer-readable sales orders are also processed by the European Central Bank. Moreover, in case of default following written notice to the customer, we shall be entitled to cease to fulfill our obligations until payments are received.

6. Set-off
The customer can only set-off with legally confirmed or undisputed counterclaims.

7. Right of withdrawal in case of delayed acceptance or payment and insolvency
If the customer fails to accept the goods in due time, we shall be entitled to set a new deadline. If the customer does not meet the deadline, we shall be entitled to sell the goods elsewhere and supply the customer on a reasonable longer term. Our right to withdraw from the contract also exists if the customer does not perform any of its obligations. Then, the price of the goods shall be due for payment immediately. In case of the customer's insolvency, we reserve the right to change the delivery time. The amount corresponds to our interest rate for current account credits at our main bank: the German banks. Computer-readable sales orders are also processed by the European Central Bank. Moreover, in case of default following written notice to the customer, we shall be entitled to cease to fulfill our obligations until payments are received.

8. Warranty
We stand by our high quality standards. We handle customer claims in a careful and efficient manner. In case of warranty claims, we will always find the best solution for you – whether it is a special version or a completely new development.

9. Liability
We shall be liable in accordance with the provisions of the German Civil Code for damages resulting from death, body injuries or damage to health. In case of damages resulting from other reasons, we shall be liable exclusively in the following cases: a) if we have given false information regarding the quality of the goods in knowledge of the_matters or circumstances that led to impossibility, it shall remain under an obligation to render the return service. The same applies if this circumstance occurs at a time when the customer is behind schedule with acceptance.

10. Samples/returns
Samples shall be provided only against payment. If samples or models are provided, a credit note shall be issued with the subsequent order if the order value is 125 EURO net or more. Goods can be returned only by agreement, although certain lab procedures are excluded from such return.

11. Retention of title
The goods shall remain our property unless full payment of all claims and/or until the cheques provided for this purpose are honoured. The demurrage of claims in an ongoing invoice, as well as. balancing the accounts and the recognition thereof does not affect the retention of title. The customer is entitled to sell the retained goods during the ordinary course of business. However, the customer is not entitled to pledge the goods or transfer them in any way of security. It shall assign its claim ensuing from the sale of goods to us, equivalent to the invoiced amount. The customer shall be required to advise us in due time if the goods are sold. At our request, the customer shall be obliged to state third-party debtors and we shall be entitled to report the fact and the assignment.

We reserve property rights and copyrights to all contractual documents such as drafts, drawings, calculations and cost estimates. Such documents must not be reproduced or disclosed to third parties without our consent. Any rights to patents, utility models etc. remain with us, even if such patents have not yet been liked. Our products are allowed to be replicated only with our written consent. Claims are fabricated for the purpose of drawings or calculations are not a basis for entitlement to compensation. If any third party property rights are not infringed by manufacture or delivery, if third party properties do not yet exist, the customer shall be entitled to stop manufacture and delivery immediately. The customer shall be obliged to reimburse us with all costs incurred and indemnify us from third party compensation claims. Compensation claims by the customer are impossible.

13. Warranty
If the customer agrees with us a particular quality of the goods, we shall base this agreement on our technical delivery specifications. If you have to deliver according to your customers' drawings, specifications, etc., the customer shall assure themselves that the order is technically suitable for the intended purpose. If, after the contract is concluded, the scope of goods or services is changed at the customer's request and this improves the quality or suitability of the goods, claims for defects on the part of the customer shall be ruled out, insofar as such requirements are causes by the customer to request changes.

The time at which the risk is transferred is decisive for the contractual state of the goods. Wear and tear or errors caused by ordinary use does not affect the warranty. The costs of the warranty claim shall be borne by the customer. The discovery of defects must be communicated to us immediately in writing. In the case of negligible deviations from the agreed quality, no claims for defects shall be made. In case of defective goods, the customer shall be entitled to either a replacement or a repair as we deem fit. If such subsequent performance fails, the customer shall be entitled to either reduce the purchase price or withdraw from the contract. Any further warranty claims are ruled out in case of negligence derived from the agreed quality, no claims for defects shall be recognized.

The discovery of defects must be communicated to us immediately in writing. In the case of recognizable defects, however, within 10 days of acceptance, in the case of non-recognizable defects necessarily after they become evident. The warranty is 12 months, starting with delivery of the goods ex-works.

14. Liability
With the exception of harm to life, body or health on account of a breach of duty by ourselves, our liability shall be limited to intent or gross negligence.

15. Place of fulfillment, place or jurisdiction and governing law
The place of fulfillment for all obligations ensuing from this contractual relationship is D-70734 Fellbach.

The place of jurisdiction for all legal disputes ensuing from the contractual relationship is the court responsible for the headquarters of Andreas MAIER GmbH & Co. KG.

All disputes ensuing from the contract or regarding the validity thereof shall be finally decided by a court of arbitration in accordance with the Court of Arbitration Ordinance of the German Committee for Arbitration Court Procedures and the Conciliation and Arbitration Arrangement of the International Chamber of Commerce, recourse to ordinary courts of law being excluded. The legal governing process, however, remains permissible.

German tax law govern (BGB and HGB). The applicability of the UN Convention on Contracts for the International Sale of Goods (CISG) is ruled out.

16. Severability clause
If individual provisions become legally invalid, the remaining provisions shall not be affected. The legally invalid provision shall be replaced by regulations that most closely correspond to the generic purpose of the contract with reasonable consideration for the mutual interests. The publication of these Terms of Sale, Delivery and Payment renders any earlier version invalid. This does not apply for any contracts concluded prior to announcement.