AMF-Gripper CATALOGUE 2020/2021

Toggle clamping and cleaning tools

Hydraulic clamping systems

Vacuum clamping systems

Magnetic clamping systems

Wireless sensoring systems

Toggle clamps

Single and multiple clamping systems

Standard clamping systems

Marking and cleaning tools

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Order no. 562306 - € 2,40

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WE GENERATE EXCITEMENT.

Since the foundation of the company in 1890 until today the goal has remained the same: the highest quality in products and services. Nevertheless, the circumstances, tasks and challenges have changed. Of course, by focusing on our core areas of expertise, we have long set new standards for innovative clamping technology - driven by our own development, the greatest possible flexibility and passion for individual solutions.

All this is only possible with committed and dedicated employees. Respectful interaction with others, personal development and measures for the wellbeing of each individual are therefore values that matter to us.

Consequently, our philosophy is a solid basis for our success, even in times of change: We are committed to the following principles that we follow by conviction and which always apply:

INDIVIDUAL DEVELOPMENT
Even if the product you need does not exist yet, we will find the right solution with you from special designs to new developments, everything is possible.

WARRANTY
If, despite our high quality standards, there is a complaint, it is dealt with in a spirit of fairness. Within the warranty period, we repair or replace the goods free of charge.

HIGHEST QUALITY STANDARDS
Careful manufacturing based on tradition since 1890, and naturally with a modern quality management system according to ISO 9001 for many years.

SHORT DELIVERY TIME
With over 5,000 articles in our warehouse, you can expect your order to be dispatched on the same day.

COMPETENT SERVICE FROM EXPERTS
Your local sales partner or the specialists in our team will find the right solution for every task.

MADE IN GERMANY
Our products are being developed and manufactured exclusively by our employees in Germany.

These Terms of Payment apply for companies, legal entities governed by public law and public bodies in Germany. If the circumstances of the contract lead to impossibility, it shall be governed by the provisions of the Grundgesetz (Basic Law) and of the German Civil Code (BGB). In case of recognisable defects, however, within 10-30 days of acceptance, in the case of non-recognisable defects immediately after they become evident. The warranty is 12 months, starting with delivery of the goods ex-works.

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 distributed to third parties without our consent.

For this reason, we have a few principles that we follow by conviction and which always apply:

1. Offer and contractual conclusion
All our offers are always subject to change without notice unless otherwise explicitly agreed. Our delivery dates are based on the latest version of our catalogue. Dimension and weight values, as well as illustrations, drawings and data, are non-binding and can be subject to change by us at any time. Delivery times cannot be ruled out and do not justify any compensation claims against us. Should circumstances, which we are unable to avoid despite reasonable effort in relation to the nature of the circumstances (e.g. operational interruption, delay in the delivery of important raw materials, non-availability of raw materials, natural catastrophes), impede the performance, we shall inform the customer about this upon delivery of the goods, the invoice shall also be deemed the order confirmation.

2. Prices
The prices are in EURO, ex-works, excluding VAT, freight, postage and insurance. Unless otherwise agreed our list prices valid on the day of delivery shall apply. For goods below 50 EURO net goods we must a minimum quantity surcharge of 10 EURO for cost reasons.

3. Test-costs
Unless any other agreements have been reached, the tests fabricated for the purpose of checking the order shall remain our property in all cases, even if we have invoiced a test cost separately.

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

5. Retention of title
In case of payment default, we shall be entitled to charge default interest. The amount corresponds to our interest rate for current account credits at our main bank, the minimum however being 5 percentage points above the relevant base interest rate applied by the European Central Bank. Moreover, in case of default we will issue written notice to the customer, we shall be entitled to cease to fulfill our obligations until payments are received.

6. Place of sale
The customer can set-off only with legally confirmed and undisputed counterclaims.

7. Rights of withdrawal
In case of acceptance and inadmissibility of the order If the customer fails to accept the goods in due time, we shall be entitled to set a reasonable period for delivery. If the goods remain unaccepted, we will store the goods in a warehouse of our choice and supply the customer on a reasonably longer term. Our costs to withdraw from the contract may be charged at cost price. The customer is entitled to demand damages for non-performance shall not be affected. If the customer fails to pay for the goods once payment is due, we shall be entitled, at the end of a reasonable period of grace we have set, to withdraw from the contract and demand the return of the goods already supplied.

8. Customer-specific fabrications/project fabrication terms (custom-fabrications)
Customer-specific fabrications require loading information on design, quantity etc. in writing and us to issue the order in time. For manufacturing reasons, we reserve the right to supply up to 10% above or below the order quantity. Technical modifications or corrections may be necessary due to any costs incurred. The return of customer-specific fabrications is impossible.

9. Delivery and packaging, transfer of risk
The delivery date is non-binding; although stated to the best of our knowledge. It is possible to extend the delivery time by one week if the delivery is accepted by us. Delivery is EXW (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 person, company or facility nominated to receive the shipment. This applies analogously to partial deliveries, if the customer is responsible for delivery and freight, the risk shall be transferred to the customer in the case of delayed acceptance.

In case of complaints, the customer shall inform us without delay and without any obligation to the cheapest or most expedient method. The customer agreement to the delivery being de lubricated, no further claim is possible for the customer. We shall charge a 15 EURO processing fee for unwanted that prompt us to pay the goods.

The packaging complies with the packaging ordinance. Disposal charges will be charged at cost price. The packaging cannot be taken back.

10. Performance impairment and/or impossibility
If we are hindered in the fulfillment of our obligation due to the onset of unforeseeable circumstances, which we are unable to avoid despite reasonable effort in relation to the nature of the circumstances (e.g. operational interruption, delay in the delivery of important raw materials, non-availability of raw materials, natural catastrophes), we shall inform the customer of this accordingly. In the event of non-availability of raw materials or services it is not rendered reasonably difficult or impossible.

If we estimate in the event of unforeseeable circumstances, which we are unable to avoid despite reasonable effort in relation to the nature of the circumstances (e.g. operational interruption, delay in the delivery of important raw materials, non-availability of raw materials, natural catastrophes), we shall inform the customer of this accordingly. In the event of non-availability of raw materials or services it is not rendered reasonably difficult or impossible.

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In case of recognisable defects, however, within 10-30 days of acceptance, in the case of non-recognisable defects immediately after they become evident. The warranty is 12 months, starting with delivery of the goods ex-works.

11. Liability
With the exception of harm to life, body or health on an account of breach of duty by ourselves, our liability shall be limited to intent or gross negligence. In case of recognisable defects, however, within 10-30 days of acceptance, in the case of non-recognisable defects immediately after they become evident. The warranty is 12 months, starting with delivery of the goods ex-works.

12. Place of fulfilment, place or jurisdiction and governing law
The place of fulfilment for all obligations ensuing from this contractual relationship is D-70734 Fellbach. The place of performance is Fellbach. If any provision of this contract is invalid or lacks enforceability, the remainder of the contract is valid.

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 we have to deliver according to customer drawings, specifications, samples, etc., the customer shall assume the risk for suitability for the intended purpose. If, after the contract is concluded, the scope of delivery deviates from these agreements, the customer is required to inform us about such deviations and to rectify the dangers that may arise through any impairment of the quality. Compensation claims by the customer are impossible.

In case of recognisable defects, however, within 10-30 days of acceptance, in the case of non-recognisable defects immediately after they become evident. The warranty is 12 months, starting with delivery of the goods ex-works.

14. Place of fulfilment, place or jurisdiction and governing law
The place of performance for all obligations ensuing from this contractual relationship is D-70734 Fellbach. The place of performance is Fellbach. If any provision of this contract is invalid or lacks enforceability, the remainder of the contract is valid.

15. Place of fulfilment, place or jurisdiction and governing law
The place of performance for all obligations ensuing from this contractual relationship is D-70734 Fellbach. The place of performance is Fellbach. If any provision of this contract is invalid or lacks enforceability, the remainder of the contract is valid.

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 reflect the economic purpose of the contract with reasonable consideration for the mutual interests. The publication of these Terms of Sale, Delivery and Payment are considered agreed.

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 reflect the economic purpose of the contract with reasonable consideration for the mutual interests. The publication of these Terms of Sale, Delivery and Payment are considered agreed.
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THE AMF GRIPPER AND YOUR MACHINES WILL BECOME A SURE-FIRE SUCCESS!

The modularly designed gripper system from AMF enables the automated handling of workpieces during the machining process on a machine tool.

Fully automated workpiece changes, longer machine running times and thus unmanned production shifts become possible without any high investments in a complete robot cell or large machining centres.

Gripper inserts can be adapted to the workpiece size concerned by means of displacement.

Shaft interface suitable for Weldon seat and hydraulic chuck.

Simple adjustment of the gripping force by means of a pressure control valve

Compensation unit for optimum protection of all components and compensation of tolerances and irregularities (Z: 5 mm, C: +/- 3°)

Simple adjustment of the gripping force by means of two throttles

Mechanical protection of the gripper inserts

PNEUMATIC

HYDRAULIC
THE BENEFITS AT A GLANCE:

- It is unloaded directly from the tool magazine of the processing machine
- The gripper is directly actuated hydraulically with cooling lubricant via the machine spindle or pneumatically by the applied compressed air as an option
- Very high gripping forces, easily adjustable by means of a setting screw
  - up to 1000 N in the hydraulic version,
  - up to 700 N in the pneumatic version.
- Prepared for the AMF Wireless sensoring systems
- Surfaces are burnished for steel parts and anodised for aluminium parts

CALCULATION OF THE GRIPPING FORCE

**Positive Contact with Gripper Insert - Prisma (ORDER NO. 538140)**

\[ F_{sp} = \frac{m \times (g + a)}{2} \times \text{tanga} \times s \]

**Frictionally Connected with Gripper Insert - Finger (ORDER NO. 538165)**

\[ F_{sp} = \frac{m \times (g + a)}{2 \times \mu} \times s \]

**Frictionally Connected with Gripper Insert - Prisma/Grooved (ORDER NO. 538140)**

\[ F_{sp} = \frac{m \times (g + a)}{2 \times \mu} \times s \]

**Sign Legend**

- **F<sub>sp</sub>** Clamping/gripping force [N]
- **m** Workpiece mass [kg]
- **g** Gravity (~ 10 m/s²)
- **a** Acceleration[m/s²] from the dynamic movement
- **\(\mu\)** Friction coefficient between workpiece and gripper inserts
- **\(\alpha\)** Draft of the gripper insert
- **s** Safety factor
No. 1650-210
Gripper without compensation unit, pneumatic
For part handling in the machine tool.

**Application:**
The gripper achieves a fully automatic workpiece change during the machining process on a machine tool. It is changed from the tool magazine of the milling machine and enables workpiece handling between the part storage and the clamping device.

It is actuated by means of compressed air, which is routed through the machine spindle. The gripper closes pneumatically and opening takes place by means of spring force.

**Advantage:**
- The gripping force can easily be adjusted by means of a pressure control valve and thereby adapted to the relevant requirements of the workpieces
- Easily exchangeable gripper inserts for handling various workpiece geometrics
- Easy implementation of unmanned shifts, which means greater machine utilisation and more flexibility
- Tremendous reduction of set-up times for smaller to medium-sizes batches

**Note:**
- Max. permitted speed: 20 [rpm]
- Suitable for Weldon seat and hydraulic expansion chucks
- Designed for ambient temperatures from 0°C to 60°C
- Transportation of workpieces up to a max. of 8 kg
- The standard supply includes three replacement seals
- Available in two designs for workpiece sizes up to a max. of 50 mm or 70 mm

**Dimensions:**

<table>
<thead>
<tr>
<th>Order no.</th>
<th>dia. D [mm]</th>
<th>dia. D1 [mm]</th>
<th>Interference zone ØDs [mm]</th>
<th>L1 [mm]</th>
<th>L3 [mm]</th>
<th>Gripper extension L5 [mm]</th>
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<td>16</td>
<td>97,5</td>
<td>53</td>
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</table>

Subject to technical alterations.
No. 1650-213
Gripper with compensation unit, pneumatic
For part handling in the machine tool.

Application:
The gripper achieves a fully automatic workpiece change during the machining process on a machine tool. It is changed from the tool magazine of the milling machine and enables workpiece handling between the part storage and the clamping device.

It is actuated by means of compressed air, which is routed through the machine spindle. The gripper closes pneumatically and opening takes place by means of spring force. The integrated spring-loaded CX counterbalance function protects the tool, machine spindle and workpiece, and compensates for tolerances and unevenness.

Advantage:
- The counterbalance function (Z: 5 mm, C: +/- 3°) ensures that all components are optimally protected and tolerances and unevenness are compensated
- The gripping force can easily be adjusted using the pressure control valve and thereby adapted to the relevant requirements of the workpieces
- Easily exchangeable gripper inserts for handling various workpiece geometries
- Easy implementation of unmanned shifts, which means greater machine utilisation and more flexibility
- Tremendous reduction of set-up times for smaller to medium-sizes batches

Note:
- Max. permitted speed: 20 [rpm]
- Suitable for Weldon seat and hydraulic expansion chucks
- Designed for ambient temperatures from 0°C to 60°C
- Transportation of workpieces up to a max. of 8 kg
- The standard supply includes three replacement seals
- Available in two designs for workpiece sizes up to a max. of 50 mm or 70 mm

Dimensions:

<table>
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<tr>
<th>Order no.</th>
<th>C [°]</th>
<th>dia. D [mm]</th>
<th>dia. D1 [mm]</th>
<th>Interference zone ØDs [mm]</th>
<th>L1 [mm]</th>
<th>L3 [mm]</th>
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<td>97,5</td>
<td>60,5</td>
<td>55</td>
<td>100</td>
<td>5</td>
</tr>
</tbody>
</table>
For part handling in the machine tool.

**Order no.** | **min. operating pressure P** [bar] | **max. operating pressure P** [bar] | **Stroke** [mm] | **Gripping force F** [N] | **Weight** [g]  
---|---|---|---|---|---  
558639 | 25 | 30 | 23 | 250, 500, 1000 | 1762  
558638 | 35 | 40 | 23 | 250, 500, 1000 | 1762  
557744 | 45 | 50 | 23 | 250, 500, 1000 | 1762  
560831 | 25 | 30 | 23 | 250, 500, 1000 | 1820  
560829 | 35 | 40 | 23 | 250, 500, 1000 | 1820  
560827 | 45 | 50 | 23 | 250, 500, 1000 | 1820

**Application:**
The gripper achieves a fully automatic workpiece change during the machining process on a machine tool. It is changed from the tool magazine of the milling machine and enables workpiece handling between the part storage and the clamping device.

It is actuated via cooling lubricant air, which is routed through the machine spindle.

The gripper closes hydraulically and opening takes place by means of spring force.

**Features:**
Depending on the machine used and the operating pressure of the cooling lubricant, there are three pre-configured grippers available. Please note the minimum and maximum operating pressure.

**Advantage:**
- The gripping force can easily be adjusted by means of throttles and thereby adapted to the relevant requirements of the workpieces
- Easily exchangeable gripper inserts for handling various workpiece geometries
- Easy implementation of unmanned shifts, which means greater machine utilisation and more flexibility
- Tremendous reduction of set-up times for smaller to medium-sizes batches

**Note:**
- Max. permitted speed: 20 [rpm]
- Suitable for Weldon seat and hydraulic expansion chucks
- Designed for ambient temperatures from 0°C to 60°C
- Transportation of workpieces up to a max. of 8 kg
- The standard supply includes three replacement seals
- Available in two designs for workpiece sizes up to a max. of 50 mm or 70 mm

**Dimensions:**

| Order no. | dia. D [mm] | dia. D1 [mm] | Interference zone ØD1 [mm] | L1 [mm] | L3 [mm] | Gripper extension L5 [mm]  
---|---|---|---|---|---|---  
558639 | 80 | 16 | 80,0 | 53 | 50 | 80  
558638 | 80 | 16 | 80,0 | 53 | 50 | 80  
557744 | 80 | 16 | 80,0 | 53 | 50 | 80  
560831 | 80 | 16 | 97,5 | 53 | 50 | 100  
560829 | 80 | 16 | 97,5 | 53 | 50 | 100  
560827 | 80 | 16 | 97,5 | 53 | 50 | 100

Subject to technical alterations.
No. 1650-223
Gripper with compensation unit, hydraulic
For part handling in the machine tool.

<table>
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<tr>
<th>Order no.</th>
<th>min. operating pressure P</th>
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<th>Gripping force F</th>
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Application:
The gripper achieves a fully automatic workpiece change during the machining process on a machine tool. It is changed from the tool magazine of the milling machine and enables workpiece handling between the part storage and the clamping device. It is actuated via cooling lubricant air, which is routed through the machine spindle. The gripper closes hydraulically and opening takes place by means of spring force. The integrated spring-loaded CX counterbalance function protects the tool, machine spindle and workpiece, and compensates for tolerances and unevenness.

Features:
Depending on the machine used and the operating pressure of the cooling lubricant, there are three pre-configured grippers available. Please note the minimum and maximum operating pressure.

Advantage:
- The counterbalance function (Z: 5 mm, C: +/- 3°) ensures that all components are optimally protected and tolerances and unevenness are compensated
- The gripping force can easily be adjusted by means of throttles and thereby adapted to the relevant requirements of the workpieces
- Easily exchangeable gripper inserts for handling various workpiece geometries
- Easy implementation of unmanned shifts, which means greater machine utilisation and more flexibility
- Tremendous reduction of set-up times for smaller to medium-sizes batches

Note:
- Max. permitted speed: 20 [rpm]
- Suitable for Weldon seat and hydraulic expansion chucks
- Designed for ambient temperatures from 0°C to 60°C
- Transportation of workpieces up to a max. of 8 kg
- The standard supply includes three replacement seals
- Available in two designs for workpiece sizes up to a max. of 50 mm or 70 mm

Dimensions:

<table>
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<tr>
<th>Order no.</th>
<th>C</th>
<th>dia. D</th>
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<td>80,0</td>
<td>60,5</td>
<td>55</td>
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No. 1600
Gripper inserts for gripper - prism
Delivered in pairs.
Hardened steel with wear-resistant surface.
First side with horizontal and vertical prism, second side ribbed.

<table>
<thead>
<tr>
<th>Order No.</th>
<th>L1 [mm]</th>
<th>L2 [mm]</th>
<th>L3 [mm]</th>
<th>L4 [mm]</th>
<th>A* [mm]</th>
<th>dia. D* [mm]</th>
<th>Weight [g]</th>
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<td>12</td>
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<td>12.5-56.0</td>
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</tr>
</tbody>
</table>

* Gripper with 80 mm gripper extension (L5): A=0-40 mm and ØD = 12.5 - 39 mm
* Gripper with 100 mm gripper extension (L5): A=0-59 mm and ØD = 12.5 - 56 mm

Application:
For quick and safe parts handling in the machine tool using the AMF gripper.
The parts are mounted to the gripper carrier and mechanically secured.

Note:
The grip inserts are suitable for all AMF grippers in the No. 1650 series.
These can be adapted to the workpiece size concerned by displacement on the gripper carrier.

No. 1600
Gripper inserts for gripper - universal
Delivered in pairs.
Hardened steel with wear-resistant surface.
First side with four contact surface with ribbed surface, second side with four contact surfaces from soft plastic.

<table>
<thead>
<tr>
<th>Order No.</th>
<th>L1 [mm]</th>
<th>L2 [mm]</th>
<th>L3 [mm]</th>
<th>L4 [mm]</th>
<th>A* [mm]</th>
<th>Weight [g]</th>
</tr>
</thead>
<tbody>
<tr>
<td>S38181</td>
<td>50</td>
<td>30</td>
<td>10</td>
<td>9</td>
<td>0-54</td>
<td>220</td>
</tr>
</tbody>
</table>

* Gripper with 80 mm gripper extension (L5): A=0-34 mm
* Gripper with 100 mm gripper extension (L5): A=0-54 mm

Application:
For quick and safe parts handling in the machine tool using the AMF gripper.
The parts are mounted to the gripper carrier and mechanically secured.

Note:
The gripper inserts are suitable for all AMF grippers in the series No. 1650.
They can be adapted to the workpiece size concerned by displacement on the gripper carrier.
Gripper inserts for gripper - finger

Hardened steel with wear-resistant surface.
Hardened pin with flat clamping surface on one side.

**Application:**
For quick and safe parts handling in the machine tool using the AMF gripper.
The parts are mounted to the gripper carrier and mechanically secured.

**Note:**
The gripper inserts are suitable for all AMF grippers in the series No. 1650.
They can be adapted to the workpiece size concerned by displacement on the gripper carrier.
The set includes:
- 2 x grippers - Finger left
- 2 x grippers - Finger right

<table>
<thead>
<tr>
<th>Order no.</th>
<th>L1 [mm]</th>
<th>L2 [mm]</th>
<th>L3 [mm]</th>
<th>A* [mm]</th>
<th>Weight [g]</th>
</tr>
</thead>
<tbody>
<tr>
<td>538165</td>
<td>16</td>
<td>29</td>
<td>2.5</td>
<td>7.5 - 70</td>
<td>70</td>
</tr>
</tbody>
</table>

* Gripper with 80 mm gripper extension (L5): A=7.5 - 50 mm
Gripper with 100 mm gripper extension (L5): A=7.5 - 70 mm

Subject to technical alterations.
No. 1600R
Gripper inserts for gripper - blanks
for customised post-processing.

<table>
<thead>
<tr>
<th>Order no.</th>
<th>L1 [mm]</th>
<th>L2 [mm]</th>
<th>L3 [mm]</th>
<th>L4 [mm]</th>
<th>L5 [mm]</th>
<th>Material</th>
<th>Weight [g]</th>
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</thead>
<tbody>
<tr>
<td>561704</td>
<td>50</td>
<td>80</td>
<td>8</td>
<td>12</td>
<td>30</td>
<td>C45</td>
<td>950</td>
</tr>
<tr>
<td>561703</td>
<td>50</td>
<td>80</td>
<td>8</td>
<td>12</td>
<td>30</td>
<td>AW-6060</td>
<td>350</td>
</tr>
</tbody>
</table>

Application:
Aluminium or steel blanks for gripper inserts for customised post-processing.
The interface to the gripper is already integrated in the blanks.
The geometry of the blanks can be adapted to the workpiece accordingly.

Note:
The blanks for the gripper inserts are suitable for all AMF grippers in the series No. 1650.

On request:
Customized gripper inserts are available upon request.

Clamping force if the length of the gripper inserts change (L2):

![Graph showing clamping force vs. length of gripper inserts](image)

Can be removed to the desired size
Unmanned shifts are now possible. The AMF gripper holds the workpieces between the workpiece storage and the three collets.

Clamping system and storage are clamped by means of zero-point clamping system.

After processing, the finished workpieces are placed into the workpiece storage. This is clamped by means of the zero-point clamping system and can therefore be replaced quickly and individually.
Gripper inserts for gripper - wireless sensing systems

No. 1600

<table>
<thead>
<tr>
<th>Order no.</th>
<th>L1 [mm]</th>
<th>L2 [mm]</th>
<th>L3 [mm]</th>
<th>L4 [mm]</th>
<th>Weight [g]</th>
</tr>
</thead>
<tbody>
<tr>
<td>561709</td>
<td>30</td>
<td>30</td>
<td>12.3</td>
<td>12</td>
<td>375</td>
</tr>
</tbody>
</table>

Application:
The Wireless sensing systems gripper inserts are equipped with a microswitch and act as a signal transmitter (sensor), which is connected by cable to a transmitter, the Sender-Unit gripper switch (No. 5020-GM01). The microswitch detects the presence of a gripped workpiece.

Different states of the AMF gripper can be queried with the aid of the AMF Wireless sensing systems to ensure reliable processing. The Wireless sensing systems transmit the sensor signal to a receiver (Gateway No.5010G) via Bluetooth Low Energy (BLE 4.0) by means of the Sender-Unit gripper switch.

Note:
Accessories, such as gateway, pairing stick and antenna extension, can be found in the AMF Wireless sensing systems catalogue.
The Wireless sensing systems inserts are delivered in pairs.
You can find more information in the AMF “Wireless sensing systems” product catalogue!
Low-cost automation, easy to implement. The AMF gripper is unloaded from the tool storage of the milling machine and transports the workpieces between the clamping system and workpiece storage before and after processing.
Zero point clamping technology to perfection

+ Outstanding price-performance ratio
+ Drastically reduced tooling time
+ Immediate improvement of productivity
+ Repeat accuracy < 5um
+ Stainless steel
+ Form fit
WE GENERATE EXCITEMENT.

Since the founding of the company in 1950 until today the goal has remained the same: the highest quality in products and services. Nevertheless, the circumstances, tasks and challenges have changed. By focusing on our core areas of expertise, we have long set new standards for innovative clamping technology - driven by our own development, the greatest possible flexibility and passion for individual solutions.

All this is only possible with committed and satisfied employees. Respectful interaction with others, personal development and measures for the wellbeing of each individual are therefore values that matter to us.

PLEDGES THAT COUNT IN EVERYDAY LIFE

These Terms of Payment apply for companies, legal entities governed by public law and public-law limited liability companies. The terms and conditions are applied exclusively on the basis of the following conditions. Any deviating purchasing conditions of the customer not replying to the circumstances or we waive our right to 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 offers are always subject to change without notice unless otherwise explicitly agreed. Our delivery terms are based on the latest version of our catalogue. Dimension and weight values, as well as illustrations, drawings and data are nonbinding and can be changed at any time. For this reason, deviations cannot be held

2. Prices

The prices in EURO, ex-works, excluding VAT, freight, postage and insurance. Unless otherwise agreed our list prices valid on the day of delivery shall apply. For goods below 50 EURO gross net, we must make a minimum quantity surcharge of 10 EURO for cost reasons.

3. Test-casts

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

4. Payment

Unless otherwise stated on the invoice, the purchase price due for delivery is to be paid within 30 days of the invoice date (without deduction of discount). Invoice amounts of below 50 EURO are due for payment immediately.

5. Warranties

In case of warranty default, we shall be entitled to charge default interest. The amount corresponds to our interest rate for current account credits at our main bank. The minimum however being 5 percentage points above the relevant base interest rate applied by the European Central Bank. Moreover, in case of default following notice to the customer, we shall be entitled to cease to fulfill our obligations until payments are received.

6. Set-off

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

7. Right of set-off in the event of non-payment or insolvency

If the customer fails to accept the goods in due time, we shall be entitled to set a reasonable period of grace for acceptance. If the goods are not accepted within the time set or supplied after a reasonable period of time, we shall be entitled to withdraw from the contract and demand the return of the goods.

8. Customer-specific fabrications

Customer-specific fabrications require lending information on design, quantity etc. in written form at the time of ordering. For manufacturing reasons, we reserve the right to supply up to 10% above or below the order quantity. Technical modifications or cancellations are subject to any costs incurred. The return of customer-specific fabrications is impossible.

9. Delivery and packaging, transfer of risk

The delivery date is non-binding, although stated to the best of our knowledge. It is subject to acceptance correct, defect-free and complete deliveries. The stated delivery date shall not begin until the order is accepted by us. Delivery is EXW (ex works) in accordance with Incoterms 2010. The costs are borne by the customer. The risk is transferred to the customer when the goods are passed to the person, company or facility nominated to execute the shipment. This applies also to partial deliveries, if the customer agrees with us to take over the responsibility for delivery and storage. Risk transfers to the customer in the case of delayed acceptance. If the goods are defective, the customer shall be entitled to the customer's right to demand the return of the goods.

10. Warranty

If objects are fabricated according to drawings or samples, the customer shall warrant that any third party property rights are not infringed by manufacture or delivery. If a third party forbids manufacture and delivery on account of property rights, we 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.

11. Liability

If the customer agrees with us a particular quality of the goods, we shall base this agreement on our technical delivery specifications. If we have to deliver according to customer drawings, specifications, samples etc., the customer shall assume the risk for suitability for the intended purpose. If, after the contract is concluded, the scope of performance changes, the prices are to be adjusted accordingly. In case of failure following written notice to the customer, we shall be entitled to cease to fulfil our obligations until payments are received.

12. Severability clause

These Terms of Sale, Delivery and Payment are subject to German law. All disputes ensuing from the contract or regarding the validity thereof shall be finally settled by the Austrian Commercial Court in Vienna. The competition law of the German-speaking countries shall apply. If the customer fails to accept the goods in due time, we shall be entitled to withdraw from the contract and demand the immediate return of the goods. The return of customer-specific fabrications is 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 we have to deliver according to customer drawings, specifications, samples etc., the customer shall assume the risk for suitability for the intended purpose. If, after the contract is concluded, the scope of performance changes, the prices are to be adjusted accordingly. In case of failure following written notice to the customer, we shall be entitled to cease to fulfil our obligations until payments are received.

14. Liability

If the customer agrees with us a particular quality of the goods, we shall base this agreement on our technical delivery specifications. If we have to deliver according to customer drawings, specifications, samples etc., the customer shall assume the risk for suitability for the intended purpose. If, after the contract is concluded, the scope of performance changes, the prices are to be adjusted accordingly. In case of failure following written notice to the customer, we shall be entitled to cease to fulfil our obligations until payments are received.

15. Payment of all obligations ensuing from this contractual relationship is due D-70827 Feuerbach, Germany.

16. Severability clause

If individual provisions become legally invalid, the remaining provisions shall not be affected. The legally invalid provisions shall be replaced by replacement provisions that as closely as possible reflect the economic purpose of the contract with reasonable consideration for the mutual interests. These substitution of Terms of Sale, Delivery and Payment renders all previous versions invalid. This does not apply for any contracts concluded prior to this announcement.

Terms of sale, delivery and payment

Sample orders shall be provided only against payment. If samples or models are provided, a credit note shall be issued to the subsequent order if the order value is D-750 EURO minimum. Goods can be returned only by agreement, although customer fabrications are excluded from such return. In the case of returns for which we are not responsible (e.g. incorrect order), we shall charge a processing fee of 10%, the minimum value, however, being 75 EURO.

17. Right of set-off

The goods shall remain our property until full payment of all claims and/or until the fulfillment of all of the customer’s obligations. We reserve the right to set-off against any claim that the customer is entitled to against us, even after the transfer of risk. If the customer consents to our claims, we shall assign our claim arising from the selling of the remaining goods to us in advance. The customer shall be entitled to set-off the claim to the extent that it has fulfilled the contract obligations towards us. At our request the customer shall be obliged to state to third-party debtors and we shall be entitled to report this fact and the assignment.

18. Right of retention

We reserve property rights and copyrights to all contractual documents such as, drafts, drawings, calculations and cost estimates. Such documents must not be copied, used for further fabrication or passed on to third parties without our consent. Any rights to patents, utility models etc. and weather as such patents have not yet been granted.

19. Provisional delivery

If objects are fabricated according to drawings or samples, the customer shall warrant that any third party property rights are not infringed by manufacture or delivery. If a third party forbids manufacture and delivery on account of property rights, we 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.

20. Warranty

If objects are fabricated according to drawings or samples, the customer shall warrant that any third party property rights are not infringed by manufacture or delivery. If a third party forbids manufacture and delivery on account of property rights, we 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.

This does not apply for any contracts concluded prior to this announcement.

21. Liability

If the customer agrees with us a particular quality of the goods, we shall base this agreement on our technical delivery specifications. If we have to deliver according to customer drawings, specifications, samples etc., the customer shall assume the risk for suitability for the intended purpose. If, after the contract is concluded, the scope of performance changes, the prices are to be adjusted accordingly. In case of failure following written notice to the customer, we shall be entitled to cease to fulfil our obligations until payments are received.