MUBEA
ASSEMBLY TOOLS
for connecting products
Mubea is an innovative lightweight specialist for high-capacity springs and associated products. As a family-owned company managed by its owner, Mubea has been the market leader in many segments of the automotive industry and a supplier to automotive companies worldwide since 1916.

With more than 15,000 employees at 50 production, development and sales locations worldwide, we are generating a turnover of 2.4 billion euros per year. Our company’s growth is based on our global presence and technological innovation. Supported by optimized design technologies, new materials and state-of-the-art production methods, we create innovative solutions to reduce the weight of vehicles, thus supporting the automotive industry in reducing fuel consumption and emissions sustainably. Mubea sells more than one million connecting products annually worldwide.

Business Unit Spring Band Clamps

In every vehicle, a number of technical systems are connected by means of hose and spigot. A minor defect in one of those connections may result in the failure of the entire system. High-quality connecting parts help to prevent this.

The Mubea spring band clamp is a self-tensioned connecting part. Due to the use of tempered steel, it is highly flexible and can continually adapt to the changing characteristics of hose and spigot. Having a nearly constant tension force, it guarantees a sealing process without any leakage and damage to the hose and/or spigot. Due to the broad range of different types of spring band clamps and assembly variations, Mubea spring band clamps offer a great variety of applications.

We manufacture our Mubea spring band clamps entirely “in-house” at our production sites in Europe, Asia as well as North and South America (Nafta, Mercosur) where we only use state-of-the-art production facilities comprising high-precision stamping and forming operations as well as hardening and coating processes. Our product range also includes pre-opened spring band clamps.

The quality of our spring band clamps is monitored by CAQ-systems during the entire production process. Mubea is certified according to IATF 16949 and ISO 14001 and is audited at regular intervals.

Assembly Tools for Spring Band Clamps

At Mubea, customer service starts with understanding the individual needs and requirements of our customers. A special service offered is the sale of tools especially developed for the assembly of spring band clamps and ear clamp.

Mubea assembly tools are designed in accordance with ergonomic aspects, ensuring a fast and safe assembly. Deformations and surface damage to the connecting products and ear clamp itself during the assembly process are thus avoided. Due to the adaptation to the different dimensions and variations of our connecting products, the use of Mubea assembly tools can save time and offer a maximum of safety. In order to comply with the requirements of the automotive industry, we recommend our customers to use Mubea assembly tools.
Mubea hand pliers are available in different lengths and types. Each kind of spring band clamp has its belonging plier body, locking lever (with bolt), inserts and handles.

**The Inserts**
The spring band clamp is located in the inserts for opening. The correct insert must be selected to fit the type of spring band clamp and assembly tool. For fastening the insert to the pliers, there are three methods:

- **Thread**: The inserts can be turned and set as required
- **O-ring**: The inserts can be turned with slight resistance
- **Octagon**: The inserts can be set in 45° stages

**The Locking Lever**
The locking lever holds the assembly tool without effort in the position of the maximum opening diameter of the spring band clamp.

**The Handles**
All hand pliers are fitted with standard plastic-lined handles.

**The Plier Body**
The plier body is available in various lengths and angles.

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**Product Portfolio**

1. **Hand Pliers**
   Mubea hand pliers are all-purpose tools. They can be used for serial production at the assembly line and for fitting and demounting individual spring band clamps.

2. **Pneumatic Tools**
   Mubea pneumatic tools are used for demounting spring band clamps without effort and can be utilized on semi- and fully automated assembly lines.

3. **Release Tools**
   Mubea release tools are used for the easy release of clipless spring band clamps pre-positioned on hose assemblies.

Assembly tools, inserts and spring band clamps are not necessarily as the pictorial representation.
MUBEA HAND PLIERS FOR

STANDARD SPRING BAND CLAMPS
8,4 mm wide

hand pliers subject to technical modifications

<table>
<thead>
<tr>
<th>can be used for spring band clamp diameters</th>
<th>dn ≤ 13,5 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>plier length [mm]</td>
<td>190</td>
</tr>
</tbody>
</table>

order number
hand pliers with threaded insert
insert can be turned and set as required
GO 191/0-E131

note: these pliers are also suitable for low profile spring band clamps < dn 18 mm

STANDARD SPRING BAND CLAMPS
12 mm wide

insert E11
insert E12
insert E13

can be used for spring band clamp diameters

<table>
<thead>
<tr>
<th>dn 13 - 30 mm</th>
<th>dn 13 - 50 mm</th>
<th>dn 13 - 90 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>plier length [mm]</td>
<td>190</td>
<td>280</td>
</tr>
</tbody>
</table>

order number
hand pliers with threaded insert
insert can be turned and set as required
GO 191/0-E11
GO 281/0-E11
GO 321/0-E11

hand pliers with O-ring insert
insert can be turned with slight resistance
GO 192/0-E12
GO 282/0-E12
GO 322/0-E12

hand pliers with octagonal insert
insert can be set in 45° stages
GO 193/0-E13
GO 283/0-E13
GO 323/0-E13
### STANDARD SPRING BAND CLAMPS

15 mm wide

<table>
<thead>
<tr>
<th>can be used for spring band clamp diameters</th>
<th>dn 13 - 30 mm</th>
<th>dn 13 - 50 mm</th>
<th>dn 13 - 90 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>plier length [mm]</td>
<td>190</td>
<td>280</td>
<td>320</td>
</tr>
<tr>
<td>order number</td>
<td>GO 191/0-E21</td>
<td>GO 281/0-E21</td>
<td>GO 321/0-E21</td>
</tr>
</tbody>
</table>

- **Hand pliers with threaded insert**
  - Insert can be turned and set as required
  - Order number: GO 191/0-E21

- **Hand pliers with O-ring insert**
  - Insert can be turned with slight resistance
  - Order number: GO 192/0-E22

- **Hand pliers with octagonal insert**
  - Insert can be set in 45° stages
  - Order number: GO 193/0-E23

### LOW PROFILE SPRING BAND CLAMPS

12 mm wide

<table>
<thead>
<tr>
<th>can be used for spring band clamp diameters</th>
<th>dn 13 - 18 mm</th>
<th>dn 13 - 50 mm</th>
<th>dn 13 - 90 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>plier length [mm]</td>
<td>190</td>
<td>280</td>
<td>320</td>
</tr>
<tr>
<td>order number</td>
<td>GO 191/0-E31</td>
<td>GO 291/0-E31</td>
<td>GO 321/0-E31</td>
</tr>
</tbody>
</table>

- **Hand pliers with threaded insert**
  - Insert can be turned and set as required
  - Order number: GO 191/0-E31

- **Hand pliers with O-ring insert**
  - Insert can be turned with slight resistance
  - Order number: GO 192/0-E32-2

- **Hand pliers with octagonal insert**
  - Insert can be set in 45° stages
  - Order number: GO 193/0-E33

*Hand pliers subject to technical modifications.*
MAO SPRING BAND CLAMPS

12 mm wide

<table>
<thead>
<tr>
<th>can be used for spring band clamp diameters</th>
<th>dn 13 - 19 mm</th>
<th>dn 13 - 19 mm</th>
<th>dn &gt; 19 mm</th>
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<tbody>
<tr>
<td>plier length [mm]</td>
<td>190</td>
<td>280</td>
<td>280</td>
</tr>
</tbody>
</table>

order number

hand pliers with threaded insert
insert can be turned and set as required

GO 191/0-E61  GO 281/0-E61  GO 281/0-E71

CLIPLESS PRE-OPENED SPRING BAND CLAMPS

release tools

<table>
<thead>
<tr>
<th>can be used for spring band clamp diameters</th>
<th>dn 13 - 90 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>type of tool</td>
<td>release tool</td>
</tr>
</tbody>
</table>

order number

universal release tool for clipless pre-opened spring band clamps 12 and 15 mm wide
RT210/2/85 006

screwdriver release tool for clipless pre-opened spring band clamps 12 and 15 mm wide
RT189/2/85 001

hand pliers subject to technical modifications
PNEUMATIC TOOLS
standard spring band clamps

MUBEA TOOLS

PNEUMATIC TOOLS
low profile spring band clamps

| can be used for spring band clamp diameters | dn 25 - 50 mm | dn 25 - 70 mm | dn 20 - 40 mm |
| width | 12 mm | 12 mm | 15 mm |

| order number |
| gripping tool | GR 704-E10 | 1) | GR 704-E10 |
| inliner | 1) | ILT 705-E10 | ILT 705-E10 |

| can be used for spring band clamp diameters | dn 13 - 18 mm | dn 19 - 50 mm | dn 19 - 70 mm | dn 20 - 40 mm |
| width | 12 mm | 12 mm | 12 mm | 15 mm |

| order number |
| gripping tool | GR 704-E30 | GR 704-E40 | 1) | 1) |
| inliner | 1) | 1) | ILT 705-E40 | ILT 705-E40 |

1) This table is for guidance only. We would be pleased to define the appropriate choice with you. Further applications available upon request.

hand pliers subject to technical modifications
MUBEA HAND PLIERS FOR

SPRING BAND RINGS

12 mm wide

<table>
<thead>
<tr>
<th>can be used for spring band clamp diameters</th>
<th>dn 23 - 47 mm</th>
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</thead>
<tbody>
<tr>
<td>plier length (mm)</td>
<td>280</td>
</tr>
<tr>
<td>order number</td>
<td></td>
</tr>
<tr>
<td>hand pliers with threaded insert</td>
<td>GO 281/0-E91</td>
</tr>
</tbody>
</table>

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hand pliers subject to technical modifications