Expanding, Extracting, and Bending Tools

<table>
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<th>Tools</th>
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</tr>
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<td>Expanders</td>
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</table>

When it comes to installation or repair of soft copper, hard copper, aluminum or PEX tubing, ROTHENBERGER has the solution.

ROTHENBERGER hand and power tools are the perfect choice for the professional for fitting-free installation.
**Expanders**

**ROCAM® EXPANDER Power Torque**

From the pioneer of tube expansion technology and the leading manufacturer of expanders for more than 35 years, the ROCAM® Expander is ideal for efficient, fitting-free tube installation in plumbing, heating, gas, refrigeration and climate control systems.

The **EPT®-Technology** offers the following advantages:
- Concealed bent lever:
  - Protection against dirt
  - Protection against mechanical damage
- Optimized force transmission:
  - Ergonomic
  - Better force flow in relation to the hand force of the user
  - Less effort required
- Fine adjustment screw:
  - Exact adjustment of the capillary gap
- Steel adapter:
  - Tough and wear-resistant
- Automatic pin guide retraction:
  - Faster operation
- High strength, forged aluminum body:
  - Lower weight, easy handling
- Longer lever arms:
  - Reduces effort required and increases work space
- Ergonomic handles:
  - Non slip, no jamming fingers
- The **golden Titanium Nitride coating (TiN)** on the pin guide is superior because of its:
  - High degree of hardness of 2300 HV:
    - Protection against abrasive wear
    - Low friction factor:
      - Reduces effort required
  - Chemical resistance:
    - Good corrosion protection
  - Universal wear resistance layer:
    - Long-lasting

Includes: ROCAM® EXPANDER Power Torque (12000) with riveted expander heads, internal and external deburrer (11006), steel case.

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**PRODUCT PROFILE**

**FEATURES**
- Eliminates purchase and storage of fittings
- 50% less labor costs
- 50% less soldering saves materials
- Converts scrap tubes into fittings, saves material costs
- Increases safety by reducing number of soldered joints

**TECHNICAL DATA**

For expanding, reducing and calibrating tubes made out of:
- soft and half-hard copper dia. 5/16” – 1-3/4” (8 – 42 mm)
  - max. wall thickness 0.06”, (1.6 mm)
- soft aluminum dia. 5/16” – 1-1/8” (8 – 28 mm)
  - max. wall thickness 0.06”, (1.6 mm)

---

<table>
<thead>
<tr>
<th>Description</th>
<th>Max. O.D.</th>
<th>Max.</th>
<th>Lb</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROCAM® Expander tool only</td>
<td>1-3/4&quot;</td>
<td>0.06&quot;</td>
<td>3.8</td>
<td>12000</td>
</tr>
<tr>
<td></td>
<td>1/2&quot;, 5/8&quot;, 7/8&quot;, 1-1/8&quot;</td>
<td>6.8</td>
<td></td>
<td>12324</td>
</tr>
</tbody>
</table>
Standard Riveted Expander Heads

ROTHENBERGER standard riveted expander heads fit similar expanders from other brands as well.

**Description**  | **lb**  | **No.**
---|---|---
Internal/External Deburring Tool for tubes dia. 1/8" - 1-1/2" | 0.7 | 11006

**Internal/External Deburring Tool**

**Description**  | **lb**  | **No.**
---|---|---
Internal/External Deburring Tool for tubes dia. 1/8" - 1-1/2" | 0.7 | 11006

**GRADUATED EXPANDER A1**

For efficient, fitting-free tube installation in plumbing, heating, gas, refrigeration and climate control systems.

**Product Profile**

**TECHNICAL DATA**

For expanding, reducing and calibrating tubes made out of:

- soft copper, aluminum
dia. 1-3/8" – 4-1/8" (35 – 108 mm)
max. wall thickness 0.1" (2.5 mm)

**EXPANDER A1**

Includes: Graduated expander with handle, without special ratchet handle

**RATCHET HANDLE**

- Positive fine adjustment: Optimum adjustment of tube socket size and capillary gap
- Trapezoid thread with self-lubricating bronze socket: Optimized force transmission
- Strong pin guide: Bearing the expander head segments completely allowing high loads
- 6 sizes on one tool: Expanding without changing tools
- Long lever arms: Reduces the effort required

**EXPANDER A1**

Includes: Graduated expander with handle, without special ratchet handle

**RATCHET HANDLE**

- Positive fine adjustment: Optimum adjustment of tube socket size and capillary gap
- Trapezoid thread with self-lubricating bronze socket: Optimized force transmission
- Strong pin guide: Bearing the expander head segments completely allowing high loads
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- 6 sizes on one tool: Expanding without changing tools
- Long lever arms: Reduces the effort required
**Tee Extractors**

**Tee Extractor Set**

ROTHENBERGER’s Tee Extractors are simple, fast and economical - create perfect tees in less than a minute!

**FEATURES**

- Special screw thread: Reduces effort required
- Professional Tee-extraction: Optimum capillary gaps
- Dimple limits insertion depth: Optimum positioning
- UNIDRILL Automatic 42: Exact drilling
- Extractor Cam Pincer: Limits insertion depth

Precise drilling without a center punch - drill stop prevents over sizing or damage to tube wall

Set includes: Tee-extractor, special ratchet (22081), cam pincer (22080), UNIDRILL Automatic 42 (21575), and steel carrying case

**TECHNICAL DATA**

For producing tees on tubes made of:

- soft copper, hard copper and 
  dia. 3/8 – 2-1/8” (10 – 54 mm) 
  max. wall thickness .1” (2.5 mm)

**PRODUCT PROFILE**

- Extractions on installed tubes: Reduces installation time and materials
- Producing branches on tubes: Reduces the use of T-pieces
- Compact design: Suitable for making tees even in tight spaces

**DESCRIPTION**

<table>
<thead>
<tr>
<th>Description</th>
<th>ratchet size</th>
<th>lb</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tee Extractor Set</td>
<td>8.3</td>
<td></td>
<td>22124</td>
</tr>
<tr>
<td>1/2”, 5/8”, 7/8”, 1-1/8”</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extractor Ratchet, 3/8” - 1-3/4”</td>
<td>11mm</td>
<td>1.0</td>
<td>22081</td>
</tr>
<tr>
<td>Extractor Ratchet, 2” - 4-1/4”</td>
<td>3/4”</td>
<td>2.5</td>
<td>27181</td>
</tr>
</tbody>
</table>

800.545.7698 www.rothenberger-usa.com
### Accessories for Tee Extractors

**Key features**
- Uniform and proper material extraction without scratches or burrs
- Professional tee-extraction with optimum capillary gap

<table>
<thead>
<tr>
<th>O.D. in.</th>
<th>Drill dia. mm</th>
<th>Ratchet size</th>
<th>lb</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>0.04</td>
<td>6</td>
<td>0.3</td>
<td>22060</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>0.04</td>
<td>7</td>
<td>0.4</td>
<td>22061</td>
</tr>
<tr>
<td>5/8&quot;</td>
<td>0.04</td>
<td>8</td>
<td>0.5</td>
<td>22016</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>0.08</td>
<td>10</td>
<td>0.5</td>
<td>22062</td>
</tr>
<tr>
<td>7/8&quot;</td>
<td>0.08</td>
<td>12</td>
<td>0.8</td>
<td>22063</td>
</tr>
<tr>
<td>1&quot;</td>
<td>0.10</td>
<td>14</td>
<td>1.1</td>
<td>22064</td>
</tr>
<tr>
<td>1-1/8&quot;</td>
<td>0.10</td>
<td>15</td>
<td>1.1</td>
<td>22065</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>0.10</td>
<td>19</td>
<td>1.6</td>
<td>22066</td>
</tr>
<tr>
<td>1-3/8&quot;</td>
<td>0.10</td>
<td>22</td>
<td>1.6</td>
<td>22035</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>0.10</td>
<td>22</td>
<td>1.6</td>
<td>22038</td>
</tr>
<tr>
<td>1-5/8&quot;</td>
<td>0.10</td>
<td>26</td>
<td>2.0</td>
<td>22068</td>
</tr>
<tr>
<td>1-3/4&quot;</td>
<td>0.10</td>
<td>26</td>
<td>2.0</td>
<td>22069</td>
</tr>
<tr>
<td>2&quot;</td>
<td>0.10</td>
<td>30</td>
<td>3.0</td>
<td>22050</td>
</tr>
<tr>
<td>2-1/8&quot;</td>
<td>0.10</td>
<td>30</td>
<td>3.0</td>
<td>22054</td>
</tr>
</tbody>
</table>

---

**UNIDRILL® Automatic 42**
- High speed steel drill
  - Fast, burr-free drilling
- Special drill tip
  - Precise location without need for center punch
- Drill hole scale
  - Calibrated drill diameter automatically corresponds to the correct extractor hook and branch size
- Drill stop
  - Prevents damage to tube wall

<table>
<thead>
<tr>
<th>Description</th>
<th>O.D.</th>
<th>Ratchet size</th>
<th>lb</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIDRILL® 42</td>
<td>3/8&quot; - 1-5/8&quot;</td>
<td>11 mm</td>
<td>1.0</td>
<td>21575</td>
</tr>
</tbody>
</table>

---

**Extractor Cam Pincer**
- Marker:
  - Ensures exact insertion depth and prevents over-inserting
- Cam depth adjustment with scale:
  - Calibrating the corresponding insertion depth

<table>
<thead>
<tr>
<th>O.D.</th>
<th>L</th>
<th>lb</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot; - 1-1/2&quot;</td>
<td>5.9&quot;</td>
<td>0.4</td>
<td>22080</td>
</tr>
</tbody>
</table>

---

**Extractor Support**
- For soft tube material
  - Prevents deformation during extraction

<table>
<thead>
<tr>
<th>O.D. Main Tube</th>
<th>O.D. Branch Tube</th>
<th>lb</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>3/8&quot;</td>
<td>0.3</td>
<td>22170</td>
</tr>
<tr>
<td>5/8&quot;</td>
<td>1/2&quot;</td>
<td>0.4</td>
<td>22153</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>5/8&quot;</td>
<td>0.6</td>
<td>22172</td>
</tr>
<tr>
<td>7/8&quot;</td>
<td>3/4&quot;</td>
<td>0.6</td>
<td>22157</td>
</tr>
<tr>
<td>1-1/8&quot;</td>
<td>1&quot;</td>
<td>0.7</td>
<td>22158</td>
</tr>
</tbody>
</table>

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**800.545.7698  www.rothenberger-usa.com**
Universal Flaring Tools

**Professional Flaring Tool**
For producing precision 45° single flares on copper tubes

- Spring-loaded slide coupling: No reduction in wall thickness
- Flare cone rotates off-center in needle bearings: Controlled expanding and shaping of tube end without tearing
- Made from forged steel: Tough and long-lasting
- Can be drill driven: Fast and consistent flares in high-volume environments

*High quality flares*

<table>
<thead>
<tr>
<th>O.D.</th>
<th>lb.</th>
<th>No.</th>
</tr>
</thead>
</table>

**Flaring Tool**
For producing precision 45° single flares on copper tubes

- Self-centering tube clamp for all diameters: Compact design
- Hardened flare cone with special geometry: Controlled flaring without tearing, forming perfect surfaces
- Quick and easy adjustment: Clamp adjusts for all diameters
- Ergonomic handle: Comfortable use

*Set includes flaring tool with mold, plastic case*

<table>
<thead>
<tr>
<th>O.D.</th>
<th>lb.</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/16&quot;– 5/8&quot; (4-16mm)</td>
<td>1.9</td>
<td>222601</td>
</tr>
</tbody>
</table>

**Flaring and Swaging Set**
For producing flares from 1/8" - 3/4"

*Includes: expander heads 3/16"–3/4", square ratchet wrench 1/4"–5/16", tube cutter, flaring tool*

<table>
<thead>
<tr>
<th>Description</th>
<th>lb</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flaring and Swaging Set</td>
<td>5.0</td>
<td>22350</td>
</tr>
</tbody>
</table>
Flaring Tools

ROFLARE®
Compact Flaring Tool, foldable
For producing precision 45° single flares on copper, brass, aluminum and precision steel tubes up to 0.04” (1 mm) in wall thickness. Ideal for mobile applications and for pipes in refrigeration and automotive (brakes) industries. Double and 180° flares are also possible with the ROFLARE® double flare attachment.

- Made from high quality steel: Long-lasting
- Special screw thread: Allows smooth, efficient deformation of material
- Hardened and polished flare cone: High quality flare sealing surface
- “Multiblock” multi-clamping calipers: Firm, quick, off-center clamping of the tube and automatic self-centering; tubes don’t slip
- Mold available in metric and English measurements:

ROFLARE® / ROFORM® Accessories
Double flare attachment/180° Adapter fits in ROFLARE flaring tool as well as in ROFORM® socket and flare tools.

ROFORM® Set
For producing precision 45° single flares and precision sockets on soft and hard tubes.
Set includes: Basic tool, 45° cone, expander pin, internal and external deburrer dia. 1/8”– 1-1/2” in. (11006), ROTRAC® Tube Cutter 28 dia. 1/8”– 1-1/8” in. (70010), plastic case.

800.545.7698 www.rothenberger-usa.com
Benders

**TUBE BENDER**

Compact and easy to use, this small tube bender works with only one hand.

<table>
<thead>
<tr>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Special adjustment for small pipe diameters:</td>
</tr>
<tr>
<td>Use in refrigeration, air-conditioning, oil supply and automotive, as well as pneumatic or hydraulic systems</td>
</tr>
<tr>
<td>• Mechanical ratchet feed:</td>
</tr>
<tr>
<td>Rapid and precise bending</td>
</tr>
<tr>
<td>• Toothed rack with bayonet catch:</td>
</tr>
<tr>
<td>Bending formers are quick and easy to change</td>
</tr>
</tbody>
</table>

**Product Profile**

**TECHNICAL DATA**

One handed bender for exact bending up to 90° of tubes made of:

- Soft copper and aluminum
- Dia. 3/16" – 1/2" (4.75 – 12 mm)

**FEATURES**

- Open bending frame:
  Production of repeated alternate angled bends possible

- Pliers with bayonet catch:
  Faster change of bending formers

- Mechanical ratchet feed:
  Rapid and exact bending

- Ergonomic design:
  One handed operation

- Compact design:
  Exact bending even in restricted spaces

**Set includes:** Basic tool, bending formers, steel case

---

**Description** | O.D. (in) | lb | No. |
---|---|---|---|
TUBE BENDER Set for 1/4", 5/16", 3/8", 1/2" | 7.8 | 24114 |
TUBE BENDER Only | 1.0 | 24000 |
Bending Former 3/16" | 1.0 | 24001 |
Bending Former 1/4" | 1.0 | 24002 |
Bending Former 5/16" | 1.0 | 24003 |
Bending Former 3/8" | 1.0 | 24006 |
Bending Former 1/2" | 1.0 | 24008 |

800.545.7698  www.rothenberger-usa.com
TUBE BENDER MAXI

Universal application possibilities in plumbing and heating installations, refrigeration, climate control, floor heating, and hydraulic systems.

**Product Profile**

**FEATURES**

- Eliminates costs and storage of fittings
- Less soldering saves materials
- Increases safety by reducing number of joints
- Reduced labor time
- Mechanical ratchet feed

**TECHNICAL DATA**

For exact bending up to 90° of tubes made of:

- Soft copper and aluminum: 3/8” – 7/8” (10 – 22 mm)
- PEX with aluminum and PE outer layers (Viega FostaPex)

**Description**

<table>
<thead>
<tr>
<th>Description</th>
<th>O.D.</th>
<th>Max. in.</th>
<th>lb</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAXI BENDER Set</td>
<td>8.5</td>
<td></td>
<td>23022</td>
<td></td>
</tr>
<tr>
<td>3/8”, 1/2”, 5/8”, 3/4”, 7/8”</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAXI BENDER MSR Set</td>
<td>8.5</td>
<td></td>
<td>23064</td>
<td></td>
</tr>
<tr>
<td>1/2”, 3/4”, 1”, Viega FostaPex</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAXI BENDER Tool Only</td>
<td>2.1</td>
<td></td>
<td>23000</td>
<td></td>
</tr>
<tr>
<td>MAXI BENDER Support with R/L Formers</td>
<td>1.2</td>
<td></td>
<td>23001</td>
<td></td>
</tr>
<tr>
<td>Formers for copper/aluminum:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/8”</td>
<td>0.04</td>
<td>0.2</td>
<td>23010</td>
<td></td>
</tr>
<tr>
<td>1/2”</td>
<td>0.04</td>
<td>0.2</td>
<td>23011</td>
<td></td>
</tr>
<tr>
<td>5/8”</td>
<td>0.04</td>
<td>0.3</td>
<td>23014</td>
<td></td>
</tr>
<tr>
<td>3/4”</td>
<td>0.04</td>
<td>0.3</td>
<td>23012</td>
<td></td>
</tr>
<tr>
<td>7/8”</td>
<td>0.04</td>
<td>0.4</td>
<td>23013</td>
<td></td>
</tr>
</tbody>
</table>

Set includes: basic tool (23000), bending support (23001), bending formers, and steel case

- Universal supports:
  For bending of copper or non-coated tubes

- Open bending frame:
  Production of repeated alternate angled bends possible

- Pliers with bayonet catch:
  Bending formers easily changeable

- Plastic bending formers and supports with low friction:
  Optimum bending results

- Body made of diecast steel:
  Tough and long-lasting

- Smooth-running feed lever:
  Ideal in restricted spaces and for one handed operation

- Side lever:
  Quick release and reset of bending former

800.545.7698  www.rothenberger-usa.com
Standard Tube Benders

**Standard Two Handed Bender**
For exact bending up to 180° of tubes made of
- Soft copper and aluminum
- Bending radius display of 0 - 180° on former: Exact bending
- Clamp mechanism for tighter tube hold: For bending shorter tube pieces
- Light construction: Fatigue-free hand operation

<table>
<thead>
<tr>
<th>O.D.</th>
<th>R Radius in.</th>
<th>L</th>
<th>lb</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>0.71</td>
<td>12.0&quot;</td>
<td>1.3</td>
<td>25140</td>
</tr>
<tr>
<td>5/16&quot;</td>
<td>0.95</td>
<td>12.0&quot;</td>
<td>1.5</td>
<td>25131</td>
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<tr>
<td>3/8&quot;</td>
<td>1.18</td>
<td>15.4&quot;</td>
<td>2.0</td>
<td>25141</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>1.65</td>
<td>15.4&quot;</td>
<td>3.8</td>
<td>25142</td>
</tr>
<tr>
<td>5/8&quot;</td>
<td>2.28</td>
<td>17.7&quot;</td>
<td>4.0</td>
<td>25136</td>
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</table>

**MULTIBENDER**

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<tr>
<th>Description</th>
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<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MULTIBENDER</td>
<td>1/2&quot;, 5/8&quot;, 3/4&quot;, 7/8&quot;</td>
<td>8.7</td>
<td>90614</td>
</tr>
</tbody>
</table>

**MINIBEND**
For exact, two-handed bending up to 180° of tubes made of
- soft copper, brass, aluminum dia. 1/4", 5/16", 3/8" (6 mm, 8 mm, 10 mm)
- Suitable for use in: Refrigeration, climate control, oil supply, automobile, hydraulic and air pressure systems.

<table>
<thead>
<tr>
<th>Description</th>
<th>O.D.</th>
<th>lb</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINIBEND</td>
<td>1/4&quot;, 5/16&quot;, 3/8&quot;</td>
<td>1.0</td>
<td>25151</td>
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</table>

**Copper Tube Bending Spring**
For hand bending of soft copper tubes

<table>
<thead>
<tr>
<th>O.D.</th>
<th>lb</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
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<td>25187</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>0.5</td>
<td>25188</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>0.5</td>
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</tr>
</tbody>
</table>
Standard Tube Benders

ROBEND® H+W PLUS

Product Profile

FEATURES

- Eliminates purchase and storage of fittings
- Less soldering saves materials
- Increases safety by reducing number of joints
- Patented ROLUB system: Reduces friction for faster, smoother bending

TECHNICAL DATA

For exact bending up to 180°, of tubes made of:

- soft, semi-hard, hard copper dia. 5/16"–7/8" (8 mm–22 mm)
- thin-walled coated copper dia. 3/8"–5/8" (10 mm–18 mm)
- thin-walled aluminum and brass dia. 5/16"–7/8" (8 mm–22 mm)
- precision steel dia. 3/8"–5/8" (10 mm–18 mm)
- coated, seamless stainless steel dia. 5/16"–7/8" (8 mm–22 mm)

Set includes: benders corresponding to the various tube dimensions, bending spray 150 ml (25120), steel case

<table>
<thead>
<tr>
<th>Description</th>
<th>Max. in.</th>
<th>Radius in.</th>
<th>lb</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROBEND® H+W PLUS Set, 1/2&quot;, 5/8&quot;, 7/8&quot;</td>
<td>0.04</td>
<td>30.3</td>
<td>24504</td>
<td></td>
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<tr>
<td>ROBEND® H+W PLUS, 3/8&quot;</td>
<td>0.04</td>
<td>1.26</td>
<td>2.6</td>
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<tr>
<td>ROBEND® H+W PLUS, 1/2&quot;</td>
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<tr>
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<td>2.52</td>
<td>5.8</td>
<td>24516</td>
</tr>
<tr>
<td>ROBEND® H+W PLUS, 3/4&quot;</td>
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<td>3.19</td>
<td>8.5</td>
<td>24519</td>
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<tr>
<td>ROBEND® H+W PLUS, 7/8&quot;</td>
<td>0.04</td>
<td>3.19</td>
<td>8.4</td>
<td>24522</td>
</tr>
<tr>
<td>Bending Spray, 5.3 oz. (150 ml)</td>
<td></td>
<td>0.5</td>
<td>25120</td>
<td></td>
</tr>
</tbody>
</table>

- Patented ROLUB ANTI-STICK SYSTEM:
  42% less effort due to lower friction and optimum distribution of the bending spray

- Optimum combination of ROLUB guide shoe and bending former:
  Reduced effort bending without deformation and wrinkles

- Bending former with base plate:
  To be clamped on the vice for easy bending

- Base plate can be attached with additional handle:
  For free-hand bending up to dia. 5/8" (18 mm)

- Fork and former made of high quality forged aluminum:
  Retains shape and is stable

- Reserve length table and bend radius scale on every former:
  Exact bending
Power Benders

**ROBEND® 3000**

Tough, portable power bender

Universal applications in plumbing, heating, refrigeration, climate control, and industrial systems.

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**Product Profile**

**FEATURES**

- Eliminates purchase and storage of fittings:
  - Easy work preparation
- Less joints:
  - For increased safety
- Production of repeated alternate angled bends
- Bending former made of high quality forged aluminum
- Patented ROLUB system:
  - Reduces friction for faster, smoother bending

**TECHNICAL DATA**

Cold bending up to 180°, manually or automatically, of tubes made of:

- soft, semi-hard, hard copper,
  - DIN EN 1057
- coated copper, precision steel
  - diameter 1/2" – 1-1/8" (12 mm – 28 mm)
- soft, half-hard, hard precision steel,
  - DIN 2391/2393/2394
- threaded steel, DIN 2440/2441
  - diameter 1/2" – 1-1/8" (12 mm – 28 mm)
- seamless stainless steel GW 541, wall thickness
  - 0.04" – 0.05"/1.0mm – 1.2mm
- coated steel tubes MPS-H heating type,
  - DIN EN 2394
  - diameter 1/2" – 1-1/8" (14 mm – 30 mm)

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**Set includes Basic ROBEND® unit, guide shoe axle (25743), bending formers and guide shoes for corresponding tube diameters, adapter for tri-pod base, plastic case**

<table>
<thead>
<tr>
<th>Description</th>
<th>Wall thickness in.</th>
<th>Bending radius in.</th>
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<th></th>
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<tbody>
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<td>Bending Formers for copper tube:</td>
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<td>Bending spray 5.3 oz. (150ml)</td>
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<td>Tripod</td>
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800.545.7698  www.rothenberger-usa.com