Cutting Machines

Clean cutting, safe handling, solid structure.

- **Universal**
  For all types of hoses and fittings.

- **Ecoline**
  Value driven solution for less frequent use.

- **Energy efficient**
  Now even more efficient.

- **Special Brake motor**
  A safety feature meeting DIN CE standards requiring the cutting blade to stop turning in 10 seconds.

- **Special cutting motor**
  Higher forces are achieved using a bigger shaft.

- **Test-proven Cutting Blades**
  Cutting blades are made out of test-proven material.

- **Environment friendly**
  Engineered to last.
UPG 10
Guillotine for industrial hoses without steel wire up to 2" (max. OD: 90 mm/3.45").
L x W x H (mm): 1 810 x 325 x 800

Minimum cut length 20 mm (0.78")
2 Guide Pins for smaller size 17.5 + 22.5 mm (0.698" + 0.88")
UNIFLEX hose cutting machines have been a synonym for the highest precision and robustness for many decades. The solid and compact tools distinguish themselves by their safe and high-quality cutting function. A distinct property is the positioning of the extraordinarily sharp cutting blades close to the powerful motors. This significantly reduces vibration – which is one of the reasons for extreme durability and low maintenance costs.

**Unique drive motor with double bearings and large shaft**
- Reduce scrap with straight cuts
- More cuts between sharpening while increasing profits (not TM CI)
- Less contamination in the shop and in the end product will result in more parts out the door and a better environment in the building
- Maximizes motor life, giving you the lowest cost of ownership in the market
- Cut faster and generate a more saleable product

**Quality steel blade**
- Long lasting German quality steel blades, lowering the cost of ownership

**Compact Design**
- Ideal for on-site service

**ECOLINE Version**
- High quality for those new to cutting

**CE compliant**
- Brake motor for safety
- Security shield

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**Accessories**

- **UVC** Suction device
- **UHG 14 + UHG 14 ext.** Hose-guide
- **330.1** Spark arrester
- **Hose coiling reel UVT 2 + Hose measuring tool UMS 4**
- **UAT 4** Coiler
- **USH 4 + 513.1** Hose rack
- **UMS 4 + 514.1** Measuring device
- **513.1** Plate for USH 4

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We reserve the right to make technical changes without notice. Options are machine parts that can only be ordered while buying the machine.
## Technical Data

<table>
<thead>
<tr>
<th>Technical data</th>
<th>EM 1</th>
<th>EM 1 S</th>
<th>EM 3</th>
<th>EM 3 Ecoline</th>
<th>EM 3 DC</th>
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<tbody>
<tr>
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<tr>
<td>SAE R 13 &amp; SAE R 15</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>Workshop</strong></td>
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<td>⅛”</td>
<td>⅛”</td>
<td>⅛”</td>
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<tr>
<td>SAE R 13 &amp; SAE R 15*</td>
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<td>⅛”</td>
<td>⅛”</td>
<td>⅛”</td>
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<tr>
<td><strong>Industrial</strong></td>
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<td>⅛”</td>
<td>⅛”</td>
<td>⅛”</td>
<td>⅛”</td>
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<tr>
<td>Max. outside Ø</td>
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<td>Ø 52 mm</td>
<td>Ø 80 mm</td>
<td>Ø 52 mm</td>
<td>Ø 60 mm</td>
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<td>90 dBA</td>
<td>90 dBA</td>
<td>90 dBA</td>
<td>93 dBA</td>
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<tr>
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<td>–</td>
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<td>–</td>
<td>–</td>
</tr>
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<td>Ø 30 mm</td>
<td>Ø 30 mm</td>
<td>Ø 80 mm</td>
<td>Ø 40 mm</td>
<td>Ø 40 mm</td>
</tr>
<tr>
<td>Drive</td>
<td>1,2 kW 1 VAC</td>
<td>1,2 kW 1 VAC</td>
<td>3 kW 3 VAC</td>
<td>1,8 kW 1 VAC</td>
<td>12 V/24 V 2,0/3,2 kW</td>
</tr>
<tr>
<td>Cutting blade</td>
<td>TM 160x2,5x20</td>
<td>TM C 160x2,5x20</td>
<td>TM 275x3x30</td>
<td>TM G 200x1,6x25,4</td>
<td>TM 250x2x40Z</td>
</tr>
<tr>
<td>L x W x H (mm)</td>
<td>360 x 340 x 310</td>
<td>360 x 340 x 310</td>
<td>540 x 440 x 300</td>
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### Accessories

<table>
<thead>
<tr>
<th>Accessory</th>
<th>EM 1</th>
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<th>EM 3</th>
<th>EM 3 Ecoline</th>
<th>EM 3 DC</th>
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<td><strong>TU Table</strong></td>
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<tr>
<td><strong>Suction device</strong></td>
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<td>–</td>
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<td>✓</td>
<td>✓</td>
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<td><strong>UVC 36 Adapter (230 Volt)</strong></td>
<td>777.150</td>
<td>777.153</td>
<td>777.056</td>
<td>777.153</td>
<td>777.153</td>
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<tr>
<td><strong>UVC 100 Adapter</strong></td>
<td>–</td>
<td>–</td>
<td>330.082.3</td>
<td>330.083.3</td>
<td>330.083.3</td>
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<td><strong>Hose measuring tool</strong></td>
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<td>–</td>
<td>–</td>
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<tr>
<td><strong>Foot for UMS 4</strong></td>
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<td>–</td>
<td>✓</td>
<td>–</td>
<td>–</td>
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<td><strong>Hose guide 2000 mm</strong></td>
<td>–</td>
<td>–</td>
<td>✓</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

* With special cutting blade.

** Adapter needed.

### Additional Information

**High-quality cutting blade, secured with a metal sheet.**

**Guide pins ensure straight cuts.**

** Blades **

- TM = plain
- TM G = slotted
- TM C = coated

### Cutting blades

**TM C, TM G and TM**

High-quality cutting blades:

- TM C, TM G and TM.

**TM C**

Lasts 7 times longer, cuts twice as fast, generates less smoke, less debris in the hose and less heat. Reduces the risk of separation of the rubber from the wire.
UNIFLEX hose cutting machines have been a synonym for the highest precision and robustness for many decades. The solid and compact tools distinguish themselves by their safe and high-quality cutting function. A distinct property is the positioning of the extraordinarily sharp cutting blades close to the powerful motors. This significantly reduces vibration – which is one of the reasons for extreme durability and low maintenance costs.

**Unique drive motor with double bearings and large shaft**
- Reduce scrap with straight cuts
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**CE compliant**
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- Security shield

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**Accessories**

- UVC Suction device
- UHG 14 + UHG 14 ext Hose-guide
- Hose coiling reel UMT 2 + Hose measuring tool UMS 4
- UAT 4 Coiler
- USH 4 + Hose rack
- 513.1 Plate for USH 4
- UMS 4 + 514.1 Measuring device + stand

**Standard**

- 330.1 Spark arrestor

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## Technical Data

<table>
<thead>
<tr>
<th>Technical data</th>
<th>EM 4</th>
<th>EM 4 DC</th>
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</thead>
<tbody>
<tr>
<td>Production</td>
<td>SAE R 13 &amp; SAE R 15</td>
<td>1 1/4&quot;</td>
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<tr>
<td>Workshop</td>
<td>SAE R 13 &amp; SAE R 15</td>
<td>1 1/4&quot;</td>
</tr>
<tr>
<td>SAE R 12</td>
<td>2&quot;</td>
<td>2 1/2&quot;</td>
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<tr>
<td>Industrial</td>
<td>2&quot;</td>
<td>2&quot;</td>
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<tr>
<td>Max. outside Ø</td>
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<td>93 dBA</td>
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<tr>
<td>Brake motor</td>
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<td>–</td>
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<tr>
<td>Suction connection Ø</td>
<td>Ø 80 mm</td>
<td>Ø 40 mm</td>
</tr>
<tr>
<td>Drive</td>
<td>3kW 3 VAC</td>
<td>2.0kW 12VDC</td>
</tr>
<tr>
<td>Cutting blade</td>
<td>TM C 275 x 3 x 30</td>
<td>TM C 250 x 2 x 40</td>
</tr>
<tr>
<td>L x W x H (mm)</td>
<td>700 x 510 x 700</td>
<td>740 x 365 x 610</td>
</tr>
<tr>
<td>Weight</td>
<td>60 kg</td>
<td>29 kg</td>
</tr>
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</table>

### Accessories

<table>
<thead>
<tr>
<th>Accessories</th>
<th>bench</th>
<th>suction device</th>
<th>UVC 35 Adapter</th>
<th>UVC 100 Adapter</th>
<th>Hose measuring tool</th>
<th>Foot for UMS 4 (840 mm height)</th>
<th>Hose guide 2000 mm (LHG 14)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>✓</td>
<td>✓</td>
<td>777.056</td>
<td>330.082.3</td>
<td>✓</td>
<td>–</td>
<td>✓</td>
</tr>
<tr>
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<td>777.153</td>
<td>330.083.3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Additional Information

Guide pins ensure straight cuts, which prolongs blade life.

**Blades**

- **TM = plain**
- **TM G = slotted**
- **TM C = coated**

**TM C, TM G and TM**

High-quality cutting blades: TM C, TM G and TM.

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CE compliant
- Brake motor for safety
- Security shield

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<table>
<thead>
<tr>
<th>Technical data</th>
<th>EM 6 DC</th>
<th>EM 6 M</th>
<th>EM 6 P</th>
<th>EM 6 Ecoline</th>
<th>EM 8 M</th>
<th>EM 8 P</th>
</tr>
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<tbody>
<tr>
<td><strong>Production</strong></td>
<td>SAE R 13 &amp; SAE R 15</td>
<td>–</td>
<td>1¼”</td>
<td>–</td>
<td>1¼”</td>
<td>1¼”</td>
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<tr>
<td><strong>Workshop</strong></td>
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<td>2”</td>
<td>2”</td>
<td>2”</td>
<td>2”</td>
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<td>2½”</td>
<td>2”</td>
<td>2½”</td>
<td>2½”</td>
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<tr>
<td><strong>Industrial</strong></td>
<td>2”</td>
<td>3”</td>
<td>3”</td>
<td>2”</td>
<td>4”</td>
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<tr>
<td><strong>Max. outside Ø</strong></td>
<td>Ø 75 mm</td>
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<td>Ø 80 mm</td>
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<td>Ø 120 mm</td>
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<tr>
<td><strong>Feed</strong></td>
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<td>pneumatic</td>
<td>manual</td>
<td>manual</td>
<td>pneumatic</td>
</tr>
<tr>
<td><strong>Noise level</strong></td>
<td>93 dBA</td>
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<td>90 dBA</td>
<td>90 dBA</td>
<td>90 dBA</td>
<td>90 dBA</td>
</tr>
<tr>
<td><strong>Brake motor</strong></td>
<td>–</td>
<td>✓</td>
<td>✓</td>
<td>–</td>
<td>✓</td>
<td>✓</td>
</tr>
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<td><strong>Suction connection Ø</strong></td>
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<td>Ø 60 mm</td>
<td>Ø 80 mm</td>
<td>Ø 60 mm</td>
<td>Ø 60 mm</td>
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<tr>
<td><strong>Drive</strong></td>
<td>3,2 kW : 24 VDC</td>
<td>4,6 kW : 3 VAC</td>
<td>4,6 kW : 3 VAC</td>
<td>2,4 kW : 1 VAC</td>
<td>4,6 kW : 3 VAC</td>
<td>4,6 kW : 3 VAC</td>
</tr>
<tr>
<td><strong>Cutting blade</strong></td>
<td>TM C 250 x 2 x 40</td>
<td>TM C 350 x 3 x 30</td>
<td>TM C 350 x 3 x 30</td>
<td>TM C 275 x 3 x 25,4</td>
<td>TM C 400 x 4 x 30</td>
<td>TM C 400 x 4 x 30</td>
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<tr>
<td><strong>L x W x H (mm)</strong></td>
<td>740 x 365 x 610</td>
<td>745 x 690 x 430</td>
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### Accessories

<table>
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<tr>
<th>Accessories</th>
<th>EM 6 DC</th>
<th>EM 6 M</th>
<th>EM 6 P</th>
<th>EM 6 Ecoline</th>
<th>EM 8 M</th>
<th>EM 8 P</th>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

### Additional Information

**Guide pins ensure straight cuts, which prolongs EM 1 EM 2 blade life.**

**Blades**

- **TM = plain**
- **TM G = slotted**
- **TM C = coated**

### Cutting blades

**TM C, TM G and TM**

- High-quality cutting blades:
  - **TM C, TM G and TM.**

**TM C**

- Lasts 7 times longer, cuts twice as fast, generates less smoke, less debris in the hose and less heat.
- Reduces the risk of separation of the rubber from the wire.
The EM 115 and EM 120 are highly productive cutting machines. These machines are best suited for high volume manu-
facturing of 2" hoses along with workshop capability for 3" high pressure hose and 4" industrial hose.

**Unique drive motor with double bearings and large shaft**
- Reduce scrap with straight cuts
- More cuts
- Less contamination in the shop and in the end product will result in more parts out the door and a better environment in the building
- Maximizes motor life, giving you the lowest cost of ownership in the market
- Cut faster and generate a more saleable product

**Quality steel blade**
- Long lasting German quality steel blades, lowering the cost of ownership

**CE compliant**
- Brake motor for safety
- Security shield

**Accessories**
- UHG 14 + UHG 14 ext
- Hose guide
- UAT 4
- Coiler
- USH 4 + 513.1
- Hose rack
- UMS 4 + 514.1
- Measuring device
- USH 4 + 513.1
- Plate for USH 4

**Standard**
- 513.2
- Spark arrestor

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## Technical Data

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<tr>
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<td>3”</td>
</tr>
<tr>
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<td></td>
</tr>
<tr>
<td>SAE R 13 &amp; SAE R 15</td>
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<td>4”</td>
</tr>
<tr>
<td>SAE R 12</td>
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</tr>
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<td>4”</td>
</tr>
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<td>electric/C2 IPC</td>
</tr>
<tr>
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</tr>
<tr>
<td><strong>Suction connection</strong></td>
<td>Ø 100 mm</td>
<td>Ø 100 mm</td>
</tr>
<tr>
<td><strong>Drive</strong></td>
<td>7.5 kW 3 VAC</td>
<td>7.5 kW 3 VAC</td>
</tr>
<tr>
<td><strong>Cutting blade</strong></td>
<td>TM C 520 x 4 x 40</td>
<td>TM C 520 x 4 x 40</td>
</tr>
<tr>
<td>L x W x H (mm)</td>
<td>1 210 x 650 x 1 650</td>
<td>1 810 x 330 x 1 440</td>
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<td>245 kg</td>
<td>350 kg</td>
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| **Options**          |              |              |
| Bench                | –            | –            |
| Suction device       | UVC 100     | UVC 100     |
| UVC Adapter          | –            | –            |
| Hose guide (UHG 14)  | ✓            | ✓            |

## Additional Information

- Lateral guide rolls for guiding and positioning of the hose, for a better cutting quality.
- Various bending points selectable for straighter cuts and relief of pinch on the blade.
- Exchangeable guide (two sizes) for optimum positioning of different hose sizes (EM 115 only).
- Guide for perfectly centering hoses.

## Cutting blades

**TM C, TM G and TM**

High-quality cutting blades: TM C, TM G and TM.

**TM C**

Lasts 7 times longer; cuts twice as fast, generates less smoke, less debris in the hose and less heat. Reduces the risk of separation of the rubber from the wire.
FOR CORRUGATED METAL HOSES AND PTFE HOSES
Cutting results that often eliminate an additional step. This completely unique planetary cutting machine delivers almost scrap-free production with high efficiency. With a completely variable centering clamp system, all hose ODs to the maximum rating for the machine can be cut. Approximate cutting time is 25 seconds for 1 1/4" (ø DN 32).

Productive and ergonomic
- No dramatic flaring of the stainless steel braid
- Reduces or eliminates time-consuming manual preparatory work, thereby increasing productivity and lowering costs
- Centering hose clamp system
- Shortest cut possible from 10 cm
- No wrapping/unwrapping with adhesive tape required
- Uses standard cutting blades

Siemens Industrial Color Touch Panel
- Clearly laid-out user-friendly software on a panel with a 6" color display screen
- Large article memory promotes productivity
- Reference run for optimal positioning of the cutting blade for cutting all hose diameters
- Programmable constriction time, cutting blade speed and cutting time allows for good results through a wide range of hose sizes and materials
- Monitoring of production by resettable total counter, batch size counter or daily cut counter

CE compliant

Standard
- Control C
- Belt Tension Tool
- Reference drive
- Total measurer
- Batch size measurer (resettable)
- Daily measurer (resettable)

Accessories
- Option
  - Small outside hose diameter (6-8 mm) 325.8

5.7" display | Touch panel
- 325.3 Hose guide
- UHG 14 + UHG 14 ext Hose guide

We reserve the right to make technical changes without notice. Options are machine parts that can only be ordered while buying the machine.
Technical data

<table>
<thead>
<tr>
<th></th>
<th>USC 10</th>
<th>USC 20</th>
<th>USC 30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutting blade</td>
<td>TM 200 x 2 x 25,4 mm</td>
<td>TM 250 x 2 x 25,4 mm</td>
<td>TM 350 x 3 x 32 mm</td>
</tr>
<tr>
<td>Wire braid</td>
<td>2”</td>
<td>4”</td>
<td>6”</td>
</tr>
<tr>
<td>Hose diameter</td>
<td>Ø 3/8” - 2” (DN 10-51)</td>
<td>Ø 2” - 4” (DN 50-100)</td>
<td>Ø 4” - 6” (DN 100-150)</td>
</tr>
<tr>
<td>Max. rotation wire forming blade</td>
<td>7 200 rpm</td>
<td>7 200 rpm</td>
<td>4 100 rpm</td>
</tr>
<tr>
<td>Max. rotation trimming</td>
<td>60 rpm</td>
<td>60 rpm</td>
<td>30 rpm</td>
</tr>
<tr>
<td>Drive</td>
<td>4.6 kW 3 VAC</td>
<td>4.6 kW 3 VAC</td>
<td>5 kW 3 VAC</td>
</tr>
<tr>
<td>Air pressure</td>
<td>6 bar</td>
<td>6 bar</td>
<td>6 bar</td>
</tr>
<tr>
<td>Noise level</td>
<td>85 dB(A)</td>
<td>85 dB(A)</td>
<td>85 dB(A)</td>
</tr>
<tr>
<td>Working high</td>
<td>1 020</td>
<td>1 100</td>
<td>1 045</td>
</tr>
<tr>
<td>L x W x H (mm)</td>
<td>730 x 670 x 1 400</td>
<td>730 x 770 x 1 500</td>
<td>900 x 1 250 x 1 520</td>
</tr>
<tr>
<td>Weight</td>
<td>245 kg</td>
<td>340 kg</td>
<td>580 kg</td>
</tr>
<tr>
<td>Control Siemens S7</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Article memory</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Feed</td>
<td>pneumatic</td>
<td>pneumatic</td>
<td>pneumatic</td>
</tr>
<tr>
<td>Suction device*</td>
<td>standard</td>
<td>standard</td>
<td>standard</td>
</tr>
</tbody>
</table>

Options

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Hose guide (UHG 14)</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

* Adapter needed.

Additional Information

Planetary cutting machine for corrugated metal hoses and PTFE hoses. The unique procedure enables quick and neat cutting of corrugated metal and PTFE hoses without flaring the other stainless steel braid.

- Eliminates flaring
- No more trimming
- Easily slip the ferrule into position
- Reduces assembly injuries
- Improves production efficiency
- Touch panel with memory (optional 5.7” display)
- Quick and easy set up
- Allows broader application range to now include PTFE hose

Improved fixture for centering hose clamp. Longer, grooved rollers ensure a better grip.
Options and Accessories
For Cutting Machines.
**Suction device UVC 100**

- Suction device for all cutters
- Suction: Ø 100 mm
- Spark arrestor; Filter alarm
- 517.025: Active Carbon filter (Pellets)
- 517.012: Filter HEPA H 13
- 517.010: Wire filter
- 517.011: Cassette filter
- Drive: 5.5kW 3 VAC
- Nominal air flow: 6600 m³/H
- Noise level: 60 dB(A)
- Option: Suction arm

**UVC 100 Adapter:**

- 330.083.3: Ø 40 mm, EM 1S, EM 3.2DC, EM 4 DC, EM 6 DC
- 330.081.3: Ø 60 mm, EM 8.3, EM 6.2
- 330.082.3: Ø 80 mm, EM 3, EM3 DC, EM6, EM 8, EM 8.2
- L x B x H: 1550 mm x 475 mm x 1080 mm
- Weight: 140 kg

**Suction device UVC 36**

- Suction device with spark arrestor
  (UVC S36-21 + UVC S36-FL)
- UVC 36 Adapter
- Art.
- 777.153: Ø 40 mm, EM 1S, EM 3.2DC, EM 4 DC, EM 6 DC
- 777.055: Ø 60 mm, EM 8.3, EM 6.2
- 777.056: Ø 80 mm, EM 3, EM3 DC, EM6, EM 8, EM 8.2
- Nominal air flow: 216 m³/H
- Noise level: 57 dB(A)

**UHG 14 + UHG 14 ext**

- UHG 14 Hose guide 2000 mm and
- UHG 14 ext. extension guide 1000 mm
  for all cutting machines

**329.1 (for EM 6 M) | 323.1 (for EM 8)**

- Resettable cutting counter
UWT 2 vs (optional UMS 4 + 514.1)
Electric driven hose coiling reel with foot pedal for easy winding and unwinding of hoses up to 1 1/4" optional with length measuring device incl. foot stand.

RPM per Pedal
0 to 61 RPM

Maximum Load 80 kg
L x W x H 800 x 900 x 1600 mm
Weight 70 kg

UMS 4 + 514.1 (floor stand)
Hose measuring tool up to 1 1/4". 01 OD Ø 65 mm can be mounted in front of the cutter or on a hose coiler.

Measures up to 999.99 m
tolerant 2 - 7%
L x W x H 250 x 260 x 120 mm
Weight 5 kg
Metric unit only

513.1 (Accessory)
Plate for USH 4

Spark arrestor
330.1 EM 1 to EM 8
330.2 EM 120 & EM 115
UAT 4
Hose winder for storing hoses
Ø 1 200 mm
L x W x H  820 mm x 900 mm x 1 600 mm
Max. load  80 kg
Weight  70 kg
Center pin set up
Smallest  Ø 277,5 mm
Biggest  Ø 577,5 mm

USH4-50
Hose winder for the easy storage of your hydraulic hoses, up to seven levels.
cage-Ø outside/inside  820/760 mm
external dimension  1 000 mm
level high  310 mm
Cage ultimate load  80 kg
513.1:
Plate with fixing bolts
USH 4-5 Height 1 650 mm

778.2
Wheel option for TU-UWT

TU
Workbench for miscellaneous machines
(84 x 71 x 75 cm)
Max. load: 800 kg
Skiving Machines

Easy to use and safe.

- **Internal & External Skiving**
  Simultaneous internal and external skiving in one operation.

- **Universal**
  For all types of hoses and fittings.

- **Ecoline**
  Value driven solution for less frequent use.

---

USM 2  USM 10  USM 10 S  USM 100  USM 150
The new skiving machine, with the fastest change-over time due to preset tools and simple locking pins. The USM 10 S skives internally from 5/8” up to 2” and externally from 3/16” - 2” dies, making this system the perfect solution.

User-friendly control improves efficiency
- Full concentration on the piece due to control via foot pedal
- Big Makrolon® windows give a good overview

Higher productivity due to quick change-over time
- Easy exchange of skiving tool using a locking pin
- Preset tools save time. When switching from one size to another, just put in the preset skiving tool and in seconds you are skiving another size (USM 10 S)

CE compliant
- Easy-open protective cover
- Safety flap for injury-free working
- Safe installation on the workbench

Accessories
- SSG: Sitting tool – to keep the skiving chips short
- TU - work bench
- USM 10 S - PJ RKSTLS without mandrels
- USM 10 S - 313.1 Set with 6 mandrels. Internal skiving mandrel.
## Technical Data

<table>
<thead>
<tr>
<th>Technical data</th>
<th>USM 2</th>
<th>USM 10 Ecoline</th>
<th>USM 10</th>
<th>USM 10 S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal skiving</td>
<td>¾&quot; – 2&quot;</td>
<td>¾” – 2”</td>
<td>¾&quot; – 2”</td>
<td>¾&quot; – 2”</td>
</tr>
<tr>
<td>External skiving</td>
<td>¾” – 2”</td>
<td>¾” – 2”</td>
<td>¾” – 2”</td>
<td>¾” – 2”</td>
</tr>
<tr>
<td>Drive</td>
<td>Manual</td>
<td>0.37 kW (1~)</td>
<td>0.37 kW (3~)</td>
<td>0.37 kW (3~)</td>
</tr>
<tr>
<td>Type of application</td>
<td>Mobil</td>
<td>Workshop</td>
<td>Workshop</td>
<td>Workshop</td>
</tr>
<tr>
<td>Noise level</td>
<td>-</td>
<td>60 dBA</td>
<td>60 dBA</td>
<td>60 dBA</td>
</tr>
<tr>
<td>L x W x H (mm)</td>
<td>338 x 465 x 445</td>
<td>440 x 440 x 545</td>
<td>440 x 440 x 545</td>
<td>440 x 440 x 545</td>
</tr>
<tr>
<td>Weight</td>
<td>16 kg</td>
<td>35 kg</td>
<td>35 kg</td>
<td>35 kg</td>
</tr>
<tr>
<td>Tool revolution</td>
<td>–</td>
<td>110 rpm</td>
<td>110 rpm</td>
<td>110 rpm</td>
</tr>
</tbody>
</table>

### Options

<table>
<thead>
<tr>
<th></th>
<th>USM 2</th>
<th>USM 10 Ecoline</th>
<th>USM 10</th>
<th>USM 10 S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bench</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>SSG</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

### Packages

- **USM 2**
  + external skiving mandrel (PJ_EXB 250- DN 05, 06, 08, 10, 12, 16, 19, 25, 31, 38, 51)
  + internal skiving tool (UIS.2 DN 16, 19, 25, 31, 38, 51)

- **USM 10 Ecoline/USM 10**
  + external skiving mandrel (PJ_EXB 250- DN 05, 06, 08, 10, 12, 16, 19, 25, 31, 38, 51)
  + internal skiving tool (UIS.2 DN 16, 19, 25, 31, 38, 51)

- **USM 10 S**
  with preset tools for fast and easy tool change with 11 external skiving tools (UES.3 - DN 05, 06, 08, 10, 12, 16, 19, 25, 31, 38, 51)
  + 313.1 (Set with 6 internal skiving tools - UIS.3 - 16, 19, 25, 31, 38, 51)
  + tool rack (PJ_RKSTLS)

- **USM 10 S TU**
  + TU same as USM 10 S package, additional:
  Machine and tool rack mounted on the UNIFLEX table TU

### Additional Information

- Easy exchange of skiving tool using a locking pin on USM 10 S.
- Skiving mandrels are manually adjustable.
- Safety switch for riskless operation.
- Easy adjustment of the skiving tool.
- Blade adjustments for skiving depth need only to be made once for each hose dimension on the USM 10 S.
- 1 tool on the USM 10 Ecoline for all dimensions.
Internal and external skiving - efficient and clean!

The USM 100 is a machine that prepares hoses for assembly, and skiving can be done both internally and externally simultaneously. The USM 150 is a stable machine for skiving up to 5”-industrial and rotary hose. The double-skiving tool with reinforced mandrels can be controlled separately or simultaneously without changing the tool.

**User-friendly control improves efficiency**

- Full concentration on the piece due to control via foot pedal
- Big Makrolon® windows give a good overview
- Hose guiding system can be controlled manually
- Easy access to scrap drawer
- Simultaneous internal and external skiving

**Higher productivity due to quick change-over time**

- Easy exchange of skiving tool using a locking pin
- Preset tools save time. When switching from one size to another, just put in the preset skiving tool and in seconds you are skiving another size.

**CE compliant**

- Easy-open protective cover
- Safety flap for injury-free working
- Safe installation on the workbench (USM 100)

---

**Package USM 100**

<table>
<thead>
<tr>
<th>Machine</th>
<th>+ 5 internal skiving mandrels UIT Ø 20-Ø 25-Ø 31-Ø 38-Ø 51</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>+ 5 external skiving tools UOP 6,8,10,12,16</td>
</tr>
<tr>
<td></td>
<td>+ 5 external skiving tool holder (UOT 6-51)</td>
</tr>
<tr>
<td></td>
<td>+ 1 chuck (307.903)</td>
</tr>
<tr>
<td></td>
<td>+ SSG</td>
</tr>
</tbody>
</table>

**Package USM 150**

<table>
<thead>
<tr>
<th>Machine</th>
<th>UIS - DN 50 to DN 125</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UES - DN 50 to DN 125</td>
</tr>
</tbody>
</table>
## Technical Data

### USM 100

<table>
<thead>
<tr>
<th>Technical data</th>
<th>USM 100</th>
<th>USM 150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal skiving</td>
<td>¼” – 2½”</td>
<td>2” – 5”</td>
</tr>
<tr>
<td>External skiving</td>
<td>¼” – 2”</td>
<td>2” – 5”</td>
</tr>
<tr>
<td>Drive</td>
<td>1.2/1.8 kW (3 VAC)</td>
<td>4.4 kW (3 VAC), 7 bar (100 PSI)</td>
</tr>
<tr>
<td>Type of application</td>
<td>Production</td>
<td>Production</td>
</tr>
<tr>
<td>Noise level</td>
<td>60 dBA</td>
<td>60 dBA</td>
</tr>
<tr>
<td>L x W x H (mm)</td>
<td>780 x 620 x 550</td>
<td>2545 x 810 x 1500</td>
</tr>
<tr>
<td>Weight</td>
<td>70 kg</td>
<td>700 kg</td>
</tr>
<tr>
<td>Tool revolution</td>
<td>392 rpm/592 rpm</td>
<td>94 rpm</td>
</tr>
</tbody>
</table>

### Accessories

- **Bench**: ✓
- **SSG**: Standard ✓
- **TU Table**: ✓

### Additional Information

- **SSG Slitting tool**: to keep the skiving chips short. Included with USM 100.
- **TU - work bench**: The SSG slitting tool shortens skiving chips.
- **Double skiving tool with hose**: Double skiving tool with hose.
- **Clamping and guiding unit with wheels for up to 5”-hoses**: Clamping and guiding unit with wheels for up to 5”-hoses.

---

### USM 150

<table>
<thead>
<tr>
<th>Technical data</th>
<th>USM 150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal Skiving</td>
<td>UIS 150 – DN 51, DN 63, DN 76, DN 89, DN 100, DN 125</td>
</tr>
<tr>
<td>External Skiving</td>
<td>UES 150 – DN 51, DN 63, DN 76, DN 89, DN 100, DN 125</td>
</tr>
</tbody>
</table>

### USM 100

| Internal Skiving     | UIT 12, UIT 20, UIT 25, UIT 32, UIT 40, UIT 50, UIT 12, UIT 60, |
| External Skiving     | UOP 06, UOP 08, UOP 10, UOP 12, UOP 16, UOP 20, UOP 25, UOP 32, UOP 40, UOP 50, |
| Blade Holder         | UOT 06 - 50, UOT 60          |
Nipple Inserter, Pin Prick

Simplify your production.

Universal
For all types of hoses and fittings.

Ecoline
Value driven solution for less frequent use.
The UNE 10 and UNE 115 are high-performance tools for production and the workshop. These machines now permit fittings up to 3” to be inserted or extracted. Due to its innovative rapid tool sled, the insertion of 90 degree, 45 degree or straight fittings without changing tools is now simple and quick with the UNE 115.
**Technical Data UNE 10**

- **Max. nipple insertion (OD fitting, straight or elbow):** < 2’’
- **Force:** 5.1 kN (6 bar)
- **Piston stroke:** 100 mm
- **L x W x H (mm):** 600 x 810 x 310
- **Weight:** 35 kg
- **Pneumatic air supply:** 7 bar/100 psi

**Technical Data UNE 115**

- **Working range:** < 3’’
- **Hose max. outside Ø:** 120 mm
- **Compressed air connection:** 8 bar
- **Insertion force:** 8 kN (8 bar)
- **Weight:** 100 kg
- **Control:** Foot pedal

**L x W x H (mm):** 625 x 1,185 x 320

**Pneumatic air supply:** 8 bar/116 psi

---

**104.1150 standard set UNE 115:**

- 103.100.4 gap application 8-14
- 103.101.4 gap application 16-22
- 103.102.4 gap application 24-27
- 103.103.4 gap application 31
- 103.104.4 gap application 37
- 103.105.4 gap application 39
- 103.106.4 gap application 43
- 103.107.4 gap application 58
- 103.108.4 limit plate
- 103.109.4 centering pin 5
- 103.110.4 centering pin 7
- 103.111.4 centering pin 10
- 103.112.4 centering pin 14
- 103.113.4 centering pin 19
- 103.114.4 centering pin 24
- 103.115.4 centering pin 29
- 103.116.4 centering pin 42
- 103.117.4 gap application 65
- 103.118.4 gap application 80
- 104.042.3 equipment blade
- 104.043 star knob

---

**Accessories**

- **TU Table**
- **778.2 hard rubber wheels set (4 pieces) - 2 incl. locking brake for TU**

---

**Additional Information**

- Preloading Safety control coupled to foot pedal.
- Secure clamping unit.
- Axially adjustable clamping unit - prevents bending of small hose dimensions.
The use of gas hoses (e.g. compressed air, nitrate, etc.) requires perforating the outer layer. With low effort, the PR 10 / PR 12 / PR14 makes perforating the outer layer of hoses easy.

The established UNIFLEX quality gives you a precision tool to work with hoses up to an outer diameter of 100 mm.
Technical Data

<table>
<thead>
<tr>
<th>Technical data</th>
<th>PR 10</th>
<th>PR 12</th>
<th>PR 14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working range</td>
<td>Ø 8 - 45 mm</td>
<td>Ø 8 - 55 mm</td>
<td>Ø 30 - 100 mm</td>
</tr>
<tr>
<td>L x W x H</td>
<td>290 x 150 x 330</td>
<td>270 x 200 x 400</td>
<td>400 x 265 x 565</td>
</tr>
<tr>
<td>Weight</td>
<td>~ 8 kg</td>
<td>~ 22 kg</td>
<td>~ 58 kg</td>
</tr>
</tbody>
</table>

### Additional Information

**Double Prick Wheels**
- Straight perforation
- No twisting of hoses

**Adjustments**
- Perfect hose guidance and centration
- Optimal adjustment of hose dimensions

**Compact construction**
- With minimum space requirements
- Mobile usage possible

### Machine Options

<table>
<thead>
<tr>
<th>Machine</th>
<th>PR PB</th>
<th>Hose Ø (0 - max. OD)</th>
<th>PR PB Intermediate die set</th>
</tr>
</thead>
<tbody>
<tr>
<td>S6</td>
<td>PR PB 266 P</td>
<td>0 - 45 mm</td>
<td>./</td>
</tr>
<tr>
<td>S6 ECOLINE</td>
<td>PR PB 266 P</td>
<td>0 - 45 mm</td>
<td>./</td>
</tr>
<tr>
<td>HM290</td>
<td>PR PB 232 F</td>
<td>0 - 68 mm</td>
<td>./</td>
</tr>
<tr>
<td>HM502</td>
<td>PR PB 232 F</td>
<td>0 - 70 mm</td>
<td>554.232 L</td>
</tr>
<tr>
<td>S8</td>
<td>PR PB 237 G</td>
<td>0 - 45 mm</td>
<td>./</td>
</tr>
<tr>
<td>S8 ECOLINE</td>
<td>PR PB 237 G</td>
<td>0 - 45 mm</td>
<td>./</td>
</tr>
<tr>
<td>S10</td>
<td>PR PB 237 G</td>
<td>0 - 45 mm</td>
<td>./</td>
</tr>
<tr>
<td>S10 ECOLINE</td>
<td>PR PB 237 G</td>
<td>0 - 45 mm</td>
<td>./</td>
</tr>
<tr>
<td>HM325</td>
<td>PR PB 237 G</td>
<td>0 - 70 mm</td>
<td>./</td>
</tr>
<tr>
<td>HM375</td>
<td>PR PB 237 G</td>
<td>0 - 70 mm</td>
<td>./</td>
</tr>
<tr>
<td>HM380</td>
<td>PR PB 237 G</td>
<td>0 - 70 mm</td>
<td>./</td>
</tr>
<tr>
<td>HM420</td>
<td>PR PB 237 G</td>
<td>0 - 50 mm</td>
<td>245.237 L</td>
</tr>
<tr>
<td>HM480</td>
<td>PR PB 237 G</td>
<td>0 - 150 mm</td>
<td>245.237 L</td>
</tr>
<tr>
<td>HM485</td>
<td>PR PB 237 G</td>
<td>0 - 130 mm</td>
<td>245.237 L</td>
</tr>
<tr>
<td>HM650</td>
<td>PR PB 237 G</td>
<td>0 - 120 mm</td>
<td>245.237 L</td>
</tr>
<tr>
<td>HM1200</td>
<td>PR PB 237 G</td>
<td>0 - 120 mm</td>
<td>245.237 L</td>
</tr>
<tr>
<td>HM665</td>
<td>PR PB 237 G</td>
<td>0 - 120 mm</td>
<td>245.237 L</td>
</tr>
</tbody>
</table>

**Side view with perforating wheels**

**Compact construction** with minimum space requirements and mobile usage possible.
Marking and Bending Machines
Easy handling, rugged design, reliable operation.

Universal
For all types of hoses and fittings.

Ecoline
Value driven solution for less frequent use.
Use of marked hoses improves safety. The UIM 10 is a low-cost insert marking tool for up to 2” hoses. The marking can be repeated exactly. In order to assure to skive the proper length or the fitting is inserted properly.

You can mark up to 700 hoses in an hour. This means you can manually mark hoses three times faster with a lot more precision.

### Amortisation
- Amortisation reached after 20 hours or 14,000 hoses
- Minimum space requirements and easy handling make long trainings or otherwise costly stationaries needless
- Reduction of discard through exact positioning of hoses and tools
- Time and cost saving positioning of the tools increases productivity and profitability

### Low maintenance costs
- Pressure stamps for marking the ends of hoses with ink cartridges especially made for this work, prepared not to dry out
- One ink cartridge lasts for approx. 10,000 markings

### Technical innovations for steady quality
- Pneumatic activation of the stamp
- Clean markings
- Exact and stable markings in each repetition

### CE conformity

---

**Technical data UIM 10**

<table>
<thead>
<tr>
<th></th>
<th>UIM 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working range</td>
<td>2” (up to DN50)</td>
</tr>
<tr>
<td>Marking depth</td>
<td>10 - 150 mm</td>
</tr>
<tr>
<td>Production time max.</td>
<td>700/h</td>
</tr>
<tr>
<td>Air Pressure</td>
<td>5 bar (72.5 PSI)</td>
</tr>
<tr>
<td>L x W x H (mm)</td>
<td>330 x 190 x 313</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>4.5</td>
</tr>
</tbody>
</table>

UNIFLEX insert – marking tool (ferrule position marking) Increases productivity and improves safety in hose sizes up to 2”.

---

**Stamp Pad:| Cartridges:| Solvent:**

<table>
<thead>
<tr>
<th>Stamp Pad:</th>
<th>Cartridges:</th>
<th>Solvent:</th>
</tr>
</thead>
<tbody>
<tr>
<td>515.027.4</td>
<td>515.1 White</td>
<td>515.1 Solvent</td>
</tr>
<tr>
<td>515.1 Black</td>
<td></td>
<td></td>
</tr>
<tr>
<td>515.1 Red</td>
<td></td>
<td></td>
</tr>
<tr>
<td>515.1 Yellow</td>
<td></td>
<td></td>
</tr>
<tr>
<td>515.1 Blue</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Additional Information**

- Mark hoses precisely and quickly with the UIM 10.
- Optimal marking process
The UNIFLEX marking tool UP 10 Ecoline/UP 15 has a compact table construction. The European safety regulations DIN20066-2012-10, EN853, 854, 856, 857 stipulate that hose lines have to be marked indelibly with the manufacturer code, the assembling date and the max. pressure, e.g: XX_YY/MM_330 bar. This embossing will also allow you to indicate who produced the hose line and when. This is helpful information in the case of warranty claim. The new and compact UNIFLEX marking tool UP 10 Ecoline is a precise and easy-to-handle tool. The robust technology and low maintenance makes it a perfect machine for mobile operations or workshops.

Package

UP 10 Package =
UP 10 Ecoline + UPTS 10

UP 15 Package
UP15 + UPTS 100

UP 115 Package =
UP 115 + UPTS 100
506.050.3
506.080

UP 10 Ecoline Package:

UP 10 Ecoline + UPTS 10
Marking Type Set
Letters: 1x A, B, I, N, R, S, /, 2x P, 10x space, 4x letter of own choice
4mm high/2.5mm width
Numbers: 6x 1; 5x 2,3,4,5; 4x 6; 3x 7,8,9; 4x 0
wild character 1x 504.033.4 (5-fold) +
504.034.4 (10-fold)
Neutral: Brush, Tweezers, Mirror

UP 115 Package:

UP 115 + UPTS 100
Marking Type Set
Letters: 1x A, B, I, N, R, S, /, 2x P, 10x space, 4x letter of own choice
3mm high/2mm width
Numbers: 6x 1; 5x 2,3,4,5; 4x 6; 3x 7,8,9; 4x 0
Neutral: Brush, Tweezers, Mirror

Compact Design
Compact for mobile usage, standard with a 1-row marking tool

User friendly
Easy height adjustments possible
Precise and robust technique
Easy handling and adjustments
Low maintenance

ECOLINE Version
High quality for those new workshops

NEW

We reserve the right to make technical changes without notice. Options are machine parts that can only be ordered while buying the machine.
## Technical Data

<table>
<thead>
<tr>
<th>Technical data</th>
<th>UP 10 Ecoline</th>
<th>UP 15</th>
<th>UP 115</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marking area</td>
<td>Ø 12 - 80 mm</td>
<td>Ø 11.5 - 90 mm</td>
<td>Ø 11.5 - 100 mm</td>
</tr>
<tr>
<td>Marking depth</td>
<td>~ 0.5 mm</td>
<td>~ 0.5 mm</td>
<td>~ 0.5 mm</td>
</tr>
<tr>
<td>Insertable steel type</td>
<td>25 pieces</td>
<td>30 pieces*</td>
<td>30 pieces</td>
</tr>
<tr>
<td>Drive</td>
<td>Manual</td>
<td>Manual</td>
<td>Pneumatic 7 bar (98 PSI)</td>
</tr>
<tr>
<td>L x W x H (mm)</td>
<td>285 x 265 x 410</td>
<td>272 x 200 x 750</td>
<td>625 x 465 x 325</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>10</td>
<td>35</td>
<td>48</td>
</tr>
</tbody>
</table>

Marking depth depends on the adjustment of the marking roll.

* Depending on the type holder.

** Not for 1 piece fitting

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### Accessories

- **504.003** Additional type holder for UP 10 ecoline. Simple change between different markings. 25 types.

- **506.060.3** Type holder for UP 115. Single row, 13 characters, 4 number type wheels and bar/psi stamp.

- **508.7001** Counter for UP 15

- **506.090** Counter for UP 115

- **506.050.3** Type holder for UP 115. Double row, 15 characters each.

- **508.1002.3** UP 15

- **506.080** Height Setting Display for UP 115.
The UBM 6-20 M is a universal bending device for steel pipes up to 20 mm OD. It comes with a set of bending rolls for common applications.

An integrated scale for angle detection helps you to reach the required pipe dimension in only one work step. The telescopic lever keeps the operator’s forces low when bending rigid pipes.

**Technical data**

- **Working range OD**: Ø 6-20 mm
- **Bending radius (mm)**: 19 - 40
- **Drive**: Manual
- **L x W x H (mm)**: 870 x 170 x 130
- **Weight (kg)**: 15

**Bendings rolls**

<table>
<thead>
<tr>
<th>Tube OD (mm)</th>
<th>Bending radius (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>R19</td>
</tr>
<tr>
<td>8</td>
<td>R19</td>
</tr>
<tr>
<td>10</td>
<td>R20</td>
</tr>
<tr>
<td>12</td>
<td>R21</td>
</tr>
<tr>
<td>14</td>
<td>R22</td>
</tr>
<tr>
<td>15</td>
<td>R23</td>
</tr>
<tr>
<td>16</td>
<td>R23</td>
</tr>
<tr>
<td>18</td>
<td>R25</td>
</tr>
<tr>
<td>20</td>
<td>R25</td>
</tr>
</tbody>
</table>

**Options**

- Compact design
- User friendly
- Innovative design
- Compact for mobile usage
- Standard with a set of 9 bendings rolls
- Easy handling
- Simple adjustment
- Wide workpiece range
- Angle scale included
- Telescopic lever

We reserve the right to make technical changes without notice. Options are machine parts that can only be ordered while buying the machine.
UNT 6 and UNT 10 are reliable machines for the production of reusable hose assemblies, insertion of high pressure fittings or even to use with a skiving tool.

### Technical data

<table>
<thead>
<tr>
<th></th>
<th>UNT 6</th>
<th>UNT 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Hex or hose diameter</td>
<td>40 mm (1.57&quot;)</td>
<td>100 mm (4&quot;)</td>
</tr>
<tr>
<td>Maximum travel distance</td>
<td>500 mm (19.68&quot;)</td>
<td>300 mm (11.81&quot;)</td>
</tr>
<tr>
<td>Clamping Jaw</td>
<td>7 - 55 mm (0.02&quot; - 2.16&quot;)</td>
<td>12 - 17 mm (0.47&quot; - 0.67&quot;)</td>
</tr>
<tr>
<td></td>
<td>17 - 46 mm (0.67&quot; - 1.81&quot;)</td>
<td>46 - 80 mm (1.81&quot; - 3.15&quot;)</td>
</tr>
<tr>
<td>Drive</td>
<td>1,5/3,6 kW 3 VAC</td>
<td>1,5/3,6 kW 3 VAC</td>
</tr>
<tr>
<td>Motor rotation (RNP)</td>
<td>101/207</td>
<td>101/207</td>
</tr>
<tr>
<td>Noise level</td>
<td>70 dBA</td>
<td>70 dBA</td>
</tr>
<tr>
<td>L x W x H (mm)</td>
<td>1 600 x 950 x 850</td>
<td>1 600 x 550 x 850</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>176.5</td>
<td>223</td>
</tr>
</tbody>
</table>