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.

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 crimping

- CE compliant
  - Brake motor for safety
  - Security shield

**Accessories**

- UVC Suction device
- UHG 14 + UHG 14 ext. Hose-guide
- 330.1 Spark arrestor
- Hose coiling reel UMT 2 + Hose measuring tool UMS 4
- UAT 4 Coiler
- USH 4 + S13.1 Hose rack
- UMS 4 + S14.1 Measuring device
- S13.1 Plate for USH 4

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>
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<th>EM 3</th>
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<th>EM 3 DC</th>
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<td>–</td>
<td>½&quot;</td>
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<td>–</td>
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<td>–</td>
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<td>1¼&quot;</td>
<td>¾&quot;</td>
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<td>–</td>
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<td>Ø 40 mm</td>
<td>Ø 40 mm</td>
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<td>1,2 kW 1~VAC</td>
<td>3 kW 3~VAC</td>
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<td>12 V/24 V 2,0/3,2 kW</td>
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<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>
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<tr>
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<td>360 x 340 x 310</td>
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### Accessories

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<tr>
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</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
- More cuts between sharpening while increasing profits
- 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**
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**Compact Design**
- Ideal for on-site service

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

---

**Accessories**

- UVC Suction device
- UHG 14 + UHG 14 ext Hose-guide
- Hose coiling reel UMT 2 + Hose measuring tool UMS 4

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**Standard**

- 330.1 Spark arrestor
- 513.1 Plate for USH 4
- UMS 4 + 514.1 Measuring device + stand

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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

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<th>EM 4</th>
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</tr>
<tr>
<td>SAE R 12</td>
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<td>1⅜&quot;</td>
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<tr>
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<td>2&quot;</td>
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<tr>
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<td>Ø 40 mm</td>
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<tr>
<td>Drive</td>
<td>3kW 3–VAC</td>
<td>2.0kW 12VDC</td>
</tr>
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<td>TM C 250 x 2 x 40</td>
</tr>
<tr>
<td>L x W x H (mm)</td>
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Accessories

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<td>–</td>
</tr>
<tr>
<td>Hose guide 2000 mm (UHG 14)</td>
<td>✓</td>
<td>–</td>
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</tbody>
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Additional Information

Guide pins ensure straight cuts, which prolongs blade life.

Blades

- TM = plain
- TM G = slotted
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Cutting blades

**TM C, TM G and TM**

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

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More cuts between sharpening while increasing profits
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Maximizes motor life, giving you the lowest cost of ownership in the market
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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 crimping

CE compliant

Brake motor for safety
Security shield

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Accessories

UVC
Suction device

UHG 14 + UHG 14 ext
Hose-guide

Hose coiling reel UWT 2 + Hose measuring tool UMS 4

UAT 4
Coiler

USH 4 + Hose rack

UMS 4 + 514.1 Measuring device

329.1 f für EM 6 M I
323.1 f für EM 8 I

513.1 Plate for USH 4

Standard

330.1 Spark arrester
### Technical Data

<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>
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<td>1 1/4”</td>
<td>–</td>
<td>1 1/4”</td>
<td>1 1/4”</td>
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<td></td>
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<td>SAE R 13 &amp; SAE R 15</td>
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<td>2”</td>
<td>2”</td>
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<td>2”</td>
<td>2 1/2”</td>
<td>2 1/2”</td>
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<td></td>
<td></td>
<td></td>
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<td>4”</td>
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<td>Ø 80 mm</td>
<td>Ø 120 mm</td>
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<td>90 dBA</td>
<td>90 dBA</td>
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<tr>
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<td>✔</td>
<td>–</td>
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<td>Ø 60 mm</td>
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<tr>
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<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>
<td>820 x 785 x 755</td>
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### Accessories

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<th>EM 8 P</th>
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<td>✔</td>
<td>✔</td>
<td>✔</td>
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</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 manufacturing 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**
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**Compact Design**
- Ideal for on-site service

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

---

### Accessories

- **UHG 14 + UHG 14 ext**
- Hose guide
- **Hose coiling reel UWT 2**
- + Hose measuring tool UMS 4

- **UAT 4**
  - Collar
- **USH 4 + S13.1**
  - Hose rack
- **UMS 4 + S14.1**
  - Measuring device

- **S13.1**
  - Plate for USH 4

---

### Standard

- **S33.2**
  - Spark arrestor

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

**Technical data**

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<td>7.5 kW 3~VAC</td>
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<td>TM C 520 x 4 x 40</td>
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**Options**

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</tr>
<tr>
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<td>✓</td>
</tr>
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</table>

---

### 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.**

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### 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
- Minimizes personnel costs and preparatory work
- 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
- 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>7200 rpm</td>
<td>7200 rpm</td>
<td>4100 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>1020</td>
<td>1100</td>
<td>1045</td>
</tr>
<tr>
<td>L x W x H (mm)</td>
<td>730 x 670 x 1400</td>
<td>730 x 770 x 1500</td>
<td>900 x 1250 x 1520</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.
Options | Accessories Cutting Machines

**Suction device UVC 100**

Suction device for all cutters
Suction: Ø100mm
Spark arrester; 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: 8 600m³/h
Noise level: 60 dBA
Option: Suction arm
UVC 100 Adapter: 300.088.3: Ø 40
L x B x H: 1 550mm x 475mm x 1 080mm
Weight: 140 kg

**Suction device**

Suction device with spark arrester
(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 8.2
777.056  Ø 80 mm EM 3, EM3 DC, EM6, EM 8, EM 8.2

**UHG 14 + UHG 14 ext**

UHG 14 Hose guide 2 000 mm and
UHG 14 ext. extension guide 1 000 mm
for all cutting machines

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

Resettable cutting counter for EM 6 M
UWT 2 vs (optional UMS 4)
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: 800x900x1600 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

513.1 (Accessory)
Plate for USH 4

Spark arrestor
330.1 EM 1 to EM 8
330.2 EM 120 & EM115
**UAT 4**
Hose winder for storing hoses
Ø 1200 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

**UAT 4**
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)
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.
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 the 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 - PKS TLS without mandrels
- USM 10 S - 313.1 Set with 6 mandrels. Internal skiving mandrel.

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

<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>Internal skiving</td>
<td>5/8 – 2”</td>
<td>5/8 – 2”</td>
<td>5/8 – 2”</td>
<td>5/8 – 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>60 dB</td>
<td>60 dB</td>
<td>60 dB</td>
<td>60 dB</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>– 110 rpm</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

<table>
<thead>
<tr>
<th>Package</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>USM 2</td>
<td>+ external skiving mandrel (PJ_EXB 250- DN 05, 06, 08, 10, 12, 16, 19, 25, 31, 38, 51)</td>
</tr>
<tr>
<td></td>
<td>+ internal skiving tool (UIS.2 DN 16, 19, 25, 31, 38, 51)</td>
</tr>
<tr>
<td>USM 10 ecoline/USM 10</td>
<td>+ external skiving mandrel (PJ_EXB 250- DN 05, 06, 08, 10, 12, 16, 19, 25, 31, 38, 51)</td>
</tr>
<tr>
<td></td>
<td>+ internal skiving tool (UIS.2 DN 16, 19, 25, 31, 38, 51)</td>
</tr>
<tr>
<td>USM 10 S</td>
<td>with preset tools for fast and easy tool change with 11 external skiving tools (UES.3 - 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)</td>
</tr>
<tr>
<td>USM 10 S TU</td>
<td>+ TU same as USM 10 S package, additional: Machine and tool rack mounted on the UNIFLEX table TU incl. internal skiving tool, external skiving machine and tool rack mounted on the TU</td>
</tr>
</tbody>
</table>

### 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 trash 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
- Machine
  + 5 internal skiving mandrels UIT Ø20-Ø25-Ø31-Ø38-Ø51
  + 5 external skiving tools UOP 6,8,10,12,16
  + 5 external skiving tool holder (UOT 6 - 51)
  + 1 chuck (307.903)

USM 150
- Machine
  - UIS - DN 50 to DN 125
  - UES - DN 50 to DN 125

Standard

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

### 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></td>
</tr>
<tr>
<td>External skiving</td>
<td>¼” – 2”</td>
<td></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

<table>
<thead>
<tr>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bench</td>
</tr>
<tr>
<td>SSG</td>
</tr>
<tr>
<td>TU Table</td>
</tr>
</tbody>
</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.

**Clamping and guiding unit** with wheels for up to 5”-hoses.
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.

**Ergonomic**
- Freely positionable foot pedal for clamping hose saves time and increases productivity – UNE 115
- Liftable eyelets for easy positioning of the machine – UNE 115

**Easy handling**
- Universal hose clamping dies for all hose diameters – no change-over eliminates lengthy setup times
- Axially adjustable clamping unit for all diameters prevents kinking of thin hoses for efficient operation
- Individual clamping force adjustment for damage-free clamping and avoiding scrap
- Zero maintenance reduces costs
- Rapid sled for inserting curved and straight fittings without time-consuming exchange of fork sets saves time

**Safety compliant**
- Safety guards on all moving components
- CE-compliant, robust UNIFLEX quality

**Standard**

Established standard functions:
- 10 inserts for hose ferrules with bended tubes
  (Ø 12, 15, 18, 22, 28, 34, 42, 54 mm
  and one closed insert)
**Technical Data**

<table>
<thead>
<tr>
<th>Technical data</th>
<th>UNE 10</th>
<th>Technical data</th>
<th>UNE 115</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. nipple insertion</td>
<td>&lt; 2”*</td>
<td>Working range</td>
<td>&lt; 3”*</td>
</tr>
<tr>
<td>(OD fitting, straight or elbow)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Force</td>
<td>5.1 kN (6 bar)</td>
<td>Hose max. outside</td>
<td>Ø 120 mm</td>
</tr>
<tr>
<td>Piston stroke</td>
<td>100 mm</td>
<td>Compressed air connection</td>
<td>8 bar</td>
</tr>
<tr>
<td>L x W x H (mm)</td>
<td>600 x 810 x 310</td>
<td>Insertion force</td>
<td>8 kN (8 bar)</td>
</tr>
<tr>
<td>Weight</td>
<td>35 kg</td>
<td>Clamping force</td>
<td>8 kN (8 bar)</td>
</tr>
<tr>
<td>Pneumatic air supply</td>
<td>7 bar/100 psi</td>
<td>Control</td>
<td>Food pedal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>L x W x H (mm)</td>
<td>625 x 1 185 x 320</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Weight</td>
<td>100 kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pneumatic air supply</td>
<td>8 bar/116 psi</td>
</tr>
</tbody>
</table>

* According to the manufacturer:

**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>Machine</th>
<th>PR PB</th>
<th>Hose Ø (OD - max. OD)</th>
<th>PR PB Intermediate die set</th>
</tr>
</thead>
</table>
| 96^*    | PR 266 P | 0 - 45 mm | /.
| 96 ECOLINE^* | PR 266 P | 0 - 45 mm | /.
| HM290   | PR 232 F | 0 - 68 mm | /.
| HM502   | PR 232 F | 0 - 70 mm | 554.232 L
| S8      | PR 237 G | 0 - 45 mm | /.
| S8 ECOLINE | PR 237 G | 0 - 45 mm | /.
| S10     | PR 237 G | 0 - 45 mm | /.
| S10 ECOLINE | PR 237 G | 0 - 45 mm | /.
| HM325   | PR 237 G | 0 - 70 mm | /.
| HM375   | PR 237 G | 0 - 70 mm | /.
| HM380   | PR 237 G | 0 - 70 mm | /.
| HM420   | PR 237 G | 0 - 50 mm | 245.237 L
| HM480   | PR 237 G | 0 - 150 mm | 245.237 L
| HM485   | PR 237 G | 0 - 130 mm | 245.237 L
| HM650   | PR 237 G | 0 - 120 mm | 245.237 L
| HM1200  | PR 237 G | 0 - 120 mm | 245.237 L
| HM665   | PR 237 G | 0 - 120 mm | 245.237 L

Additional Information

- Constant prick depth
- Side view
- With perforating wheels

**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
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.

<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></td>
<td>515.1 Black</td>
<td></td>
</tr>
<tr>
<td></td>
<td>515.1 Red</td>
<td></td>
</tr>
<tr>
<td></td>
<td>515.1 Yellow</td>
<td></td>
</tr>
<tr>
<td></td>
<td>515.1 Blue</td>
<td></td>
</tr>
</tbody>
</table>

**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>Working range</th>
<th>2&quot; (up to DN50)</th>
</tr>
</thead>
<tbody>
<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 (flare position marking) Increases productivity and improves safety in hose sizes up to 2".

**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.
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

Accessories

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>504.003</td>
<td>Additional type holder for UP 10 ecoline. Simple change between different markings. 25 types.</td>
</tr>
<tr>
<td>506.060.3</td>
<td>Type holder for UP 115. Single row, 13 characters, 4 number type wheels and bar/psi stamp.</td>
</tr>
<tr>
<td>508.7001</td>
<td>Counter for UP 15</td>
</tr>
</tbody>
</table>

Standard UP 115

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>506.090</td>
<td>Counter for UP 115</td>
</tr>
<tr>
<td>506.050.3</td>
<td>Type holder for UP 115. Double row, 15 characters each.</td>
</tr>
<tr>
<td>506.080</td>
<td>Height Setting Display for UP 115.</td>
</tr>
<tr>
<td>508.1002.3</td>
<td></td>
</tr>
</tbody>
</table>

UP 115 closed
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 UBM 6-20 M**

- **Working range OD**: Ø6-20 mm
- **Bending radius (mm)**: 19 - 40
- **Drive**: Manual
- **L x W x H (mm)**: 870 x 170 x 130
- **Weight (kg)**: 15

**Bendings rolls**

- **Tube OD (mm)**: 6, 8, 10, 12, 14, 15, 16, 18, 20
- **Bending radius (mm)**: R19, R19, R21, R21, R22, R28, R30, R35, R40

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

<table>
<thead>
<tr>
<th>Technical data</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”)</td>
<td>100 mm (4”)</td>
</tr>
<tr>
<td>Maximum travel distance</td>
<td>500 mm (19.68”)</td>
<td>300 mm (11.81”)</td>
</tr>
<tr>
<td>Clamping Jaw</td>
<td>7 – 95 mm (0.28” – 3.74”)</td>
<td>12 - 17 mm (0.47” – 0.67”)</td>
</tr>
<tr>
<td></td>
<td>17 - 46 mm (0.67” - 1.81”)</td>
<td>46 - 80 mm (1.81” – 3.15”)</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>

Foot pedal

Security Cover (UNT 6)
www.uxinside.net

Training and Certification.

Promote Quality!

Registration
UNIFLEX-Hydraulik GmbH Department:
Service and Training
E-Mail: training@uniflex.de
www.uxinside.net

Specialist workshop for hose assembling
Assembling hose and fittings with safety as priority No. 1

TRAINING CONCEPT

Advanced training is an important investment in the future of a company in order to maintain or enhance quality and safety. As a supplier of machinery for production of hose assemblies, we are continuously extending our product range to meet the requirements of the market. Furthermore, we supply the appropriate material to our customers and we offer training courses, which qualify for production of hose assemblies meeting the high requirements regarding safety and quality. First-Class skilled personnel with expert know-how provide decisive competitive advantages. The production of hose assemblies with the best machines available on the global market ensures quality and safety.

TRAINING

Interesting to know

In 2016, we commissioned a market study showing the following interesting results:

Many manufacturers of hose assemblies are using targeted trainings and practical trainings for the advanced training of their employees.

But only approximately 23% of the employees of those companies are qualified regarding hoses, even though 76.3% of all customers suppose that their supplier has properly trained personnel!

1. HOSE ASSEMBLING

Theory and practice

Target Group

Manufacturers of hydraulic hose assemblies, using UNIFLEX machinery for production. Employees of the hose assembly department, quality control, maintenance and sales departments.

Theory

The participants acquire basic knowledge about
- Types of hose selection
- Rubber and thermoplastic hoses
- International standards and regulations
- Storage and storage periods of hose
- Hose fittings and connection forms

Practice

- Production of hose assemblies with UNIFLEX machines
- Cutting hose
- Marking of hose fittings
- Skiving, internal and external
- Crimping with production and service crimpers
- Cleaning and inspection of the hose assemblies

2. MACHINE MAINTENANCE

Maintenance and repair of UNIFLEX machines

The participants acquire basic knowledge about the functioning of the machines, their maintenance and repair.

Practice

All types of machine maintenance work is carried out by our experienced service staff.

Duration of training

2 days:  Day 1 – basics of hose assembling, theory and practice
          Day 2 – machine maintenance
maximum 8 persons per course
Start: 09:00 h

Cost

Each participant 795,00 €/p.P.
The participation fee includes refreshments, lunch and course materials.

Info and Inscriptions

www.uxinside.net

93.2% of all customers expect technical recommendations from their hose supplier.

42.5% of the customers believe that sales growth is associated with the requirement to train the customers regarding quality.

23.7% have a vocational education in hydraulics or fluid technology.

Only 10.2% believe that training is not the decisive factor for purchasing a machine, only the price.
Experience the Value using UNIFLEX Machines!
Share it with your Customer.

UNIFLEX Machine + Certification + Training
Your service and sales team. + ULS
(UxInside Label)

Hose assembling with maximum safety
Certification for Specialist workshop of hose assembling.

Workshop certified.

Specialist workshop for hose assembling

PROMOTE QUALITY!
Where we are and how to reach us.

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***Based on the customer-specific hose line system the working range of the machines may vary.***

We do not accept liability for printing errors and mistakes.