



# Peripheral Equipment

A comprehensive range

The best return on investment



Full service until delivery of functional, clean and inspected workpieces is essential for hose manufacture today. For this reasons, UNIFLEX offers the entire workshop equipment from a single source.



## UNIFLEX History

In 1972, the machine builder and graduate engineer Peter Schröck established UNIFLEX Hydraulik GmbH in Frankfurt/Main. Owing to pioneering innovations and extraordinary product quality, the flourishing enterprise soon developed into a global provider of machines for hose production.

UNIFLEX-Hydraulik GmbH became a member of the Freiherren Waitz group in 1992. This laid the foundation for further growth. In 1996, the company occupied a new, larger office and production building in Karben, 10 km north of Frankfurt/Main.

The subsidiary UNIFLEX of America LLC, with its present registered office in Schaumburg near Chicago, Illinois, was established in 1998 to support the markets in the Americas. In June 2004, UNIFLEX opened a subsidiary in Singapore from where our Asia-Pacific customers are served. We are also represented by offices in Tangerang, Indonesia and Shanghai, China since 2007 and 2009, respectively. In 2013 subsidiaries opened in Montevideo, Uruguay and Bangalore, India.

Today, after more than 40 years, UNIFLEX is a system provider in hose production – from workshop equipment to production plants. Innovative and reliable as well as durable hose crimpers, cutting machines, pin prick tools, skiving machines, marking tools, test systems, software and cleaning machines have been and are being developed and marketed in close cooperation with leading hose manufacturers and users.

## UNIFLEX Product Overview

- Image Catalogue
- Production Crimpers
- Service Crimpers
- **Peripheral Equipment**
- Proof and Clean
- Special Equipment



# Peripheral Equipment

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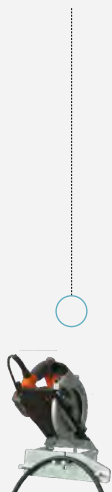


The best Return on Investment  
Since 1972

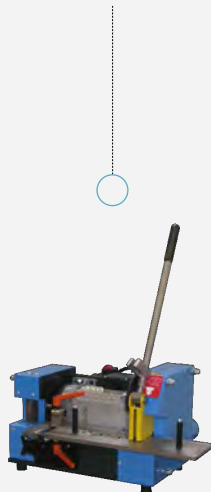


# Cutting Machine Overview

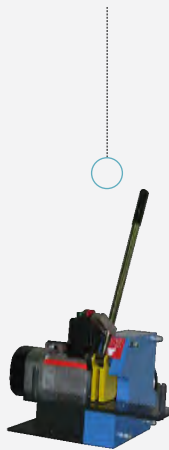
EM 1



EM 2



EM 3 Ecoline  
EM 3 DC



EM 6 M  
EM 6 P



| Technical Data          | EM 1                                                                                | EM 2                                                                                | EM 3                                                                                | EM 3 Ecoline                                                                          | EM 3 DC                                                                               |  |
|-------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
| Workshop 4SH & R15      | -                                                                                   | 1 ¼"                                                                                |                                                                                     | 1"                                                                                    | 1 ¼"                                                                                  |  |
| Production 4SH / R15    | -                                                                                   | ¾"                                                                                  |                                                                                     | -                                                                                     |                                                                                       |  |
| Industry                | 1 ¼"                                                                                | 2"                                                                                  |                                                                                     | 1 ¼"                                                                                  |                                                                                       |  |
| Drive                   | 1,2 kW                                                                              | 3 kW                                                                                |                                                                                     | 1,8 kW                                                                                | 12 V/ 24V<br>2,4 kW / 2,5 kW                                                          |  |
| Type of application     | Workshop                                                                            |                                                                                     |                                                                                     |                                                                                       |                                                                                       |  |
| First Class Advantages  |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |  |
| Ecoline                 |  |                                                                                     |                                                                                     |  |  |  |
| Universal               |  |  |  |  |  |  |
| Energy efficient        |                                                                                     |                                                                                     |                                                                                     |  |  |  |
| Brake motor             |  |  |  |  |  |  |
| Special cutting motor   |                                                                                     |  |  |  |                                                                                       |  |
| Approved cutting blades |  |  |  |  |  |  |

Technische Änderungen vorbehalten. / We reserve the right to make technical changes without notice.  
Daten abhängig von der Armatur / Data according to the fitting || Mit Grundbacken / with master dies  
Optionen sind Maschinenbauteile, die nur ab Werk lieferbar sind und nicht nachrüstbar || Options are machine parts that can only be ordered while buying the machine.

Die First Class Advantages werden im Imagekatalog genauer beschrieben.



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Since 1972



EM 8 M  
EM 8 P



EM 110



EM 115



USC 10  
USC 20



| EM 6 M |          | EM 6 P                |      | EM 8 M |  | EM 8 P |  | EM 110 |  | EM 115  |  | USC 10 / 20                                                                           |  |
|--------|----------|-----------------------|------|--------|--|--------|--|--------|--|---------|--|---------------------------------------------------------------------------------------|--|
|        | 2"       |                       |      |        |  |        |  | 3"     |  |         |  |  |  |
|        | -        | -                     | 1 ¼" |        |  | 2"     |  | 2"     |  |         |  |                                                                                       |  |
|        | 3"       |                       | 4"   |        |  |        |  | 3"     |  | 2" / 4" |  |                                                                                       |  |
|        | 4,6 kW   |                       |      |        |  |        |  | 7,5 kW |  |         |  | 4,6 kW                                                                                |  |
|        | Workshop | Production / Workshop |      |        |  |        |  |        |  |         |  |                                                                                       |  |

|  |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|--|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |                                                                                     |                                                                                       |                                                                                       |
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# Cutting Machine

## EM 1, EM 2, EM 3



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.



EM 3



EM 1



EM 2



EM 3 Ecoline



EM 3 DC

### Unique drive motor with double bearings and oversized shafts

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

Long lasting German quality steel blades, lowering the cost of ownership

### Compact design

Ideal for a mobile service

### CE compliant

Brake motor for safety

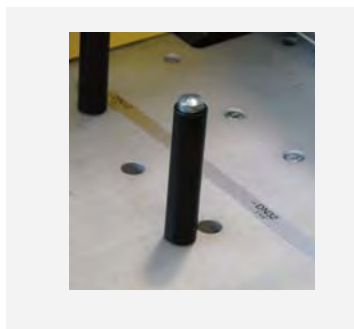
Security shield



| Technical data                              | EM 1              | EM 2            | EM 3            | EM 3 DC             | EM 3 Ecoline        |
|---------------------------------------------|-------------------|-----------------|-----------------|---------------------|---------------------|
| Production SAE R 13/ SAE R 15               | -                 | 3/4"            | 3/4"            | -                   | -                   |
| Workshop SAE R 13/ SAE R 15                 | -                 | 1 1/4"          | 1 1/4"          | 1 1/4"              | 1"                  |
| SAE R 12                                    | 5/8"              | 1 1/4"          | 1 1/4"          | 2"                  | 1 1/4"              |
| Industry                                    | 1 1/4"            | 2"              | 2"              | 2"                  | 1 1/4"              |
| Max. outside (mm)                           | Ø 45              | Ø 80            | Ø 80            | Ø 80                | Ø 52                |
| Noise level (dBA)                           | 80                | 80              | 80              | 93                  | 90                  |
| Brake motor                                 | -                 | yes             | yes             | -                   | -                   |
| Suction connection (mm)                     | Ø 30              | Ø 80            | Ø 80            | Ø 40                | Ø 40                |
| Drive (kW)                                  | 1,2               | 3               | 3               | 2 (12) / 3,2 (24)   | 1,8                 |
| Cutting blades                              | TM 160 x 2,5 x 20 | TM 275 x 3 x 30 | TM 275 x 3 x 30 | TM 250 x 2,5 x 40 Z | TM 200 x 1,6 x 25,4 |
| Brushes (DIN 5-6-8-10-12-16-19-25-31-38-51) | -                 | yes             | -               | -                   | -                   |
| L x W x H (mm)                              | 360 x 340 x 310   | 630 x 440 x 300 | 540 x 440 x 300 | 470 x 567 x 365     | 400 x 510 x 540     |
| Weight (kg)                                 | 8                 | 65              | 50              | 29                  | 20                  |
| <b>Accessory</b>                            |                   |                 |                 |                     |                     |
| TU Table                                    | yes               | yes             | yes             | yes                 | yes                 |
| Suction device                              | -                 | -               | yes             | yes                 | yes                 |
| Adapter                                     | -                 | yes             | yes             | yes                 | yes                 |
| Hose measuring tool                         | -                 | -               | yes             | -                   | -                   |
| Foot for UMS 4 (840 mm height)              | -                 | -               | yes             | -                   | -                   |
| Hose guide 2000 mm                          | -                 | -               | yes             | -                   | -                   |
| Extension 1000 mm                           | -                 | -               | yes             | -                   | -                   |



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



Guide pins ensure straight cuts, which prolongs blade life.

Accessories and more information can be found on the this catalogue's jacket.



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Since 1972



# Cutting Machine

## EM 6, EM 8



The new 2" 4SH hose cutting machine for workshops.  
Designed to perfection.



EM 6 M



EM 6 P

07



EM 8 M



EM 8 P

### Unique drive motor with double bearings and oversized shafts

Reduce scrap with straight cuts

More cuts between sharpening increases 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

Long lasting German quality steel blades, lowering the cost of ownership

### Compact design

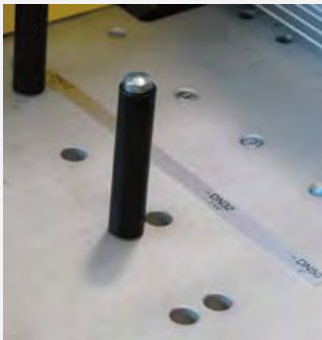
Ideal for a mobile service

### CE compliant

Brake motor for safety

Security shield

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Guide pins ensure straight cuts, which prolongs blade life.



Requiring only two screws, changing the blade is fast and saves time.

| Technical data                                             | EM 6 M            | EM 8 M            | EM 8 P            |
|------------------------------------------------------------|-------------------|-------------------|-------------------|
| Production SAE R 13/ SAE R 15                              | 1 ½"              | 1 ¼"              | 1 ¼"              |
| Workshop SAE R 13/ SAE R 15                                | 2"                | 2"                | 2"                |
| SAE R 12                                                   | 2"                | 2"                | 2"                |
| Industry                                                   | 3"                | 4"                | 4"                |
| Max. outside (mm)                                          | Ø 85              | Ø 120             | Ø 120             |
| Noise level (dBA)                                          | 90                | 90                | 90                |
| Brake motor                                                | yes               | yes               | yes               |
| Suction connection (mm)                                    | Ø 60              | Ø 60              | Ø 60              |
| Drive (kW)                                                 | 4,6               | 4,6               | 4,6               |
| Cutting blade (mm)                                         | TM G 350 x 3 x 30 | TM G 400 x 4 x 30 | TM G 400 x 4 x 30 |
| L x W x H (mm)                                             | 745 x 690 x 430   | 983 x 460 x 875   | 983 x 760 x 540   |
| Weight (kg)                                                | 75                | 122               | 140               |
| <b>Asseccory</b>                                           |                   |                   |                   |
| 329.1 - Resettable cutting counter ( for EM6)- 323.1 (EM8) |                   |                   |                   |
| UMS 4 - Hose measuring tool                                |                   |                   |                   |
| 514.1 - Foot for UMS4 (840 mm)                             |                   |                   |                   |
| UHG 14 - Hose guide 2000 mm                                |                   |                   |                   |
| UHG 14 ext.- Extension 1000 mm                             |                   |                   |                   |
| UVC                                                        |                   |                   |                   |
| USH 4 Package                                              |                   |                   |                   |

Accessories and more information can be found on the this catalogue's jacket.



# Cutting Machine

## EM 110, EM 115



The EM 110 and EM 115 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.



EM 110



EM 115

09

### Unique drive motor with double bearings and oversized shafts

Reduce scrap with straight cuts

More cuts between sharpening increases 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

Long lasting German quality steel blades, lowering the cost of ownership

### Compact design

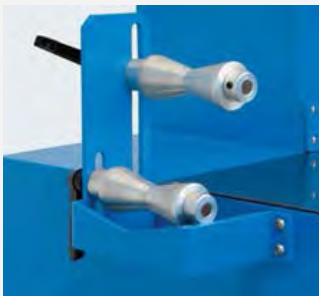
Ideal for a mobile service

### CE compliant

Brake motor for safety



| Technical Data                                                                                                                                                         | EM 110           | EM 115            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------|
| Production SAE R 13/ SAE R 15                                                                                                                                          | 3"               | 2"                |
| Workshop SAE R 13/ SAE R 15                                                                                                                                            | 3"               | 3"                |
| SAE R 12                                                                                                                                                               | 2"               | 2"                |
| Industry                                                                                                                                                               | 4"               | 3"                |
| Max. outside (mm)                                                                                                                                                      | Ø 125            | Ø 125             |
| Noise level (dBA)                                                                                                                                                      | 80               | 80                |
| Brake motor                                                                                                                                                            | ja               | ja                |
| Suction connection (mm)                                                                                                                                                | Ø 100            | Ø 108             |
| Drive (kW)                                                                                                                                                             | 7,5              | 7,8               |
| Cutting blade (mm)                                                                                                                                                     | TM G 520x4x120   | TM G 520x4x40     |
| L x W x H (mm)                                                                                                                                                         | 800 x 780 x 1700 | 1210 x 650 x 1650 |
| Weight (kg)                                                                                                                                                            | 280              | 245               |
| <b>Accessories</b>                                                                                                                                                     |                  |                   |
| Hose coiling reel UWT 2<br>UMS 4 Hose measuring tool<br>UHG 14 Hose guide 2000 mm<br>UVC<br>USH4 Package<br>514.1 Foot for UMS 4 (840mm)<br>UH4 ext. Extension 1000 mm |                  |                   |



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 holding guide (two sizes) for optimum positioning of different hose sizes.



Guide for a perfect centration of hoses.



UHG 14 Hose guide



Hose coiling reel UWT 2 +  
Hose measuring tool UMS 4

Accessories and more information can be found on the this catalogue's jacket.



# Planetary Cutting Machine

## USC 10, USC 20



### 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 and high efficiency. With a completely variable centering clamp system, all hose OD 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

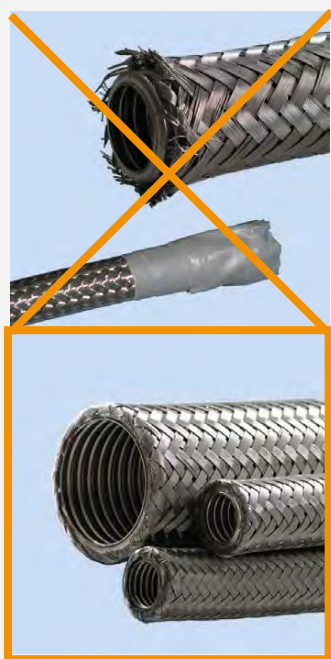
Monitoring of production by resettable total counter, batch size counter or daily cut counter

### CE compliant

Safety guards for operation without injury

USC 10 / 20

11



Hose feed guide  
UHG 325.3



UHG 14

| Technical Data                                            | USC 10             | USC 20            |
|-----------------------------------------------------------|--------------------|-------------------|
| Cutting blade (mm)                                        | TM PC 200x2x25,4   | TM PC 250x2x25,4  |
| Hose dimension:                                           | Ø DN 2...51        | Ø DN 50...100     |
| Wire forming blade                                        | 8...60 rpm         | 8...60 rpm        |
| blade                                                     | 7200 rpm           | 7200 rpm          |
| Drive                                                     | 2,4 kW             | 2,4 kW            |
| Noise level (dBA)                                         | 85                 | 85                |
| Working height                                            | 1020 mm            | 1100 mm           |
| Total power                                               | 5 kW               | 5 kW              |
| L x W x H (mm)                                            | 730 x 670 x 1400   | 730 x 770 x 1500  |
| Weight (kg)                                               | 245                | 340               |
| Wired braid                                               | < 2"               | < 4"              |
| Hose Ø                                                    | Ø3/8-2" (DN 10-51) | Ø2-4" (DN 50-100) |
| Max. Hose dimension (Cutting blade + forming blade) (rpm) | 7200 + 60          | 7200 + 60         |
| Pressure                                                  | 6 bar              | 6 bar             |
| <b>Standard</b>                                           |                    |                   |
| Control C                                                 |                    |                   |
| Belt Tension Tool                                         |                    |                   |
| Reference drive                                           |                    |                   |
| Total measurer                                            |                    |                   |
| Batch size measurer (resettable)                          |                    |                   |
| Daily measurer (resettable)                               |                    |                   |
| UMS4 514.1 Foot for UMS4                                  |                    |                   |
| <b>Accessory</b>                                          |                    |                   |
| UHG 325.3 Hose feed guide                                 |                    |                   |
| UHG 14 Hose guide 2000 mm                                 |                    |                   |
| UHR 14 ext. Extension hose guide 1000 mm                  |                    |                   |



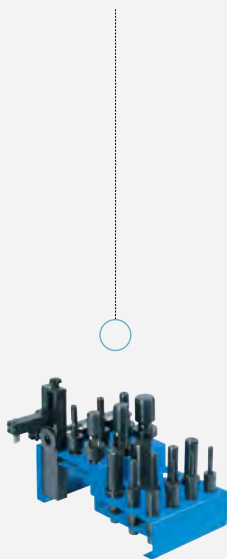
Improved centering hose clamp fixture. Longer, grooved rollers ensure a better grip.

Accessories and more information can be found on the this catalogue's jacket.



# Hose Skiving Machine Overview

**USM 2**



**USM 10  
USM 10 Ecoline  
USM 10 S**

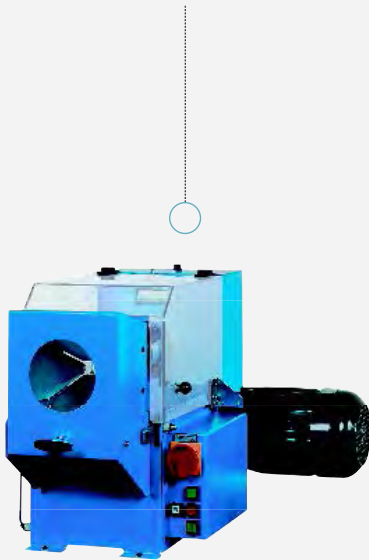


| Technical Data                           | USM 2                                                                               |                                                                                     | USM 10                                                                                | USM 10 Ecoline                                                                        | USM 10 S |
|------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------|
| Internal skiving                         | 5" / 8" - 2"                                                                        |                                                                                     |                                                                                       |                                                                                       |          |
| External skiving                         | 3" / 16" - 2"                                                                       |                                                                                     |                                                                                       |                                                                                       |          |
| Drive                                    | Manual                                                                              | 0,37 kW (1~)                                                                        | 0,37 kW (3~)                                                                          |                                                                                       |          |
| Type of application                      | Mobile                                                                              | Workshop                                                                            |                                                                                       |                                                                                       |          |
| First Class Advantages                   |                                                                                     |                                                                                     |                                                                                       |                                                                                       |          |
| Simultaneous internal & external skiving |                                                                                     |                                                                                     |                                                                                       |                                                                                       |          |
| Universal                                |  |  |  |  |          |
| Ecoline                                  |  |                                                                                     |  |                                                                                       |          |

The First Class Advantages are explained in the Image Catalogue.



**USM 100**



**USM 125**



| USM 100 |                                                                                     | USM 125 |                                                                                       |
|---------|-------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------|
|         | 3/4" - 2 1/2"                                                                       |         | 5/8" - 4"                                                                             |
|         | 1/4" - 2"                                                                           |         | 5/8" - 4"                                                                             |
|         | 1,2 / 1,8 kW (3~)                                                                   |         | 1,1 / 2,2 kW                                                                          |
|         | Production                                                                          |         | Production                                                                            |
|         |  |         |  |
|         |  |         |  |
|         |                                                                                     |         |                                                                                       |



# Hose Skiving Machines

## USM 2 + USM 10



The new skiving machine: The fastest change-over time due to preset tools and simple locking pins.

The USM10 S skives internally from 5/8" up to 2" and externally from 3/16" - 2" dies, making the system the perfect solution.



USM 10 Ecoline

### User-friendly control improves efficiency

Full concentration on the piece due to control via footpedal

Big Makrolon® windows give a good overview

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

Easy exchange of skiving tool using a locking pin

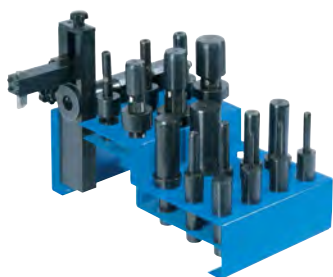
Preset tools save time. When switching from one size to another, just put in the preset skiving tool and in seconds you are skiving another size.

### CE compliant

Protective cover with gas spring for easy opening

Safety flap for injury-free working

Safe installation on the workbench



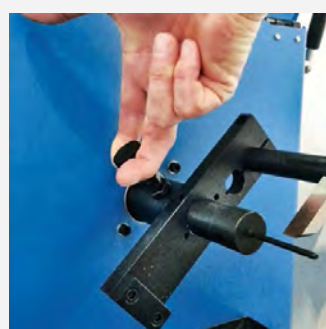
USM 2



USM 10 S



| Technical Data                                                                                            | USM 2                                                                                                                                                                                                                                            | USM 10          | USM 10 Ecoline | USM 10 S |
|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|----------|
| Internal   External skiving                                                                               | 5/8" - 2"   3/16" - 2"                                                                                                                                                                                                                           |                 |                |          |
| Noise level                                                                                               | -                                                                                                                                                                                                                                                | 60 dBA          |                |          |
| Drive                                                                                                     | Manual                                                                                                                                                                                                                                           | 0,73 kW (1~)    |                |          |
| L x W x H (mm)                                                                                            | 338 x 465 x 445                                                                                                                                                                                                                                  | 440 x 440 x 545 |                |          |
| Weight (kg)                                                                                               | 16                                                                                                                                                                                                                                               | 35              |                |          |
| Tool speed                                                                                                | -                                                                                                                                                                                                                                                | 110 rpm         |                |          |
| Options                                                                                                   |                                                                                                                                                                                                                                                  |                 |                |          |
| SSG slitting tool - to shorten skiving chips<br>USM 10 S: PJ_RKSTLS Tool rack                             |                                                                                                                                                                                                                                                  |                 |                |          |
| Accessory                                                                                                 |                                                                                                                                                                                                                                                  |                 |                |          |
| 313.1 Mandrel (Set with 6 mandrels - UIS.3 - 16, 19, 25, 32, 38, 51) (USM 10, USM 10 Ecoline)<br>TU Table |                                                                                                                                                                                                                                                  |                 |                |          |
| Packages                                                                                                  |                                                                                                                                                                                                                                                  |                 |                |          |
| USM 2                                                                                                     | + internal skiving mandrel (PJ_EXB 250- DN 05, 06, 08, 10, 12, 16, 19, 25, 32,38, 50)<br>+ internal skiving tool (UIS.2 DN 16, 19, 25, 32, 38, 51)                                                                                               |                 |                |          |
| USM 10                                                                                                    | + internal skiving mandrel (PJ_EXB 250- 05, 06, 08, 10, 12, 16, 19, 25, 32,38, 50)<br>+ internal skiving tool (UIS.2 DN 16, 19, 25, 32, 38, 51)                                                                                                  |                 |                |          |
| USM 10 S                                                                                                  | with preset tools for fast and easy tool change with 11 external skiving tools<br>(UES.3 - 05, 06, 08, 10, 12, 16, 19, 25, 31, 38, 51)<br>+ 313.1 (Set with 6 internal skiving tools - UIS.3- 16, 19, 25, 31, 38, 51)<br>+ tool rack (PJ_RKSTLS) |                 |                |          |
| USM 10 S + TU                                                                                             | same as USM 10 S package, additional:<br>Machine and tool rack mounted on the UNIFLEX table TU<br>incl. internal skiving tool, external skiving machine and tool rack mounted on the TU                                                          |                 |                |          |



Easy exchange of skiving tool using a locking pin on USM 10.



Skiving mandrels manually adjustable.



Electricity cut for security.



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 of USM 10 Ecoline for all dimensions.

Accessories and more information can be found on the this catalogue's jacket.

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# Hose Skiving Machines

## USM 100, USM 125



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 125 is stable machine for skiving up to 4" industry hoses. The double-skiving tool with reinforced mandrels can be controlled separately or simultaneously without changing the tool.



USM 125

### User-friendly control improves efficiency

Full concentration on the piece due to control via footpedal

Big Makrolon® windows give a good overview

Hose guiding system can be controlled manually

Easy access to trash bottom drawer

Simultaneous interna 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

Protective cover with gas spring for easy opening

Safety flap for injury-free working

Safe installation on the workbench



USM 100



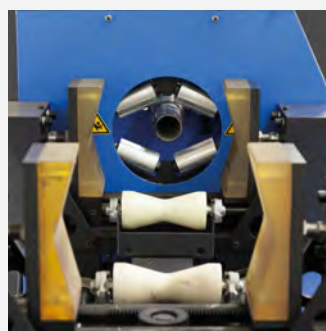
TU table available as an accessory.



The SSG slitting tool shortens skiving chips



Double skiving tool with hose



Clamping unit with wheels for up to 4" hoses

### USM 100 Package

#### Machine

- + 5 internal skiving mandrels UIT Ø20-Ø50
- + 5 internal skiving tools UOP 6,8,10,12,16
- + 1 external skiving tool (UOT 6 - 50)
- + 1 chuck (307.903)

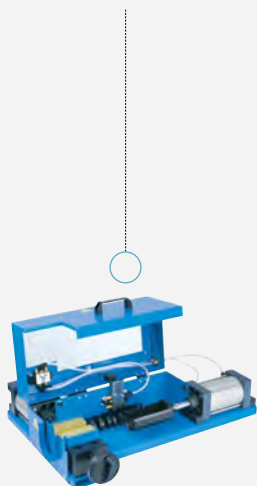
| Technical Data                                                                        | USM 100           | USM 125                          |
|---------------------------------------------------------------------------------------|-------------------|----------------------------------|
| Internal skiving                                                                      | 3/4" - 2 1/2"     | 5/8" - 4"                        |
| external skiving                                                                      | 1/4" - 2"         | 5/8" - 4"                        |
| Noise level                                                                           | 60 dBA            | 60 dBA                           |
| Drive                                                                                 | 1,2 / 1,8 kW (3~) | 1,1 / 2,2 kW (~3)                |
| L x W x H (mm)                                                                        | 780 x 620 x 550   | 2330 x 885 x 1350                |
| Weight (kg)                                                                           | 70                | 150                              |
| Tool speed                                                                            | 392 / 592 rpm     | 94 rpm                           |
| <b>Standard for USM 125</b>                                                           |                   |                                  |
| Double skiving blade<br>UES 125-single (double) tool external skiving blade           |                   |                                  |
| <b>Options for USM 100</b>                                                            |                   |                                  |
| SSG slitting tool + UIS60 + UOT60 internal and external skiving tool + mandrel 2 1/2" |                   |                                  |
| <b>Accessories</b>                                                                    |                   |                                  |
| TU table for USM 100                                                                  |                   |                                  |
| UMS125 Accessory:                                                                     |                   |                                  |
|                                                                                       | UES 125-DN16      | ext. skiving tool 5/8" (DN 16)   |
|                                                                                       | UES 125-DN19      | ext. skiving tool 3/4" (DN 19)   |
|                                                                                       | UES 125-DN25      | ext. skiving tool 1" (DN 25)     |
|                                                                                       | UES 125-DN31      | ext. skiving tool 1 1/4" (DN 31) |
|                                                                                       | UES 125-DN38      | ext. skiving tool 1 1/2" (DN 38) |
|                                                                                       | UES 125-DN51      | ext. skiving tool 2" (DN 51)     |
|                                                                                       | UES 125-DN63      | ext. skiving tool 2 1/2" (DN 63) |
|                                                                                       | UES 125-DN76      | ext. skiving tool 3" (DN 76)     |
|                                                                                       | UES 125-DN89      | ext. skiving tool 3 1/2" (DN 89) |
|                                                                                       | UES 125-DN100     | ext. skiving tool 4" (DN 100)    |
|                                                                                       | UIS 125-DN16      | int. skiving tool 5/8" (DN 16)   |
|                                                                                       | UIS 125-DN19      | int. skiving tool 3/4" (DN 19)   |
|                                                                                       | UIS 125-DN25      | int. skiving tool 1" (DN 25)     |
|                                                                                       | UIS 125-DN31      | int. skiving tool 1 1/4" (DN 31) |
|                                                                                       | UIS 125-DN38      | int. skiving tool 1 1/2" (DN 38) |
|                                                                                       | UIS 125-DN51      | int. skiving tool 2" (DN 51)     |
|                                                                                       | UIS 125-DN63      | int. skiving tool 2 1/2" (DN 63) |
|                                                                                       | UIS 125-DN76      | int. skiving tool 3" (DN 76)     |
|                                                                                       | UIS 125-DN89      | int. skiving tool 3 1/2" (DN 89) |
|                                                                                       | UIS 125-DN100     | int. skiving tool 4" (DN 100)    |

Accessories and more information can be found on the this catalogue's jacket.

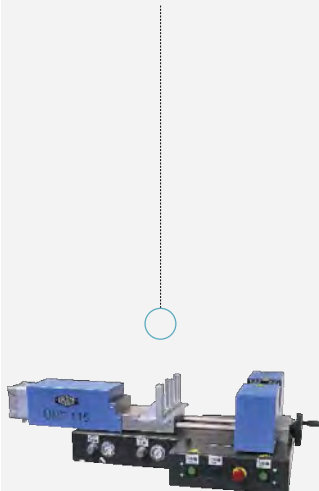


# Nipple Inserter, Pin Prick and Marking Machine Overview

**UNE 10**



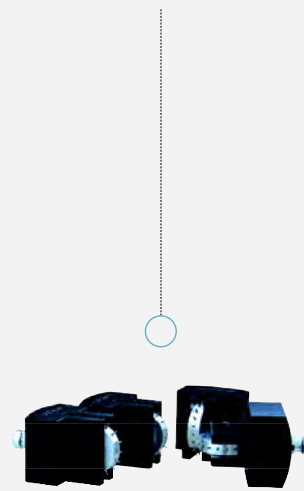
**UNE 115**



**PR 10**



**PR PB**



| Technical Data                                        |  | UNE 10                         | Technical Data                |  | UNE 115          | Technical Data                |  | PR 10           |
|-------------------------------------------------------|--|--------------------------------|-------------------------------|--|------------------|-------------------------------|--|-----------------|
| Max. nipple insertion (AD fitting, straight or elbow) |  | < 2" (depends on manufacturer) | Working range                 |  | 0 - 3"           | Working range                 |  | Ø 8 - 45 mm     |
|                                                       |  |                                | Hose max. ext.                |  | Ø 120 mm         | L x W x H (mm)                |  | 290 x 150 x 330 |
|                                                       |  |                                | Pressure connection           |  | 8 bar            | Weight (kg)                   |  | approx. 8       |
| Force                                                 |  | 4,7 kN (6 bar)                 | Insertion force               |  | 8 kN (7 bar)     | <b>First Class Advantages</b> |  |                 |
| Piston stroke                                         |  | 100 mm                         | Clamping force                |  | 8 kN (7 bar)     |                               |  |                 |
| L x W x H (mm)                                        |  | 600 x 810 x 310                | Control                       |  | Footpedal        |                               |  |                 |
| Weight (kg)                                           |  | 35                             | L x W x H (mm)                |  | 625 x 1185 x 320 | <b>First Class Advantages</b> |  |                 |
| Connection                                            |  | 7 bar                          | Weight (kg)                   |  | 100              |                               |  |                 |
| <b>First Class Advantages</b>                         |  |                                | <b>First Class Advantages</b> |  |                  |                               |  |                 |
| Universal                                             |  |                                | Universal                     |  |                  |                               |  |                 |

The First Class Advantages are explained in the Image Catalogue.



**UP 10 Ecoline**



**UP 115**



**UIM 4**



| Technical Data              |                 |                 | UP 10 Ecoline |  | UP 115                 | Technical Data        |                     |  | UIM 4 |
|-----------------------------|-----------------|-----------------|---------------|--|------------------------|-----------------------|---------------------|--|-------|
| Marking area                | Ø 8 - 80 mm     | Ø 11,5 - 100 mm |               |  |                        | Working range         | 1 1/4" (up to DN32) |  |       |
| Marking depth               | ~ 0,5 mm        | ~ 0,5 mm        |               |  |                        | Marking depth         | 10 - 60 mm          |  |       |
| Insertable steel characters | 25 pieces       | 15 pieces       |               |  |                        | Production capability | 700 h               |  |       |
|                             |                 |                 |               |  |                        | Air Pressure          | 5 bar (21 PSI)      |  |       |
| L x W x H (mm)              | 285 x 265 x 410 | 625 x 465 x 325 |               |  |                        | L x W x H (mm)        | 210 x 240 x 310     |  |       |
| Weight (kg)                 | 10              | 48              |               |  |                        | Weight (kg)           | 4,5                 |  |       |
| First Class Advantages      |                 |                 |               |  | First Class Advantages |                       |                     |  |       |
| Universal                   |                 |                 |               |  | Universal              |                       |                     |  |       |
| Ecoline                     |                 |                 |               |  |                        |                       |                     |  |       |

The First Class Advantages are explained in the Image Catalogue.



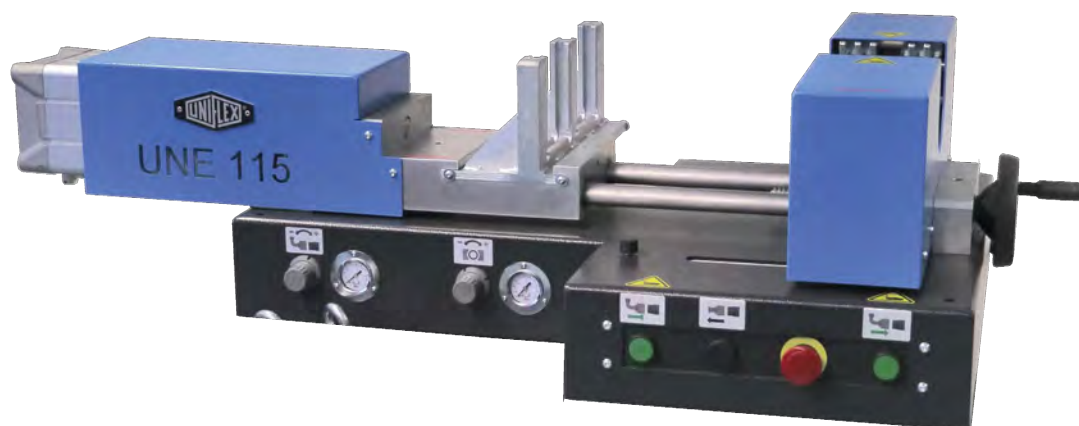
# Nipple Inserters

## UNE 10, UNE 115

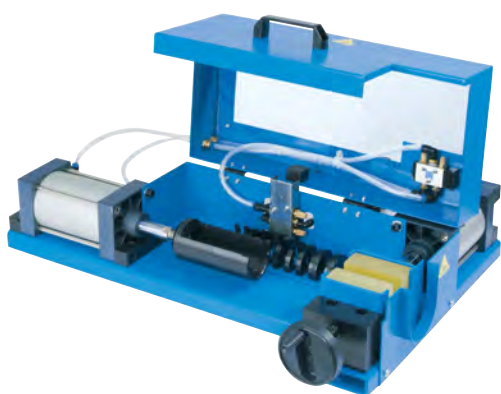


### Two tasks — one machine

The UNE 10 and UNE 115 are high-performance tools for production and the workshop. This equipment now permits 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.



UNE 115



UNE 10

### Ergonomic

Freely positionable foot pedal for clamping hose saves time and increases productivity - UNE 115

Lifting eyelets for easy positioning of the machine - UNE 115

### Easy handling

Universal hose clamping dies for all hose diameters without the need for changeover 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 and saves costs

Rapid sled for inserting curved and straight fittings without time-consuming exchange of fork sets saves time

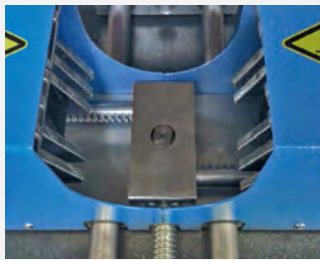
### Safety compliant

Moving components have safety guards

CE-compliant, robust UNIFLEX quality



Save controls and a foot pedal that can be positioned freely



Security clamping unit



Axially adjustable clamping unit  
- prevents bending of small hose dimensions

#### 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               |

#### Technical Data

#### UNE 10

|                                                       |                                |
|-------------------------------------------------------|--------------------------------|
| Max. nipple insertion (AD fitting, straight or elbow) | < 2" (depends on manufacturer) |
| Force                                                 | 4,7 kN (6 bar)                 |
| Piston stroke                                         | 100 mm                         |
| L x W x H (mm)                                        | 600 x 810 x 310                |
| Weight (kg)                                           | 35                             |
| Connection                                            | 7 bar                          |

#### First Class Advantages

|           |  |
|-----------|--|
| Universal |  |
|-----------|--|

#### Technical Data

#### UNE 115

|                         |                  |
|-------------------------|------------------|
| Working range           | 0 - 3"           |
| Hose max. ext.          | Ø 120 mm         |
| Air pressure connection | 8 bar            |
| Insertion force         | 8 kN (7 bar)     |
| Clamping force          | 8 kN (7 bar)     |
| Control                 | buttons          |
| L x W x H (mm)          | 625 x 1185 x 320 |
| Weight (kg)             | 100              |

#### First Class Advantages

|           |  |
|-----------|--|
| Universal |  |
|-----------|--|

#### 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)

#### Accessories

|                                                                  |
|------------------------------------------------------------------|
| TU Table                                                         |
| 778.2 Satz hard rubber wheels (4 pieces) - 2 incl. locking brake |

#### Voltages

|                         |
|-------------------------|
| UNE 115 7 bar / 100 PSI |
|-------------------------|

Accessories and more information can be found on the this catalogue's jacket.

Technische Änderungen vorbehalten. / We reserve the right to make technical changes without notice.  
Daten abhängig von der Armatur / Data according to the fitting || Mit Grundbacken / with master dies  
Optionen sind Maschinenbauteile, die nur ab Werk lieferbar sind und nicht nachrüstbar || Options are machine parts that can only be ordered while buying the machine.



# Pin Prick Tools

## PR 10, PR PB



The use of gas hoses (e.g. compressed air, nitrate, etc.) requires perforating the outer layer. With low effort, the PR 10 makes perforating the outer layer of hoses easy.

The established UNIFLEX quality gives you a precisely tool to work with hoses up to an outer diameter of 45 mm.



PR 10

### Perforating with standards

Constant and quick adjustments of the prick depth directly on the machine

Closable needles

Pricking from 4 sides simultaneously

No injury to the pressure holder

### Patent solution vs. costs

No investments for additional machines

No maintenance

Saves time due to reproducible adjustments of the prick depths

Easy handling

### Compact construction and tried-and-tested technique

Even from 8 mm ext.Ø perforating is possible

Saves space

### User-friendly

Easy adjustment of hose dimensions

2, 3 or 4 wheels can perforate, depending on what is needed

Perforating wheels are adjustable in height

Saves money

### No course of instruction needed



PB PR 266 P



PR PB 232 F



PR PB 237 G



Delivery in a set of 4 pieces

## Technical Data

## PR 10

|                |                 |
|----------------|-----------------|
| Working range  | Ø 8 - 45 mm     |
| L x W x H (mm) | 290 x 150 x 330 |
| Weight (kg)    | approx. 8       |

## First Class Advantages

Universal



Constant prick depth



Side view



With perforating dies

### 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

### Perforating dies

- PR PB-232 F in profile 232 F
- PR PB-237 G in profile
- PR PB-266 P in profile 266 P

Accessories and more information can be found on the this catalogue's jacket.



# Marking Machines

## UP 10 Ecoline, UP 115



The UNIFLEX marking tool UP 10 Ecoline 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 control 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 will give you an exact and easy-to-handle tool. The robust technology and low maintenance makes it a perfect machine for mobile operations or workshops.

### Compact Design

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

### User-friendly

The metric thread makes individual and easy height adjustments possible

Precise and robust technique

Easy handling and adjustments

Low maintenance



UP 10 Ecoline



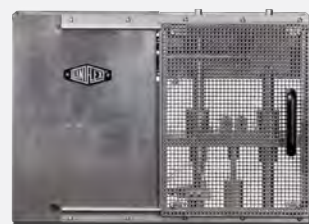
UP 115



Type holder for  
the UP115



Mechanical  
counter for the  
UP 115



UP 115 closed

| Technical Data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | UP 10 Ecoline   | UP 115          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|
| Marking area                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Ø 8 - 80 mm     | Ø 11,5 - 100 mm |
| Marking depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ~ 0,5 mm        | ~ 0,5 mm        |
| Insertable steel types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 25 pieces       | 22 pieces       |
| L x W x H (mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 285 x 265 x 410 | 625 x 465 x 325 |
| Weight (kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10              | 48              |
| <b>Accessory</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                 |
| UP10 Ecoline: 504.003 unwind-type-holder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |                 |
| <b>Package</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                 |
| UP 10 Eco + UPTS 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |                 |
| UP 115 + UPTS 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |                 |
| <u>UPTS 10 Character type set</u><br>Character : 1x A, B, I, N, R, S, /, 2x P, 10x empty, 4x Character of choice [ 4 mm high 2,5 mm wide]<br>Figure : 6 x 1; 5 x 2,3,4,5; 4 x 6; 3 x 7,8,9; 4 x 0<br>Placeholder: 1 x 504.033.4 (5-times) + 504.034.4 (10-times)<br>Neutral: brush, tweezer, mirror<br><br><u>PTS 100 Character type set</u><br>Character: 1x A, B, I, N, R, S, /, 2x P, 10x empty, 4x Character of choice<br>5 mm high, 3 mm wide<br>Figure: 6 x 1; 5 x 2,3,4,5; 4 x 6; 3 x 7,8,9; 4 x 0<br>Neutral: brush, tweezer, mirror |                 |                 |



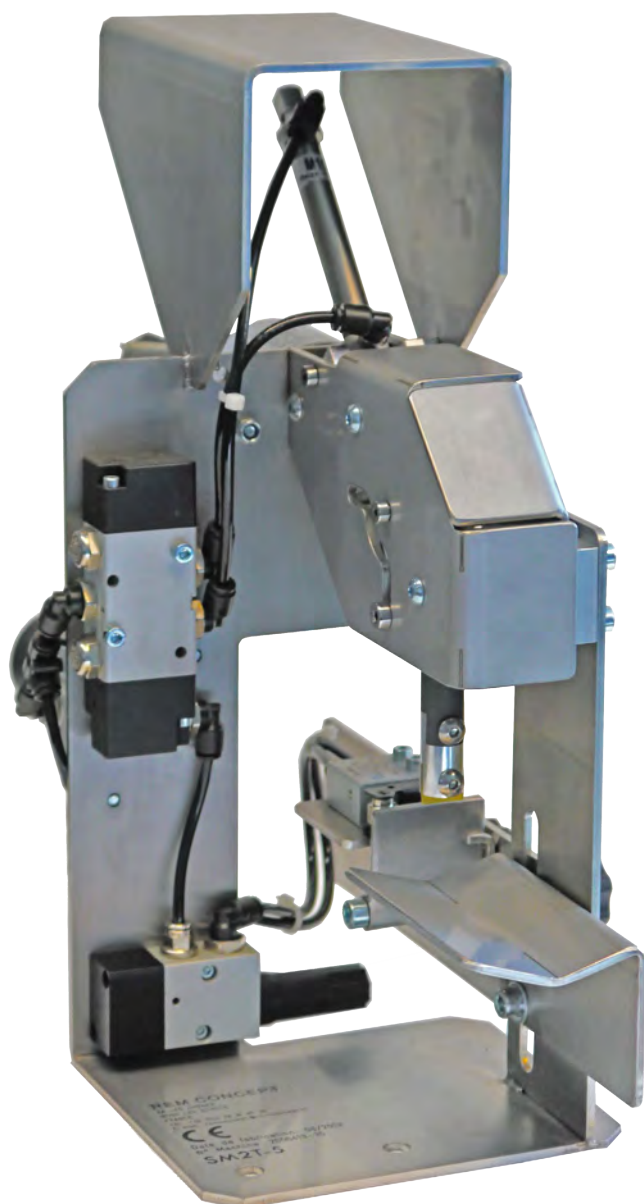
# Marking Machines

## UIM 4



The UIM4 is a low cost insert marking tool for up to 1 ¼" hoses. Your safety will be improved by using marked hoses. The marking can be repeated exactly.

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

After 20 hours or 14.000 hoses the amortisation point is reached

Minimum space requirements and easy handling make long trainings or otherwise costly stationaries needless

Reduction of discard through exact positioning of hoses and tools

The save and cost saving positioning of the tool-sincreases 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 get dry

One ink cartridge lasts for approx. 10.000 markings with a marking length of 10-60 mm

### Technical innovations for steady quality

Pneumatic activation of the stamp

Clean markings

Exact and stable markings in each repetition

### CE conformity

UIM 4

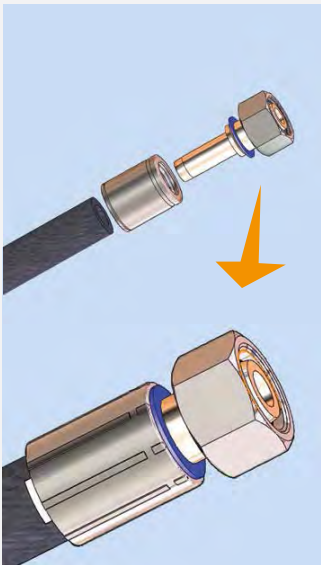
27



Pneumatic  
stamp



Marks with  
a pressure  
stamp



Optimal  
marking  
process

| Technical Data                                           | UIM 4               |
|----------------------------------------------------------|---------------------|
| Working range                                            | 1 1/4" (up to DN32) |
| Marking length                                           | 10 - 60 mm          |
| Production time max.                                     | 700 h               |
| Air pressure                                             | 5 bar (21 PSI)      |
| L x W x H (mm)                                           | 210 x 240 x 310     |
| Weight (kg)                                              | 4,5                 |
| <b>Accessories</b>                                       |                     |
| REM_UIM4_PAD 5 ink pads                                  |                     |
| REM_UIM_4 INK_ KIT (white) 5 ink cartridge + dilutant    |                     |
| REM_UIM_4 INK_ KIT_BK (black) 5 ink cartridge + dilutant |                     |
| <b>Voltage</b>                                           |                     |
| REM_UIM4 5 bar                                           |                     |

Accessories and more information can be found on the this catalogue's jacket.



# Voltages and Accessories

| Voltages (more on demand) |                                                                                       | Accessories                                                          |                                                                                                                                                                                                                                      |
|---------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EM 1                      | EM 1.1_23 : 220-240 volt 50/60 hz 1 phase                                             |                                                                      |                                                                                                                                                                                                                                      |
| EM 2                      | EM 2.2_00 : 380-420 volt 50 Hz 3 phases<br>EM 2.2_20 : 220-240 Volt 50/60 hz 3 phases |                                                                      |                                                                                                                                                                                                                                      |
| EM 3                      | EM 3.3_00 : 380-420 volt 50 Hz 3 phases                                               | <b>TU Workbench</b><br>for machines                                  | <b>Suction device</b><br>with spark arrester<br>(UVC S36-21 +<br>UVC S36-FL)<br>UVC Adapter<br>Art. Ø<br>777.054 40 mm EM 3.2DC, EM 3.2 Eco<br>777.055 60 mm EM 8.3, EM 6.2<br>777.056 80 mm EM2, EM 3, EM3 DC, EM6,<br>EM 8, EM 8.2 |
|                           | EM 3.3_20_21 : 220-240 Volt 50/60 hz 3 phases                                         |                                                                      |                                                                                                                                                                                                                                      |
|                           | EM 3.2 ECOLINE_23 : 220-240 volt 50/60 hz 1 phase                                     |                                                                      |                                                                                                                                                                                                                                      |
|                           | EM 3.4-DC_90 : 12 Volt Dc<br>EM 3.4-DC_91 : 24 Volt DC                                |                                                                      |                                                                                                                                                                                                                                      |
| EM 6                      | EM 6.1P_00 : 380-420 volt 50 Hz 3 phases                                              |                                                                      |                                                                                                                                                                                                                                      |
|                           | EM 6.1P_20_21 : 220-240 Volt 50/60 hz 3 phases                                        |                                                                      |                                                                                                                                                                                                                                      |
|                           | EM 6.2 M_00 : 380-420 volt 50 Hz 3 phases                                             |                                                                      |                                                                                                                                                                                                                                      |
|                           | EM 6.2 M_20_21 : 220-240 Volt 50/60 hz 3 phases                                       |                                                                      |                                                                                                                                                                                                                                      |
| EM 8                      | EM 8.3 M_00 : 380-420 volt 50 Hz 3 phases                                             |                                                                      |                                                                                                                                                                                                                                      |
|                           | EM 8.3 M_20_21 : 220-240 Volt 50/60 hz 3 phases                                       |                                                                      |                                                                                                                                                                                                                                      |
|                           | EM 8.3 P_00 : 380-420 volt 50 Hz 3 phases                                             |                                                                      |                                                                                                                                                                                                                                      |
|                           | EM 8.3 P_20_21 : 220-240 Volt 50/60 hz 3 phases                                       |                                                                      |                                                                                                                                                                                                                                      |
| EM 110                    | EM 110.1H_00 : 380-420 volt 50 Hz 3 phases                                            | <b>UHG 14+ UHG 14 ext</b><br>hose guide 2000mm<br>+ extension 1000mm | <b>323.1</b> (für EM8)<br>resettable cutting<br>counter                                                                                                                                                                              |
|                           | EM 110.1H_20 : 220-240 Volt 50/60 hz 3 phases                                         |                                                                      |                                                                                                                                                                                                                                      |
| EM 115                    | EM 115.2_00 : 380-420 volt 50 Hz 3 phases                                             |                                                                      |                                                                                                                                                                                                                                      |
|                           | EM 115.2_20_21 : 220-240 Volt 50/60 hz 3 phases                                       |                                                                      |                                                                                                                                                                                                                                      |
| USC 10                    | USC 10.2_00 : 380-420 volt 50 Hz 3 phases                                             |                                                                      |                                                                                                                                                                                                                                      |
|                           | USC 10.2_20 : 220-240 Volt 50/60 hz 3 phases                                          |                                                                      |                                                                                                                                                                                                                                      |
| USC 20                    | USC 20.2_00 : 380-420 volt 50 Hz 3 phases                                             |                                                                      |                                                                                                                                                                                                                                      |
|                           | USC 20.2_20 : 220-240 Volt 50/60 hz 3 phases                                          |                                                                      |                                                                                                                                                                                                                                      |
| USM 2                     | USM 2.2 : Manual                                                                      |                                                                      |                                                                                                                                                                                                                                      |
| USM 10                    | USM 10 ecoline_23 : 230 Volt 50 Hz 1 phase                                            |                                                                      |                                                                                                                                                                                                                                      |
|                           | USM 10 ecoline_22 : 220 Volt 60 Hz 1 phase                                            |                                                                      |                                                                                                                                                                                                                                      |
|                           | USM 10_S_00 : 380-420 volt 50 Hz 3 phases                                             |                                                                      |                                                                                                                                                                                                                                      |
|                           | USM 10_S_20_21 : 220-240 Volt 50/60 hz 3 phases                                       |                                                                      |                                                                                                                                                                                                                                      |
| USM 100                   | USM 100_00 : 380-420 volt 50 Hz 3 phases                                              |                                                                      |                                                                                                                                                                                                                                      |
|                           | USM 100_20 : 220-240 Volt 50/60 hz 3 phases                                           |                                                                      |                                                                                                                                                                                                                                      |
| USM 125                   | USM 125_00 : 380-420 volt 50 Hz 3 phases                                              |                                                                      |                                                                                                                                                                                                                                      |
|                           | USM 125_20_21 : 220-240 Volt 50/60 hz 3 phases                                        |                                                                      |                                                                                                                                                                                                                                      |
| UNE 10                    | UNE 10.1 : Pneumatic                                                                  |                                                                      |                                                                                                                                                                                                                                      |
| UNE 115                   | UNE 115 : Pneumatic                                                                   |                                                                      |                                                                                                                                                                                                                                      |
| PR                        | PR 10.2 : Manual                                                                      |                                                                      |                                                                                                                                                                                                                                      |
|                           | PR PB-232 F : Tool                                                                    |                                                                      |                                                                                                                                                                                                                                      |
|                           | PR PB-237 G : Tool                                                                    |                                                                      |                                                                                                                                                                                                                                      |
|                           | PR PB-266 P : Tool                                                                    |                                                                      |                                                                                                                                                                                                                                      |
| UP 10                     | UP 10 ECOLINE : Manual                                                                |                                                                      |                                                                                                                                                                                                                                      |
| UP 115                    | UP 115_P : Pneumatic                                                                  |                                                                      |                                                                                                                                                                                                                                      |
| UIM 4                     | UIM 4 : Pneumatic                                                                     |                                                                      |                                                                                                                                                                                                                                      |
|                           |                                                                                       |                                                                      |                                                                                                                                                                                                                                      |

## Notes

[illegible]



Uniflex Innovationen – oft kopiert, nie erreicht!

Uniflex Special Innovations – often copied, never reached!

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