



# Periphery



# Content



Page 73  
**UNE 10 | UNE 115 |  
UNE 200**



Page 74  
**PR 10 | PR 12 |  
PR 14 | PR PB**



Page 75  
**Marking Machine UIM 10 |  
Bending Machine  
UBM 6-20 M**



Page 76-77  
**UP 10 Ecoline |  
UP 15 | UP 15 P**



Page 78-79  
**USM 2 | USM 10 |  
USM 10 S**



Page 80-81  
**USM 100 | USM 125 |  
USM 150**



Page 82  
**POP-LOCK  
Workshop**



# Periphery



## Universal

- For all types of hoses and fittings



## Ecoline

- Value driven solution for less frequent use



## Simultaneous Internal & External Skiving

- Simultaneous internal and external skiving in one operation

# UNE 10 | UNE 115 | UNE 200

The UNE 10, UNE 115 and the new UNE 200 are high-performance tools for production and workshops. With these machines, it is possible to both push in and pull out fittings up to 3 inches - including high-pressure hoses with the UNE 200. The innovative rapid tool slide with double holder enables bent and straight fittings to be pushed in without changing tools and ensures simple and time-saving processes.



UNE 10



UNE 115



UNE 200

Technische Daten	UNE 10	UNE 115	UNE 200
Control	A one hand	A foot pedal	A two hand
Max. nipple insertion (OD fitting, straight or elbow)	< 2*	< 3*	< 6*
Piston stroke (mm)	100	200	320
Hose Ø max. OD (mm)	80	120	200
Drive	6 bar pneumatisch	8 bar pneumatisch	3 kW 3~VAC
Insertion force (kN)	5,1	8	90
Clamping force (kN)	5,1	8	up to 500
L x W x H (mm)	600 x 810 x 310	625 x 1,185 x 320	1,300 x 750 x 1,550
Weight (kg)	35	100	580

\* According to the manufacturer.

## Description



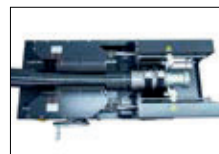
Preloading Safety control coupled to foot pedal.



Secure clamping unit.



Axially adjustable clamping unit - prevents bending of small hose dimensions.



Auto clamp system - only for the UNE 200.



The use of gas hoses (e.g., compressed air, nitrate, etc.) requires perforating the outer layer. With low effort, the PR 10, PR 12, and PR 14 make perforating the outer layer of hoses easy. The established UNIFLEX quality gives you a precision tool to work with hoses up to an outer diameter of 100 mm.



PR 10



PR 12



PR 14

Technical Data	PR 10	PR 12	PR 14
Working range (mm)	Ø 8 - 45	Ø 8 - 55	Ø 30 - 100
Pin-Prick Wheels	4	3	6
L x W x H (mm)	290 x 150 x 330	270 x 200 x 400	400 x 265 x 565
Weight (kg)	~ 8	~ 22	~ 58

### Pin Prick Dies:

Use your crimper to perforate hose lines.



Machine	PR PB	Hose Ø (0 - max. OD)	PR PB Intermediate die set
SC 6	PR PB 266 P	0 - 43 mm	./.
SC 6 ECOLINE	PR PB 266 P	0 - 45 mm	./.
SH 8 / SH 10	PR PB 237 G	0 - 45 mm	./.
SH 8 XL / SH 10 XL	PR PB 237 G	0 - 61 mm	./.
HM 230	PR PB 266 P	0 - 45mm	./.
HM 290	PR PB 232 F	0 - 68 mm	./.
HM 325	PR PB 237 G	0 - 70 mm	./.
HM 375	PR PB 237 G	0 - 70 mm	./.
HM 380	PR PB 237 G	0 - 70 mm	./.
HM 400	PR PB 554 H	0 - 130 mm	./.

Machine	PR PB	Hose Ø (0 - max. OD)	PR PB Intermediate die set
HM 420	PR PB 237 G	0 - 50 mm	245.237L
HM 450 / HM 465 / HM 495	PR PB 237 G	0 - 150 mm	245.237L
HM 480	PR PB 237 G	0 - 150 mm	245.237 L
HM 485	PR PB 237 G	0 - 130 mm	245.237 L
HM 502	PR PB 232 F	0 - 70 mm	554.232 L
HM 660	PR PB 237 G	0 - 120 mm	246.237 L
HM 665	PR PB 237 G	0 - 120 mm	298.237 L
HM 1200	PR PB 237 G	0 - 120 mm	246.237 L

## Description



Constant prick depth



Side view



Prick Wheels

### Double Prick Wheels

- Straight perforation
- No twisting of hoses

### Adjustments

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

### Compact construction

- With minimum space requirements
- Mobile usage possible

# Marking Machine UIM 10 | Bending Machine UBM 6-20 M

Use of marked hoses improves safety. The UIM 10 is a low-cost insert marking tool for up to 2" hoses. The marking can be repeated exactly. In order to assure skiving of the proper length or that the fitting is inserted properly. You can mark up to 700 hoses in an hour. This means you can manually mark hoses three times faster with a lot more precision.

The UBM 6-20 M is a universal bending device for steel pipes up to 20 mm OD. It comes with a set of 9 bending rolls for common applications. An integrated scale for angle detection helps you to reach the required pipe dimension in only one work step. The telescopic lever keeps the operator's forces low when bending rigid pipes.



UIM 10



UBM 6-20 M

Technical Data	UIM 10	Technical Data	UBM 6-20 M
Working range	2" (up to DN50)	Working range	OD Ø 6-20 mm
Marking depth (mm)	10 - 150	Bending radius (mm)	19-40
Production time max.	700/h	Tube wall thickness	2.5 mm (EN 10305)
Air pressure	5 bar (72.5 PSI)	Drive	manual
L x W x H (mm)	330 x 190 x 313	L x W x H (mm)	870 x 170 x 130
Weight (kg)	4.5	Weight (kg)	15

Stamp Pad:	Cartridges:	Solvent:
515.027.4	515.1 White 515.1 Black 515.1 Red 515.1 Yellow 515.1 Blue	515.1 Solvent

Bendings rolls included	Tube Ø outside (mm)	Bending radius (mm)
121.010.3	6	R19
024.3	8	R19
011.3	10	R21
025.3	12	R21
012.3	14	R22
013.3	15	R28
014.3	16	R30
015.3	18	R35
016.3	20	R40

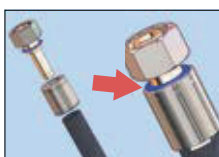


## Description UIM 10

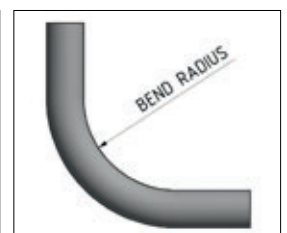
## Description UBM 6-20 M



Mark hoses precisely and quickly with the UIM 10.

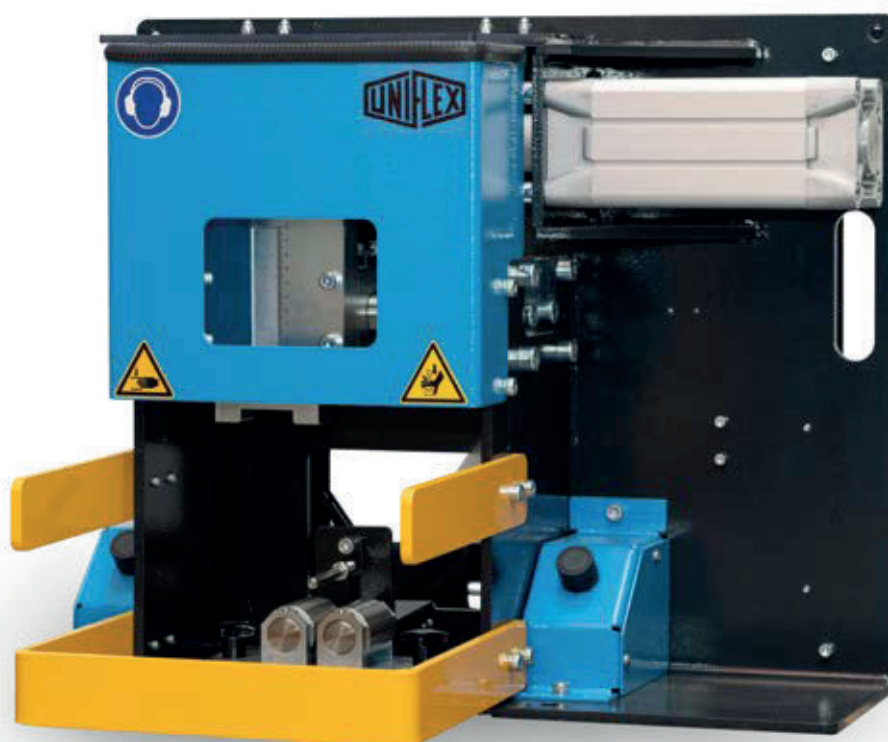


UNIFLEX insert – marking tool (ferrule position marking increases productivity and improves safety in hose sizes up to 2".





The UNIFLEX marking tool UP 10 Ecoline / UP 15 has a compact table construction. The European safety regulations DIN20066-2012-10, EN853, 854, 856, 857 stipulate that hose lines have to be marked indelibly with the manufacturer code, the assembling date and the max. pressure, e.g., XX\_YY/MM\_330 bar. This embossing will also allow you to indicate who produced the hose line and when. This is helpful information in the case of warranty claim. The new and compact UNIFLEX marking tool UP 10 Ecoline is a precise and easy-to-handle tool. The robust technology and low maintenance make it a perfect machine for mobile operations or workshops.



UP 15 P



UP 10 Ecoline



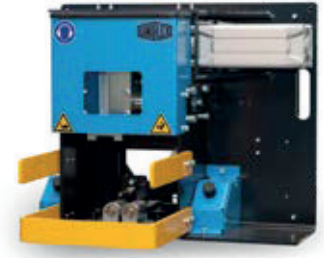
UP 15



UP 10 Ecoline



UP 15



UP 15 P \*\*

Technical Data	UP 10 Ecoline	UP 15	UP 15 P
Marking area (mm)	Ø 12 - 80	Ø 11.5 - 90	Ø 11.5 - 90
Marking depth (mm)	~ 0.5	~ 0.5	~ 0.5
Insertable steel type	25 pieces	26 pieces*	26 pieces*
Drive	Manual	Manual	Pneumatic 7 Bar (100 psi)
L x W x H (mm)	285 x 265 x 410	272 x 200 x 750	600 x 454 x 500
Weight (kg)	10	28	80

Marking depth depends on the adjustment of the marking roll.

\* Depending on the type holder.

UP 10 Package:  
UP 10 Ecoline + UPTS 10

UP 15 Package:  
UP15 mit 508.1003.3  
UPTS 100

UP 15 PBHC Package:  
UP 15 + UPTS 100  
506.050.3  
506.080

**UP 10 Ecoline Package:**

**UPTS 10**

Marking Type Set

Letters: 1 x A, B, I, N, R, S, /, 2 x P, 10 x space,  
4 x letter of own choice  
4 mm high/2.5 mm width

Numbers: 6 x 1; 5 x 2,3,4,5; 4 x 6; 3 x 7,8,9; 4 x 0  
wild character 1 x 504.033.4 (5-fold) +  
504.034.4 (10-fold)

Neutral: Brush, Tweezers, Mirror

**UP 15 Package:**

**UPTS 100**

Marking Type Set

Letters: 1x A, B, I, N, R, S, /, 2x P, 10x space,  
4x letter of own choice  
3 mm high/2 mm width

Numbers: 6 x 1; 5 x 2,3,4,5; 4 x 6; 3 x 7,8,9; 4 x 0

Neutral: Brush, Tweezers, Mirror

Description



504.003  
Additional type holder for UP 10 Ecoline. Simple change between different markings. 25 types.



508.1001.3  
Steel type holder, double row with 4 wheels for 17 steel types.  
UP 15



508.7001  
Counter for UP 15.



508.1003.3  
Steel type holder, single row with 4 wheels for 10 steel types.

508.1001.3 Steel type holder, double row with 4 wheels for 17 steel types  
508.1002.3: Steel type holder, double row without wheels for 26 steel types  
505.1002.3 Steel type holder, double row without wheel for 26 steel types  
508.1003.3 Steel type holder, single row with 4 wheels for 10 steel types



With the USM 2 and USM 10, you make the optimal hose preparation for the fitting assembly. The machines are characterized by user-friendly operation, and the convenient foot switch for USM 10 control during the skiving process. The USM 2 and USM 10 skive internally from 5/8" to 2" and externally from 3/16" to 2".

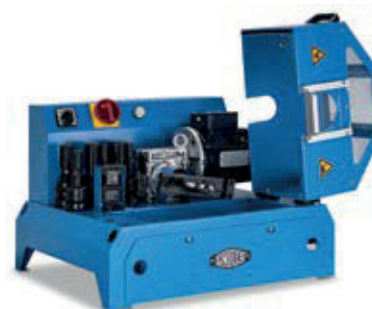
The USM 10 S skiving machine has the fastest change-over time due to preset tools and simple locking pins. The USM 10 S skives internally from 5/8" up to 2" and externally from 3/16" to 2" dies, making the system the perfect solution.



USM 10 S  
With TU Table and tooling storage (USM 10 S TU package).



USM 2



USM 10





USM 1

USM 2



USM 10 Ecoline



USM 10



USM 10 S



Technical Data	USM 1	USM 2	USM 10 Ecoline	USM 10	USM 10 S
Internal skiving	5/8" – 2"	5/8" – 2"	5/8" – 2"	5/8" – 2"	5/8" – 2"
External skiving	3/16" – 1 1/4"	3/16" – 2"	3/16" – 2"	3/16" – 2"	3/16" – 2"
Drive	Manual	Manual	0.37 kW (1~)	0.37 kW (3~)	0.37 kW (3~)
Type of application	Mobile	Mobile	Workshop	Workshop	Workshop
Noise level	-	-	60 dBA	60 dBA	60 dBA
L x W x H (mm)	338 x 465 x 445	338 x 465 x 445	440 x 440 x 545	440 x 440 x 545	440 x 440 x 545
Weight (kg)	16	28	50	50	51.5
Tool revolution	-	-	110 rpm	110 rpm	110 rpm
<b>Options</b>					
Bench	✓	✓	✓	✓	✓
SSG	✓	✓	✓	✓	✓

Packages	
USM 2	+ External skiving mandrel (PJ_EXB 250- DN 05, 06, 08, 10, 12, 16, 19, 25, 31,38, 51) + Internal skiving tool (UIS.2 DN 16, 19, 25, 31, 38, 51)
USM 10 ecoline/USM 10	+ External skiving mandrel (PJ_EXB 250- 05, 06, 08, 10, 12, 16, 19, 25, 31,38, 51) + Internal skiving tool (UIS.2 DN 16, 19, 25, 31, 38, 51)
USM 10 S	with preset tools for fast and easy tool change with 11 external skiving tools (UES.3 - 05, 06, 08, 10, 12, 16, 19, 25, 31, 38, 51) + 313.1 (Set mit 6 Dornen - UIS.3- 16, 19, 25, 31, 38, 51) + tool rack (PJ_RKSTLS)
USM 10 S TU	+ TU same as USM 10 S package, additional: Machine and tool rack mounted on the UNIFLEX table TU

## Description



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



Skiving mandrels are manually adjustable.  
1 tool on the USM 10 Ecoline for all dimensions.



Safety switch for riskless operation.



Easy adjustment of the skiving depth.



Blade adjustments for skiving depth need only to be made once for each hose dimension on the USM 10 S.



Option SFF-TU-USM10



Internal and external skiving - efficient and clean!

The USM 100, USM 125 and USM 150 are machines that prepare hoses for assembly, and skiving can be done both internally and externally simultaneously. The USM 125 and USM 150 are stable machines for skiving up to 4" and 5" hydraulic and industrial hoses.



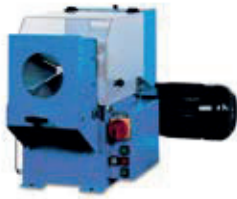
USM 150



USM 125



USM 100



USM 100



USM 125



USM 150

Technical Data	USM 100	USM 125	USM 150
Internal skiving	¾" – 2½"	⅝" – 4"	2" – 5"
External skiving	¼" – 2"	⅝" – 4"	2" – 5"
Drive	1.2/1.8 kW (3~VAC)	3.3 kW (3~VAC), 7 Bar (100 psi)	4.4 kW (3~VAC), 7 bar (100 psi)
Type of application	Production	Production	Production
Noise level	60 dBA	< 70 dBA	60 dBA
L x W x H (mm)	780 x 620 x 550	1,600 x 570 x 1,600	2,545 x 810 x 1,500
Weight (kg)	70	450	700
Tool revolution	392 rpm/592 rpm	94 rpm	94 rpm
Accessories			
SSG	Standard	✓	✓
TU Table	✓	–	–

USM 100	
Internal Skiving	UIT 20, UIT 25, UIT 32, UIT 40, UIT 50, UIT 12, UIT 60
External Skiving	UOP 06, UOP 08, UOP 10, UOP 12, UOP 16, UOP 20, UOP 25, UOP 32, UOP 40, UOP 50
External skiving tools	UOT 06 – 50, UOT 60

USM 125	
Internal Skiving	UIS 125.2 – DN 16, DN 19, DN 25, DN 31, DN 38, DN 51, DN 63, DN 76, DN 89, DN 100
External Skiving	UES 125.2 – DN 16, DN 19, DN 25, DN 31, DN 38, DN 51, DN 63, DN 76, DN 89, DN 100

USM 150	
Internal Skiving	UIS 150 – DN 31, DN 38, DN 51, DN 63, DN 76, DN 89, DN 100, DN 125
External Skiving	UES 150 – DN 31, DN 38, DN 51, DN 63, DN 76, DN 89, DN 100, DN 125

## Description



The SSG slitting tool shortens skiving chips up to 2".



Double skiving tool with hose.



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

# POP-LOCK Workshop (Hose retention system)

POP-LOCK Workshop „hose retention system“ and Pop-Lock Kit for mobile application.

Hose assemblies must be designed in such a way that in case of failure, hazards caused by whipping of the hose assembly can be avoided with suitable protective measures.

UNIFLEX offers with the POP-LOCK Workshop „hose retention system“ a solution that meets the requirements of various standards and regulations. The system is designed so that it can be used in three sizes for all common nominal diameters and different lengths. The Pop-Lock system offers special advantages for mobile use, it is easy to install, easily recognizable by the color differences. Can be installed even without disassembling the already installed hose assembly and easy assembled with standard tools.



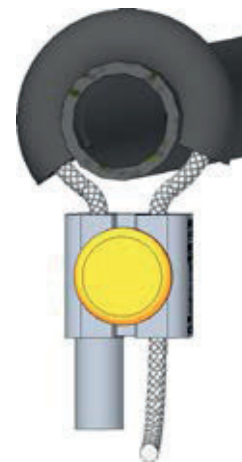
Steel cable coil  
50 meters  
1500.082 Ø3  
1500.083 Ø4  
1500.084 Ø5

Base cage  
100 pieces  
1500.100 Ø3  
1500.101 Ø4  
1500.102 Ø5

Sleeve  
100 pieces  
1500.103 Ø3  
1500.104 Ø4  
1500.105 Ø5

Special rivet  
100 pieces  
1500.106

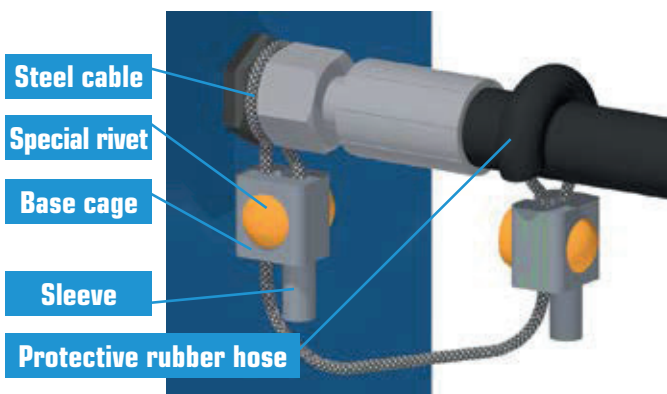
Protective rubber  
hose  
100 pieces  
1500.107



## POP-Lock Refill-Kit

1500.1019 for POP-LOCK DN5-12 (50 sets)  
1500.1020 for POP-LOCK DN16-25 (50 sets)  
1500.1021 for POP-LOCK DN32-50 (50 sets)

## Component assembling overview



Steel cable

Special rivet

Base cage

Sleeve

Protective rubber hose

## Other advantages:

- Stainless steel
- UV resistant, as completely metallic
- Oil and dirt resistant
- Secured against slipping by a blind rivet
- CE

## Ready-to-Go KIT

POP-LOCK KIT Ø3-500  
POP-LOCK KIT Ø4-750  
POP-LOCK KIT Ø5-1000

Include: Steel cable crimped on both sides with sleeves,  
2x Protective rubber hose, 2x base cage and 2x rivet



## Tools

POP-LOCK Tool-Kit 1500.1022  
777.917 Rivet gun (1 piece)  
777.918 Wire rope cutter (1 piece)  
777.902 Single hook (1 piece)  
777.903 Double hook (2 pieces)  
778.007 Cut protection gloves

