

Main Catalog

The Best Return on Investment



UNIFLEX.de

made in Germany

"We are happy when the customers of our customers are satisfied!"

(Patrick Sticker, President)



No. 1 in innovation, quality, service and price-performance ratio.

Protect our Environment

Long-lasting equipment contributes to the reduction of CO₂.



Precision

The precise production of component parts from qualified suppliers ensures the quality and long life for our machines.



Innovation

The technical department delivers designs that meet the standards for tomorrow based on customer input.

Universal

UNIFLEX machines are universal and can be used for all types of fittings and diverse applications.



Presence

The UNIFLEX Team can be contacted at all times in the following showroom-warehouses:
Karben (DE), Singapore (SG), Schaumburg (IL, USA), Montevideo (UY), Bangalore (IN), Shanghai (CN), via partner company: Yekaterinburg (RU).

sales@uniflex.de



Service & Training

Your complete satisfaction is very important to us. Therefore, we place great value on a global all-round service. service@uniflex.de

Do you need help? Send us a video:

- WeChat: +49 (0) 152/03540155
- WhatsApp: +49 (0) 152/03540155
- Skype: service@uniflex.de
- FaceTime: service@uniflex.de



Warranty

UNIFLEX is proud of all of its products and provides a 2-year warranty on all new products and a 1-year warranty on second-hand machines.

UNIFLEX Products

Leading supplier for high-quality machines

The broad range of UNIFLEX products for all applications and hose diameters offers everything the hydraulic hose industry needs in order to provide its clients with optimum quality.

Service Crimpers

Intermittent use in service and workshop applications.

P.4-25



uniflex.de



Cutting Machines

Machines for cutting hoses.

P.50-65

uxinside.net



Communication between Production Crimpers

P.27-49

Skiving Machines

Machines for skiving hoses.

P.66-71



Peripheral Equipment

More machines for hose assembly preparations.

P.72-83



Special Equipment

Custom machines for unique applications.

P.94-104



Test Benches

Machines for testing hose assemblies.

P.84-91



UXInside

Training and Certification.

P.105-107



Cleaning Devices

Machines for cleaning hoses.

P.92-93



Service Crimpers

Compact, mobile and powerful.



Greaseless

Slide bearings on the crimp tool improve efficiency up to 20%, reduce friction and help keep the tool free of contaminants.



Universal

For all types of hoses and fittings.



Ecoline

Value driven solution for less frequent use.



Ergonomic

Ease of operator use for maximum productivity.



Environment friendly

Engineered to last.



S 2



UA 4



HM 200



S 3



S 4



S 7



S 6



S 8 | S 10 | S 8 ixl | S 10 ixl

Next-generation crimper for low pressure hose assemblies. With the SL 3-16 M, UNIFLEX innovates the existing crimper: two integrated die sets in one tool. No more lost time changing the die. Just change the handle and you are already crimping the other size. No risk of losing dies, no dirty hands, no "time lost". With the built-in handle, you can easily carry it anywhere. SL 3-32 M and SL 3-75 complete the range with large opening travel up to 3".

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

Technical Data	SL 3-16 M	SL 3-32 M	SL 3-75
Crimp force (kN / Ton)	30/3	200/20	500/50
Opening travel	+31,7 mm	+36,7 mm	+55 mm
Industrial	5/8"**	1 1/4"**	3"*
Opening without dies	38,6/46,4 mm	88 mm	115 mm
Type of dies	150	263	239
Master dies length (mm)	10 mm	68 mm	75 mm
L x W x H (mm)	340 x 143 x 780	216 x 165 x 348	420 x 520 x 550
Weight	20 kg	28 kg	88 kg

* According to the fitting

** With master dies

Dies 150: 6,9 mm and 14,9 mm



SL 3-16 M



SL 3-32 M

Type of dies	
	263
Ø mm	mm
6,8	40
9	75
12	75
14	75
17	75
20	75
24	75
28	75
32	75
36	75
40	75
44	75
47	75

Type of dies	
	239
Ø mm	mm
6,5	50
9	50
10	50
12	50
14	60
16	60
17	60
19	60
20	60
22	60
24	60
26	75
28	75
30	75
31	75
32	75
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38	75
39	75
40	75
44	75
47	75
50	75
54	75
57	75
62	75

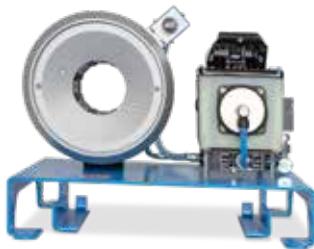


SL 3-75_A (PUU not included)

Must workshops and mobile service teams do without the power and reliability of large stationary crimpers? UNIFLEX's answer is a definite "no", and our compact, multi-purpose workshop crimpers prove that the advantages of the legendary slide bearing technology can also be used in light-weight, inexpensive equipment that will fit into almost any vehicle and workshop.



S 2 M



S 2 P



S 2 A

Ergonomic

The lightest crimper with the biggest opening in its class

Easy to handle

Two-stage hand pump

Compact Design

Fits in any workshop

Ideal for on-site service

Slide bearing technology

No greasing improves cleanliness of machine

Prolongs the machine's lifetime

Maximum productivity with very low maintenance costs

No risk of prematurely damaging the crimping head

End product can be used in sanitary applications without cleaning

20% more capability for crimping stronger or more difficult couplings versus our competition's equivalent crimpers

Consistently accurate crimp result

CE compliant

Packages



QDS 263 B

S 2 Ecoline:

S 2 Ecoline Package = Machine
+ PB Ø 17, 20, 24
+ QDS 26X B

Others:

S 2 Package = Machine
+ PB Ø 17, 20, 24, 28, 32, 40
+ QDS 26X B

Accessories



TU Table



PTS System



S 2 M H



S 2 M Ecoline



S 2 P



S 2 A



S 2 LA

Technical Data	S 2 M H	S 2 M Ecoline	S 2 P	S 2 A	S 2 LA	Type of dies
Crimp force (kN / Ton)	900/90	900/90	900/90	900/90	450/45	263
No grease: 20% less friction	✓	✓	✓	✓	✓	Ø mm mm
SAE R 12/4SP* 1 piece fitting	1 1/4"	1 1/4"	1 1/4"	1 1/4"	3/4"	6,8 40
SAE R 15/4SH* 2 piece fitting	1"	1"	1"	1"	5/8"	9 75
Industrial	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	12 75
90° Elbows	1"	1"	1"	1"	1"	14 75
Max. Crimp range	63 mm**	17 75				
Opening	+22 mm	20 75				
Opening without dies	77 mm	24 75				
Master dies length (mm)	75 mm	28 75				
Type of dies	263	263	263	263	263	32 75
Speed (mm/sec)						36 75
Close Crimp	-	-	0,9	5,8	2,4	40 75
Drive	manual	manual	pneumatic***	1 VAC	1 VAC	44 75
Oil	0,75 L	0,75 L	2 L	1,5 L	1,5 L	47 75
L x W x H (mm)	500 x 420 x 440	170 x 220 x 330	380 x 400 x 310	450 x 450 x 350	450 x 450 x 450	
Weight	32 kg	29 kg	33 kg	41 kg	56 kg	

* According to the fitting.

** With master dies.

*** 7 bar/98 psi.



New standard by S 2 M

S 2 M H and S 2 M H Ecoline with special pump.
(The low pressure delivery volume is around three times higher than the standard.)

32/3 cc instead of 11/3 cc

New head, less weight (2 kg)

Only 29 kg for 1" 4SP!
S 2 M Ecoline



Options



S 2 DC



On S 2 M models, an optical signal is given when the crimp measure is reached. The electric and pneumatic variants have an automatic stop function.



Telescopic hand-lever standard.

Additional Information

The powerful workshop crimper UA4 with its capability to crimp a wide range of hoses, up to 1 1/4 SAE R15 or 4 SH (even two-piece versions) offers maximum flexibility at a great value. The open, horizontally slidable compression dies spring open to facilitate crimping of short 90° fittings with long necks. Thanks to the standard-equipped 115 or 230 V single-phase power unit, the UA4 is ready for operation globally. This UNIFLEX crimper is also equipped with the legendary greaseless slide bearing technology.



UA 4

Easy to handle

- Openly built for easy crimping of even 90° elbow pieces
- Horizontally relocatable stamp for greater accessibility
- Divided die sets for quick and easy changes

Powerful crimping tool

- Makes crimping of hydraulic hoses possible with 1 1/2" 1 piece and 1 1/4" 2 pieces 4SP

Compact Design

- Fits in any workshop

Slide bearing technology

- No greasing improves cleanliness of machine and prolongs its lifetime
- Maximum productivity with very low maintenance costs
- Flaking cannot stick in grease, no risk of prematurely damaging the crimping head
- End product can be used in sanitary applications without cleaning
- 20% more capability for crimping stronger or more difficult couplings versus our competition's equivalent crimpers
- Consistently accurate crimp result

CE compliant

Package



QDS 280 B

Package = Machine
+ PB Ø 17, 19, 22, 25, 28, 32, 38, 44, 50
+ QDS 280 B

Accessories



TU Table



PTS System

Return stroke limiter.
280.7



UA 4



Divided, greaseless crimping die set.

Technical Data	UA 4
Crimp force (kN / Ton)	1350/135
No grease: 20% less friction	✓
SAE R 15/4SH* 1 piece fitting	1 1/4"
SAE R 15/4SH* 2 piece fitting	1"
SAE R 12/4SP* 2 piece fitting	1 1/4"
Industrial	1 1/2"
90° Elbows	1 1/4"
Max. Crimp range	65 mm
Opening	15 mm
Opening without dies	73 mm
Master dies length (mm)	70 mm
Type of dies	PB 280
Drive	0,75 kW 1 VAC
Oil	5 L
L x W x H (mm)	380 x 390 x 500
Weight of tool	65 kg
Weight of power unit	25 kg

Type of dies	
	280
Ø mm	mm
6,8	70
9	70
12	70
14	70
17	70
19	70
20	70
22	70
24	70
25	70
28	70
32	70
36	70
40	70
44	70
47	70
50	70
54	70
57	70

* According to the fitting.



Hose holder:

Hose and dies move simultaneously.
No manual movement necessary.

Additional Information



Tools can be changed cleanly and rapidly using the divided crimping die set.



Easily accessible. The small, compact design makes the UA 4 easy to use and work around.



Easy crimping of elbow pieces.

As the unrivaled classic in the 1¼" field, with its narrow and innovative construction, high level of user friendliness, versatility and long service life, the HM 200 sets the unbeatable standard for quality and cost effectiveness. Its compact construction allows for ergonomic working. The use of solid master dies allows you to crimp all types of fittings with the greaseless slide bearing technology, which also reduces maintenance costs.



HM 200



HM 200 Ecoline

Large opening

Openly built for easy crimping of even 90° elbow pieces, without having to remove all the dies

Compact Design

Fits in any workshop

Ideal for on-site service

Slide bearing technology

No greasing improves cleanliness of machine and prolongs its lifetime

Maximum productivity with very low maintenance costs

Flaking cannot stick in grease, no risk of prematurely damaging the crimping head

End product can be used in sanitary applications without cleaning

20% more capability for crimping stronger or more difficult couplings versus our competition's equivalent crimpers

Consistently accurate crimp result

ECOLINE Version

High quality for those new to crimping

CE compliant

Package



QDS 239 B



QDC 239.5

Package = Machine (With PUU for Ecoline model)

+ PB Ø 17, 20, 24, 28, 32, 40, 44, 50

+ QDS 239 B

+ QDC 239.5

Accessories



TA (A)



QDS 239 C



QDS 239 R



PTS



TU



LUF



TU Rack PB239



HM 200



HM 200 Ecoline

optional: PUU

Technical Data	HM 200	HM 200 Ecoline
Crimp force (kN / Ton)	1300/130	1300/130
No grease: 20% less friction	✓	✓
Control	Control A	Control A
SAE R 12/4SP* 1 piece fitting	1½"	1½"
SAE R 15/4SH* 2 piece fitting	1"	1"
SAE R 12/4SP* 2 piece fitting	1¼"	1¼"
Industrial	2"	2"
90° Elbows	1½"	1½"
Max. Crimp range	70 mm	70 mm
Opening	+30 mm	+30 mm
Opening without dies	100 mm	100 mm
Master dies length (mm)	75 mm	75 mm
Type of dies	239	239
Speed (mm/sec)		
Close	3,5	3,5
Crimp	3,5	3,5
Open	5,9	5,9
Noise level	69 dBA	69 dBA
Drive	3 kW 3 VAC	3 kW 3 VAC
Oil	40 L	40 L (DC 4 L)
L x W x H (mm)	800 x 530 x 630	420 x 535 x 520
Power Unit L x W x H (mm)	–	300 x 450 x 560
Weight	140 kg	92 kg (without power unit), 130 kg (with die package)
Options		
12 VDC/24 VDC	–	✓
1 Phase	✓	2,2 kW

* According to the fitting.

Type of dies	
	239
Ø mm	mm
6,5	50
9	50
10	50
12	50
14	60
16	60
17	60
19	60
20	60
22	60
24	60
26	75
28	75
30	75
31	75
32	75
34	75
36	75
38	75
39	75
40	75
44	75
47	75
50	75
54	75
57	75
62	75

Additional Information



The micrometer allows you to easily set the crimping diameter.



The large opening stroke allows you to pass 90° fittings without changing the crimp dies.



The 12 VDC/24 VDC units offer space- and weight-saving application options, e.g. for fitting service trucks.



A box with master dies is available in a package.

L x W x H (mm)
441 x 291 x 296
21 kg

Due to its narrow and innovative construction, high level of user friendliness and long service life, the S 3 sets new standards for quality and cost effectiveness. Its compact construction allows for ergonomic working. The use of long master dies allows you to crimp 90° elbow fittings up to 1 1/4" with the tried and tested greaseless slide bearing technology, which reduces maintenance costs and increases the product quality.



S 3 Ecoline



S 3 L Mobileline (131 kg)

With die package (148 kg)

Large opening

Openly built for easy crimping of even 90° elbow pieces, without having to remove all the dies

Compact Design

Fits in any workshop

Slide bearing technology

No greasing improves cleanliness of machine and prolongs its lifetime

Maximum productivity with very low maintenance costs

Flaking cannot stick in grease, no risk of prematurely damaging the crimping head

End product can be used in sanitary applications without cleaning

20% more capability for crimping stronger or more difficult couplings versus our competition's equivalent crimpers

Consistently accurate crimp result

CE compliant

Package



QDS 239 B



QDC 239.5

Package = Machine

+ PB Ø 17, 20, 24, 28, 32, 40, 44, 50

+ QDS 239 B

+ QDC 239.5

Accessories



TA (A)



QDS 239 C



QDS 239 R



PTS



TU



LUF



TU Rack PB239



SHS



S 3 Ecoline



S 3 L Ecoline



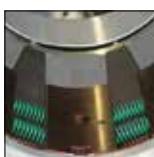
S 3 L Mobileline

Technical data	S 3 Ecoline	S 3 L Ecoline	S 3 L Mobileline
Crimp force (kN / Ton)	1200/120	1600/160	1600/160
No grease: 20% less friction	✓	✓	✓
Control	Control A	Control A	Control A
SAE R 12/4SP* 1 piece fitting	1½"	1½"	1½"
SAE R 15/4SH* 2 piece fitting	1"	1¼"	1¼"
SAE R 12/4SP* 2 piece fitting	1¼"	1½"	1½"
Industrial	2"	2"	2"
90° Elbows	1½"	1¼"	1¼"
Max. Crimp range	70 mm	70 mm	70 mm
Opening	+35 mm	+27 mm	+27 mm
Opening without dies	105 mm	97 mm	97 mm
Master dies length (mm)	100 mm	110 mm	110 mm
Type of dies	239-xx-Ø	239-xx-Ø	239-xx-Ø
Speed (mm/sec)			
Close	4,0	2,0	1,5
Crimp	4,0	2,0	0,4
Open	6,5	7,6	5,7
Noise level	69 dBA	69 dBA	69 dBA
Drive	3 kW 3 VAC	3 kW 3 VAC	1,8 kW 1 VAC
Oil	35 L	35 L	4 L
L x W x H (mm)	592 x 545 x 672	600 x 550 x 630	430 x 370 x 440
Weight	150 kg	150 kg	110 kg (without power unit)
Options			
12 VDC/24 VDC	–	–	✓
1 Phase	✓	✓	–

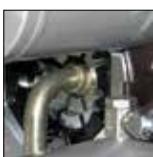
* According to the fitting.

Type of dies	
	239-xx-Ø-yy
Ø mm	mm
6,8	50
9	50
10	50
12	65
14	65
16	65
17	65
19	65
20	65
22	65
24	65
26	65
28	80
30	80
31	80
32	80
34	80
36	80
38	80
39	80
40	80
44	80
47	100
50	100
54	100
57	100
62	100

Additional Information



The S 3 series is fitted with the clean slide bearing technology.



The S 3 series can be used to crimp short 90° elbow fittings with a long drop. This is impossible for other conventional machines. (not the light model)



With the double pin connection, it is possible to crimp on the front and rear sides of S3 series machines.



The 12 VDC/24 VDC units offer space- and weight-saving application options, e.g. for fitting service trucks. L x W x H (mm) 441 x 291 x 296 21 kg



PB 239-MD-Ø 70 Closing Pin For Master dies S 3 L Ø 70 only S 3 L

As the unrivaled classic in the 1 1/4"-field, with its narrow and innovative construction, high level of user friendliness, versatility and long service life, the S 4 sets the unbeatable standard for quality and cost effectiveness. Its compact construction allows for ergonomic working. The use of solid master dies allows you to crimp all types of fittings with the tried and tested greaseless slide bearing technology, which reduces maintenance costs and increases the product quality.



S 4 C.2



S 4 Ecoline



S 4 DC Mobileline

Large opening

Openly built for easy crimping of even 90° elbow pieces, without having to remove all the dies

Compact Design

Fits in any workshop

Slide bearing technology

No greasing improves cleanliness of machine and prolongs its lifetime

Maximum productivity with very low maintenance costs

Flaking cannot stick in grease, no risk of prematurely damaging the crimping head

End product can be used in sanitary applications without cleaning

20% more capability for crimping stronger or more difficult couplings versus our competition's equivalent crimpers

Consistently accurate crimp result

ECOLINE Version

High quality for those new to crimping

CE compliant

Package



QDS 239 B



QDC 239.5

Accessories



TA (A)



QDS 239 C



QDS 239 R



PTS



TU



LUF



TU Rack PB239



SHS

Package = Machine

+ PB Ø 17, 20, 24, 28, 32, 40, 47, 54, 62

+ QDS 239 B

+ QDC 239.5



S 4 Ecoline



S 4 C.2

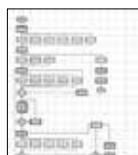


S 4 DC Mobileline

Technical data	S 4 Ecoline	S 4 C.2	S 4 DC Mobileline	Type of dies
Crimp force (kN / Ton)	1800/180	1800/180	1800/180	239-xx-θ-yy
No grease: 20% less friction	✓	✓	✓	Ø mm mm
Control	Control A	Control C.2 + Touch	Control A	6,8 50
SAE R 12/4SP* 1 piece fitting	2"	2"	2"	9 50
SAE R 15/4SH* 2 piece fitting	1½"	1½"	1½"	10 50
SAE R 12/4SP* 2 piece fitting	2"	2"	2"	12 65
Industrial	2"	2"	2"	14 65
90° Elbows	1½"	1½"	1½"	16 65
Max. Crimp range	70 mm	70 mm	70 mm	17 65
Opening	+35 mm	+35 mm	+35 mm	19 65
Opening without dies	105 mm	105 mm	105 mm	20 65
Master dies length (mm)	100 mm	100 mm	100 mm	22 65
Type of dies	239 - xx	239 - xx	239 - xx	24 65
Speed (mm/sec)				26 65
Close	2,7	2,7	0,8	28 80
Crimp	2,7	2,7	0,8	30 80
Open	4,7	4,7	1,3	31 80
Noise level	69 dBA	69 dBA	69 dBA	32 80
Drive	3 kW 3 VAC	3 kW 3 VAC	1,8 kW 1 VAC	34 80
Oil	35 L	35 L	4 L	36 80
L x W x H (mm)	592 x 545 x 672	720 x 600 x 672	509 x 430 x 485	38 80
Weight	160 kg	203 kg	132 kg	39 80
Options				40 80
12 VDC/24 VDC	–	–	✓	44 80
1~ VAC	✓	✓	–	47 100
				50 100
				54 100
				57 100
				62 100

* According to the fitting.

Control C.2: Accessories



Customized software



Electronic caliper



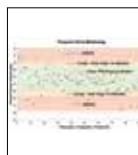
Calibration mandrel



Barcode scanner



Multistep included with Control C.2



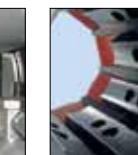
PFM included with Control C.2



The 12 VDC/24 VDC units offer space- and weight-saving application options, e.g. for fitting service trucks.



The S 4 series can be used to crimp short 90° elbow fittings with a long drop. This is impossible for other conventional machines.



With the double pin connection, it is possible to crimp on the front and rear sides of S 4 series machines.



PS Double foot pedal



RFID



ULS



807.2



Crimping by Pressure included with Control C.2



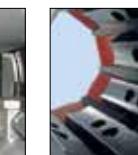
UDL included with Control C.2

C.2

Additional Information

L x W x H (mm)
441 x 291 x 296
21 kg

With the double pin connection, it is possible to crimp on the front and rear sides of S 4 series machines.



Due to its narrow, innovative construction, high level of user friendliness, and long service life, the S 7 sets the standard for quality and cost effectiveness. Balanced weight and compact engineered design make the S 7 perfect for workshops and on-site service up to 2". The tried and tested greaseless slide bearing technology reduces maintenance costs and increases the product quality.



S 7

Compact Design

Fits in any workshop

Slide bearing technology

No greasing improves cleanliness of machine and prolongs its lifetime

Maximum productivity with very low maintenance costs

Flaking cannot stick in grease, no risk of prematurely damaging the crimping head

End product can be used in sanitary applications without cleaning

20% more capability for crimping stronger or more difficult couplings versus our competition's equivalent crimpers

Consistently accurate crimp result

CE compliant

Package



QDS 239 B



QDC 239.5

Package = Machine

- + PB 17, 20, 24, 28, 32, 40, 44, 50, 57, 71
- + 265.239 L
- + QDS 239 B
- + QDC 239.5





S 7

Technical data	S 7
Crimp force (kN / Ton)	2400/240
No grease: 20% less friction	✓
Control	Control A
SAE R 15*/4SH 1 piece fitting	2"
4SH* 2 piece fitting	2"
SAE R 15* 2 piece fitting	1 1/2"
Industrial	2"
90° Elbows	1 1/2"
Max. Crimp range	82 mm
Opening	+24 mm
Opening without dies	110 mm
Master dies length (mm)	90 mm
Type of dies	239 - xx/265
Speed (mm/sec)	
Close	Manual
Crimp	0,42
Open	Manual
Noise level	70 dBA
Drive	0,75 kW 3 VAC
Oil	2,3 L
L x W x H (mm)	430 x 367 x 682
Weight	77 kg
Options	
12 VDC/24 VDC	✓
1 Phase	✓

* According to the fitting.

Accessories



TU Work Bench

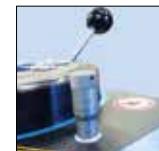


PTS System



265.2 Turntable

Additional Information



The micrometer allows you to easily set the crimping dimensions.



The QDS 239 B is available in the package.



Manual closing.



The lightest mobile 2"-service crimping machine. Also available in 12 VDC/24 VDC.

Due to its narrow and innovative construction, high level of user friendliness and long service life, the S 6 sets new standards for quality and cost effectiveness. Its compact construction allows for ergonomic working. The use of long master dies allows you to crimp 90° elbow fittings up to 2" with the tried and tested greaseless slide bearing technology, which reduces maintenance costs and increases the product quality.



S 6



S 6 Ecoline C.2



S 6 Ecoline



S 6 L Mobileline

Large opening

Openly built for easy crimping of even 90° elbow pieces, without having to remove all the dies

Big crimping tool

Crimping of 3"-industry hoses is possible

Compact Design

Fits in any workshop

Slide bearing technology

No greasing improves cleanliness of machine and prolongs its lifetime

Maximum productivity with very low maintenance costs

Flaking cannot stick in grease, no risk of prematurely damaging the crimping head

End product can be used in sanitary applications without cleaning

20% more capability for crimping stronger or more difficult couplings versus our competition's equivalent crimpers

Consistently accurate crimp result

ECOLINE Version

High quality for those new to crimping

CE compliant

Package



QDS 239 B



QDC 239.5

Accessories



TA (A)



QDS 239 C



QDS 239 R



QDS 239 S

PS Double foot pedal
(Only S 6. Not Ecoline & light models).

Package = Machine

+ PB Ø 17, 20, 24, 28, 32, 40, 44, 50, 57, 71

+ 266.239L

+ QDC 239.5

+ QDS 239 B



TU Work Bench



LUF



TU Rack PB239



SHS



PTS



S 6 Ecoline



S 6



S 6 L Ecoline

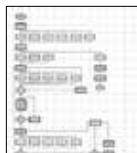


S 6 L Mobileline

Technical data	S 6 Ecoline	S 6	S 6 L Ecoline	S 6 L Mobileline	Type of dies
Crimp force (kN / Ton)	2000/200	2000/200	2400/240	2400/240	239-xx-Ø-yy 266
No grease: 20% less friction	✓	✓	✓	✓	Ø mm mm mm
Control	Control A	Control A	Control A	Control A	6,8 50
SAE R 15*/4SH 1 piece fitting	2"	2"	2"	2"	9 50
4 SH* 2 piece fitting	2"	2"	2"	2"	10 50
SAE R 15* 2 piece fitting	1½"	1½"	1½"	1½"	12 65
Industrial	3"	3"	3"	3"	14 65
90° Elbows	2"	2"	2"	2"	16 65
Crimp range	100 mm	100 mm	100 mm	100 mm	17 65
Opening	+45 mm	+45 mm	+41 mm	+41 mm	19 65
Opening without dies	147 mm	147 mm	143 mm	143 mm	20 65
Master dies length (mm)	110 mm	110 mm	110 mm	110 mm	22 65
Type of dies	239 - xx/266**	239 - xx/266**	239 - xx/266**	239 - xx/266**	24 65
Speed (mm/sec)					26 65
Close	4,9	9,7	30/1,8	10/0,5	28 80
Crimp	2,3	2,2	1,8	0,5	30 80
Open	8,2	16	10,6/30	3/30	31 80
Noise level	69 dBA	69 dBA	69 dBA	69 dBA	32 80
Drive	4 kW 3 VAC	4 kW 3 VAC	3 kW 3 VAC	1,8 kW 1 VAC	34 80
Oil	50 l	70 l	35 l	4 l	36 80
L x W x H (mm)	700 x 600 x 735	745 x 600 x 1360	600 x 550 x 750	505 x 430 x 490	38 80
Weight	275 kg	456 kg	196 kg	172 kg	39 80
Options					40 80
12 VDC/24 VDC	–	–	–	✓	44 80
1 Phase	✓	–	✓	✓	47 100
3 Phase	–	–	–	–	50 100
Control C.2	✓	✓	✓	–	54 100
					57 100
					62 100 110
					67 110
					71 110
					74 110
					78 110
					84 110
					86 110
					92 110

* According to the fitting ** Without intermediate dies

Control C.2: Accessories



Customized software



Electronic caliper



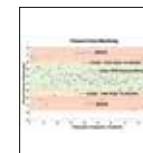
Calibration mandrel



Barcode scanner



Multistep included with Control C.2



PFM included with Control C.2



The micrometer allows you to easily set the crimping dimensions.



The 12 VDC/24 VDC units offer space- and weight-saving application options, e.g. for fitting service trucks.



The S 6 series can be used to crimp short 90° elbow fittings with a long drop. This is impossible for other conventional machines.



PS Double foot pedal



RFID



ULS



807.2



Crimping by Pressure included with Control C.2



UDL included with Control C.2

C.2

Additional Information

Due to its narrow and innovative construction, high level of user friendliness and long service life, the S 6 sets new standards for quality and cost effectiveness. Its compact construction allows for ergonomic working. The use of long master dies allows you to crimp 90° elbow fittings up to 2" with the tried and tested greaseless slide bearing technology, which reduces maintenance costs and increases the product quality. Now with 280 Ton!



S 6 S



S 6 S Ecoline



S 6 S Ecoline C.2

Large opening

Openly built for easy crimping of even 90° elbow pieces, without having to remove all the dies

Big crimping tool

Crimping of 3" industry hoses is possible

Compact Design

Fits in any workshop

Slide bearing technology

No greasing improves cleanliness of machine and prolongs its lifetime

Maximum productivity with very low maintenance costs

Flaking cannot stick in grease, no risk of prematurely damaging the crimping head

End product can be used in sanitary applications without cleaning

20% more capability for crimping stronger or more difficult couplings versus our competition's equivalent crimpers

Consistently accurate crimp result

ECOLINE Version

High quality for those new to crimping

CE compliant

Package



QDS 239 B



QDC 239.5

Accessories



TA (A)



QDS 239 C



QDS 239 R



QDS 239 S

PS Double foot pedal
(Only S 6. Not Ecoline & light models).

Package = Machine

+ PB Ø 17, 20, 24, 28, 32, 40, 44, 50, 57, 71

+ 266.239L

+ QDC 239.5

+ QDS 239 B



TU Work Bench



LUF



TU Rack PB239



SHS



PTS



S 6 S Ecoline



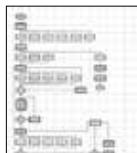
S 6 S

Technical data	S 6 S Ecoline NEW	S 6 S NEW	Type of dies
Crimp force (kN / Ton)	2800/280	2800/280	239-xx-β-yy 266
No grease: 20% less friction	✓	✓	Ø mm mm mm
Control	Control A	Control A	6,8 50
SAE R 15* / 4SH 1 piece fitting	2"	2"	9 50
4 SH* 2 piece fitting	2"	2"	10 50
SAE R 15* 2 piece fitting	2"	2"	12 65
Industrial	3"	3"	14 65
90° Elbows	2"	2"	16 65
Crimp range	100 mm	100 mm	17 65
Opening	+45 mm	+45 mm	19 65
Opening without dies	147 mm	147 mm	20 65
Master dies length (mm)	110 mm	110 mm	22 65
Type of dies	239 - xx/266**	239 - xx/266**	24 65
Speed (mm/sec)			26 65
Close	3,0	6	28 80
Crimp	1,4	1,4	30 80
Open	5,3	13,6	31 80
Noise level	69 dBA	69 dBA	32 80
Drive	4 kW 3 VAC	4 kW 3 VAC	34 80
Oil	50 L	70 L	36 80
L x W x H (mm)	700 x 600 x 735	745 x 600 x 1 360	38 80
Weight	320 kg	450 kg	39 80
Options			40 80
12 VDC/24 VDC	–	–	44 80
1 Phase	✓	–	47 100
3 Phase	–	–	50 100
Control C.2	✓	✓	54 100
			57 100
			62 100 110
			67 110
			71 110
			74 110
			78 110
			84 110
			86 110
			92 110

* According to the fitting.

** Intermediate dies not required: only S 6.

Control C.2: Accessories



Customized software



Electronic caliper



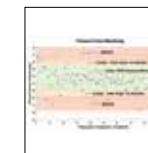
Calibration mandrel



Barcode scanner



Multistep included with Control C.2



PFM included with Control C.2



The micrometer allows you to easily set the crimping dimensions.



The 12 VDC/24 VDC units offer space- and weight-saving application options, e.g. for fitting service trucks.



The S 6 series can be used to crimp short 90° elbow fittings with a long drop. This is impossible for other conventional machines.



PS Double foot pedal



RFID



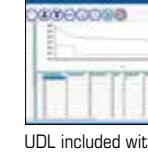
ULS



807.2



Crimping by Pressure included with Control C.2



UDL included with Control C.2

C.2

Additional Information

Due to its narrow and innovative construction, high level of user friendliness and long service life, the S 8 i/S 10 i sets new standards for quality and cost effectiveness. Its compact construction allows for ergonomic working. The use of long master dies allows you to crimp 90° elbow fittings up to 2" with the tried and tested greaseless slide bearing technology, which reduces maintenance costs and increases the product quality.



S 8 i Ecoline + S 10 i Ecoline



S 8 i + S 10 i



S 8 i C.2 + S 10 i C.2

Large opening

Openly built for easy crimping of even 90° elbow pieces, without having to remove all the dies

Big crimping tool

Crimping of 4"-industry hoses is possible

Compact Design

Fits in any workshop

Slide bearing technology

No greasing improves cleanliness of machine and prolongs its lifetime

Maximum productivity with very low maintenance costs

Flaking cannot stick in grease, no risk of prematurely damaging the crimping head

End product can be used in sanitary applications without cleaning

20% more capability for crimping stronger or more difficult couplings versus our competition's equivalent crimpers

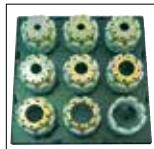
Consistently accurate crimp result

ECOLINE Version

High quality for those new to crimping

CE compliant

Package



QDS 239 B



QDC 239.5

Accessories



QDS 239 C



QDS 239 S



TA



TU Rack PB239



PS Double foot pedal (not Ecoline model).

Package = Machine

+ PB Ø 17, 20, 24, 28, 32, 40, 44, 50, 57, 71

+ 237L.239.2

+ QDS 239 B

+ QDC 239.5



SHS



PTS



LUF



Oil Cooler (OC S3/4/6/8/10)



S 8 i Ecoline | S 10 i Ecoline



S 8 i



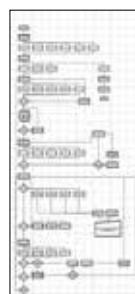
S 10 i

Technical data	S 8 i Ecoline	S 8 i	S 10 i Ecoline	S 10 i
Crimp force (kN / Ton)	2200/220	2200/220	2800/280	2800/280
No grease: 20% less friction	✓	✓	✓	✓
Control	Control A	Control A	Control A	Control A
SAE R 15*4SH 1 piece fitting	2"	2"	2"	2"
4 SH* 2 piece fitting	2"	2"	2"	2"
SAE R 15* 2 piece fitting	1½"	1½"	2"	2"
Industrial	4"	4"	4"	4"
90° Elbows	2"	2"	2"	2"
Max. Crimp range	139 mm	139 mm	139 mm	139 mm
Opening	+45 mm	+45 mm	+45 mm	+45 mm
Opening without dies	190 mm	190 mm	190 mm	190 mm
Master dies length (mm)	126 mm	126 mm	126 mm	126 mm
Type of dies	239-xx/237 L**	239-xx/237 L**	239-xx/237 L**	239-xx/237 L**
Speed (mm/sec)				
Close	4,8	6,1	4,8	6,1
Crimp	2,3	1,7	2,3	1,7
Open	7,9	10,3	7,9	10,3
Noise level	70 dBA	70 dBA	70 dBA	70 dBA
Drive	4 kW 3 VAC	4 kW 3 VAC	4 kW 3 VAC	5,5 kW 3 VAC
Oil	70 L	55 L	70 L	55 L
L x W x H (mm)	700 x 600 x 845	690 x 600 x 1400	700 x 600 x 845	690 x 600 x 1400
Weight	372 kg	390 kg	372 kg	390 kg
Options				
Control C.2	–	✓	–	✓
1 Phase	✓	–	✓	–
12 VDC/24 VDC	✓	–	✓	–

* According to the fitting. ** Intermediate dies not required.

Type of dies		Type of dies	
	239-xx-B-yy		237 L
Ø mm	mm	Ø mm	mm
6,8	50	54	118
9	50	57	118
10	50	62	118
12	65	67	118
14	65	71	118
16	65	74	118
17	65	78	118
19	65	84	118
20	65	86	118
22	65	90	118
24	65	96	118
26	65	103	118
28	80	106	126
30	80	111	126
31	80	116	126
32	80	121	126
34	80	126	126
36	80	131	126
38	80		
39	80		
40	80		
44	80		
47	100		
50	100		
54	100		
57	100		
62	100		

Control C.2: Accessories



Electronic caliper



Calibration mandrel



Barcode scanner



PS Double foot pedal

Customized software



RFID

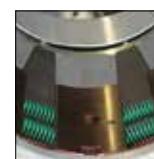


ULS



807.2

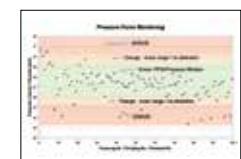
Additional Information



The S 8/10 series is fitted with the clean slide bearing technology.



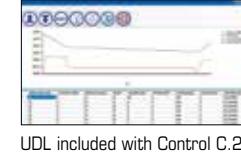
Multistep included with Control C.2



PFM included with Control C.2



Crimping by Pressure included with Control C.2



UDL included with Control C.2

Due to its narrow and innovative construction, high level of user friendliness and long service life, the S 8 i xl/10 i xl sets new standards for quality and cost effectiveness. Its large opening (+61 mm) fits industrial hoses with large flanges. The use of long master dies allows you to crimp 90° elbow fittings up to 2" with the tried and tested greaseless slide bearing technology, which reduces maintenance costs and increases the product quality.



S 8 i xl Ecoline C.2 + S 10 i xl Ecoline C.2



S 8 i xl + S 10 i xl

S 8 i xl C.2 + S 10 i xl C.2

Large opening

Openly built for easy crimping of even 90° elbow pieces, without having to remove all the dies

Big crimping tool

Crimping of 4"-industry hoses is possible

Compact Design

Fits in any workshop

Slide bearing technology

No greasing improves cleanliness of machine and prolongs its lifetime

Maximum productivity with very low maintenance costs

Flaking cannot stick in grease, no risk of prematurely damaging the crimping head

End product can be used in sanitary applications without cleaning

20% more capability for crimping stronger or more difficult couplings versus our competition's equivalent crimpers

Consistently accurate crimp result

ECOLINE Version

High quality for those new to crimping

CE compliant

Package



QDS 239 B



QDC 239.5

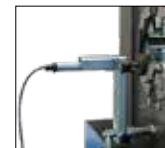
Accessories



QDS 239 C



QDS 239 S



TA



TU Rack PB239



PS Double foot pedal (not Ecoline model).



SHS



PTS



LUF



Oil Cooler (OC S3/4/6/8/10)

Package = Machine

+ PB Ø 17, 20, 24, 28, 32, 40, 44, 50, 57, 71

+ 237L.239.2

+ QDS 239 B

+ QDC 239.5



The Best Return on Investment

Since 1972



INCLUDED!

The best cost of ownership

With our global branches, quality UNIFLEX products and service are available almost anywhere. Customers worldwide have discovered how UNIFLEX products improve production, safety and profitability of their workplace.

Long die sets and ultra rigid tool:
higher crimp tolerances included

Slide bearing technology: **maintenance free included**

Hylo cylinder: **saves energy included**

6-o'clock die sets, thin construction and noiseless pump:
ergonomic included

Machine designed with high tolerance:
accurate crimp and longevity included

2 year warranty: **peace of mind included**

Everything you need is already included

Advanced control parameters in addition to the usual parameters are included:

- Crimping by pressure
- Pressure Force Monitoring
- Multistep crimping
- Data Logging



HM 325 | HM 375 | HM 380

We are happy when the customers of our customers are satisfied!

UNIFLEX of America LLC
1088 National Parkway
60173 Schaumburg, IL/USA

+1 847 519 11 00
+1 847 519 11 04
sales@uniflex.de



WWW. UNIFLEX.de
made in Germany



Production Crimpers

Innovative, productive and durable.



Greaseless

Slide bearings on the crimp tool improve efficiency up to 20%, reduce friction and help keep the tool free of contaminants.



Universal

For all types of hoses and fittings.



Fixed 6-o'clock die

Stationary bottom die for efficient positioning of the product.



Low Noise

Very quiet hydraulic system.



Ergonomic

Ease of operator use for maximum productivity.



Environment friendly

Engineered to last.



Due to its narrow and innovative construction, high level of user friendliness, and long service life, the HM 3 H sets new standards for quality and cost effectiveness. Thanks to its compact construction, it allows easy, uncomplicated, and "fast" crimping. The intuitive UNIFLEX Software on the convenient Control C.2 Touch completes the HM 3 H and ensures product quality. The HM 3 H is compact and easily accessible.



HM 3 H

Engineered solutions using quality components

Smaller machine increases ergonomics

Full length of fittings crimped in one stroke increases product quality and production efficiency

Noiseless high-quality pump

Slide bearing technology

No greasing improves cleanliness of machine and prolongs its lifetime

Maximum productivity with very low maintenance costs

Flaking cannot stick in grease, no risk of prematurely damaging the crimping head

End product can be used in sanitary applications without cleaning

20% more capability for crimping stronger or more difficult couplings versus our competition's equivalent crimpers

Consistently accurate crimp result

CE compliant

Package



QDS 239 B



QDC 239.5

Package = Machine

+ PB Ø 17, 20, 24, 28, 32, 40, 44, 50

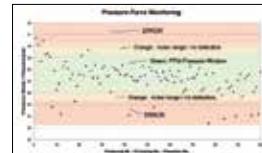
+ QDC 239.5

+ QDS 239 B

+ Control C.2

Pressure Force Monitoring

PFM – Standard on all machines with Control C.2



UDL included with Control C.2

Quality-enhancing option for series production. With PFM, the upper and lower pressure limits can be set by adjusting the tolerance values obtained from test pressing.

Pressures outside these limits are output as errors. It is possible to let the machine switch off at a fixed upper or lower limit, thereby obtaining a higher process safety.



TU Work Bench



Multistep



Crimping by Pressure



SHS



HM 3 H

Technical data	HM 3 H
Crimp force (kN / Ton)	750/75
No grease: 20% less friction	✓
Control	Control C.2 + Touch
SAE R 12 /4SP* 2 piece fitting*	1"
4 SH* 2 piece fitting*	¾"
SAE R 15* 2 piece fitting*	¾"
Industrial*	2"
90° Elbows*	1½"
Max. Crimp range	70 mm
Opening	+35 mm
Opening without dies	105 mm
Master dies length (mm)	100 mm
Type of dies	239-xx-Ø-yy
Speed (mm/sec)	
Close	8,3
Crimp	8,3
Open	13,8
Noise level	53 dBA
Drive	5,5 kW 3 VAC
Oil	50 L
L x W x H (mm)	720 x 600 x 672
Weight	193 kg

* According to the fitting.

Type of dies	
Ø mm	mm
6,8	50
9	50
10	50
12	65
14	65
16	65
17	65
19	65
20	65
22	65
24	65
26	65
28	80
30	80
31	80
32	80
34	80
36	80
38	80
39	80
40	80
44	80
47	100
50	100
54	100
57	100
62	100

Additional Information



A 90° elbow with long ending is no problem for the UNIFLEX HM 3 H. While our competition still searches, we have the solution.

With our two position holes-system, the insertion of all dies from both sides is easy and quick. You can also choose two different options to position your die set.

Accessories

Control C.2: Accessories



QDS 239 R



TU Rack PB239



Oil Cooler OC HM xxx



Customized software



Electronic caliper



Calibration mandrel



Barcode scanner



TA (A)



PTS



LUF



PS Double foot pedal



RFID



ULS



807.2

Due to their narrow, innovative construction, high level of user friendliness, and long service life, the HM 220 and HM 225 set the standard for quality and cost effectiveness. Their unrivaled accessibility makes ergonomic working possible – optionally from both sides – in production and series manufacture. The tried and tested greaseless slide bearing technology reduces maintenance costs, and the strong crimping force of up to 1400 /1600 kN is rated for widths up to 1¼".



HM 225

Engineered solutions using quality components

Smaller machine increases ergonomics
HiLo cylinder - Maximum efficiency causing less heat
Noiseless high-quality pump

Fixed 6- o'clock die

Workpiece does not move, making it easier to position laterally
Increases productivity, driving up profitability
Reduces risk for injuries

Slide bearing technology

No greasing improves cleanliness of machine and prolongs its lifetime
Maximum productivity with very low maintenance costs
Flaking cannot stick in grease, no risk of prematurely damaging the crimping head
End product can be used in sanitary applications without cleaning
20% more capability for crimping stronger or more difficult couplings versus our competition's equivalent crimpers
Consistently accurate crimp result

CE compliant

Package



QDS 239 B

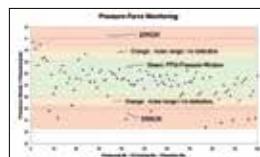


QDC 239.5

Package = Machine
(HM 225) + PB Ø 17, 20, 24, 28, 32, 40, 47, 54, 62
(HM 220) + PB Ø 17, 20, 24, 28, 32, 40, 44, 50
+ QDS 239 B + QDC 239.5
+ Control C.2

Pressure Force Monitoring

PFM – Standard on all machines with Control C.2



UDL included with Control C.2

Quality-enhancing option for series production. With PFM, the upper and lower pressure limits can be set by adjusting the tolerance values obtained from test pressing.

Pressures outside these limits are output as errors. It is possible to let the machine switch off at a fixed upper or lower limit, thereby obtaining a higher process safety.



QDS 239 C



Multistep



Crimping by Pressure

Accessories



PTS



HM 220



HM 225

optional: QDS 239 S

Additional Information



The clear Control C.2 and the optional UTS software provide complete documentation of production data, including the timestamp.

The compact, narrow and ergonomic construction makes working on both sides possible.

The fixed 6 o'clock die makes safe and low-force positioning of the workpiece possible, which improves cost effectiveness as well as safety.

Technical data	HM 220	HM 225
Crimp force (kN / Ton)	1 350/135	1 600/160
No grease: 20% less friction	✓	✓
Control	Control C.2 + Touch	Control C.2 + Touch
SAE R 15/4SH* 1 piece fitting*	1 1/4"	1 1/4"
4 SH* 2 piece fitting*	1"	1 1/4"
SAE R 15* 2 piece fitting*	1"	1 1/4"
Industrial*	2"	2"
90° Elbows*	1 1/2"	1 1/2"
Max. Crimp range	70 mm	70 mm
Opening	+35 mm	+40 mm
Opening without dies	105 mm	110 mm
Master dies length (mm)	75 mm	90 mm
Type of dies	239	239 -xx-ø-yy
Speed (mm/sec) **		
Close	10/20	19/30
Crimp	5/10	1,5/3
Open	10/20	19/30
Noise level	53 dBA	53 dBA
Drive	5,5 kW 3 VAC	4 kW 3 VAC
Oil	80 L	80 L
L x W x H (mm)	645 x 560 x 1450	645 x 560 x 1470
Weight	310 kg	470 kg

* According to the fitting.

** Standard: Half power twice faster included.

*** Outside master dies length, consult Uniflex

Type of dies

239-xx-ø-yy	Ø mm	mm
6,8	50	6,8
9	50	9
10	50	10
12	50	12
14	50	14
16	65	16
17	65	17
19	65	19
20	65	20
22	65	22
24	65	24
26	65	26
28	80	28
30	80	30
31	80	31
32	80	32
34	80	34
36	80	36
38	80	38
39	80	39
40	80	40
44	80	44
47	100	47
50***	100	50
54***	100	54
57***	100	57
62***	100	62

Type of dies

239	Ø mm	mm
6,8	50	6,8
9	50	9
10	50	10
12	50	12
14	60	14
16	60	16
17	60	17
19	60	19
20	60	20
22	60	22
24	60	24
26	75	26
28	75	28
30	75	30
31	75	31
32	75	32
34	75	34
36	75	36
38	75	38
39	75	39
40	75	40
44	75	44
47	75	47
50	75	50
54	75	54
57	75	57
62	75	62

Accessories

Control C.2: Accessories



QDS 239 S



QDS 239 R



SHS



Customized software



Electronic caliper



Calibration mandrel



Barcode scanner



TA (A)



LUF



Oil Cooler OC HM xxx



PS Double foot pedal



RFID



ULS



807.2

As reliable classic machines, the HM 3xx/HM 400 series unites all the outstanding properties of a production crimper. They are compact, powerful and make ergonomic working possible. Combining a convincingly solid construction with a high level of user friendliness, and long service life, the HM 3xx/HM 400 set a new standard for quality and cost effectiveness.



HM 325 | HM 375 | HM 380



HM 400

Engineered solutions using quality components

- Smaller machine increases ergonomics
- HiLo cylinder - Maximum efficiency causing less heat
- Noiseless high-quality pump
- Full length of fittings crimped in one stroke increases product quality and production efficiency
- Lateral reinforcement optimizes overall tolerance
- Fixed 6- o'clock die**
- Workpiece does not move, making it easier to position laterally
- Increases productivity, driving up profitability
- Reduces risk for injuries

Slide bearing technology

- No greasing improves cleanliness of machine and prolongs its lifetime
- Maximum productivity with very low maintenance costs
- Flaking cannot stick in grease, no risk of prematurely damaging the crimping head
- End product can be used in sanitary applications without cleaning
- 20% more capability for crimping stronger or more difficult couplings versus our competition's equivalent crimpers
- Consistently accurate crimp result

CE compliant

Package



QDS 239 B



QDC 239.5

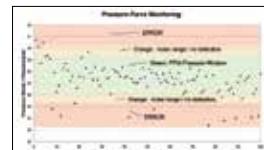
Package = Machine
+ PB Ø 17, 20, 24, 28,
32, 40, 44, 50, 57, 71
+ 237.239.2L2
+ QDC 239.5
+ QDS 239 B
+ Control C.2



TA (A)

Pressure Force Monitoring

PFM – Standard on all machines with Control C.2



UDL included with Control C.2

Quality-enhancing option for series production. With PFM, the upper and lower pressure limits can be set by adjusting the tolerance values obtained from test pressing.

Pressures outside these limits are output as errors. It is possible to let the machine switch off at a fixed upper or lower limit, thereby obtaining a higher process safety.



PTS



Multistep



Crimping by Pressure



Industrial calculator



LUF

Accessories



HM 325 | HM 375 | HM 380

HM 400

Additional Information



The compact, narrow and ergonomic construction makes working on both sides possible.



The fixed 6 o'clock die makes safe and low-force positioning of the workpiece possible, which improves cost effectiveness as well as safety.



With the Barcode Scanner you can scan articles quickly and efficiently.

Technical data	HM 325	HM 375	HM 380	HM 400
Crimp force (kN / Ton)	2 800/280	3 150/315	3 400/340	3 750/375
No grease: 20% less friction	✓	✓	✓	✓
Control	Control C.2 + Touch			
SAE R 15/4SH 1 piece fitting*	2"	3"	3"	3"
SAE R 15/4SH 2 piece fitting*	2"	2½"	3"	3"
Industrial*	4"	4"	4"	6"
90° Elbows*	3"	3"	3"	3"
Max. Crimp range**	165 mm**	165 mm**	165 mm**	190 mm**
Opening	+70 mm	+70 mm	+70 mm	+130 mm
Opening without dies	215 mm	215 mm	215 mm	300 mm
Master dies length (mm)	126 mm	126 mm	126 mm	150 mm
Type of dies	237 L/239-xx	237 L/239-xx	237 L/239-xx	554/239-xx
Speed (mm/sec)				
Close	23	23	23	18
Crimp	1,4	1,4	1,3	1,4
Open	33	33	33	20
Noise level	69 dBA	62 dBA	62 dBA	62 dBA
Drive	4 kW 3 VAC	4 kW 3 VAC	4 kW 3 VAC	5,5 kW 3 VAC
Oil	100 L	100 L	100 L	260 L
L x W x H (mm)	1 200 x 600 x 1 700	1 200 x 600 x 1 700	1 200 x 600 x 1 700	630 x 1500 x 1 800
Weight	750 kg	750 kg	750 kg	1400 kg
CGS (Conicity Guard System)	✓	✓	✓	—
HIDS (High Pressure Pump Dynamic Suction)	✓	✓	✓	✓

Type of dies

239-xx-Ø-yy	Ø mm	mm
239-xx-6-50	6,8	50
239-xx-9-50	9	50
239-xx-10-50	10	50
239-xx-12-65	12	65
239-xx-14-65	14	65
239-xx-16-65	16	65
239-xx-17-65	17	65
239-xx-19-65	19	65
239-xx-20-65	20	65
239-xx-22-65	22	65
239-xx-24-65	24	65
239-xx-26-65	26	65
239-xx-28-80	28	80
239-xx-30-80	30	80
239-xx-31-80	31	80
239-xx-32-80	32	80
239-xx-34-80	34	80
239-xx-36-80	36	80
239-xx-38-80	38	80
239-xx-39-80	39	80
239-xx-40-80	40	80
239-xx-44-80	44	80
239-xx-47-100	47	100
239-xx-50-100	50	100
239-xx-54-100	54	100
239-xx-57-100	57	100
239-xx-62-100	62	100

Type of dies

237 L	Ø mm	mm
237 L-54-118	54	118
237 L-57-118	57	118
237 L-62-118	62	118
237 L-67-118	67	118
237 L-71-118	71	118
237 L-74-118	74	118
237 L-78-118	78	118
237 L-84-118	84	118
237 L-86-118	86	118
237 L-90-118	90	118
237 L-96-118	96	118
237 L-103-118	103	118
237 L-106-126	106	126
237 L-111-126	111	126
237 L-116-126	116	126
237 L-121-126	121	126
237 L-126-126	126	126
237 L-131-150	131	150
237 L-136-150	136	150
237 L-146-150	146	150
237 L-156-150	156	150

Type of dies

554	Ø mm	mm
554-57-120	57	120
554-62-120	62	120
554-67-120	67	120
554-71-120	71	120
554-74-120	74	120
554-78-120	78	120
554-84-120	84	120
554-86-120	86	120
554-90-120	90	120
554-96-120	96	120
554-103-150	103	150
554-106-150	106	150
554-111-150	111	150
554-116-150	116	150
554-121-150	121	150
554-126-150	126	150
554-131-150	131	150
554-136-150	136	150
554-146-150	146	150
554-156-150	156	150

Accessories

Control C.2: Accessories



QDS 239 S



QDS 239 C



QDS 239 R



Customized software



Electronic caliper



Calibration mandrel



Barcode scanner



TA (A)



OCS



SHS



Oil Cooler OC HM xxx



PS Double foot pedal



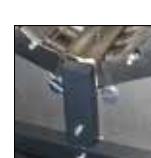
RFID



ULS



807.2



DMS

Due to their compact, all-round accessible construction, high level of user friendliness, and long service life, the HM 450, HM 480 and HM 495 set the standard for quality and cost effectiveness. The crimpers' particularly large opening stroke and the use of long master dies allow you to crimp all types of fittings and up to 12" industrial hoses.



HM 480

Engineered solutions using quality components

Compact machine for ergonomic work

HiLo cylinder - Maximum efficiency causing less heat

Noiseless high-quality pump

Long master dies to crimp all types of workpieces

Full length of fittings crimped in one stroke increases product quality and production efficiency

Fixed 6- o'clock die

Workpiece does not move, making it easier to position laterally

Increases productivity, driving up profitability

Reduces risk for injuries

Slide bearing technology

No greasing improves cleanliness of machine and prolongs its lifetime

Maximum productivity with very low maintenance costs

Flaking cannot stick in grease, no risk of prematurely damaging the crimping head

End product can be used in sanitary applications without cleaning

20% more capability for crimping stronger or more difficult couplings versus our competition's equivalent crimpers

Consistently accurate crimp result

CE compliant

Package



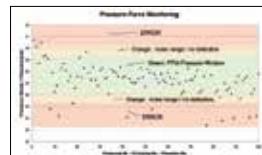
QDS 239 B



QDC 239.5

Pressure Force Monitoring

PFM – Standard on all machines with Control C.2



UDL included with Control C.2

Accessories

Quality-enhancing option for series production. With PFM, the upper and lower pressure limits can be set by adjusting the tolerance values obtained from test pressing.

Pressures outside these limits are output as errors. It is possible to let the machine switch off at a fixed upper or lower limit, thereby obtaining a higher process safety.



PTS



Multistep



Crimping by Pressure



Industrial calculator



Oil Cooler OC HM xxx



HM 450

HM 480 | HM 495

Additional Information



Due to the long master dies, you can crimp virtually all types of fittings.



The machines are very compact and narrow for a better work environment.

Technical data	HM 450	HM 480 NEW	HM 495
Crimp force (kN / Ton)	4 000/400	4 800/480	6 000/600
No grease: 20% less friction	✓	✓	✓
Control	Control C.2 + Touch	Control C.2 + Touch	Control C.2 + Touch
SAE R 15/4SH* 1 piece fitting	3"	3"	3"
SAE R 15/4SH* 2 piece fitting	3"	3"	3"
Industrial	6" (12")**	8" (12")**	8" (12")**
Elbows	3"	3"	3"
Max. Crimp range	310 mm	310 mm	310 mm
Opening	+130	+150	+150
Opening without dies	360 mm	380 mm	380 mm
Master dies length (mm)	150 mm	150 mm	150 mm
Type of dies	245/237L/239-xx-Ø-yy	245/237L/239-xx-Ø-yy	245/237L/239-xx-Ø-yy
Speed (mm/sec)			
Close	18	18	18
Crimp	1,4	1,3	1
Open	20	20	20
Noise level	62 dBA	62 dBA	62 dBA
Drive	5,5 kW 3 VAC	5,5 kW 3 VAC	5,5 kW 3 VAC
Oil	300 L	300 L	300 L
L x W x H (mm)	730 x 1590 x 1 972	730 x 1 590 x 2 015	730 x 1 590 x 2 076
Weight	1 900 kg	2 400 kg	2 400 kg
HiDS (High Pressure Pump Dynamic Suction)	✓	✓	✓

* Special dies (reduced opening).

** Pipe fittings without flange.

Type of dies	
Ø mm	mm
6,8	50
9	50
10	50
12	65
14	65
16	65
17	65
19	65
20	65
22	65
24	65
26	65
28	80
30	80
31	80
32	80
34	80
36	80
38	80
39	80
40	80
44	80
47	100
50	100
54	100
57	100
62	100

Type of dies	
Ø mm	mm
54	118
57	118
62	118
67	118
71	118
74	118
78	118
84	118
86	118
90	118
96	118
103	118/130
106	126/130
111	126/130
116	126/130
121	126/130
126	126/130
131	126/130
136	130
146	150
156	150
170	150
185	150
200	150
230*	230
265*	220
275*	220
305*	254

Accessories

Control C.2: Accessories



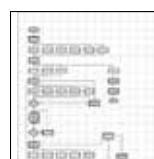
QDS 239 S



QDS 239 C



QDS 239 R



Customized software



Electronic caliper



Calibration mandrel



Barcode scanner



TA (A)



OCS



LUF



PS Double foot pedal



RFID



ULS



807.2



DMS

With their distinctive construction and high crimping force of up to 12000 kN, the HM 660, HM 665 and HM 1200 are some of UNIFLEX's powerhouses. They set the standard for quality and cost effectiveness. Using one of these models, you can easily crimp up to 12"-industrial hoses (according to the fitting).



Engineered solutions using quality components

Smaller machine increases ergonomics

HiLo cylinder - Maximum efficiency causing less heat

Noiseless high-quality pump

Full length of fittings crimped in one stroke increases product quality and production efficiency

Lateral reinforcement optimizes overall tolerance

Fixed 6- o'clock die

Workpiece does not move, making it easier to position laterally

Increases productivity, driving up profitability

Reduces risk for injuries

Slide bearing technology

No greasing improves cleanliness of machine and prolongs its lifetime

Maximum productivity with very low maintenance costs

Flaking cannot stick in grease, no risk of prematurely damaging the crimping head

End product can be used in sanitary applications without cleaning

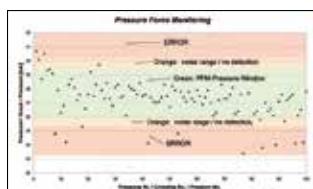
20% more capability for crimping stronger or more difficult couplings versus our competition's equivalent crimpers

Consistently accurate crimp result

CE compliant

Pressure Force Monitoring

PFM – Standard on all machines with Control C.2



Quality-enhancing option for series production. With PFM, the upper and lower pressure limits can be set by adjusting the tolerance values obtained from test pressing.

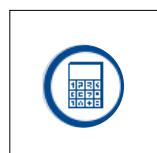
Pressures outside these limits are output as errors. It is possible to let the machine switch off at a fixed upper or lower limit, thereby obtaining a higher process safety.



Multistep

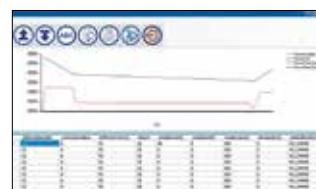


Crimping by Pressure



Industrial calculator

UDL included with Control C.2





HM 660 | HM 1200

HM 665

Additional Information



Due to the long master dies, you can crimp virtually all types of fittings.

The fixed 6-o'clock die makes safe and low-force positioning of the workpiece possible, which improves cost effectiveness as well as safety.

Technical data	HM 660	HM 665	HM 1200
Crimp force (kN / Ton)	8 000/800	6 000/600	12 000/1 200
No grease: 20% less friction	✓	✓	✓
Control	Control C.2 + Touch	Control C.2 + Touch	Control C.2 + Touch
SAE R 15/4SH* 1 piece fitting	3"	3"	3"
SAE R 15/4SH* 2 piece fitting	3"	3"	3"
Industrial	10"	12"/16"*	10"
90° Elbows	3"	3"	3"
Max. Crimp range	325 mm**	450 mm**	325 mm**
Opening	+120 mm	+180 mm	+120 mm
Opening without dies	395 mm	580 mm	395 mm
Master dies length (mm)	200 mm	250 mm	200 mm
Type of dies	246/237L/239-xx-Ø-yy	298/247/245/237L/239-xx-Ø-yy	246/237L/239-xx-Ø-yy
Speed (mm/sec)			
Close	15	17	11
Crimp	2	0,9	1,5
Open	15	25	11
Noise level	69 dBA	69 dBA	69 dBA
Drive	18,5 kW 3 VAC	5,5 kW 3 VAC	18,5 kW 3 VAC
Oil	300 L	400 L	300 L
L x W x H (mm) Machine + Power Unit	1 400 x 1 050 x 2 470	1 800 x 970 x 2 400	1 400 x 1 130 x 2 660
L x W x H (mm) Machine + Power Unit	700 x 1 160 x 1 360	integrated	1 100 x 1 300 x 1 500
Weight	4200 kg + 450 kg	5000 kg	4480 kg + 450 kg
HiDS (High Pressure Pump Dynamic Suction)	✓	✓	✓

* Layflat hoses with special dies.

** According to the fitting.

Type of dies	Type of dies	Type of dies	Type of dies
239-xx-Ø-yy	237 L	298	247
Ø mm	Ø mm	Ø mm	Ø mm
6,8	50	54	136
9	50	57	146
10	50	62	156
12	65	67	170
14	65	71	185
16	65	74	200
17	65	78	215
19	65	84	230
20	65	86	245
22	65	90	260
24	65	96	275
26	65	103	290
28	80	106	305
30	80	111	200
31	80	116	150
32	80	121	130
34	80	126	120
36	80	131	110
38	80	136	100
39	80	146	90
40	80	156	80
44	80	170	70
47	100	185	60
50	100	200	50
54	100	215	40
57	100	230	30
62	100	245	20
		260	15
		185	10
		200	5

Accessories

Control C.2: Accessories



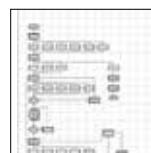
PTS



QDS 239 C



QDS 239 R



Customized software



Electronic caliper



Calibration mandrel



Barcode scanner



TA (A)



OCS



LUF



Oil Cooler OC HM xxx



PS Double foot pedal



RFID



ULS



807.2



DMS



mm

inch

Bar

Options and accessories

for crimpers



The new Control C.2 with its intuitive operation for UNIFLEX crimpers, test benches and several more products has a colour touch display. The new menus (Quick-Start-Menu and Production Menu) as well as the possibility to individualize each and every menu and application will make your work much easier. Everything can be controlled via HID, i.e. via Windows devices. In addition, you can record, monitor and assure the quality of your product and how the machine works via the PFM option.



Production management for serial production, production in line with your own processes

Endless item memory increases productivity and consistency
Item data easily searchable for faster set up of the next part. Data set filtering for faster production
Data sets can be read in via scanner
Scanner menus can be linked to your production data set
Intuitive operation

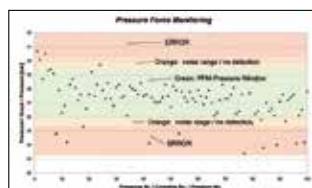
Service via network

Simple organization of changes, maintenance and management of production data sets
Central order management from the desktop saves time and money
Windows based

Upload and download data

Easily upload and download data using HID-compliant devices, such as external database, scanners, USB flash drive, Vernier calipers or remotely via the Internet

Inclusive: Pressure Force Monitoring



PFM – Standard on all machines with Control C.2

Quality-enhancing option for series production. With PFM, the upper and lower pressure limits can be set by adjusting the tolerance values obtained from test pressing. Pressures outside these limits are output as errors. It is possible to let the machine switch off at a fixed upper or lower limit, thereby obtaining a higher process safety.

This way you can display and record combinations of incorrect hose and fittings, skipped work stage, such as skiving of the hose or a poorly positioned hose-fitting connection. Achieve integrated quality control without any additional effort.

Multistep



Industrial calculator



UDL



Crimping by Pressure



UDL (UNIFLEX) data logging

Start the machine and its control:

START Language



Language selection, other languages available upon request.

Units



Configuration units.

Different users are possible:

LOGIN User Login



Factory settings via user details and password with functionality assignments and user rights.

MENU Login by menu



Quick menu and production menu.

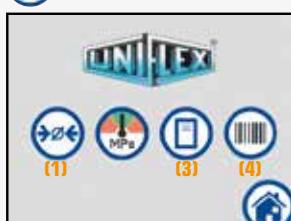
After Login, you have the choice:
Quick Menu or Production Menu.

QUICK MENU



Input of the crimping dimensions, correction value and crimping dies (automatic).

PRODUCTION MENU



Four choices for selecting compression parameters quickly and easily. Selection menu includes pressing by dimension, by pressure, stored parameters in integrated database in the controller, or by use of a barcode scanner.

PRODUCTION MENU

(1) Crimping by dimension (parameter) (2) By pressure (parameter)

(3) Via the integrated database

(4) Barcode scanner



Easily input crimping dimensions, correction value, hold time, aperture diameter, pre-selection of counter and crimping dies (automatic).



Easily input pressure, hold time, aperture diameter, pre-selection counter and crimping dies.



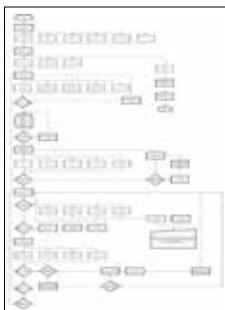
Search for and create articles numerically or alpha-numerically. Articles can be easily selected using the "Quick Search Menu".



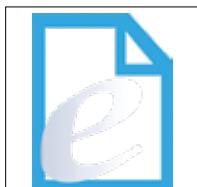
Scan article data via barcode (accessories)

Option: Corporate programming as a special solution

Customized software



Paperless communication:



Communication with server or machine. Order management via digital interface.

XML/CSV interface:



External database connection. Allows you to retrieve and save the documented production data.

Operating mode configurations:



Communication with the server or with other machines.

Topics customized in line with corporate identity:



CI-compliant menus.

Accessories for C.2

Order number:
Calb CtrlC C.2 (software + hardware)



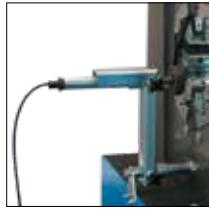
Calibrating your machine is simple using digital measurement via the software and the calibration mandrel.

Order number: Kit 800.610 + 800.606/Caliper Ctrl C 3 inch or Kit 800.610 + 800.609/Caliper Ctrl C 4 inch



Measuring point menu with foot mouse/Vernier caliper (3 or 4"): Quality testing using calipers and foot mouse (as OK button). With the digital calipers, you can also check the crimping dimensions for conicity and ovality (number of measurement points). The pictogram-driven menu control guides you through the entire process.

Order number:
TA(A)
PS.2 Double
807.2



Depth stop



Double foot pedal



Screen protection

Order number:
BCR Ctrl C.2
800.610



Barcode scanner



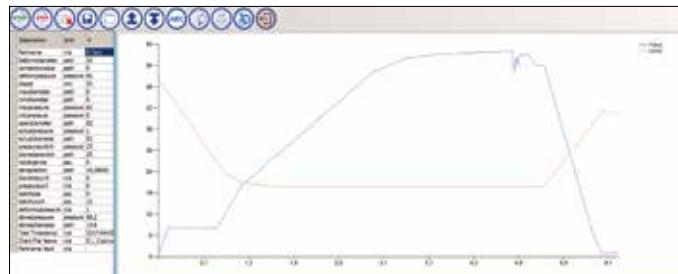
Foot mouse for controller interaction



RFID
CTRCC

Options

PFC Pressure Force Control



The UNIFLEX PFC (Pressure Force Control) option offers two ways to stop a compression – based on the distance travelled or the applied force, as happens with PFC. Stopping a compression stroke due to applied force can meet certain application requirements, specifically those where material behavior must be taken into account. This also makes it possible to press brittle materials, such as fibre glass. Many industry-leading glass insulator producers are already using PFC profitably.

PFC provides readings of pressing power and pressing position at any time during the pressing process. These measurements are displayed and analysed graphically. On the basis of just a few test pressings, you will learn exactly how to have the machine produce the perfect final assembly. This process can then be repeated by setting the pressing force, the rate the force increases and the precise time to switch to stop. By saving these values to the controller, you can improve productivity through shorter set up time and consistent quality can be achieved, thereby dramatically increasing customer satisfaction and profitability.

Other options:

DMS (Strain Gauges) Order number: 807.602



Option for HM 3xx crimping machines.

Force measurement directly applied to the master dies. One or more sensors are installed according to the application and precision requested. This achieves a more precise crimping force and avoids variations due to the hydraulic system or friction. Advantages include faster detection of the insertion depth of the fitting, variations in the material, and hose tolerance. The position of the fitting can also be defined to reduce conicity.



Touch panel with 1800 mm cord.

ULS.2-C



ULS.2-APP for Tablet or PC



Advantages of Hose assembly Management

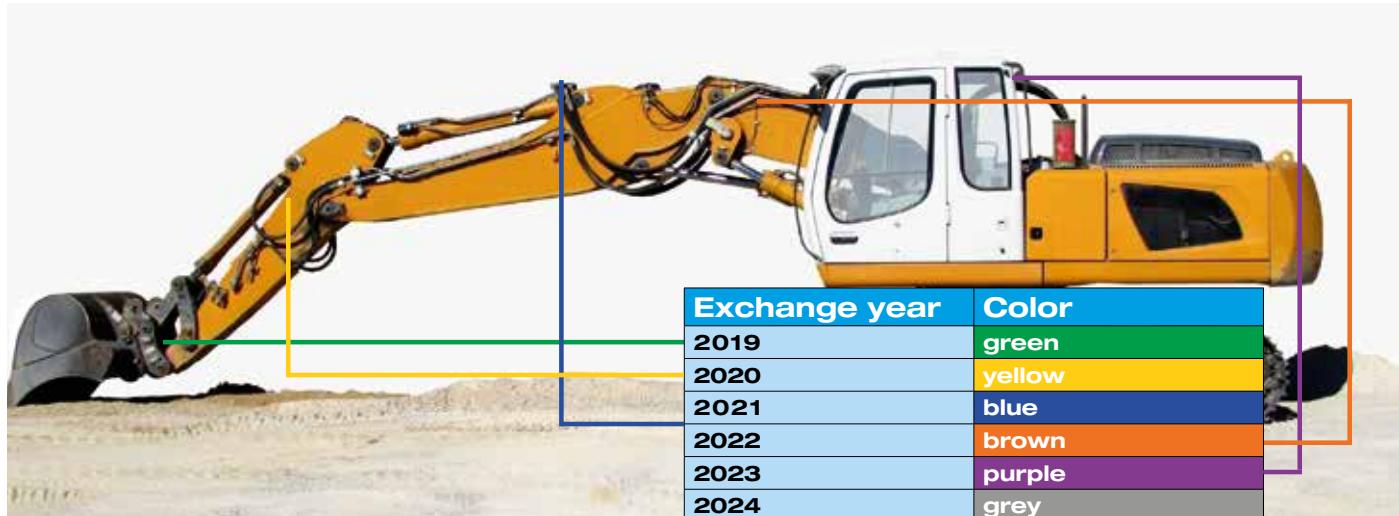
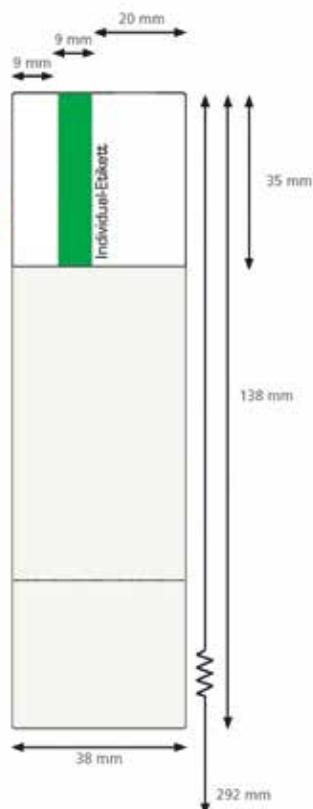
Benefits of labels and what they can tell the user:

- Which components need to be replaced and when
- The date of the exchange
- The potential hazards of the machine
- The plan for preventive maintenance
- Minimizes cost of maintenance
- Avoids equipment failures and long downtimes
- Publicity for your company

Uniflex Labelling System – ULS Ecoline

Part numbers ULS ECOLINE

Pos.	Article	Content	Part No.	
1	Printer		ULS.2-C ULS.2-APP	to integrate with our control to use on mobile phone or tablet with an APP
2	Color ribbon for Printer	Cassette with labels, white (black) (74 meters)	888.469	
3	Banderole	5000 pieces		Material
		Color bars	Banderole 138 mm	Banderole 292 mm
		Green	507.1_CP	507.1_XL_CP
		Yellow	507.2_CP	507.2_XL_CP
		Blue	507.3_CP	507.3_XL_CP
		Brown	507.4_CP	507.4_XL_CP
		Purple	507.5_CP	507.5_XL_CP
		Grey	507.6_CP	507.6_XL_CP



UNIFLEX Wireless Management System (UWMS)

UWMS (Uniflex wireless management system) allows you to put your crimping procedure on a server and keep this information up to date. Customers can access the information via an app on a phone or tablet connected to the internet and send it to the crimper by Bluetooth. All you need to do is change the dies. Crimp data and measurement information, such as the date, time, and the assembly serial number are automatically sent to your server or tablet via Bluetooth and are then available online.



Advantages:

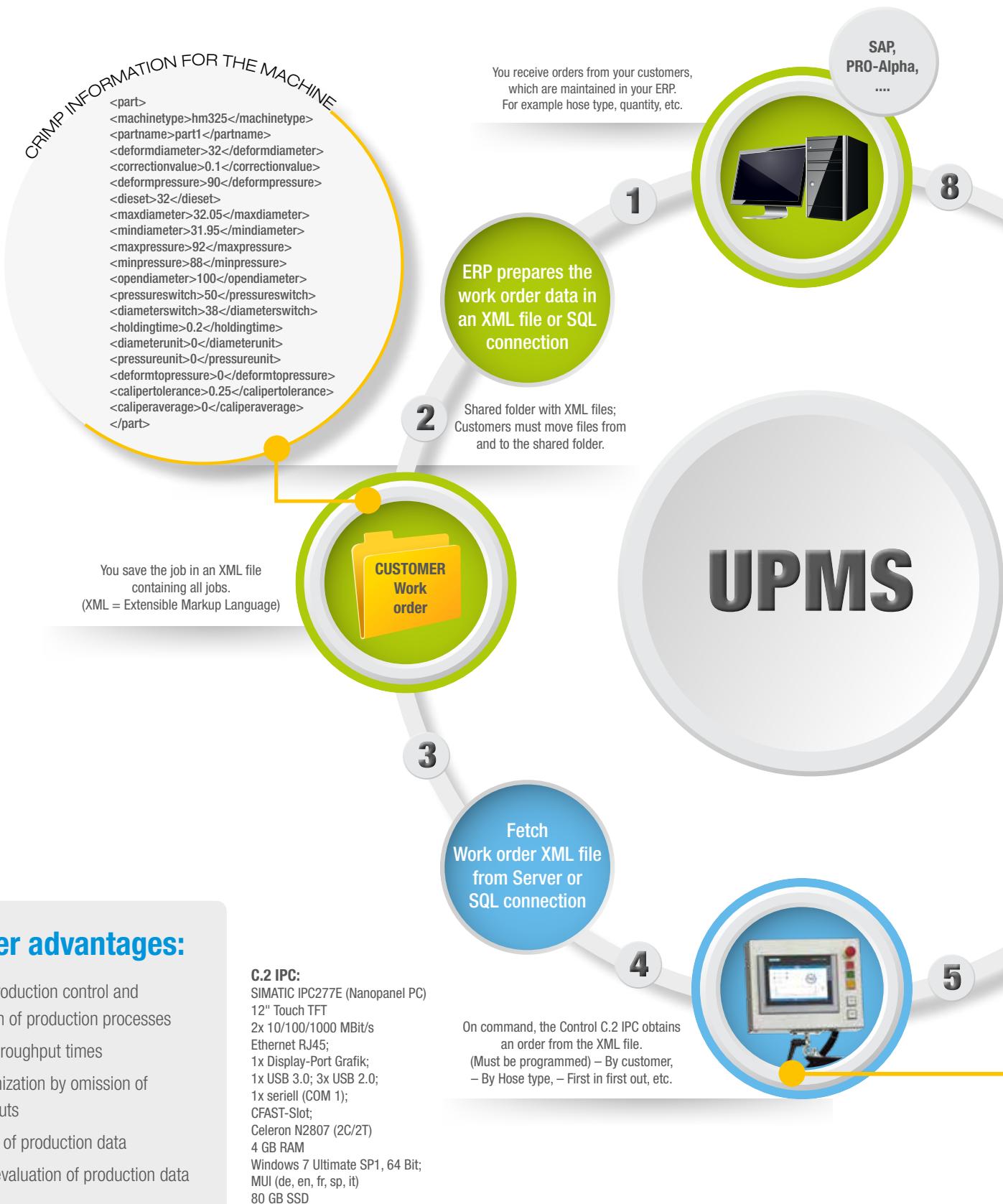
- Keep customers up to date with the latest crimping specifications.
- Obtain valuable information about your crimper (No. of crimping operations, crimping specifications, crimping data)
- Use serial numbers to build traceability and reorder systems.
- Evaluate your market (what you sell, where you sell)



UNIFLEX Paperless Management System (UPMS)

UNIFLEX has developed a complete Paperless Management for easily sending data directly from your ERP to a dashboard.

This allows you to manage all your machines by giving them working orders and retrieving production information from each machine. This gives you the flexibility to organize your production machine by machine (For example: the cutter can cut all

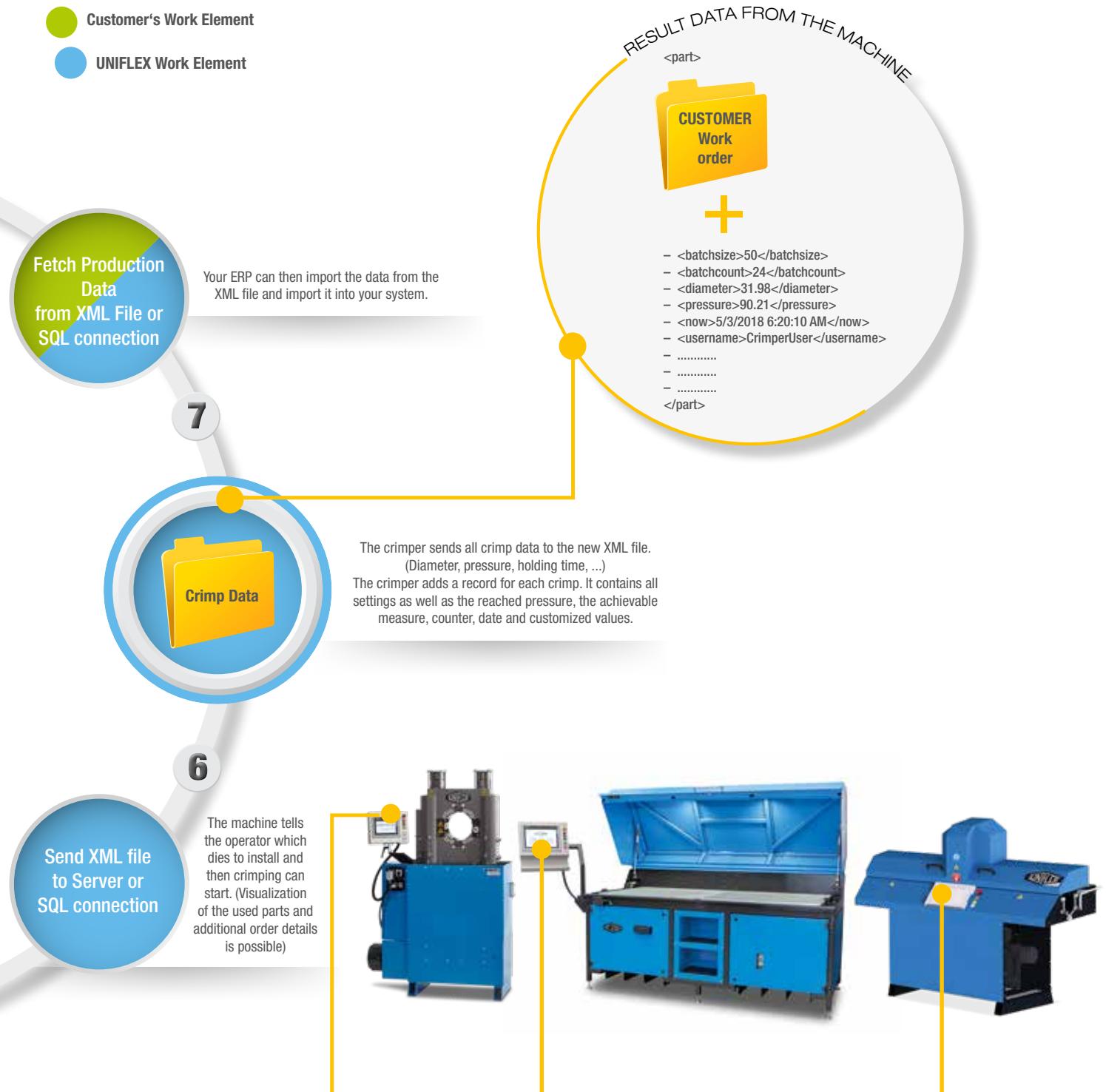


Customer advantages:

- Targeted production control and optimization of production processes
- Reduced throughput times
- Error minimization by omission of manual inputs
- Traceability of production data
- Statistical evaluation of production data

hose sizes installed for customers, while at the same time you can decide to crimp according to individual orders and test the kitting order with the test bench.

The System returns all the relevant quality information you need to make sure your product is made to specifications. Stored data can be used not only for traceability but also for analyzing your productivity. This will optimize your production processes, reduce your administrative tasks and improve your quality control.



**QDS 239S, QDS 239 S or QDS 239 T**

Store the dies directly at the machine. Can be mobile or bolted to the machine frame.

**QDS 239 R**

Store the dies directly at the machine. Can be mobile or bolted to wall or TU.

**Oil Cooler**

Reduce heat, increase permanent tolerances.

**OCS 10 retro**

Camera system – the alternative to the mirror, for a better sight line adjustment.

**TU-Rack 18-PB239**

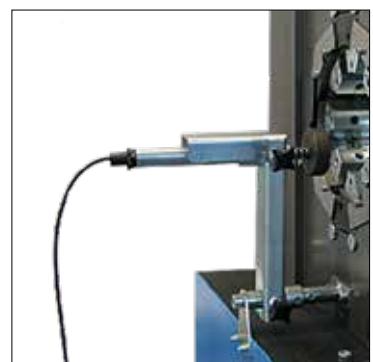
Workbench for miscellaneous machines includes die storage.

**QDS 239 B****SPIEGEL/SHS**

Allows the operator to watch the correct position of the part to be crimped behind the machine.

**LUF**

Light for the rear side of the machine.

**TA**

To position the fitting inside the head and/or to activate the crimp cycle automatically.



QDC 239.5



PTS SYSTEM

Marking and crimping in one step according to DIN 20066 and EN 853, EN 854, EN 856, EN 857.

PTS 52: character 4,0 x 2,0 mm/marketing depth ca. 0,3 - 0,5 mm

PTS 32: character 3,0 x 1,5 mm/marketing depth ca. 0,3 mm

Dies	Ø mm
261	14 - 47
263	14 - 32
265	54 - 71
266 L	54 - 78
239/239 L	14 - 50
232 L	14 - 90
237 L	54 - 121
554/246 L	on request

Number of characters

P 200, 202, 204, 213, 261, 265
always 10 each

P 262/263
Ø 14 - 32 = 17 each

P 239
Ø 14 - 24 = 12 each
Ø 26 - 50 = 17 each

P 239L or P239-xx-Øyy
Ø 14 - 22 = 14 each
Ø 24 - 40 = 15 each
Ø 44 - 50 = 10 each

P 232L
Ø 17 - 20 = 21 each
Ø 24 - 28 = 22 each
Ø 32 - 44 = 24 each
Ø 47 - 62 = 10 each
Ø 67 - 90 = 11 each

P 237L
Ø 54 - 67 = 24 each
Ø 71 - 121 = 11 each

P 266L
Ø 54 - 78 = 10 each



UMAT



Mobile Working Station



L x W x H (mm): 800 x 1200 x 755

Weight 160 kg

Drawers L x W x H (mm):

2 = 564 x 572 x 50

2 = 564 x 572 x 100

Load Weight Drawers: 75 kg

Accessories

TU-QDS F SHELF

TU-QDS F 239I

TU-QDS SHELF PB280

Description		For	Accessories
TU Work Bench capable of supporting up to 800 kg		Universal	
TU-QDS F Basic Basic with screws		Universal work bench TU	
TU-QDS FXL Shelf Variable with screws		TU-QDS F Basic	
TU-QDS F Shelf Variable with screws		TU-QDS F Basic QDS-S.2 single row QDS-S-2 double row	
TU-QDS F 239i 3 pieces in set		TU-QDS FXL Shelf TU-QDS F Shelf	
TU-QDS F Shelf PB280 for PB 280		TU-QDS F Basic QDS-S.2 single row QDS-S-2 double row	
QDS-S.2 single row Basic Support		HM 220.3 HM 225.3	
QDS-S-2 double row Basic Support		HM3xx.2 S6.3A+C S8.2/S8.3 S10.2/S10.3 HM245.4	
QDS 237.239S RAL5012 Basic Support with TU-QDS 239i		HM3xx ab Bj.2010, HM3xx.2 S6.3 S8.2/S8.3 S10.2/S10.3 HM 245.2/HM 245.3/HM 245.4	

Description		For
QDS 239 S Basic Support with TU-QDS 239i		HM3xx ab Bj.2010, HM3xx.2; HM220, HM220.2, HM220.3 HM225, HM 225.2, HM225.3 S6, S6.2, S6.3 S8, S8.2, S8.3 S10, S10.2, S10.3
QDS 280 B RAL 7021 For 9 Set PB 280		PB 280
QDS 239 B RAL 7021 For 9 Set PB 239		PB 239
QDS 239 R For 9 set PB 239		TU
QDS 239 C Wheeled support for 12 set PB 239		PB 239 PB 237
QDS 239 T Wheeled support for 24 set PB 239		PB 239 PB 237
TROLLEY Wheeled support 777.8 LxWxH (mm): 1720 x 660 x 200 Weight: 75 kg Load Weight: 800 Kg		HM 3xx, HM 220/225, HM 245, S6/S8/10 EM 115



Cutting Machines

Clean cutting, safe handling, solid structure.



Universal

For all types of hoses and fittings.



Ecoline

Value driven solution for less frequent use.



Energy efficient

Now even more efficient.



Special Brake motor

A safety feature meeting DIN CE standards requiring the cutting blade to stop turning in 10 seconds.



Special cutting motor

Higher forces are achieved using a bigger shaft.



Test-proven Cutting Blades

Cutting blades are made out of test-proven material.



Environment friendly

Engineered to last.



EM 1



EM 3



EM 4



EM 6



EM 8



EM 115



EM 120



USC 10 | USC 20 | USC 30



UPG 10

Guillotine for industrial hoses without
steel wire up to 2" (max. OD: 90 mm/3,45").
L x W x H (mm): 1 810 x 325 x 800

Minimum cut length 20 mm (0,78")
2 Guide Pins for smaller size 17,5 + 22,5 mm
(0,698" + 0,88")

UNIFLEX hose cutting machines have been a synonym for the highest precision and robustness for many decades. The solid and compact tools distinguish themselves by their safe and high-quality cutting function. A distinct property is the positioning of the extraordinarily sharp cutting blades close to the powerful motors. This significantly reduces vibration – which is one of the reasons for extreme durability and low maintenance costs.



EM 3

Unique drive motor with double bearings and large shaft

Reduce scrap with straight cuts

More cuts between sharpening while increasing profits (not TM C)

Less contamination in the shop and in the end product will result in more parts out the door and a better environment in the building

Maximizes motor life, giving you the lowest cost of ownership in the market

Cut faster and generate a more saleable product

Quality steel blade

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

Compact Design

Ideal for on-site service

ECOLINE Version

High quality for those new to cutting

CE compliant

Brake motor for safety

Security shield

Accessories



UVC
Suction device



UHG 14 + UHG 14 ext
Hose-guide



330.1
Spark arrestor



Hose coiling reel UWT 2
+ Hose measuring tool UMS 4



UAT 4
Coiler



USH 4 + 513.1
Hose rack

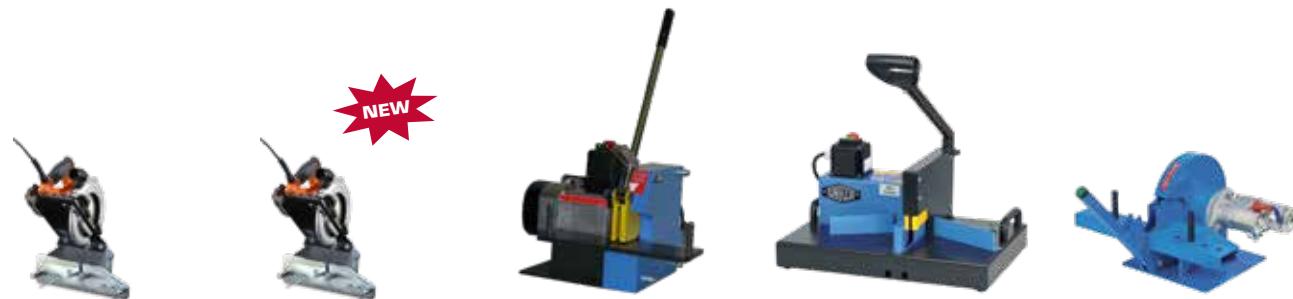


UMS 4 + 514.1
Measuring device



513.1
Plate for USH 4





EM 1

EM 1 S

EM 3

EM 3 Ecoline

EM 3 DC

Technical data	EM 1	EM 1 S	EM 3	EM 3 Ecoline	EM 3 DC
Production SAE R 13 & SAE R 15	–	–	¾"	–	–
Workshop SAE R 13 & SAE R 15*	–	1"	1¼"	1"	1¼"
SAE R 12	5/8"	1¼"	1¼"	1¼"	1¼"
Industrial	1¼"	1¼"	2"	1¼"	2"
Max. outside	Ø 45 mm	Ø 52 mm	Ø 80 mm	Ø 52 mm	Ø 60 mm
Noise level	90 dBA	90 dBA	90 dBA	90 dBA	93 dBA
Brake motor	–	–	✓	–	–
Suction connection	Ø 30 mm	Ø 30 mm	Ø 80 mm	Ø 40 mm	Ø 40 mm
Drive	1,2 kW 1 VAC	1.2 kW 1 VAC	3 kW 3 VAC	1.8kW 1 VAC	12 V/24 V 2,0/3,2 kW
Cutting blade	TM 160x2,5x20	TM C 160x2,5x20	TM 275x3x30	TM G 200x1,6x25,4	TM 250x2x40Z
L x W x H (mm)	360 x 340 x 310	360 x 340 x 310	540 x 440 x 300	400 x 510 x 540	550 x 365 x 410
Weight	8 kg	8 kg	50 kg	20 kg	29 kg
Accessories					
TU Table	✓	✓	✓	✓	✓
Suction device**	–	–	✓	✓	✓
UVC 36 Adapter (230 Volt)	777.150	777.153	777.056	777.153	777.153
UVC 100 Adapter	–	–	330.082.3	330.083.3	330.083.3
Hose measuring tool	–	–	✓	–	–
Foot for UMS 4 (840 mm height)	–	–	✓	–	–
Hose guide 2000 mm (UHG 14)	–	–	✓	–	–

* With special cutting blade.

** Adapter needed.

Additional Information



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



Guide pins ensure straight cuts.



Blades
TM = plain
TM G = slotted
TM C = coated

Cutting blades

TM C, TM G and TM

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



TM C

Lasts 7 times longer, cuts twice as fast, generates less smoke, less debris in the hose and less heat. Reduces the risk of separation of the rubber from the wire.



UNIFLEX hose cutting machines have been a synonym for the highest precision and robustness for many decades. The solid and compact tools distinguish themselves by their safe and high-quality cutting function. A distinct property is the positioning of the extraordinarily sharp cutting blades close to the powerful motors. This significantly reduces vibration – which is one of the reasons for extreme durability and low maintenance costs.



EM 4

Unique drive motor with double bearings and large shaft

Reduce scrap with straight cuts

More cuts between sharpening while increasing profits

Less contamination in the shop and in the end product will result in more parts out the door and a better environment in the building

Maximizes motor life, giving you the lowest cost of ownership in the market

Cut faster and generate a more saleable product

Quality steel blade

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

Compact Design

Ideal for on-site service

CE compliant

Brake motor for safety

Security shield

Accessories



UVC
Suction device



UHG 14 + UHG 14 ext
Hose-guide



Hose coiling reel UWT 2
+ Hose measuring tool UMS 4

Standard



330.1
Spark arrestor



UAT 4
Coiler



USH 4 +
Hose rack



513.1
Plate for USH 4



UMS 4 + 514.1
Measuring device + stand



EM 4



EM 4 DC

Technical data	EM 4	EM 4 DC
Production SAE R 13 & SAE R 15	1 1/4"	—
Workshop SAE R 13 & SAE R 15	1 1/2"	1 1/4"
SAE R 12	2"	1 1/2"
Industrial	2"	2"
Max. outside	Ø 80 mm	Ø 75 mm
Noise level	90 dBA	93 dBA
Brake motor	✓	—
Suction connection	Ø 80 mm	Ø 40 mm
Drive	3kW 3 VAC	2,0kW 12VDC
Cutting blade	TM C 275 x 3 x 30	TM C 250 x 2 x 40
L x W x H (mm)	700 x 510 x 700	740 x 365 x 610
Weight	60 kg	29 kg
Accessories		
Bench	✓	✓
Suction device	✓	✓
UVC 36 Adapter	777.056	777.153
UVC 100 Adapter	330.082.3	330.083.3
Hose measuring tool	✓	✓
Foot for UMS 4 (840 mm height)	—	—
Hose guide 2000 mm (UHG 14)	✓	—

Additional Information



Guide pins ensure straight cuts, which prolongs blade life.



Blades
TM = plain
TM G = slotted
TM C = coated

Cutting blades

TM C, TM G and TM

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

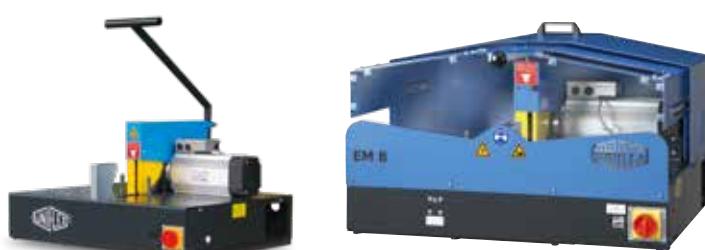


TM C

Lasts 7 times longer, cuts twice as fast, generates less smoke, less debris in the hose and less heat. Reduces the risk of separation of the rubber from the wire.



UNIFLEX hose cutting machines have been a synonym for the highest precision and robustness for many decades. The solid and compact tools distinguish themselves by their safe and high-quality cutting function. A distinct property is the positioning of the extraordinarily sharp cutting blades close to the powerful motors. This significantly reduces vibration – which is one of the reasons for extreme durability and low maintenance costs.



Unique drive motor with double bearings and large shaft

Reduce scrap with straight cuts

More cuts between sharpening while increasing profits

Less contamination in the shop and in the end product will result in more parts out the door and a better environment in the building

Maximizes motor life, giving you the lowest cost of ownership in the market

Cut faster and generate a more saleable product

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Ideal for on-site service

ECOLINE Version

High quality for those new to cutting

CE compliant

Brake motor for safety

Security shield

Accessories



UVC
Suction device



UHG 14 + UHG 14 ext
Hose-guide



Hose coiling reel UWT 2
+ Hose measuring tool UMS 4



UAT 4
Coiler



USH 4 +
Hose rack



UMS 4 + 514.1
Measuring device



329.1 (for EM 6 M) /
323.1 (for EM 8)



513.1
Plate for USH 4

Standard



330.1
Spark arrestor



Technical data	EM 6 DC	EM 6 M	EM 6 P	EM 6 Ecoline	EM 8 M	EM 8 P
Production SAE R 13 & SAE R 15	–	1 1/4"	1 1/4"	–	1 1/4"	1 1/4"
Workshop SAE R 13 & SAE R 15	2"	2"	2"	2"	2"	2"
SAE R 12	2"	2"	2 1/2"	2"	2 1/2"	2 1/2"
Industrial	2"	3"	3"	2"	4"	4"
Max. outside	Ø 75 mm	Ø 85 mm	Ø 90 mm	Ø 80 mm	Ø 120 mm	Ø 120 mm
Feed	manual	manual	pneumatic	manual	manual	pneumatic
Noise level	93 dBA	90 dBA	90 dBA	90 dBA	90 dBA	90 dBA
Brake motor	–	✓	✓	–	✓	✓
Suction connection	Ø 40 mm	Ø 60 mm	Ø 60 mm	Ø 80 mm	Ø 60 mm	Ø 60 mm
Drive	3,2 kW : 24 VDC	4,6 kW 3 VAC	4,6 kW 3 VAC	2,4 kW 1 VAC	4,6 kW 3 VAC	4,6 kW 3 VAC
Cutting blade	TM C 250 x 2 x 40	TM C 350 x 3 x 30	TM C 350 x 3 x 30	TM C 275 x 3 x 25,4	TM C 400 x 4 x 30	TM C 400 x 4 x 30
L x W x H (mm)	740 x 365 x 610	745 x 690 x 430	820 x 785 x 755	700 x 510 x 700	983 x 760 x 875	983 x 760 x 540
Weight	29 kg	75 kg	110 kg	45 kg	122 kg	140 kg
Accessories						
Bench	✓	✓	✓	✓	✓	✓
Suction device	✓	✓	✓	✓	✓	✓
UVC 36 Adapter	777.153	777.055	777.055	777.056	777.055	777.055
UVC 100 Adapter	330.083.3	330.081.3	330.081.3	330.082.3	330.081.3	330.081.3
Hose guide (UHG 14)	–	✓	✓	✓	✓	✓

Additional Information



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



Blades
TM = plain
TM G = slotted
TM C = coated

Cutting blades

TM C, TM G and TM

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



TM C

Lasts 7 times longer, cuts twice as fast, generates less smoke, less debris in the hose and less heat. Reduces the risk of separation of the rubber from the wire.



The EM 115 and EM 120 are highly productive cutting machines. These machines are best suited for high volume manufacturing of 2" hoses along with workshop capability for 3" high pressure hose and 4" industrial hose.



EM 120



EM 115

Unique drive motor with double bearings and large shaft

Reduce scrap with straight cuts

More cuts

Less contamination in the shop and in the end product will result in more parts out the door and a better environment in the building

Maximizes motor life, giving you the lowest cost of ownership in the market

Cut faster and generate a more saleable product

Quality steel blade

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

CE compliant

Brake motor for safety

Security shield

Accessories



UHG 14 + UHG 14 ext
Hose-guide



Hose coiling reel UWT 2
+ Hose measuring tool UMS 4



UAT 4
Colier



USH 4 + 513.1
Hose rack



UMS 4 + 514.1
Measuring device



513.1
Plate for USH 4

Standard



330.2
Spark arrestor



EM 115



EM 120

Technical data	EM 115	EM 120
Production SAE R 13 & SAE R 15	2"	3"
Workshop SAE R 13 & SAE R 15	3"	4"
SAE R 12	3"	4"
Industrial	3"	4"
Max. outside	Ø 125 mm	Ø 140 mm
Feed/Control	pneumatic/pneumatic	electric/C.2 IPC
Noise level	80 dBA	80 dBA
Brake motor	✓	✓
Suction connection	Ø 100 mm	Ø 100 mm
Drive	7,5 kW 3 VAC	7,5 kW 3 VAC
Cutting blade	TM C 520 x 4 x 40	TM C 520 x 4 x 40
L x W x H (mm)	1 210 x 650 x 1 650	1 810 x 330 x 1 440
Weight	245 kg	350 kg
Options		
Bench	–	–
Suction device	UVC 100	UVC 100
UVC Adapter	–	–
Hose guide (UHG 14)	✓	✓



Additional Information



Lateral guide rolls for guiding and positioning of the hose, for a better cutting quality.



Various bending points selectable for straighter cuts and relief of pinch on the blade.



Exchangeable guide (two sizes) for optimum positioning of different hose sizes. (EM 115 only)



Guide for perfectly centering hoses.

Cutting blades

TM C, TM G and TM

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



TM C

Lasts 7 times longer, cuts twice as fast, generates less smoke, less debris in the hose and less heat. Reduces the risk of separation of the rubber from the wire.



FOR CORRUGATED METAL HOSES AND PTFE HOSES

Cutting results that often eliminate an additional step. This completely unique planetary cutting machine delivers almost scrap-free production with high efficiency. With a completely variable centering clamp system, all hose ODs to the maximum rating for the machine can be cut. Approximate cutting time is 25 seconds for 1 1/4" (Ø DN 32).



USC 10 | USC 20

Productive and ergonomic

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

Siemens Industrial Color Touch Panel

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

CE compliant

Standard

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

Accessories



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



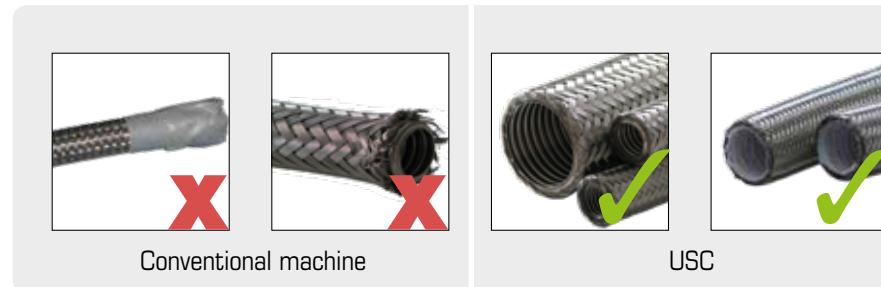
5.7" display |
Touch panel



325.3
Hose guide



UHG 14 + UHG 14 ext
Hose guide



USC 10 | USC 20 | USC 30

Technical data	USC 10	USC 20	USC 30
Cutting blade	TM 200 x 2 x 25,4 mm	TM 250 x 2 x 25,4 mm	TM 350 x 3 x 32 mm
Wire braid	2"	4"	6"
Hose diameter	Ø 3/8" - 2" (DN 10-51)	Ø 2" - 4" (DN 50-100)	Ø 4" - 6" (DN 100-150)
Max. rotation wire forming blade	7 200 rpm	7 200 rpm	4 100 rpm
Max. rotation trimming	60 rpm	60 rpm	30 rpm
Drive	4,6 kW 3 VAC	4,6 kW 3 VAC	5 kW 3 VAC
Air pressure	6 bar	6 bar	6 bar
Noise level	85 dB(A)	85 dB(A)	85 dB(A)
Working high	1 020	1 100	1 045
L x W x H (mm)	730 x 670 x 1 400	730 x 770 x 1 500	900 x 1 250 x 1 520
Weight	245 kg	340 kg	580 kg
Control Siemens S7	✓	✓	✓
Article memory	✓	✓	✓
Feed	pneumatic	pneumatic	pneumatic
Suction device*	standard	standard	standard
Options			
Hose guide (UHG 14)	✓	✓	

* Adapter needed.

Additional Information



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

Planetary cutting machine

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

- Eliminates flaring
- No more trimming
- Easily slip the ferrule into position
- Reduces assembly injuries
- Improves production efficiency
- Touch panel with memory (optional 5,7" display)
- Quick and easy set up
- Allows broader application range to now include PTFE hose



Options and Accessories

For Cutting Machines.





Suction device UVC 100

Suction device for all cutters

Suction: Ø 100 mm

Spark arrestor, Filter alarm

517.025: Active Carbon filter (Pellets)

517.012: Filter HEPA H 13

517.010: Wire filter

517.011: Cassette filter

Drive: 5,5kW 3 VAC

Nominal air flow: 8 600 m³/H

Noise level: 60 dB(A)

Option: Suction arm

UVC 100 Adapter:

330.083.3: Ø 40 mm, EM 1S, EM 3.2DC, EM 4 DC, EM 6 DC

330.081.3: Ø 60 mm, EM 8.3, EM 6.2

330.082.3: Ø 80 mm, EM 3, EM3 DC, EM6, EM 8, EM 8.2

L x B x H: 1 550 mm x 475 mm x 1 080 mm

Weight: 140 kg



Suction device UVC 36

Suction device with spark arrestor
(UVC S36-21 + UVC S36-FL)

UVC 36 Adapter

Art.

777.153: Ø 40 mm, EM 1S, EM 3.2DC, EM 4 DC, EM 6 DC

777.055: Ø 60 mm, EM 8.3, EM 6.2

777.056: Ø 80 mm, EM 3, EM3 DC, EM6, EM 8, EM 8.2

Nominal air flow: 216 m³/H

Noise level: 57 dB(A)



UHG 14 + UHG 14 ext

UHG 14 Hose guide 2 000 mm and

UHG 14 ext. extension guide 1 000 mm

for all cutting machines



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

Resettable cutting counter



UWT 2 vs (optional UMS 4 + 514.1)

Electric driven hose coiling reel with foot pedal for easy winding and unwinding of hoses up to 1 1/4" optional with length measuring device incl. foot stand.

RPM per Pedal

0 to 61 RPM

Maximum Load 80 kg

L x W x H 800 x 900 x 1600 mm

Weight 70 kg



UMS 4 + 514.1 (floor stand)

Hose measuring tool up to 1 1/4",
Ø 65 mm can be mounted in front
of the cutter or on a hose coiler.

Measures up to 999,99 m

tolerant 2 - 7%

L x W x H 250 x 260 x 120 mm

Weight 5 kg

Metric unit only



513.1 (Accessory)

Plate for USH 4



Spark arrestor

330.1 EM 1 to EM 8

330.2 EM 120 & EM115



UAT 4

Hose winder for storing hoses

Ø 1 200 mm

L x W x H 820 mm x 900 mm x 1 600 mm

Max. load 80 kg

Weight 70 kg

Center pin set up

Smallest Ø 277,5 mm

Biggest Ø 577,5 mm

USH4-50

Hose winder for the easy storage of your hydraulic hoses, up to seven levels.

cage-Ø outside/inside 820/760 mm

external dimension 1 000 mm

level high 310 mm

Cage ultimate load 80 kg

513.1:

Plate with fixing bolts

USH 4-5 Height 1 650 mm



778.2

Wheel option for TU-UWT

TU

Workbench for miscellaneous machines

(84 x 71 x 75 cm)

Max. load: 800 kg



Skiving Machines

Easy to use and safe.



Internal & External Skiving

Simultaneous internal and external skiving in one operation.



Universal

For all types of hoses and fittings.



Ecoline

Value driven solution for less frequent use.



USM 2



USM 10



USM 10 S



USM 100



USM 150



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



USM 10 S

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

User-friendly control improves efficiency

Full concentration on the piece due to control via foot pedal

Big Makrolon® windows give a good overview

Higher productivity due to quick change-over time

Easy exchange of skiving tool using a locking pin

Preset tools save time. When switching from one size to another, just put in the preset skiving tool and in seconds you are skiving another size (USM 10 S)

CE compliant

Easy-open protective cover

Safety flap for injury-free working

Safe installation on the workbench



USM 2



USM 10

Accessories



SSG
Slitting tool – to
keep the skiving
chips short



TU - work bench



USM 10 S -
PJ RKSTLS
without mandrels



USM 10 S - 313.1
Set with 6 mandrels.
Internal skiving
mandrel.



USM 2



USM 10



USM 10 S

Technical data	USM 2	USM 10 Ecoline	USM 10	USM 10 S
Internal skiving	5/8" – 2"	5/8" – 2"	5/8" – 2"	5/8" – 2"
External skiving	3/16" – 2"	3/16" – 2"	3/16" – 2"	3/16" – 2"
Drive	Manual	0,37 kW (1~)	0,37 kW (3~)	0,37 kW (3~)
Type of application	Mobil	Workshop	Workshop	Workshop
Noise level	-	60 dBA	60 dBA	60 dBA
L x W x H (mm)	338 x 465 x 445	440 x 440 x 545	440 x 440 x 545	440 x 440 x 545
Weight	16 kg	35 kg	35 kg	35 kg
Tool revolution	–	110 rpm	110 rpm	110 rpm
Options				
Bench	✓	✓	✓	✓
SSG	✓	✓	✓	✓

Packages

USM 2	+ 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 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 with 6 internal skiving tools - UIS.3- 16, 19, 25, 31, 38, 51) + tool rack (PJ_RKSTS)
USM 10 S TU	+ TU same as USM 10 S package, additional: Machine and tool rack mounted on the UNIFLEX table TU

Additional Information



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



Skiving mandrels are manually adjustable.



Safety switch for riskless operation.



Easy adjustment of the skiving tool.



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



1 tool on the USM 10 Ecoline for all dimensions.

Internal and external skiving - efficient and clean!

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



USM 100



USM 150

User-friendly control improves efficiency

Full concentration on the piece due to control via foot pedal

Big Makrolon® windows give a good overview

Hose guiding system can be controlled manually

Easy access to scrap drawer

Simultaneous internal and external skiving

Higher productivity due to quick change-over time

Easy exchange of skiving tool using a locking pin

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

CE compliant

Easy-open protective cover

Safety flap for injury-free working

Safe installation on the workbench (USM 100)



Package

Package USM 100

Machine

+ 5 internal skiving mandrels UIT Ø 20-Ø 25-Ø 31-Ø 38-Ø 51

+ 5 external skiving tools UOP 6,8,10,12,16

+ 5 external skiving tool holder (UOT 6 - 51)

+ 1 chuck (307.903)

+ SSG

Package USM 150

Machine

UIS - DN 50 to DN 125

UES - DN 50 to DN 125

Standard



Simultaneous internal and external skiving. (USM 100)



USM 100



USM 150

Technical data	USM 100	USM 150	NEW
Internal skiving	3/4" – 2 1/2"	2" – 5"	
External skiving	1/4" – 2"	2" – 5"	
Drive	1,2/1,8 kW (3 VAC)	4,4 kW (3 VAC), 7 bar (100 PSI)	
Type of application	Production	Production	
Noise level	60 dBA	60 dBA	
L x W x H (mm)	780 x 620 x 550	2545 x 810 x 1500	
Weight	70 kg	700 kg	
Tool revolution	392 rpm/592 rpm	94 rpm	
Accessories			
Bench	✓	–	
SSG	Standard	✓	
TU Table	✓	–	

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

USM 100	
Internal Skiving	UIT 12, UIT 20, UIT 25, UIT 32, UIT 40, UIT 50, UIT 12, UIT 60,
External Skiving	UOP 06, UOP 08, UOP 10, UOP 12, UOP 16, UOP 20, UOP 25, UOP 32, UOP 40, UOP 50,
Blade Holder	UOT 06 - 50, UOT 60

Accessories



SSG Slitting tool – to keep the skiving chips short. Included with USM 100.



TU - work bench

Additional Information



The SSG slitting tool shortens skiving chips.



Double skiving tool with hose.



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



Nipple Inserter, Pin Prick

Simplify your production.



Universal

For all types of hoses and fittings.



Ecoline

Value driven solution for less frequent use.



UNE 10



UNE 115



PR 10



PR 12

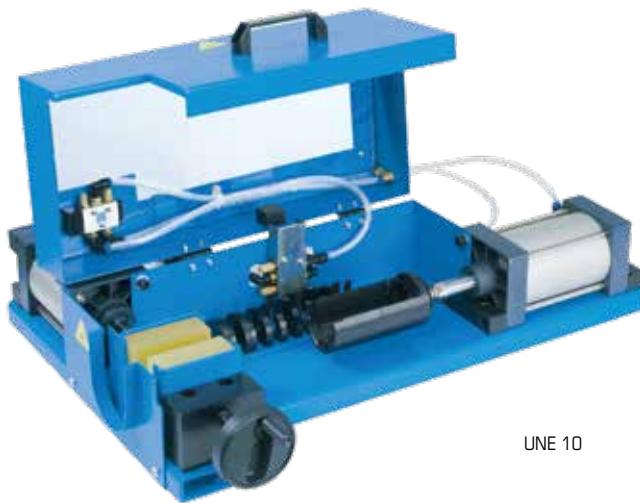


PR 14

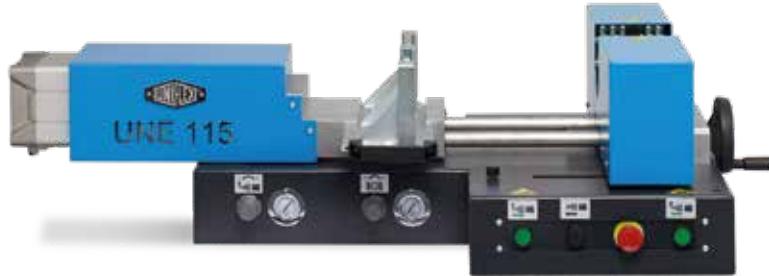




The UNE 10 and UNE 115 are high-performance tools for production and the workshop. These machines now permit fittings up to 3" to be inserted or extracted. Due to its innovative rapid tool sled, the insertion of 90 degree, 45 degree or straight fittings without changing tools is now simple and quick with the UNE 115.



UNE 10



UNE 115

Ergonomic

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

Liftable eyelets for easy positioning of the machine – UNE 115

Easy handling

Universal hose clamping dies for all hose diameters – no change-over eliminates lengthy setup times

Axially adjustable clamping unit for all diameters prevents kinking of thin hoses for efficient operation

Individual clamping force adjustment for damage-free clamping and avoiding scrap

Zero maintenance reduces costs

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

Safety compliant

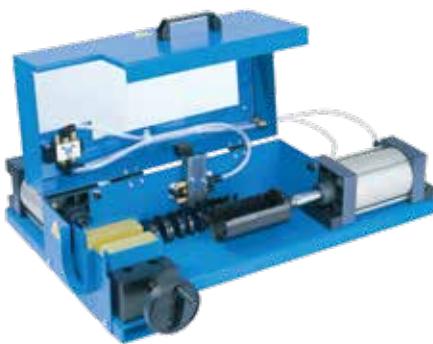
Safety guards on all moving components

CE-compliant, robust UNIFLEX quality

Standard

Established standard functions:

10 inserts for hose ferrules with bended tubes
(Ø 12, 15, 18, 22, 28, 34, 42, 54 mm
and one closed insert)



UNE 10



UNE 115

Technical data	UNE 10	Technical data	UNE 115
Max. nipple insertion (OD fitting, straight or elbow)	< 2"*	Working range	< 3"*
Force	5,1 kN (6 bar)	Hose max. outside	Ø 120 mm
Piston stroke	100 mm	Compressed air connection	8 bar
L x W x H (mm)	600 x 810 x 310	Insertion force	8 kN (8 bar)
Weight	35 kg	Clamping force	8 kN (8 bar)
Pneumatic air supply	7 bar/100 psi	Control	Foot pedal
		L x W x H (mm)	625 x 1 185 x 320
		Weight	100 kg
		Pneumatic air supply	8 bar/116 psi

* According to the manufacturer.

104.1150 standard set UNE 115:

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

Accessories



TU Table



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

Additional Information



Preloading Safety control coupled to foot pedal.



Secure clamping unit.



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

The use of gas hoses (e.g. compressed air, nitrate, etc.) requires perforating the outer layer. With low effort, the PR 10 / PR 12 / PR14 makes perforating the outer layer of hoses easy.

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



PR 10



PR 12



PR 14

Perforating with standards

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

Closable needles

Pricking from 4 sides simultaneously (PR 10/PR PB)

No injury to the pressure holder

Compact construction and tried-and-tested technique

Perforating of even 8 mm OD hoses is possible

Saves space

User friendly

Easy adjustment of hose dimensions

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

Saves money

No course of instruction needed

Patent solution vs. costs – PR PB

No investments for additional machines

No maintenance

Saves time due to reproducible adjustments of the prick depths

Easy handling

Perforating dies for crimpers



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

Delivered in 4-piece sets

Accessories



505.1
For PR12
3 Wheel
extension kit



Technical data	PR 10	PR 12	PR 14
Working range	Ø 8 - 45 mm	Ø 8 - 55 mm	Ø 30 - 100 mm
L x W x H	290 x 150 x 330	270 x 200 x 400	400 x 265 x 565
Weight	~ 8 kg	~ 22 kg	~ 58 kg

Machine	PR PB	Hose Ø (O - max. OD)	PR PB Intermediate die set
S6	PR PB 266 P	0 - 45 mm	./.
S6 ECOLINE	PR PB 266 P	0 - 45 mm	./.
HM290	PR PB 232 F	0 - 68 mm	./.
HM502	PR PB 232 F	0 - 70 mm	554.232 L
S8	PR PB 237 G	0 - 45 mm	./.
S8 ECOLINE	PR PB 237 G	0 - 45 mm	./.
S10	PR PB 237 G	0 - 45 mm	./.
S10 ECOLINE	PR PB 237 G	0 - 45 mm	./.
HM325	PR PB 237 G	0 - 70 mm	./.
HM375	PR PB 237 G	0 - 70 mm	./.
HM380	PR PB 237 G	0 - 70 mm	./.
HM420	PR PB 237 G	0 - 50 mm	245.237 L
HM480	PR PB 237 G	0 - 150 mm	245.237 L
HM485	PR PB 237 G	0 - 130 mm	245.237 L
HM660	PR PB 237 G	0 - 120 mm	245.237 L
HM1200	PR PB 237 G	0 - 120 mm	245.237 L
HM665	PR PB 237 G	0 - 120 mm	245.237 L



PR PB

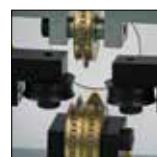
Additional Information



Constant prick depth



Side view



With perforating wheels

Double Prick Wheels

- Straight perforation
- No twisting of hoses

Adjustments

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

Compact construction

- With minimum space requirements
- Mobile usage possible



Marking and Bending Machines

Easy handling, rugged design, reliable operation.



Universal

For all types of hoses and fittings.



Ecoline

Value driven solution for less frequent use.



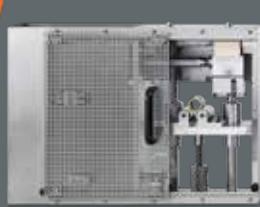
UIM 10



UP 10 Ecoline



UP 15



UP 115



UBM 6-20 M



UNT 6



UNT 10



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

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



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

Amortisation

Amortisation reached after 20 hours or 14,000 hoses

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

Reduction of discard through exact positioning of hoses and tools

Time and cost saving positioning of the tools increases productivity and profitability

Low maintenance costs

Pressure stamps for marking the ends of hoses with ink cartridges especially made for this work, prepared not to dry out

One ink cartridge lasts for approx. 10,000 markings

Technical innovations for steady quality

Pneumatic activation of the stamp

Clean markings

Exact and stable markings in each repetition

CE conformity

UIM 10

Technical data	UIM 10
Working range	2" (up to DN50)
Marking depth	10 - 150 mm
Production time max.	700/h
Air Pressure	5 bar (72,5 PSI)
L x W x H (mm)	330 x 190 x 313
Weight (kg)	4,5

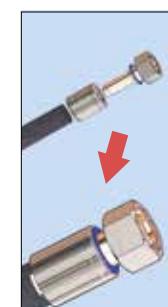
UNIFLEX insert – marking tool (ferrule position marking) Increases productivity and improves safety in hose sizes up to 2".



Additional Information



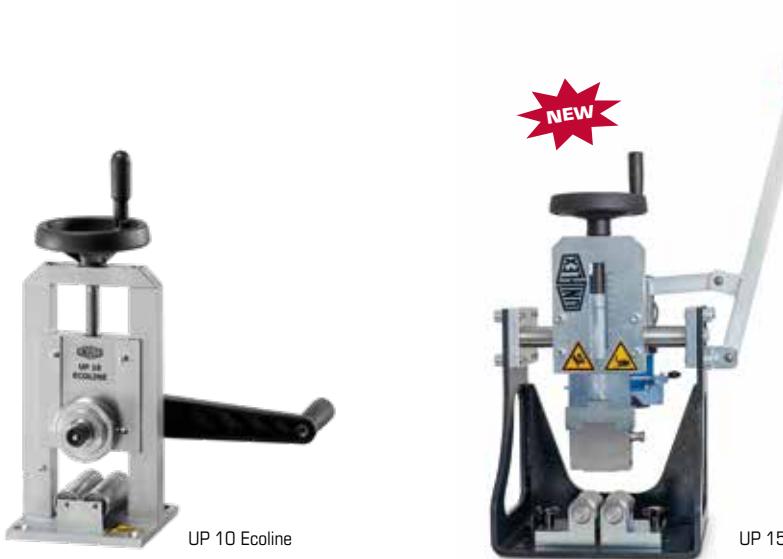
Mark hoses precisely and quickly with the UIM 10.



Optimal marking process



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



Compact Design

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

User friendly

Easy height adjustments possible

Precise and robust technique

Easy handling and adjustments

Low maintenance

ECOLINE Version

High quality for those new workshops



UP 115

Package

UP 10 Package =
UP 10 Ecoline + UPTS 10

UP 15 Package
UP15 + UPTS 100

UP 115 PBHC Package =
UP 115 + UPTS 100

506.050.3

506.080

UP 10 Ecoline Package:

UPTS 10

Marking Type Set

Letters: 1x A, B, I, N, R, S, /, 2x P, 10x space,

4x 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 115 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



UP 10 Ecoline



UP 15



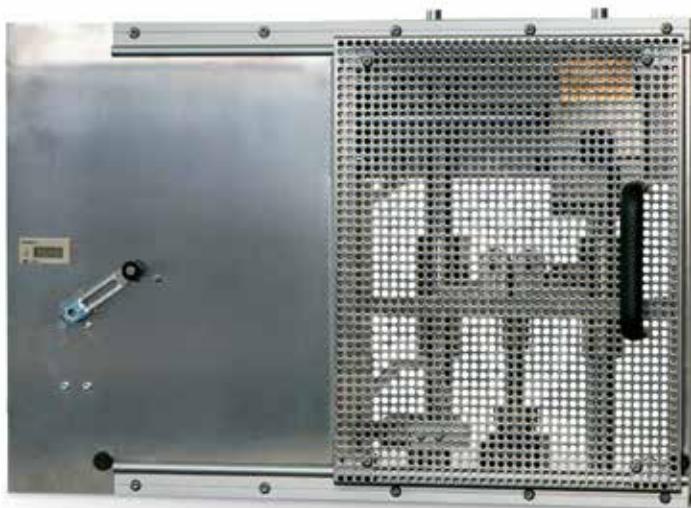
UP 115**

Technical data	UP 10 Ecoline	UP 15	UP 115
Marking area	Ø 12 - 80 mm	Ø 11,5 - 90 mm	Ø 11,5 - 100 mm
Marking depth	~ 0,5 mm	~ 0,5 mm	~ 0,5 mm
Insertable steel type	25 pieces	30 pieces*	30 pieces *
Drive	Manual	Manual	Pneumatic 7 bar (98 PSI)
L x W x H (mm)	285 x 265 x 410	272 x 200 x 750	625 x 465 x 325
Weight (kg)	10	35	48

Marking depth depends on the adjustment of the marking roll.

* Depending on the type holder.

** Not for 1 piece fitting



UP 115 closed

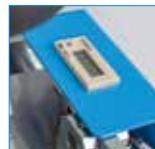
Accessories



504.003



506.060.3



508.7001

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

Type holder for UP 115. Single row, 13 characters, 4 number type wheels and bar/psi stamp. UP 15

Counter for UP 15

508.1003.3

Standard UP 115



506.090



506.050.3



506.080

Counter for UP 115

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

508.1002.3

UP 15

The UBM 6-20 M is a universal bending device for steel pipes up to 20 mm OD. It comes with a set of bending rolls for common applications.

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



Compact design

Compact for mobile usage

Standard with a set of 9 bendings rolls

User friendly

Easy handling

Simple adjustment

Wide workpiece range

Innovative design

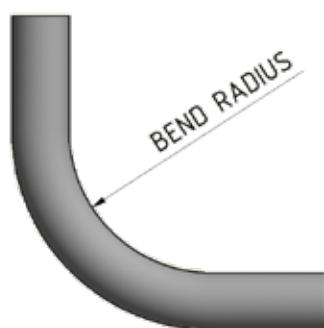
Angle scale included

Telescopic lever

UBM 6-20 M

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

Bendings rolls	Tube OD (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



UNT 6 and UNT 10 are reliable machines for the production of reusable hose assemblies, insertion of high pressure fittings or even to use with a skiving tool.



UNT 6



UNT 10

Technical data	UNT 6	UNT 10
Maximum Hex or hose diameter	40 mm (1,57")	100 mm (4")
Maximum travel distance	500 mm (19,68")	300 mm (11,81")
Clamping Jaw	7 – 55 mm (0,02" – 2,16") 12 - 17 mm (0,47" - 0,67") 17 - 46 mm (0,67" - 1,81") 46 - 80 mm (1,81" - 3,15")	
Drive	1,5/3,6 kW 3 VAC	1,5/3,6 kW 3 VAC
Motor rotation (RNP)	101/207	101/207
Noise level	70 dBA	70 dBA
L x W x H (mm)	1 600 x 550 x 850	1 600 x 550 x 850
Weight (kg)	176,5	223



Standard



Foot pedal



Security Cover (UNT 6)



Test Benches & Cleaning Machines

Reliable, clean and eco-friendly.



Universal

For all types of hoses and fittings.



Ecoline

Value driven solution for less frequent use.



Integrated Tank

Saves work space and is quiet.



P 160 Ecoline



P 160



P 250



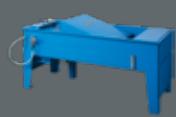
P 300



P 350



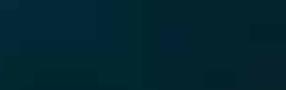
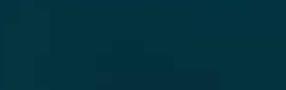
RG 2



RG 10



HO



Hose lines that cannot withstand the high pressure for which they are designed can cause serious damage, resulting in high costs - often higher than the price of a test bench. Why take a risk that can be easily avoided?

By testing the quality of your products, you opt for safety. The P 160 or P 160 Ecoline workshop test benches allow for the efficient and safe final inspection and testing of hose lines. They are easy to operate and quickly become part of your routine procedures.



P 160



P 160 Ecoline

Quality and safety

Fully enclosed test chamber

Also suitable for static pressure testing of various hydraulic components such as valves, hydraulic cylinders, housings, quick-release couplings, etc.

Safety valve – when the hood is opened, all pressure is automatically released within 1/10 second

Hood with gas springs and transparent Makrolon® safety pane

Environmentally friendly test medium (water-oil emulsion)

Easy and safe to operate

Test bench can be retrofitted with extension element (P 160)

Logging software/printer available as optional equipment (Control B+ Touch) (P 160)

Compressed air filter with condenser

Innovative technology for fast processing

Parts to be tested (hose lines) can be inserted quickly by means of our Steck-O-System and without any time-consuming preparation or modifications to the tank

Fast filling and automatic pressure release of tested parts

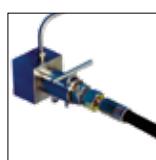
CE compliant

Hood with gas springs and transparent Makrolon® safety pane

Package

P 160 Package/
P 160 Ecoline Package
Machine
+ Steck-O-Adapter metric 405.901
+ Steck-O-Adapter imperial 405.902
+ Anticorrosion additive EM CO - 18 kg

Standard



Steck-O-System

Accessories



4 Steck-O-Adapter 405.6.



P 160 Ecoline

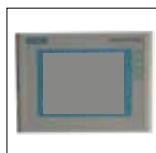


P 160

Technical data	P 160 Ecoline	P 160
Test pressure	150 - 1 300 bar	150 - 1 300 bar
Drive	Intensifier	Intensifier
Flow	1,1 L/min	1,1 L/min
Capacity	7 bar, 20 NI/min	7 bar, 20 NI/min
Tank dimensions	1 200 x 600 x 250 mm	1 590 x 795 x 370 mm
Test bench dimensions	1 400 x 600 x 1 200 mm	2 210 x 950 x 1 325 mm
Reservoir capacity	33 L	100 L
Colour	RAL 5012 Blue	RAL 5012 Blue, RAL 7021 Grey
Weight	120 kg empty	210 kg empty
Noise level	72 dBA	72 dBA
Accessories		
Suction filter	✓	✓
Air preparation unit	✓	✓
Steck-O-Adapter (s-series only)	DN 4/6/8/10/12/ G 1/2" 405.901	DN 4/6/8/10/12/ G 1/2" 405.901
Steck-O-Adapter (s-series only)	R 1/4" / 3/8" / 1/2" / 3/4" / G 1/2" 405.902	R 1/4" / 3/8" / 1/2" / 3/4" / G 1/2" 405.902
Anticorrosion additive	EM 10 l	EM 10 l
Options		
Alternative drive only with pre filling pump 405.904/405.914	-	0,38 kW, 400V 50Hz 3Ph
High pressure* (Steck-O-System not available)	-	150 - 3 000 bar
Low pressure*	-	20 - 1 300 bar

* Only one of the two options possible.

Options



Control B + Touch
(only for P 160)



The P 160 is also available in stainless steel



P 160 extension element
407.3150: Total chamber length 3 600 mm
407.3250: Total chamber length 4 400 mm



UPP Pressure Sensor for test benches.

Additional Information



Steck-O-System:

- Clean, quick and reliable connection
- Push-in system for easy assembly
- Ample space in chamber
- Adapter for fast connection





The P 250 Test Bench with Control C.2 IPC is a new modular test bench that can be adapted to your needs. It offers the possibility to test with Steck-o, Hand or Hydraulic quick cone system. You can also install a Euro Pallet inside. The Chamber also accepts a non-end extension if you prefer to test a hose lengthwise. The controller offers all parameters for a fully automatic test, with visualization of the pressure and may other features but also connectivity to your server or other machine in line with industry 4.0.



P 250

Quality and safety

Fully enclosed test chamber

Also suitable for static pressure testing of various hydraulic components such as valves, hydraulic cylinders, housings, quick-release couplings, etc.

Safety switch - when the hood is opened, all pressure is automatically released within 1/10 second

Environmentally friendly test medium (water-oil emulsion)

Easy and safe to operate

Quick changeover between automated and manual setup mode

Test bench can be retrofitted with extension element

Up to 120 tests per hour for a max. length of 2 500 mm (DN 12-800 mm)

Innovative documentation management

Time-saving product parameter memory

Proper documentation and controlling

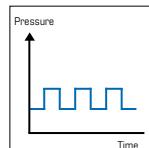
Test reports printed on printer (optional)

CE compliant

Hood with gas springs and transparent Makrolon® safety pane

Package

P 250
Machine
+ Steck-O-Adapter 414.1000
+ Anticorrosion additive EM CO - 18 kg



Dynamic test.



Steck-O-4 Fach



Hand clamping cone



P 250



Technical data	P 250
Test pressure	150 - 1 500 bar
Control	C.2 IPC
Drive	Intensifier
Flow rate (effectively)	7,5 L/min
Air supply	7 bar, 60 Nl/min
Tank dimensions	2 194 x 890 x 470 mm
Test bench dimensions	2 700 x 1 450 x 1 550 mm
Reservoir capacity	120 L
Loading	250 kg
Weight	570 kg
Noise level	75 dBA
Electrical connection	3 VAC
Options	
High pressure	150 - 3 000 bar
Low pressure	20 - 1 500 bar
Stainless steel tank	✓
Extended version on request	
L x W x H (mm)	2 220 x 1 000 x 1 400
Weight	420 kg

**Steck-O adapter and screw connection:**

1 x Steck-O up to 1500 bar:	414.1000
4 x Steck-O up to 1500 bar:	414.1012
1 x Screw connection up to 1500 bar:	414.1001
4 x Screw connection up to 1500 bar:	414.1011
1 x Screw connection up to 3000 bar:	414.1008
4 x Screw connection up to 3000 bar:	414.1013

Fast clamping system:

1 x Hand clamping cone up to 1500 bar:	414.1002
3 x Hand clamping cone up to 1500 bar:	414.1032
1 x Hand clamping cone up to 3000 bar:	414.1005
3 x Hand clamping cone up to 3000 bar:	414.1035
1 x Hydraulic clamping cone up to 1500 bar:	414.1003
3 x Hydraulic clamping cone up to 1500 bar:	414.1033
1 x Hydraulic clamping cone up to 3000 bar:	414.1004
3 x Hydraulic clamping cone up to 3000 bar:	414.1034

**Tank Extension n°: 414.2100.0**

Extension kit 1 x Steck-O:	414.1290
Extension kit 1 x Screw connection up to 1500 bar:	414.1290
Extension kit 1 x Screw connection up to 3000 bar:	414.1208
Extension kit 1 x Hand clamping cone up to 1500 bar:	414.1202
Extension kit 3 x Hand clamping cone up to 1500 bar:	414.1232
Extension kit 1 x Hand clamping cone up to 3000 bar:	414.1205
Extension kit 3 x Hand clamping cone up to 3000 bar:	414.1235
Extension kit 1 x Hydraulic clamping cone up to 1500 bar:	414.1203
Extension kit 3 x Hydraulic clamping cone up to 1500 bar:	414.1233
Extension kit 1 x Hydraulic clamping cone up to 3000 bar:	414.1204
Extension kit 3 x Hydraulic clamping cone up to 3000 bar:	414.1234



Hand quick cone system



Hydraulic quick cone system



Different cones



Extension of quick system to 3 lines



Barcode Scanner BCR CTR2C-Kit

With the P 300, you can perform precision tests of hoses up to 2 500 mm in length and with pressures up to 1 000 bar. Test up to 120 hoses per hour, making use of 4 parallel test lines and our quick-clamping system. You can choose between automated and manual setup mode. Our P 350 test bench unifies our years of experience with your advanced requirements for special hose equipment. The extra-large test chamber gives you the space you need for your challenge. Pallets with hoses as well as large, heavy hose coils can be easily supplied to the chamber by forklift. Hose samples are connected easily with adapter hose and quick connection to pressure ports.



P 300



P 300 Aggregate



P 350

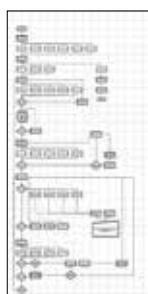
Innovation and quality

- 4 parallel test lines
- Combination of two test chambers (mirror arrangement) (optional)
- Fast workflow thanks to separately running test chambers (for alternate setup and testing)
- Quick-clamping system holding up to 4 hoses for parallel testing with customized settings
- Internal lighting system, adjustable machine feet and top-quality internal gear pump
- Quick changeover between automated and manual setup mode
- Separate portable power aggregate (with 2 m connecting hoses)
- Max. hose length 2 500 mm

Safety and CE conformity

- Automatic closing of test chamber (P 300)
- Large inspection window made with transparent Makrolon®
- Display for bubble-free flooding on aggregate
- Customisable test logs and reports (for storage and printing)

Control C.2: Accessories



Customized software



Barcode scanner

Options

P 300 Aggregate - 2 NVA
Control Unit for two test chambers409.1 Deventilation of residual pressure
409.2 Manual door closing for tight circuit
409.3 Low pressure 50-1000 bar



P 300



P 350

Technical data	P 300	P 350	Standard P 300
Test pressure	150 - 1 000 bar	150 - 1 000 bar	
Control	C.2 IPC	C.2 IPC	
Drive	Diaphragm pump + Intensifier	Diaphragm pump + Intensifier	
Flow rate (effectively)	5 L/min	12.5 L/min	
Tank dimensions open/ closed	3 750 x 2 400 x 870 mm/ 3 750 x 1 450 x 870 mm	P 350 Container: External: 2 100 x 2 170 x 2 650 mm Internal: 1 950 x 1 950 x 2 200 mm P 350_Chamber-3 600: External: 4 100 x 950 x 1 325 mm Internal: 3 600 x 795 x 370 mm	
Aggregate dimensions	830 x 740 x 1 340 mm	850 x 1 390 x 810 mm	
Reservoir capacity	120 L	P 350 Container: 1040 L, P 350_Chamber-3600: 330 L	
Colour	RAL 5012 Blue, RAL 7021 Grey	RAL 5012 blue/RAL 7021 grey/RAL 9002 grey-white	
Weight of tank	1 000 kg (empty)	P 350 Container: 650 kg P 350_Chamber-3 600: 390 kg	
Weight of power unit	210 kg (empty)	210 kg	
Noise level	75 dBA	75 dBA	
Max. hose length	up to 2 500 mm		
Test medium	Water-oil emulsion EM CO-18 kg	Water-oil emulsion EM CO-18 kg	
Accessories			Standard P 350
Pressure + return filter	✓	✓	Quick connector set (SSKV)
Air preparation unit	✓	✓	Automatic pressure control
Sealing cone set	✓	✓	Pressure filter 12 µm
Options			Suction filter 100 µm
Second chambers are possible	✓	✓	Anticorrosion additive EM 10 L
			Fluid flow inspection glass
			Integrated tank



2 clamping discs per head, catering to various diameters (OD 8-42 mm).

For hose assembly up to DN 19 (3/4").
Other sizes on demand.

Additional Information



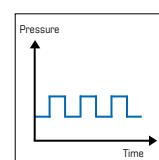
Sealing cone set
(standard), DN 2.5 -
22 mm, 6 cones.



The height of the
P 300 can be
adjusted.



Axially adjustable quick-change
system with adjustable rotating
head.



Dynamic test.

- Rapid hose clamping system for the admission of up to four hoses with simultaneous checking (variable setting)
- Parallel test lines – four test lines per chamber
- Automatic starting of the given pressure values
- Two test chambers are possible – mirroring (one is loaded while a second chamber is testing)
- Test chamber standard size 3 600 mm
- Depending on different factors (flooding time, length + diameter of the hoses) you can test approx. 120 hoses per hour
- Adjustable height
- Fitting cones 3/4" (DN 2.5 – 22 mm) easy to change via simple unlinking (6 different cone sizes are available in standard package)



UNIFLEX cleaning machines effectively remove residue and scale from hose cutting, crimping and press fitting.



RG 10



RG 2

Package

RG 10 or RG 2
Hakapur 21,5 L Cleaning Agent
Flushing Cone Ø 4 and Ø 8 mm (0,15" and 0,31")

Accessories



Flushing cone
SK 3802.4
Ø 2 mm (0,08")



Suction filter
400.031: RG 2
UJ_30.10.02: RG 10



Pressure filter
600.901 5 µm



RG 2



RG 10

Technical data	RG 2	RG 10
Drive	Diaphragm pump, 7 bar Air	Diaphragm pump, 7 bar Air
Maximum flow rate	25 l/min	180 l/min
Pressure filter	5 µm	10 µm
Air filter	5 µm	5 µm
Max. air consumption	100 Nl/min	250 Nl/min
Working range	up to 1 1/4" ID	up to 2" ID
Max. length, depending on bore size	2,5 m/8 feet	20 m/65 feet
Tank capacity	38 L	215 L
Working area	350 x 750	800 x 1 600
Cleaning agent	Non-toxic and corrosion-free emulsion, water based.	Non-toxic and corrosion-free emulsion, water based.
L x W x H (mm)	960 x 435 x 940	2 000 x 840 x 1 050
Weight (empty)	55 kg	160 kg

Accessories

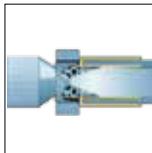
Hakapur 21,5 L - RG 2+RG 10 - concentrated cleaning agent

PJ_30.10.76 - RG 10 - Pressure filter cartridge 5 µm

PJ_30.10.60 - RG 10 - Pressure filter cartridge 10 µm

600.4 - RG 2 - Filter cartridge 5 µm

600.5 - RG 2 - Filter cartridge 12 µm



UNIFLEX cleaning machines effectively remove residue and scale from hose cutting, crimping and press fitting.





Special Equipment

Solutions for every requirement.



Universal

For all types of hoses and fittings.



Greaseless

Slide bearings on the crimp tool improve efficiency up to 20%, reduce friction and help keep the tool free of contaminants.



Environment friendly

Engineered to last.



KS 6 I KS 8 I KS 10



HMC 1-25 I HMC 1-30



HM 245



HM 380 I HM 480
HM 660 I HM 1200



HMC 12-2000



ITM 300



The UNIFLEX KS 6, KS 8 and KS 10 are designed for precision crimping and calibration.



KS 6, KS 8, KS 10

High-level components and system solutions

Slide bearing technology

Grease-free for extra cleanliness and prolonged service life

Maximised productivity at very low operating costs

Chips brush off easily, minimising tool wear

Clean machining area

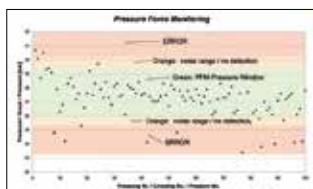
Reduces crimping force loss by up to 20%

High process stability and reproducible accuracy

CE compliant

Standard – Pressure Force Monitoring

PFM – Standard on all machines with Control C.2



Quality-enhancing option for series production. With PFM, the upper and lower pressure limits can be set by adjusting the tolerance values obtained from test pressing.

Pressures outside these limits are output as errors. It is possible to let the machine switch off at a fixed upper or lower limit, thereby obtaining a higher process safety.

This way you can display and record combinations of incorrect hose and fittings, skipped work stage, such as skiving of the hose or a poorly positioned hose-fitting connection. Achieve integrated quality control without any additional effort.

Standard



PS Double foot pedal



KS 6, KS 8, KS 10

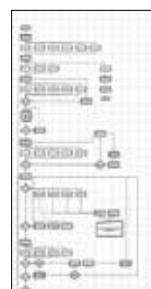
Technical data	KS 6	KS 8	KS 10	Type of dies
Crimp force (kN/Ton)	500/50	800/80	1 800/180	 PBK 239 PBK 237
No grease: 20% less friction	✓	✓	✓	Ø mm mm mm
Control	Control C.2	Control C.2	Control C.2	12 3 3
Max. crimping range	55 mm	139 mm	139 mm	14 3 3
Opening	+25 mm	+45 mm	+45 mm	16 4 4
Opening without dies	95 mm	190 mm	190 mm	19 4 4
Type of dies	PBK 239	PBK 237	PBK 237	22 4,5 4,5
Speed (mm/sec)				24 4,5 4,5
Close	12	7	3,5	26 4,5 4,5
Crimp	12	7	3,5	28 4,5 4,5
Open	30	15	6	32 5 5
Noise level	58 dBA	58 dBA	58 dBA	36 5 5
Drive	5,5 kW 3 VAC	5,5 kW 3 VAC	5,5 kW 3 VAC	40 5 5
Oil	80 L	80 L	80 L	44 5 5
L x W x H (mm)	1 000 x 1 000 x 1 700	1 000 x 1 000 x 1 700	1 000 x 1 000 x 1 700	47 5 5
Weight	470 kg	570 kg	570 kg	50 5
				54 5
				57 5
				62 5
				67 5
				71 5
				74 5
				78 5
				84 5
				86 5
				90 5
				96 5
				103 5
				106 5

Accessories



OC KS6/KS8 MVA

Control C.2: Accessories



Customized software



Electronic caliper



Calibration mandrel



Barcode scanner

UTS/UDL
Data transferULS
UNIFLEX label system807.2
Screen protector

Press designed specifically for the production of automotive hoses. A good example for such a tailor-made solution is the HMC 1-25, HMC 1-30 and HM 245 with C-shaped crimping tool designed for radial insertion of complex hose lines. This special press is an ergonomically designed, low-noise machine that requires no lubrication. It has been specifically devised for the production of hoses for the automotive industry, offering outstanding press forces and precision. With PFM and other optional features, you can adjust the press force to process materials that are easily damaged, producing strong and lasting connections without any need for gluing, screwing or welding.



HMC 1-25 | HMC 1-30

HM 245

Innovative design with C-shaped crimping tools

Compact dies for easy crimping of 90° elbow fittings

Radial workpiece insertion

High-level components and system solutions

Quality pumps designed for low-noise operation

Slide bearing technology

Optimised productivity with minimum maintenance costs

Reduces crimping force loss by up to 20%

Grease-free for extra cleanliness and prolonged service life

No greasy dirt deposits

New Control C user interface

Touch control screen

Programmable crimp dimensions and pressure measurement

Large product memory for efficient production management

HID compliant

CE compliant

Package

HMC 1-25 | HMC 1-30

Package = Machine

+ PB Ø 17, 20, 24, 28, 32, 40, 44, 50

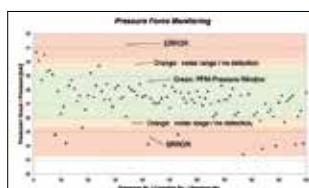
HM 245

Package = Machine

+ PB Ø 17, 20, 24, 28, 32, 40, 44, 50

Standard – Pressure Force Monitoring

PFM – Standard on all machines with Control C.2



Quality-enhancing option for series production. With PFM, the upper and lower pressure limits can be set by adjusting the tolerance values obtained from test pressing.

Pressures outside these limits are output as errors. It is possible to let the machine switch off at a fixed upper or lower limit, thereby obtaining a higher process safety.

This way you can display and record combinations of incorrect hose and fittings, skipped work stage, such as skiving of the hose or a poorly positioned hose-fitting connection. Achieve integrated quality control without any additional effort.



HMC 1-25 | HMC 1-30



HM 245

Additional Information



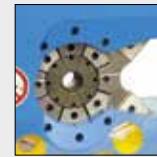
Radial insertion of workpieces, catering even to 90° bends.



Sliding table with handle.



Double head system.



Constant axial centre when crimping jaws are closed.

Technical data	HMC 1-25	HMC 1-30	HM 245
Crimp force (kN/Ton)	250/25	300/30	750/75
No grease: 20% less friction	✓	✓	✓
Control	Control C.2	Control C.2	Control C.2
SAE R 12* 1 piece fitting			1"
SAE R 12* 2 piece fitting			¾"
Industry	1"	1"	1"
Max. crimping range	70 mm	70 mm	70 mm
Radial opening			75 mm
Opening without dies	90 mm	90 mm	105 mm
Type of dies	239	239	239
Speed (mm/sec)			
Close	30	30	27
Crimp	5	5	5
Open	50	50	30
Noise level	< 80 dBA	< 80 dBA	53 dBA
Drive	4 kW	4 kW	4,0 kW
Oil	100 L	100 L	100 L
L x W x H (mm)	650 x 590 x 1 700	650 x 590 x 1 700	1 020 x 950 x 1 450
Weight	320 kg	320 kg	610 kg

* According to the fitting.

Type of dies (HMC 1-15 HMC 1-25 | HMC 1-30)

239 - 38	Ø mm	mm
6,8	38	6,8
9	38	9
10	38	10
12	38	12
14	38	14
16	38	16
17	38	17
19	38	19
20	38	20
22	38	22
24	38	24
26	38	26
28	38	28
30	38	30
31	38	31
32	38	32
34	38	34
36	38	36
38	38	38
39	38	39
40	38	40
44	38	44
47	38	47
50	38	50
54	38	54
57	38	57
62	38	62

Type of dies (HM 245)

239	Ø mm	mm
6,8	50	6,8
9	50	9
10	50	10
12	50	12
14	60	14
16	60	16
17	60	17
19	60	19
20	60	20
22	60	22
24	60	24
26	75	26
28	75	28
30	75	30
31	75	31
32	75	32
34	75	34
36	75	36
38	75	38
39	75	39
40	75	40
44	75	44
47	75	47
50	75	50
54	75	54
57	75	57
62	75	62

Accessories



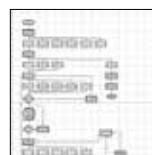
PTS Die marking



OC HM 3xx/HM 245



Sliding table with handle



Customized software



Electronic caliper



Calibration mandrel



Barcode scanner



LUF



PS.2 Double foot pedal



UTS/UDL Data transfer



ULS UNIFLEX label system



807.2 Screen protector

Control C.2: Accessories

Our production crimper models HM 380, HM 480, HM 495, HM 660, HM 665 and HM 1200 are ideal for the crimping of insulators, cables, steel ropes and reinforcing steel elements.



High-level components and system solutions

- HiLo cylinder - for enhanced power without extra heat/risk of overheating
- Compact ergonomic design
- Large basic jaws suitable for the crimping of virtually any fitting type
- Lateral reinforcement for optimised product quality
- Low-noise operation thanks to special pumps

Fixed 6-o'clock die

- For force-free and accurate workpiece positioning
- Enhanced productivity
- Improved workplace safety and less stress for operating personnel

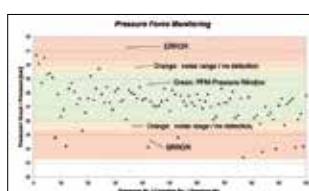
Slide bearing technology

- Grease-free for extra cleanliness and prolonged service life
- Maximised productivity at very low operating costs
- Chips brush off easily, minimising tool wear
- Hoses remain grease-free
 - Ideal for hoses designed for the food or pharmaceutical industry
 - Reduced tool wear
- Reduces crimping force loss by up to 20%
- High process stability and reproducible accuracy

CE compliant

Standard

PFM – Standard on all machines with Control C.2



Quality-enhancing option for series production. With PFM, the upper and lower pressure limits can be set by adjusting the tolerance values obtained from test pressing.

Pressures outside these limits are output as errors. It is possible to let the machine switch off at a fixed upper or lower limit, thereby obtaining a higher process safety.

This way you can display and record combinations of incorrect hose and fittings, skipped work stage, such as skiving of the hose or a poorly positioned hose-fitting connection. Achieve integrated quality control without any additional effort.



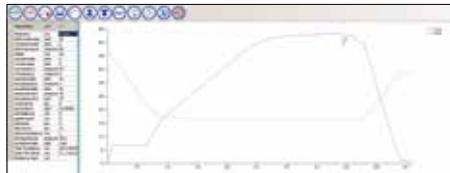
HM 380 | HM 480
HM 660 | HM 1200



(Cooper-) Cable Rebar fasteners Insulator Heater Aircon hose

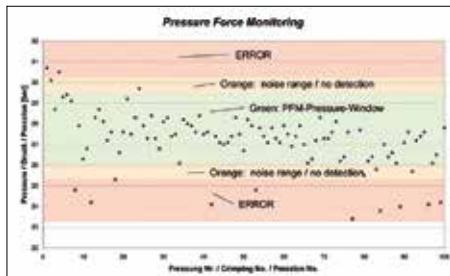


Special dies for forming tubes with square or round ends.



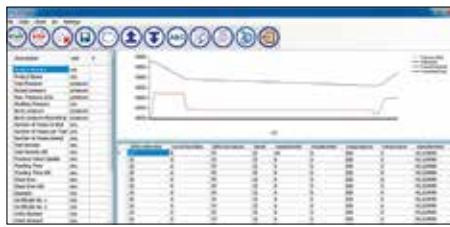
PFC (Pressure Force Control) makes it possible to crimp pressure-sensitive work pieces, such as fiberglass insulators, resulting in a stable connection that will endure extreme forces. PFC is based on the adjustability of the applied crimp force to take into account the individual material characteristics. This secures the highest quality of your products – without having to glue, screw or weld! It is a special demand for a machine crimping with PFC. To find the ideal crimper for you, please contact your local UNIFLEX salesperson.

Option: PFC



PFM gives you the option to achieve a substantial quality improvement - for a comparatively small investment of time and money. Here is how it works: After each crimp process with the PFM-Option the reached crimp value is shown. From these measures, the start values for the upper or lower pressure limit can be determined. During each crimp process, the permanently measured crimp value is compared to the entered limits. If this exceeds the set limits, an error message is shown. At the end of the crimp process, it is tested once more if the minimal pressure has been reached. In the case of an error, the operator has the option to check the workpiece thoroughly and to correct any sources of the error. During a detailed examination with the PFM-option, the quality of a production process was increased from 97.8% to 99.7%. The UNIFLEX PFM option revealed that 2% of all produced parts had defects, thus preventing these defective parts from being delivered to customers.

Standard: PFM



UTS enables a comfortable article entry via a PC. The data can be entered in a set MS Excel-sheet and be transferred with UTS to the Control C.2. Therefore, it is possible to compare the data from a number of machines, provide documentation and backup in one go. All crimpings can be documented with UTS, especially with the PFM option, which saves the pressure value as an additional parameter.

Accessories: UTS/UDL

Accessories

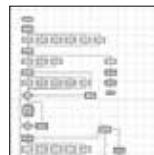


PTS Die marking



OC HM 3xx/HM 245

Control C.2: Accessories



Customized software



Electronic caliper



Calibration mandrel



Barcode scanner



TA (A)
Depth stop



Multistep included
with Control C.2



QDS 239 C



LUF



PS.2 Double foot
pedal



RFID



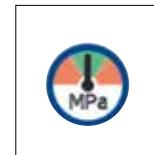
DMS



ULS
UNIFLEX label system



807.2
Screen protector



Crimping by Pressure
included with Control C.2

Stability, innovation and crimping force characterize the new UNIFLEX HMC 12-2000 crimper.

This machine is not only able to crimp the biggest hoses ever for a UNIFLEX machine, it is also the most compact one for mobile work in UNIFLEX history. The HMC 12-2000 is the most solid built C-crimper of the 2000 ton category due to its integrated powerbooster for high crimping forces. After a long period of research and development in the field of FEM, this machine outshines all others of its category. UNIFLEX defines new crimping techniques and focuses on the highest quality and user-friendliness as well as on advanced materials.



HMC 12-2000

High-level components and system solutions

HiLo cylinder - for enhanced power without extra heat/risk of overheating

Compact ergonomic design provides ergonomic work and mobile usage for fixed pieces

Large basic jaws suitable for the crimping of virtually any fitting type

Lateral reinforcement for optimised product quality

Patented design

New FEM calculation used

Tool can be removed separately

Stable, innovative

Low maintenance

Slide bearing technology

Grease-free for extra cleanliness and prolonged service life

Maximised productivity at very low operating costs

Hoses remain grease-free

- Ideal for hoses designed for the food or pharmaceutical industry
- Reduced tool wear

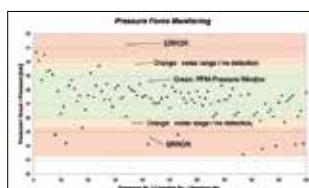
Reduces crimping force loss by up to 20%

High process stability and reproducible accuracy

CE compliant

Standard

PFM – Standard on all
machines with Control C.2



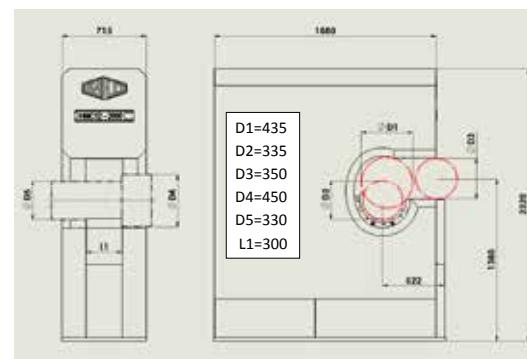
Quality-enhancing option for series production. With PFM, the upper and lower pressure limits can be set by adjusting the tolerance values obtained from test pressing.

Pressures outside these limits are output as errors. It is possible to let the machine switch off at a fixed upper or lower limit, thereby obtaining a higher process safety.

This way you can display and record combinations of incorrect hose and fittings, skipped work stage, such as skiving of the hose or a poorly positioned hose-fitting connection. Achieve integrated quality control without any additional effort.



HMC 12-2000



Technical data	HMC 12-2000
Crimp force (ton)	20 000/2 000
No grease: 20% less friction	✓
Control	Control C.2
SAE R15 4SH 1 piece	3"
SAE R15 4SH 2 pieces	3"
Industry	12"
90° bow	3"
Max. crimp range (mm) with basic dies	380
Crimping	Ø PB +50
Opening without dies	435 mm
Die type	247, 245, 237
Speed (mm/sec)	upon request,
Close/crimp/open	depends on power unit
L x W x H (mm)	2 000 x 750 x 2 400
Weight of tool (kg)	1 5000

Type of dies	
Ø mm	mm
54	118
57	118
62	118
67	118
71	118
74	118
78	118
84	118
86	118
90	118
96	118
103	118
106	126
111	130
116	130
121	130
126	130
131	130
136	130
146	150
156	150
170	170
185	200
196	200
215	200
230	200
245	200
260	200
275	200
290	200
305	200
131	126
116	126
121	126
126	126
131	126

Type of dies	
Ø mm	mm
103	130
106	130
111	130
116	130
121	130
126	130
131	130
136	130
146	150
156	150
170	150
185	200
196	200
215	200
230	200
245	200
260	200
275	200
290	200
305	200

Type of dies	
Ø mm	mm
96	130
106	130
126	130
131	130
136	130
146	150
156	150
170	170
185	200
200	200
215	200
230	200
245	200
260	200
275	200
290	200
305	200

More technical data

according to the graphic above

D1 = Max. axial diameter 435 mm

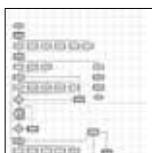
D3 = Max. radial opening 350 mm

D4 = Max. flange diameter 450 mm

D5 = Diameter basic dies 330 mm

L1 = Wide basic dies 300 mm

Control C.2: Accessories



Customized software



Electronic caliper



Calibration mandrel



Barcode scanner



PS.2 Double foot pedal



Multistep included with Control C.2



DMS



UTS/UDL Data transfer



ULS UNIFLEX label system



807.2 Screen protector



RFID



Crimping by Pressure included with Control C.2

The **ITM 300** is a drawing bench designed for the testing of insulators. As safety comes first, insulators must meet stringent safety standards – even under extreme loads. To ensure that they meet these requirements, UNIFLEX has designed a sturdy, special drawing bench for insulator testing.



Swivelling notebook shelf



Designed for easy setup and tooling

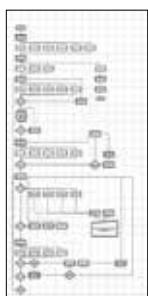


ITM 300

Technical data	ITM 300
Tension force (kN/t)	300/30
Piston stroke	500 mm
Force transfer	Computer-controlled servo-hydraulic
Control	Control C.2 + Touch
Noise emission	53 dBA
Max. insulator diameter	250 mm
Max. testing length with basic unit	540 mm
Additional testing length with extension element	3 000 mm (Accessory)
L x W x H test unit	3 000 x 780 x 1 670
L x W x H aggregate	1 000 x 1 200 x 1 700
Weight of test unit	1 400 kg
Weight of extension element	1 100 kg
Weight of aggregate	230 kg
Notebook shelf	Swivelling mechanism for extra space
Voltages	
ITM 300_MVA 230V-480 V, 50/60 Hz 3 Ph	other ratings available on request



Control C.2: Accessories



Customized software



UTS/UDL
Data transfer



807.2
Screen protector



Barcode scanner



888.074
Network printer



BCR CtrlC
Barcode scanner



701.2200 Extension
element 3000 mm



701.050, 701.051,
701.052, 701.053
Fork head connector with
bolts (insulators)

Accessories ITM 300

Tensile test bench for composite insulator testing

- 3 different test schedules: routine proof testing, failure load test and 96-hour time test
- Silent hydraulic screw pump
- Clamping heads with roller device
- Clamping heads with functional clevis to adapt several insulator connectors
- Buckling resistant base frame; optimized for minimal elasticity
- Modular base frame base element with 2 or 3 windows for visual control extension (optional)
- Cover opening 90° (crane loading possible)
- Height-adjustable insulator shelf

Insulator table with adjustable height

Easy tooling for increased productivity

Requires minimal maintenance

Ergonomic design

Easy tooling for increased productivity

Low-noise hydraulic pump for stress-free working

Insulator table with adjustable height

Siemens industrial colour touch panel

Clear visual display

Large product memory

Programmable product sequences

Network connection

USB interfaces

Safety

CE compliant

Makrolon® safety inspection panel

Safety unit with protective switch/EMERGENCY-STOP device

www.uxinside.net

Training and Certification.

Promote Quality!

Registration

UNIFLEX-Hydraulik GmbH Department:
Service and Training

E-Mail: training@uniflex.de
www.uxinside.net

Online Registration
via QR-Code



Specialist workshop for hose assembling

Assembling hose and fittings with safety as priority No. 1



TRAINING CONCEPT

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

TRAINING

Interesting to know

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

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

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

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

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

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

Only 10.2% believe that training is not the decisive factor for purchasing a machine, only the price.

1. HOSE ASSEMBLING

Theory and practice

Target Group

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

Theory

The participants acquire basic knowledge about

- Types of hose selection
- Rubber and thermoplastic hoses
- International standards and regulations
- Storage and storage periods of hose
- Hose fittings and connection forms

Practice

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

2. MACHINE MAINTENANCE

Maintenance and repair of UNIFLEX machines

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

Practice

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

Duration of training

2 days: Day 1 – basics of hose assembling, theory and practice

Day 2 – machine maintenance

maximum 8 persons per course

Start: 09:00 h

Cost

Each participant 675,00 €/p.P.

The participation fee includes refreshments, lunch and course materials.

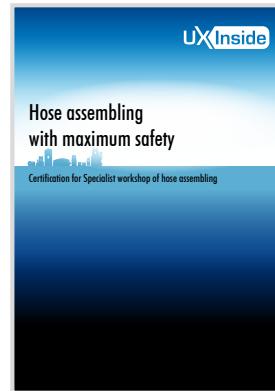
Info and Inscriptions

www.uxinside.net

Experience the Value using UNIFLEX Machines!

Share it with your Customer.

UNIFLEX Machine  **Certification**



 **Training**

Your service and sales team.

 **ULS**
(UXInside Label)



 **Workshop certified.**

Assembling hoses and fittings with UNIFLEX machines

Hose and fitting assembly

Assembling hoses and fittings with UNIFLEX machines is a highly effective and safe process. UNIFLEX machines are designed to ensure that hoses and fittings are assembled correctly and safely, reducing the risk of errors and ensuring that the final product is of the highest quality. The machines are equipped with advanced sensors and cameras to detect any potential issues during the assembly process, such as misaligned hoses or fittings, and automatically correct them. This ensures that the final product is safe and reliable, meeting all relevant safety standards and regulations.

Producing quality hose assemblies

Using the UNIFLEX UXInside Label, quality control is simplified and automated. The label is applied to each hose assembly, providing a permanent record of the assembly process and ensuring that the final product is of the highest quality. The label includes information such as the type of hose, the type of fitting, the date of assembly, and the name of the operator. This information can be used for追溯和质量控制，确保每根组装好的软管都是高质量的。

1 Clean and correctly cut hose

The key to a successful hose assembly is to clean and correctly cut the hose. This ensures that the hose is free from any debris or contaminants, and that the cut is straight and even. The UNIFLEX machine uses a high-quality cutting tool to ensure that the hose is cut accurately and safely.

2 Exact assembly tools - internal

The assembly tools in the UNIFLEX machine are designed to ensure that the hose and fitting are assembled correctly. The tools are made of high-quality materials and are designed to withstand the high pressures of the assembly process. The UNIFLEX machine uses a combination of manual and automated tools to ensure that the assembly is safe and efficient.

3 Safety selected fitting

Choosing the correct type of fitting is crucial for a successful hose assembly. The UNIFLEX machine uses a range of fittings, including quick-fit, compression, and flange fittings. The machine uses a combination of manual and automated tools to ensure that the fitting is selected correctly and safely.

4 Hose and fitting assembly

The final step in the assembly process is to assemble the hose and fitting. The UNIFLEX machine uses a combination of manual and automated tools to ensure that the hose and fitting are assembled correctly. The machine uses a combination of manual and automated tools to ensure that the assembly is safe and efficient.

5 UXInside Label

The UXInside Label is a permanent record of the assembly process, providing information such as the type of hose, the type of fitting, the date of assembly, and the name of the operator. The label is applied to each hose assembly, ensuring that the final product is of the highest quality. The label is also used for追溯和质量控制，确保每根组装好的软管都是高质量的。

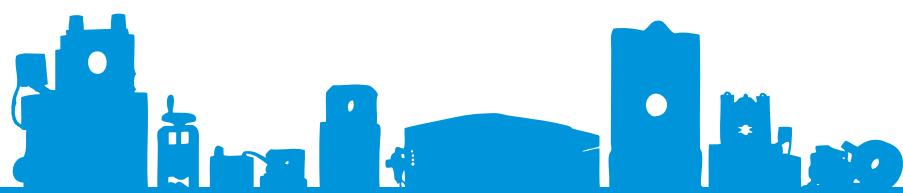
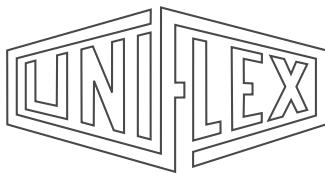


Specialist workshop for hose assembling

UNIFLEX.de
made in Germany



PROMOTE QUALITY!



UNIFLEX Special Innovations

– often copied, never matched!



We reserve the right to make technical changes without notice.
Based on the customer-specific hose line system the working range of the machines may vary.

Where we are and how to reach us.

UNIFLEX.de
made in Germany

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