Production Crimpers

Innovative, productive and durable.

www.uniflex.de

Content

Production Crimpers

Greaseless

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

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

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

Protect our Environment

Long-lasting equipment
contributes to the reduction of CO_2

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

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

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made in Germany

HM 3 H

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. With its compact construction, it allows easy, uncomplicated, and “rapid” crimping. The intuitive UNIFLEX Software on the convenient Control C.2 Touch completes the HM 3 H and ensures product quality.

HM 3 H

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 / 2.75"
Opening	+35 mm / +1.38"
Opening without dies	105 mm / 4.13"
Master dies length	100 mm / 3.94"
Type of dies	239-xx-Ø-yy
Speed (mm/sec)	
Close Crimp Open	8.3 8.3 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
Options	
Control IPC	✓

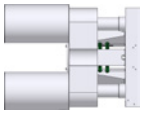
* According to the fitting.

Control page 44 / Accessories and options page 56

Type of dies

239-xx-Ø-yy

Ø mm	mm
6.8	65
9	65
10	65
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



SC = Press tool with Cylinder

Description

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 the new two-hole system, insertion of the dies from both sides is simplified and offers the possibility of selecting two different position (back and front) depending on the type of type of press jaw. The HM 3 H is compact and offers good accessibility.

Package:
Machine
+ PB Ø 17, 20, 24, 28, 32, 40, 44, 50
+ QDC 239.5
+ QDS 239 B
+ Control C.2

HM 222 | HM 225

Due to their narrow, innovative construction, high level of user friendliness, and long service life, the HM 222 and HM 225 set the standard for quality and cost effectiveness. Their unrivaled accessibility makes ergonomic working possible in production and series manufacturing. The tried and tested greaseless slide bearing technology reduces maintenance costs, and the strong crimping force of up to 1350 /1600 kN.

HM 222

Special machine
HM 225 with special recess

HM 222 C.2

HM 222 C.2

HM 225 C.2

HM 222

HM 225

Technical data	HM 222 NEW	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	1¼"	1¼"
4 SH* 2 piece fitting	1"	1¼"
SAE R 15* 2 piece fitting	1"	1¼"
Industrial*	2"	2"
90° Elbows*	1½"	1½"
Max. Crimp range	70 mm / 2.75"	70 mm / 2.75"
Opening	+35 mm / +1.38"	+40 mm / +1.57"
Opening without dies	105 mm / 4.13"	110 mm / 4.33"
Master dies length	75 mm / 2.95"	90 mm / 3.54"
Type of dies	239	239 -xx-ø-yy
Speed (mm/sec) **		
Close Crimp Open	10 5/10 10	19 1.5/3 19
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 1,450	645 x 560 x 1,470
Weight	310 kg	470 kg
Options		
Control IPC	✓	✓

Type of dies

239

Ø mm	mm
6.8	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

Type of dies

239-xx-Ø-yy

Ø mm	mm
6.8	65
9	65
10	65
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

* According to the fitting.

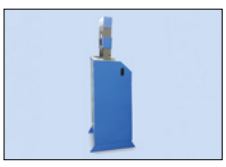
** Standard: Half power twice faster included.

*** Outside master dies length, consult UNIFLEX.

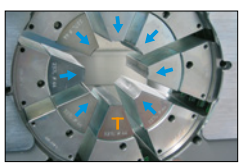
Control page 44 / Accessories and options page 56

Description

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



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.

Package HM 222:
Machine
+ PB Ø 17, 20, 24, 28, 32, 40, 44, 50
+ QDS 239 B + QDC 239.5
+ Control C.2

Package HM 225:
Machine
+ PB Ø 17, 20, 24, 28, 32, 40, 47, 54, 62
+ QDS 239 B + QDC 239.5
+ Control C.2

HM 375 | HM 380 | HM 400

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 series sets a new standard for quality and cost effectiveness.

HM 375 | HM 380 H

HM 400

HM 400

HM 375 I HM 380 H

HM 400

Technical data	HM 375	HM 380 H	HM 400
Crimp force (kN/Ton)	3,150/315	3,400/340	3,750/375
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	2½"	3"	3"
Industrial*	4"	4"	6"
90° Elbows*	3"	3"	3"
Max. Crimp range ** (mm/inch)	165 / 6.50	165 / 6.50	190 / 7.48
Opening (mm/inch)	+70 / +0.28	+70 / +0.28	+130 / +5.12
Opening without dies (mm/inch)	215 / 8.46	215 / 8.46	300 / 11.8
Master dies length (mm/inch)	126 / 4.96	126 / 4.96	150 / 5.91
Type of dies	237 L/239-xx	237 L/239-xx	554/239-xx
Speed (mm/sec) Close Crimp Open	 23 1.4 33	 29 1.9 44	 18 1.4 20
Noise level	62 dBA	62 dBA	62 dBA
Drive	4 kW 3 VAC	5.5 kW 3 VAC	5.5 kW 3 VAC
Oil	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	1,500 x 630 x 1,800
Weight	750 kg	750 kg	1,400 kg
CGS (Conicity Guard System)	✓	✓	–
HiDS (High Pressure Pump Dynamic Suction)	✓	✓	✓
Options			
Control IPC	✓	✓	✓

Type of dies

Ø mm	mm
6.8	65
9	65
10	65
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
106	126
111	126
116	126
121	126
126	126
131	126
135	126
137	126

Type of dies

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

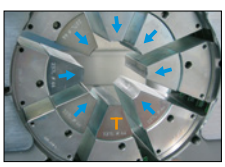
* According to the fitting.

** With master dies.

Control page 44 / Accessories and options page 56

Description

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.

ICC – Industrial (hose) Crimp Calculator (with C.2 and IPC controller)

Automatically calculate your crimp diameter directly from your hose and fitting measurement based on compression.

Includes the official agreed, tested and approved industrial hose crimp calculator/interface with fitting and ferrule data from Mario, PT, Campbell and Dixon.

Package HM 375 / HM 380:
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

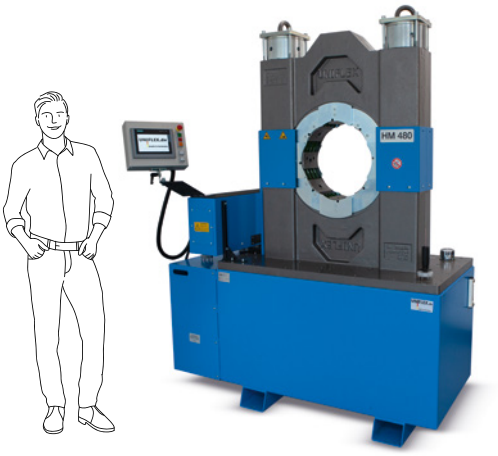
Package HM 400:
Machine
+ PB Ø 17, 20, 24, 28, 32, 40, 44, 50, 57, 71
+ 554.239L
+ QDC 239.5
+ QDS 239 B
+ Control C.2

HM 450 | HM 480 | HM 495

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

HM 450



HM 480 | HM 495

HM 450

HM 480 I HM 495

Technical data	HM 450	HM 480	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") **
90° Elbows	3"	3"	3"
Max. Crimp range (mm/inch)	310 / 12.20	310 / 12.20	310 / 12.20
Opening (mm/inch)	+130 / +5.12	+150 / +5.91	+150 / +5.91
Opening without dies (mm/inch)	360 / 14.17	380 / 14.96	380 / 14.96
Master dies length (mm/inch)	150 / 5.91	150 / 5.91	150 / 5.91
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 Crimp Open	 18 1.4 20	 18 1.3 20	 18 1 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)	1,590 x 730 x 1,972	1,590 x 730 x 2,015	1,590 x 730 x 2,076
Weight	1,900 kg	2,400 kg	2,600 kg
HiDS (High Pressure Pump Dynamic Suction)	✓	✓	✓
Options			
Control IPC	✓	✓	✓

Type of dies

239-xx-Ø-yy

Ø mm	mm
6.8	65
9	65
10	65
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

237 L/245

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
135	126
136	130
137	126
146	150
156	150
170	150
185	150
200	150
230*	230
265*	220
275*	220
305*	254

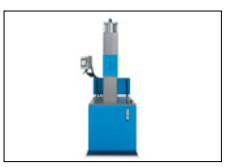
* Special dies (reduced opening).

** Pipe fittings without flange.

Control page 44 / Accessories and options page 56

Description

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.

ICC – Industrial (hose) Crimp Calculator (with C.2 and IPC controller)

Automatically calculate your crimp diameter directly from your hose and fitting measurement based on compression.

Includes the official agreed, tested and approved industrial hose crimp calculator/Interface with fitting and ferrule data from Mario, PT, Campbell and Dixon.

Package HM 4xx:
Machine
+ PB Ø 17, 20, 24, 28, 32, 40, 44, 50, 57, 71
+ 237.239.2L2 + 245.237L
+ QDC 239.5 + QDS 239 B
+ Control C.2

HM 660 | HM 665 | HM 1200

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).

HM 665

HM 660 I HM 1200

HM 665

HM 660 I HM 1200

HM 665

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** (mm/inch)	325 / 12.80	450 / 17.72	325 / 12.80
Opening (mm/inch)	+120 / +4.72	+180 / +7.09	+120 / +4.72
Opening without dies (mm/inch)	395 / 15.55	580 / 22.83	395 / 15.55
Master dies length (mm/inch)	200 / 7.88	250 / 9.84	200 / 7.88
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 Crimp Open	 15 2 15	 17 0.9 25	 11 1.5 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) I Machine L x W x H (mm) I Power Unit	1,400 x 1,050 x 2,470 700 x 1,160 x 1,360	1,800 x 970 x 2,400 integriert	1,400 x 1,130 x 2,660 1,100 x 1,300 x 1,500
Weight	4,200 kg + 450 kg	5,200 kg	4,480 kg + 450 kg
HiDS (High Pressure Pump Dynamic Suction)	✓	✓	✓
Options			
Control IPC	✓	✓	✓

* Layflat hoses with special dies.

** According to the fitting.

Control page 44 / Accessories and options page 56

Type of dies

239-xx-Ø-yy

Ø mm	mm
6.8	65
9	65
10	65
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

237 L
246

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	126
116	126
121	126
126	126
131	126
135	126
136	150
137	126
146	150
156	150
170	170
185	200
200	200
215	200
230	200
245	200
260	200

Type of dies

298

Ø mm	mm
200	250
220	250
240	250
260	250
280	250
300	250
320	250
340	250
360	250
380	250

Type of dies

246

Ø mm	mm
121	150
136	130
146	150
156	150
170	170
185	200
200	200
215	200
230	200
245	200

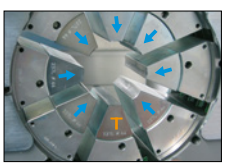
Type of dies

245

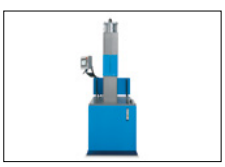
Ø mm	mm
103	130
106	130
111	130
116	130
121	130
126	130
131	130
136	130
146	150
156	150
170	150
185	150
200	150

Description

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.



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

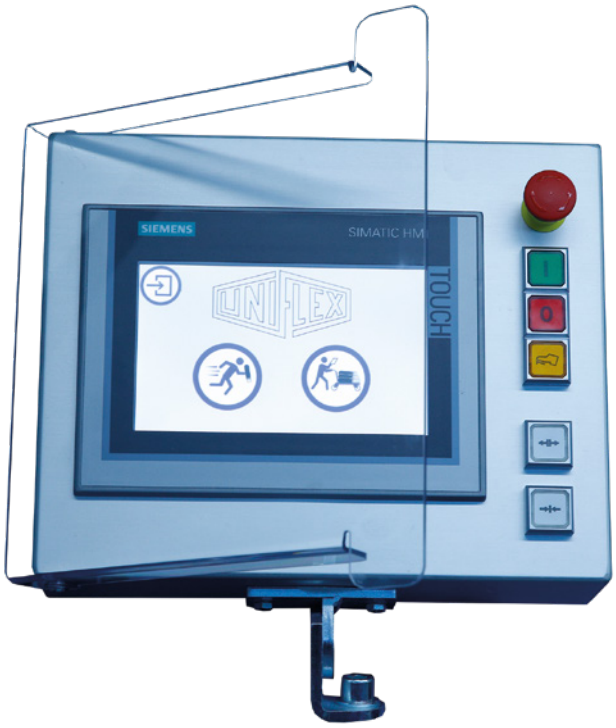
ICC – Industrial (hose) Crimp Calculator (with C.2 and IPC controller)

Automatically calculate your crimp diameter directly from your hose and fitting measurement based on compression.

Includes the official agreed, tested and approved industrial hose crimp calculator/Interface with fitting and ferrule data from Mario, PT, Campbell and Dixon.

Control C.2 / IPC

The CONTROL C.2 and new controller IPC 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.



Control C.2 with screen protection option 807.2
HMI mit 7" Widescreen-Touch-Panel

interfaces:

Ethernet RJ45
USB
Serieller Port (COM)
Profinet
ProfiBus

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

NEW

IPC

Industrial PC with 12" touch panel
integrated RFID reader

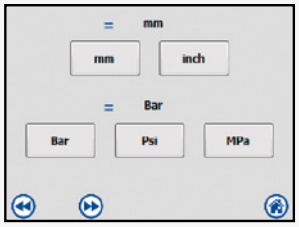
interfaces:
Ethernet RJ45
USB 3.1
serial port (COM)
Profinet
ProfiBus
CAN bus

Start the machine and its control:

START Language

Language selection, other languages available upon request.

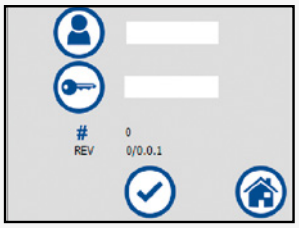
Units



Configuration units.

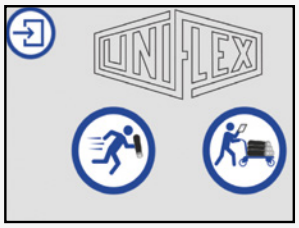
Different users are possible:

LOGIN User Login



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

MENU Login by menu

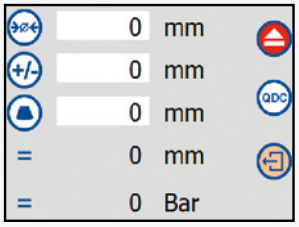


Quick menu and production menu.

After Login, you have the choice:

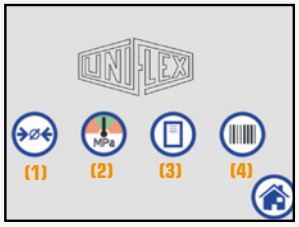
Quick Menu or Production Menu.

QUICK MENU



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

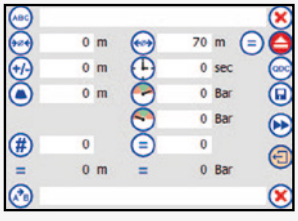
PRODUCTION MENU



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.

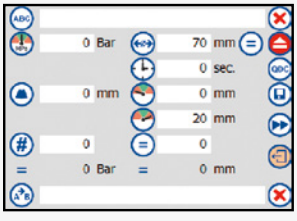
PRODUCTION MENU

(1) Crimping by dimension (parameter)



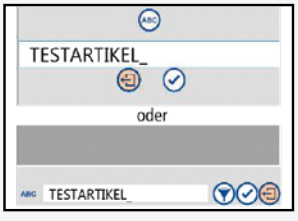
Easily input crimping dimensions, correction value, hold time, aperture diameter, pre-selection of counter and crimping dies (automatic).

(2) By pressure (parameter)



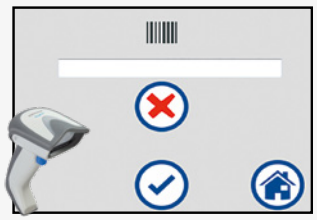
Easily input pressure, hold time, aperture diameter, pre-selection counter and crimping dies.

(3) Via the integrated database



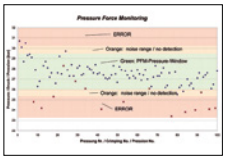
Search for and create articles numerically or alpha-numerically. Articles can be easily selected using the "Quick Search Menu".

(4) Barcode scanner



Scan article data via barcode. (accessories)

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

UDL (UNIFLEX) data logging

ICC – Industrial (hose) Crimp Calculator (with C.2 and IPC controller)

Automatically calculate your crimp diameter directly from your hose and fitting measurement based on compression.

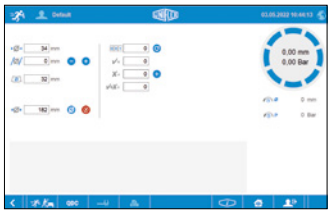
Includes the official agreed, tested and approved industrial hose crimp calculator/Interface with fitting and ferrule data from Mario, PT, Campbell and Dixon.

CONTROL IPC

START MENU

INFO - CONVERSIONS, 2 COUNTERS - SERVICE, CONTACT

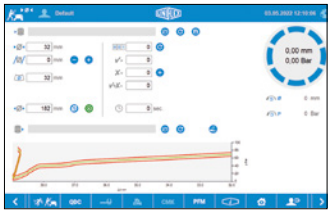
WORKSHOP MODE - QUICK START



QDC - CALL PRESS JAW CHANGE POSITION AND SUGGESTED PRESS DIES SET

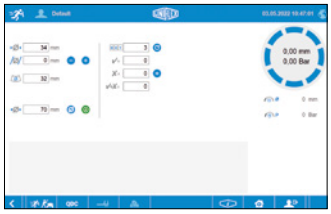
Input of crimping diameter, correction values and die set (automatic).

CRIMPING BY DIMENSION MODE



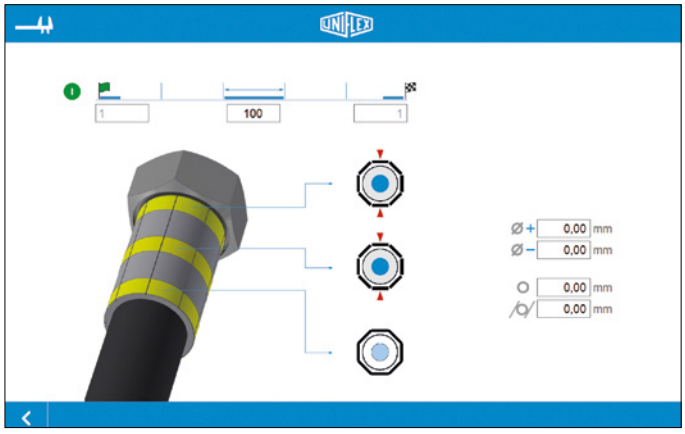
Input of pressing dimension, correction values,
dwell time, opening diameter, preset number and dies set (automatic).

CRIMPING BY PRESSURE MODE



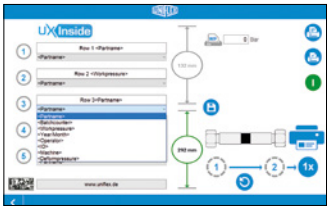
Input of pressure, holding time, opening diameter, preset number and dies set.

CALIPER



With the caliper, the forming results can be checked, including a freely selectable tolerance range. To do this, measure the workpiece at the point indicated by the red triangle.

LABEL



With the label printer and the UNIFLEX Label System ULS, a label can be printed automatic for each workpiece.

MULTISTEP

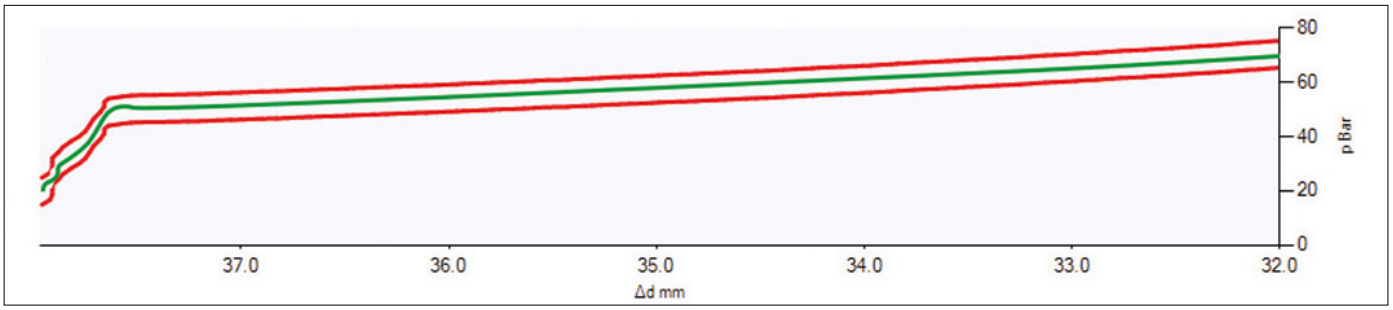
With interval forming, it is possible to perform a forming operation in several stages.

CMK

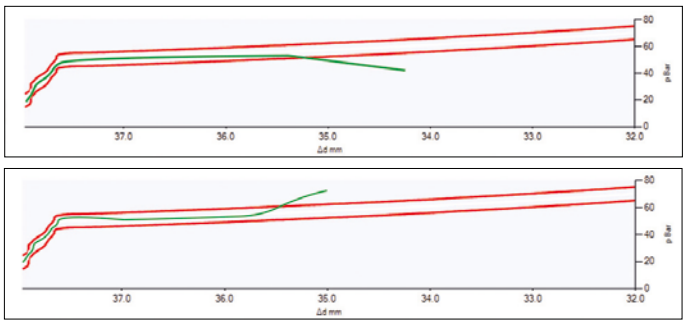
The machine capability index (CMK) describes the ability of the machine to meet the specified requirements.
With the CMK function in the control, it is possible to set the characteristic values of the machine capability.

PFM

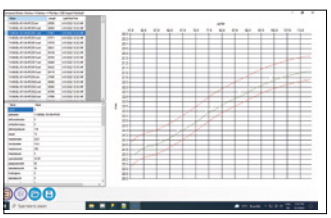
The PFM function enables forming to a defined pressure/diameter with monitoring of the minimum and maximum pressure/diameter. Enter the forming diameter.
The forming diameter is the diameter to which the tool moves.
The workpiece is permanently monitored during pressing every millisecond.

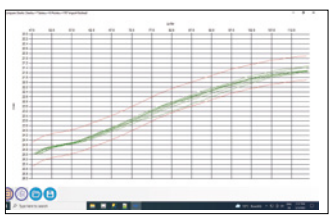


Every millisecond the monitoring system compares the crimping pressure and if there is an anomaly, it stops the crimping instantly. The functionality allows to detect repeated crimping, non adapted dies sets, non conforming crimping parts (non conforming ferrules, inserts, hoses), non conforming skiving and also non conforming insertion of the parts.
All these data are recorded and can be reviewed at any time.



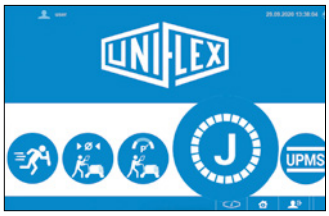
COMPARE CHARTS





In addition, diagrams of the data sets can be called up here directly from the pressed workpieces.

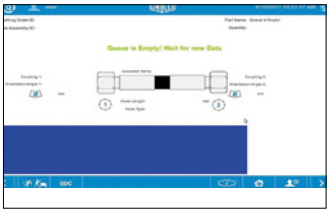
JOB-MODE



With the job mode, it is possible to bring several transformations from different data sets, which are deposited in the database, into one work order.

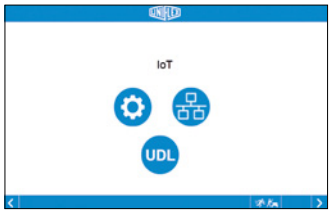
QUEUE MODE

QUEUE SETTING



The queue mode executes individual press data records stored in a database one after the other during production managed from the server.

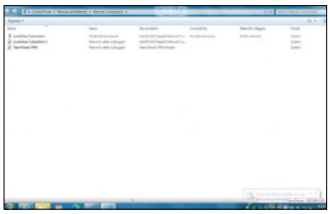
IoT - INTERNET OF THINGS



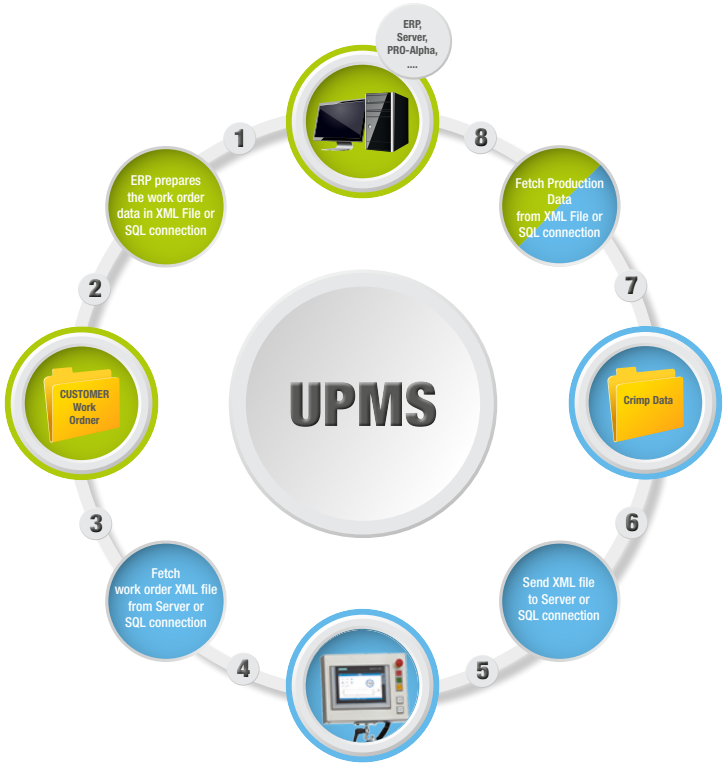
IoT menu

File path setting
(Part table, Job folder, Queue folder)

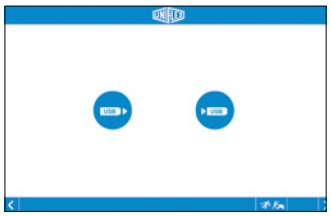
In the log file overview, stored press parameters are displayed.



Network settings

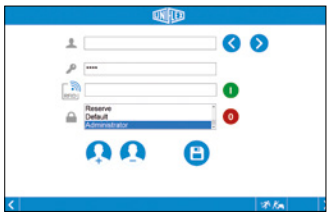


USB



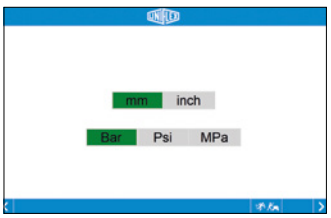
Loading the data from the USB

RFID



The RFID reader enables automatic logon to the machine with an RFID chip.

UNIT OF MEASUREMENT SETTING



The currently set unit of measurement is displayed in green.
Tapping a key sets the corresponding unit of measurement.

LANGUAGE SETTING

UNIFLEX Wireless Management System (UWMS)

NEW APP

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.

UX crimp

Advantages:

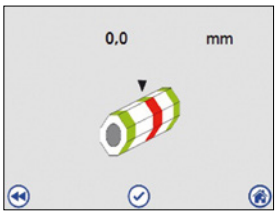
- Keep customers up to date with the latest crimping specifications.
- Obtain valuable information about your crimper (No. of crimping operations, crimping specifications, crimping data)
- Use serial numbers to build traceability and reorder systems.
- Evaluate your market (what you sell, where you sell)

Accessories for Control C.2 / IPC

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

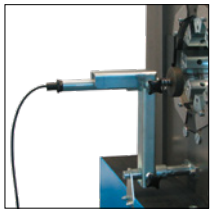
Calibrating your machine is simple using digital measurement via the software and the calibration mandrel.

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



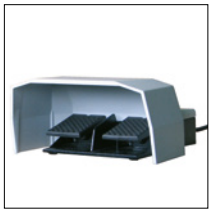
Measuring point menu with foot mouse/Vernier caliper (3 or 4"): Quality testing using calipers and foot mouse (as OK button). With the digital calipers, you can also check the crimping dimensions for conicity and ovality (number of measurement points). The pictogram-driven menu control guides you through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

Order number:
TA(A)



Depth stop

PS.2 Double



Double foot pedal

807.2

Screen protection

Order number:
BCR Ctrl C.2

Barcode scanner

800.610

Foot mouse for controller interaction

RFID
CTRCC

807.112

Extension cable Unimatic
B, E, C.2, length 1700 mm

Order number: 807.602

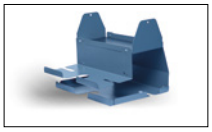
Touch panel with 1800 mm supply cable.

(Controller can be placed on the left side)

IPC

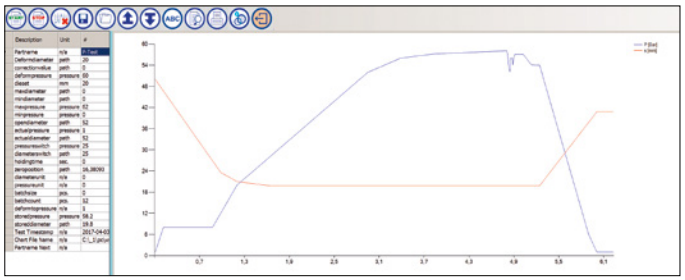
Display protection foil 807.867

Storage tray kit 807.872



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)

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.

ULS.2-C

ULS
(UNIFLEX Label-System)

ULS.2-APP for Tablet or PC

Tablet/iPhone Not provided.

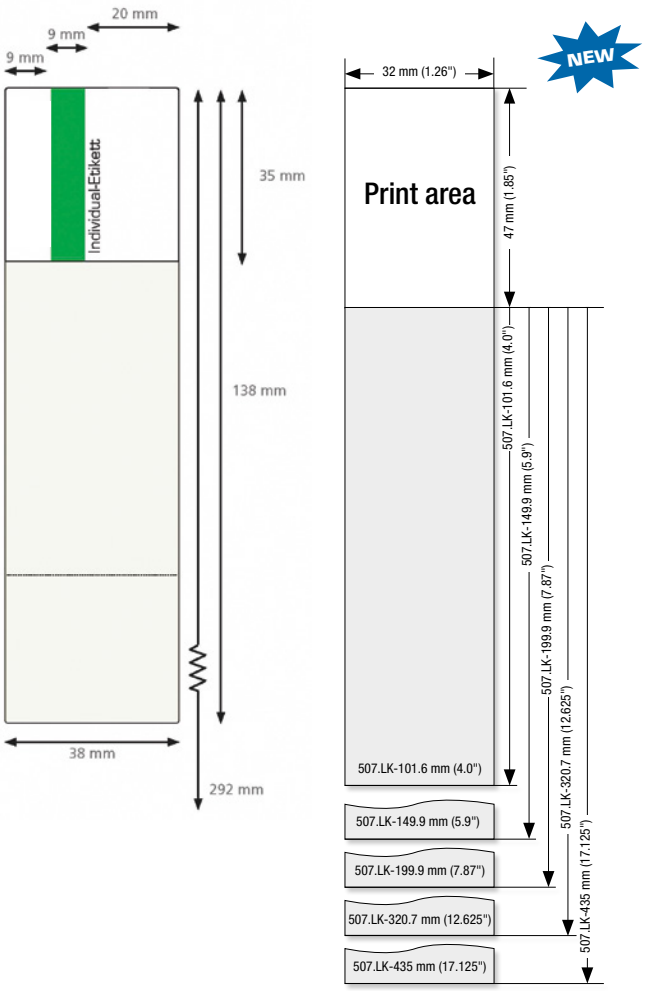
Advantages of Hose assembly Management

Benefits of labels and what they can tell the user:

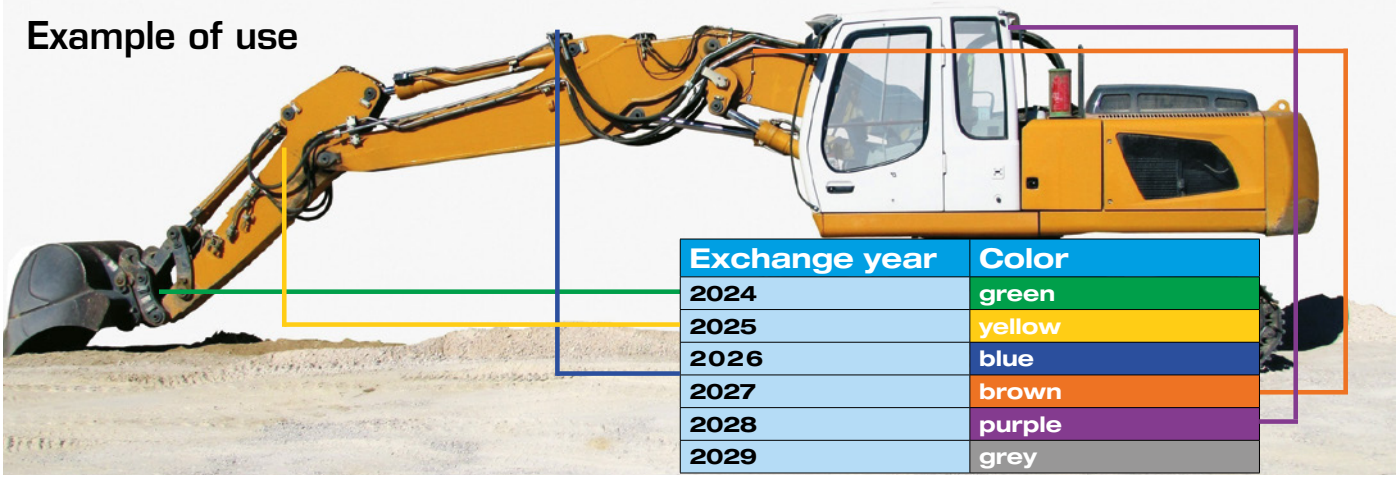
- Which components need to be replaced and when
- The date of the exchange
- The potential hazards of the machine
- The plan for preventive maintenance
- Minimizes cost of maintenance
- Avoids equipment failures and long downtimes
- Publicity for your company

UNIFLEX Labeling System – ULS Ecoline

Part numbers ULS ECOLINE					
Pos.	Article	Inhalt		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	- Transparent preprinted oil- and acid-resistant banderole - High-performance vinyl - Strongly adhesive, permanent - Specifically designed for the surface of rubber and thermoplastic hose
		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	



Example of use



Exchange year	Color
2024	green
2025	yellow
2026	blue
2027	brown
2028	purple
2029	grey

IoT
Internet of Things

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 hose sizes installed for customers, while

CRIMP INFORMATION FOR THE MACHINE

```
<part>
<machinetype>hm325</machinetype>
<partname>part1</partname>
<deformdiameter>32</deformdiameter>
<correctionvalue>0.1</correctionvalue>
<deformpressure>90</deformpressure>
<dieset>32</dieset>
<maxdiameter>32.05</maxdiameter>
<mindiameter>31.95</mindiameter>
<maxpressure>92</maxpressure>
<minpressure>88</minpressure>
<opendiameter>100</opendiameter>
<pressureswitch>50</pressureswitch>
<diameterswitch>38</diameterswitch>
<holdingtime>0.2</holdingtime>
<diameterunit>0</diameterunit>
<pressureunit>0</pressureunit>
<deformtopressure>0</deformtopressure>
<calipertolerance>0.25</calipertolerance>
<caliperaverage>0</caliperaverage>
</part>
```

You receive orders from your customers, which are maintained in your ERP. For example hose type, quantity, etc.

SAP, PRO-Alpha, ...

1 ERP prepares the work order data in an XML file or SQL connection

2 Shared folder with XML files; Customers must move files from and to the shared folder.

You save the job in an XML file containing all jobs. (XML = Extensible Markup Language)

CUSTOMER Work order

UPMS

3 Fetch Work order XML file from Server or SQL connection

4 On command, the Control C.2 IPC obtains an order from the XML file. (Must be programmed) – By customer, – By Hose type, – First in first out, etc.

5

8

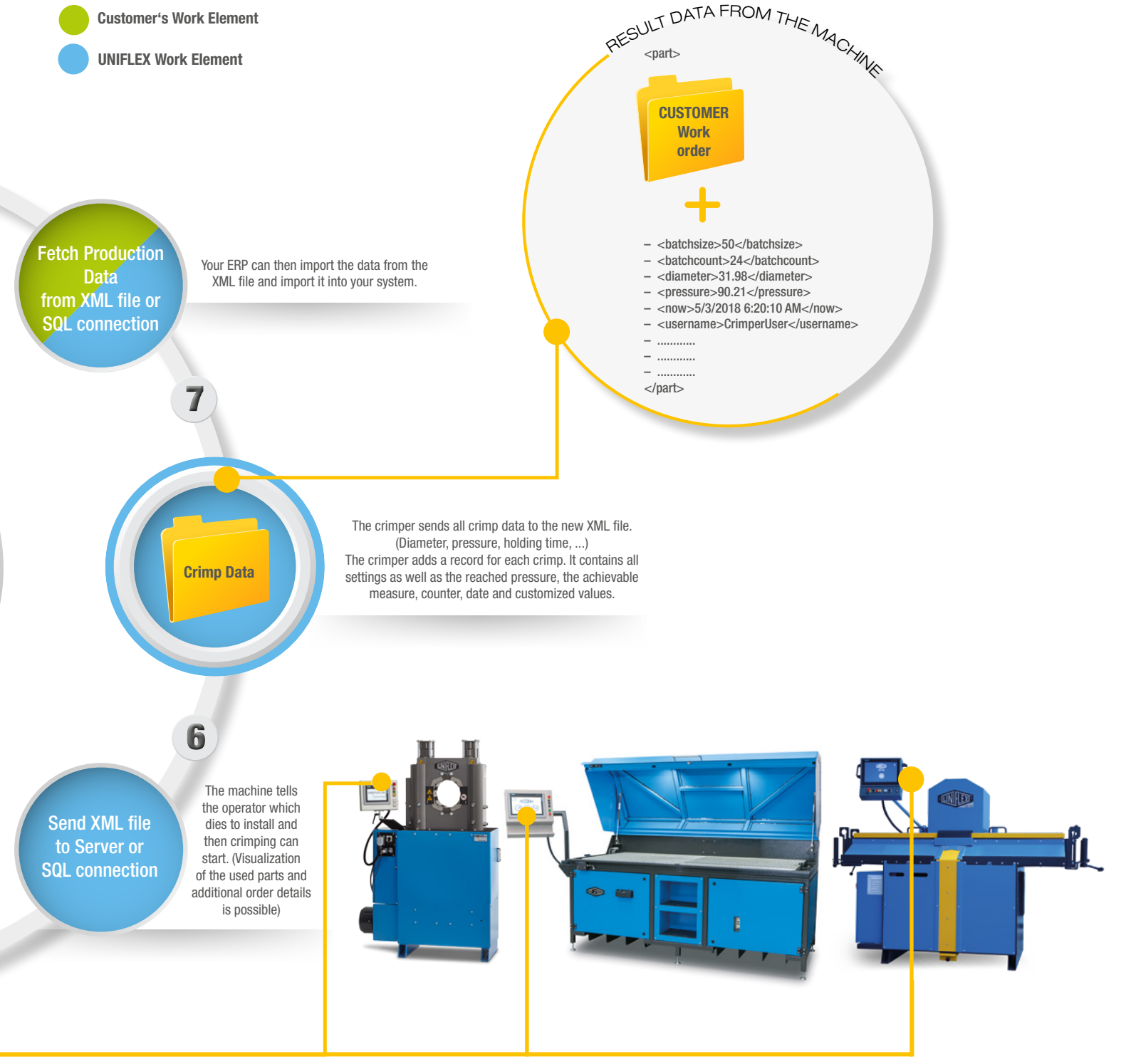
Customer advantages:

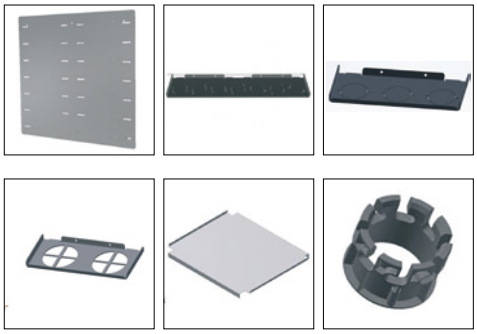
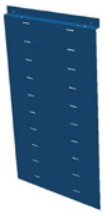
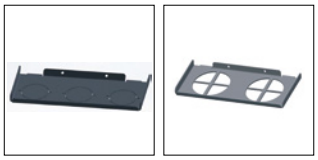
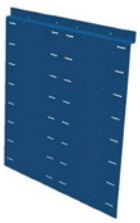
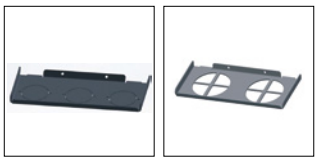
- Targeted production control and optimization of production processes
- Reduced throughput times
- Error minimization by omission of manual inputs
- Traceability of production data
- Statistical evaluation of production data

IPC:
SIMATIC IPC277E (Nanopanel PC)
12" Touch TFT
2x 10/100/1000 MBit/s Ethernet RJ45;
1x Display-Port Grafik;
1x USB 3.0; 3x USB 2.0;
1x seriell (COM 1);
CFAST-Slot;
Celeron N2807 (2C/2T)
4 GB RAM
Windows 10

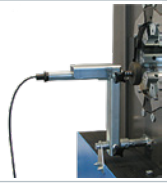
at the same time you can decide to crimp according to individual orders and test the kitting order with the test bench.

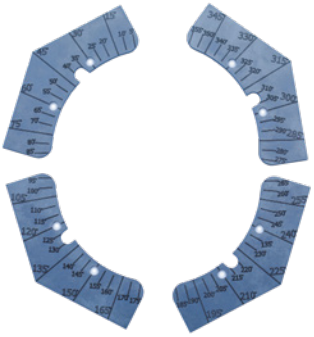
The System returns all the relevant quality information you need to make sure your product is made to specifications. Stored data can be used not only for traceability but also for analyzing your productivity. This will optimize your production processes, reduce your administrative tasks and improve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



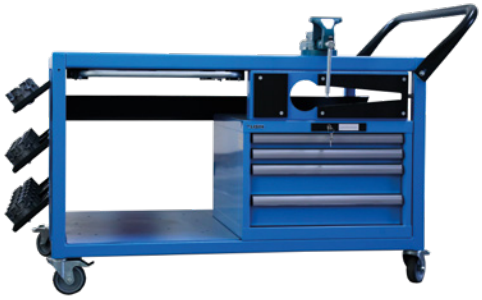
Item number + Description		Usage: Machine/Accessories	Option
TU Work Bench capable of supporting up to 800 kg		suitable for: universal	
TU–QDS F Basic Basic with screws		suitable for: Universal work bench TU	
TU-QDS FXL Shelf Variable with screws		suitable for: TU-QDS F Basic	
TU-QDS F Shelf Variable with screws		suitable for: TU–QDS F Basic QDS-S.2 single row QDS-S-2 double row	
TU-QDS F 239I 3 pieces in set		suitable for: TU-QDS FXL Shelf TU-QDS F Shelf	
TU-QDS F Shelf PB280 for PB 280		suitable for: TU–QDS F Basic QDS-S.2 single row QDS-S-2 double row	
QDS-S.2 single row Basic Support		suitable for: HM 220.3 HM 225.3 HM 222	
QDS-S-2 double row Basic Support		suitable for: 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		passend zu: 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	

Item number + Description		Usage: Machine/Accessories
QDS 239 S Basic Support with TU-QDS 239i		suitable for: Machine SC 6, SH 10, SC 12, HM 2xx und HM 3 XX
QDS 280 B RAL 7021 For 9 Set PB 280		suitable for: PB 280
QDS 239 B RAL 7021 For 9 Set PB 239		suitable for: Type of dies PB 239
QDS 239 R For 9 set PB 239		suitable for: Type of dies PB 239
QDS 239 C/T Wheeled support for 24 set PB 239		suitable for: PB 239
Oil-cooler Reduce heat, increase permanent tolerances.		suitable for: Production crimpers
QDS-HD For large industrial dies.		suitable for: PB 245 PB 554 PB 237
Machine trolley Wheeled support 777.1 L x W x H (mm): 1720 x 660 x 200 Weight: 75 kg Load Weight: 800 Kg		suitable for: HM 3xx, HM 220/225, HM 245, S6/S8/10 EM 115

Item number + Description		Usage: Machine/Accessories
OCS 10 retro Camera system – the alternative to the mirror, for a better sight line adjustment.		suitable for: HM 2XX, HM 3XX, 4XX und 6XX, HM 1200
TU-Rack 18-PB239 Workbench for miscellaneous machines includes die storage.		suitable for: Service Crimpers Type of dies PB 239
Mirror/SHS Allows the operator to watch the correct position of the part to be crimped behind the machine.		suitable for: all crimpers SC, SH, HM 2XX, HM 3XX
LUF Light for the rear side of the machine.		suitable for: all machines
TA To position the fitting inside the head and/or to activate the crimp cycle automatically.		suitable for: all machines, except S2 and S7
QDC 239.5 Dies quick change-tool for easy jaw change PB 239.		suitable for: all machines with type of dies PB 239
265.2 Turntable		suitable for: SH 7
PS Double foot pedal		suitable for: SC 6, SC 6 S, SC 6 Ecoline, SH 10, SH 10 xl, SC 12 i (not for Ecoline-Models)
Cable DC GK 205 Length 5 m		suitable for: HM 200, SC 3, SH 6, SH 6 S (only for DC versions)
PUM 0.8/3.2-700 BAR		suitable for: SH 2

Item number + Description		Usage: Machine/Accessories
PTS SYSTEM Marking and crimping in one step according to DIN 20066, EN 853, EN 854, EN 856, EN 857. PTS 52: character 4,0 x 2,0 mm/ marking depth ca. 0,3 - 0,5 mm PTS 32: character 3,0 x 1,5 mm/ marking depth ca. 0,3 mm	 	**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 P 554-xxx- Ø 57 – 103 = 24 each Ø 106 – 121 = 12 each	**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
Angle scale 238.11 (HM 3xx) double side 239.18 and 255.12 239.21 (HM 220/HM 222) 2 side 255.14 (HM 225) 2 side			suitable for: HM 220, 222, HM 225 HM 3xx

UMAT | Mobile Working Station



Layout example

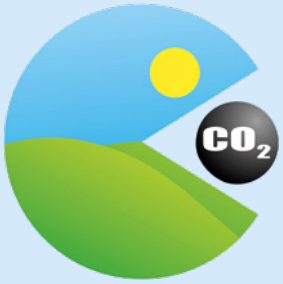
L x W x H (mm): 800 x 1200 x 755
Weight 160 kg
Drawers L x W x H (mm):
2 = 564 x 572 x 50
2 = 564 x 572 x 100
Load Weight Drawers: 75 kg

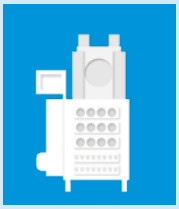
Accessories
TU-QDS F SHELF
TU-QDS F 239I
TU-QDS SHELF PB280

How can you save more than 70 % of CO_2?

By reducing the weight and increasing the life cycle.

Good engineering and a low energy consumption of 4 kW (competitors: > 5.5 kW) and a long-life design are the OPTIMUM for our future!





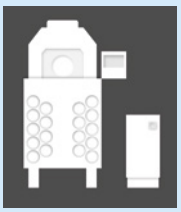
0.75 t once in 30 years x 1.7 = 1.275 t of CO_2 *

UNIFLEX
approx. 0,75 t

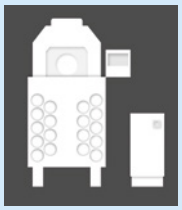
CO_2
1.27 t

0 years | 15 years | 30 years

1,2 t twice in 30 years = 2.4 x 1.7 = 4.08 t of CO_2



Competitors
approx. >1.2 t



Competitors
approx. >1.2 t

CO_2
4.08 t

0 years | 15 years | 30 years