



# Production Crimper

Innovative, productive and durable

The best return on investment



Many investment goods have a strong emphasis on “investment” – the emphasis of UNIFLEX production crimpers is on “superior quality”.

Owing to their unique construction, their high user friendliness, versatility and lifetime, UNIFLEX crimpers are a global bench-mark for quality and economic efficiency. Due to revolutionary slide bearing technology, there are rarely friction losses; the presses operate quicker, with a maximum efficiency, cleaner and almost maintenance-free. Other advantages are the characteristic, fixed 6-o’clock die for safe and power-saving positioning of the fittings, and the flat tools that can rapidly be exchanged. From the very beginning, great importance was placed on largest possible tool openings and forming distances.

Savings due to short set-up times and energy-saving drive systems have especially positive effects in large series production.

All UNIFLEX production crimpers are fitted with the latest UNIMATIControl C.2 Touch including article storage for user-friendly, easy and safe handling and control. Numerous functions already available in the basic version may be upgraded by PFM (pressure monitoring, traceability) or UTS (process documentation).

## UNIFLEX History

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

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

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

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





Ø mm	239	239-xx-Ø-yy
6,8		50
9	50	50
10	50	50
12	50	50
14	60	50
16	60	65
17	60	65
19	60	65
20	60	65
22	60	65
24	60	65
26	75	65
28	75	80
32	75	80
36	75	80
40	75	80
44	75	80
47	75	100
50	75	100
54	75	100
57	75	100
62	75	100

Ø mm	237 L	245	246	247
54 + 57	118			
62 + 67	118			
71 + 74	118			
78 + 84	118			
86 + 90	118			
96	118			130
103	118	130		
106	126	130		130
111 + 116	126	130		
121	126	130		
126	126	130		130
131	126	130		130
136		130	130	130
146		150	150	150
156		150	150	150
170		150	170	170
185		150	200	200
200		150	200	200
215 + 230			200	200
245 + 260			200	200
275 + 290				200
305				200

# Production Crimpers

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# Production Crimpers

## Quality Made in Germany

For UNIFLEX Hydraulik GmbH, it is very important to assure a steady, high-quality system. Especially when crimpers that generate enormous production force of 90 – 2000 tons in one tool.

Quality and construction of a machine influence its durability and therefore the customer's satisfaction.

All UNIFLEX machines are being produced and proofed after strict standards. That is because all components must be produced with strict tolerances so the end product will match all customers' standards.

UNIFLEX has been developing hydraulic machines based on own experience and the experience of its customers for over 40 years. During this time, efficiency and the customer's return on investment have been UNIFLEX's main goals.

There are not only individually produced machines, but also matching software programs and adjustable accessories that are being chosen with care from UNIFLEX employees from all over the world.



This strict tolerance allows UNIFLEX machines to produce a high crimping force and accuracy.

This picture for example shows how easy it is to crimp all kinds of pieces, even elbow pieces, here on an HM 325. The long master dies make this possibility.



UNIFLEX has set itself high goals to satisfy customers for decades to come.

Gone are problems with difficult forms of pieces. Where other companies fail, UNIFLEX has the solution.

Only through continuous research and development can we remain the best. Customer expectations do not only need to be fulfilled but surpassed, globally.





# Production Crimper Overview



Technical data	HM 3 H	HM 220	HM 225	HM 325	HM 375
Crimp force (kN/ton)	700 / 70	1350 / 135	1600 / 160	2800 / 280	3150 / 315
4 SH	3/4"	1"	1 1/4"	2"	2 1/2"
Industry	2"	2"	2"	4"	4"
Speed (mm/sec)					
Close	8,3	10,5	18,5	23	23
Crimp	8,3	5	1,5	1,4	1,4
Open	13,8	10,5	18,5	33	33
Max. crimp range (mm)	70 / Ø PB +12	70 / Ø PB +8	70 / Ø PB +8	165 / Ø PB +20	165 / Ø PB +20

## First Class Advantages

Greaseless					
Universal					
Fixed 6-o'clock die					
Silent					
Ergonomic					

The First Class Advantages will be explained in the Image Catalogue.





**HM 450**



Available May 2015

**HM 480**



































**HM 485**



**HM 660  
HM 665  
HM 1200**



HM 380	HM 450	HM 480	HM 485	HM 660	HM 665	HM 1200
3400 / 340	4000 / 400	4500 / 450	4500 / 450	8000 / 800	4500 / 450	1200 / 120
3"	3"	3"	3"	3"	3"	3"
4"	8"	8"	10"	10"	12"	10"
23 1,3 23	21 1,6 37	20 1,5 23	20 1,5 23	15 2 15	15 2 15	11 1,5 11
240 / Ø PB +20	310 / ØPB +20	310 / Ø PB +80	250 / Ø PB +20	325 / Ø PB +50	280 / Ø PB +50	325 / Ø PB +50
						
						
						
						
						



# Production Crimper

## HM 3 H



Due to its narrow and innovative construction, high level of user friendliness, and long service life, the HM3H 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 HM3H and ensures product quality.



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

### 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





90° elbow with long ending is no problem for the UNIFLEX HM3H. While our competition still searches, we have the solution.



With our Two-Whole-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. The HM3H is compact and easily accessible.



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

Technical data	HM 3 H
Crimp force (ton)	75
No grease: 20% less friction	
Control	Control C.2 Touch
SAE R 12 / 4SP 2 pieces	1"
4 SH 2 pieces	3/4"
SAE R 15 2 pieces	3/4"
Industry	2"
90° Elbows	1 1/2"
Max. crimp range	70 mm
Opening	+ 35 mm
Opening without dies	105 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
Oil	50 l
L x W x H (mm)	790 x 600 x 672
Weight (no oil)	195 kg

## Accessory examples

## Standard

Control C.2 Touch

## Package

Machine

+ PB Ø 17, 20, 24, 28, 32, 40, 44, 50

+ QDC 239.5

+ QDS 239 B

+ Control C.2



Scanner

More Accessories can be found on pages 15f, as well as on the inside of this catalogue's jacket.



# Production Crimper

## HM 220, HM 225



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 for rated widths up to 1¼"



HM 220 with TU Rack and dies



7

HM 225

### Engineered solutions using quality components

Smaller machine increases ergonomics

HiLow cylinder - Maximum efficiency causing less heat

### 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

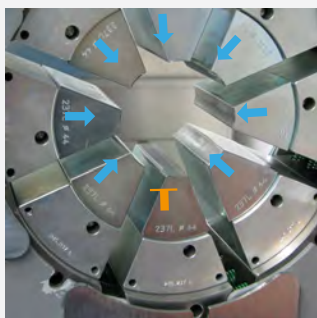
20% more capability for crimping stronger or more difficult couplings versus our competition's equivalent crimpers

Consistently accurate crimp result

### CE compliant



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 work-piece possible, which improves cost effectiveness as well as safety.



The clear Control C.2 and the optional UTS software provide complete documentation of production data including the timestamp. More information on pages 15 following.

### Accessory examples



PTS System as accessory



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

Technical data	HM 220	HM 225
Crimp force (ton)	135	160
No grease: 20 % less friction		
Control	Control C.2 Touch	
SAE R 15 / 4SH 1 pieces	1 1/4"	1 1/4"
4SH 2 Teil pieces	1"	1 1/4"
SAE R 15 2 pieces	1"	1 1/4"
Industry	2"	2"
90° Elbow	1 1/2"	1 1/2"
Max. crimp range (mm)	70	
Opening (mm)	+ 35	+ 40
Opening without dies	105 mm	110 mm
Type of dies	239	239xx-00-yy
Speed (mm/sec)		
Close	10,5	18,5
Crimp	5	1,5
Open	10,5	18,5
Noise level (dBA)	53	53
Drive (kW)	5,5	5,5
Oil (l)	50	80
L x W x H (mm)	650 x 800 x 1500	
Weight	285	370
<b>Standard</b>		
Control C.2 Touch		
<b>Options</b>		
PFC (Pressure Force Controlling)		
<b>Package</b>		
Machine		
+ PB Ø 17, 20, 24, 28, 32, 40, 44, 47, 50, 62		
+ QDS 239 B + QDC 239.5		
+Control C.2		

More Accessories can be found on pages 15f, as well as on the inside of this catalogue's jacket.



# Production Crimper

## HM 325, HM 375, HM 380



As reliable classic machines, the HM3xx 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 HM3xx set a new standard for quality and cost effectiveness.



### Engineered solutions using quality components

Smaller machine increases ergonomics

HiLow 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

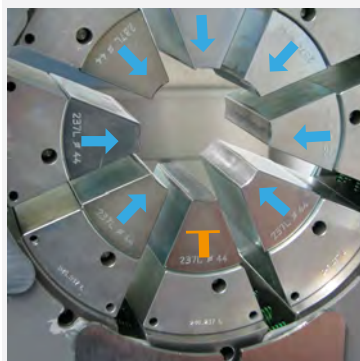
Consistently accurate crimp result

### CE compliant

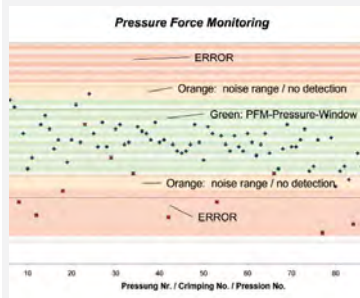




Due to our long master dies, you can crimp virtually all types of fittings.



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



Pressure Force Monitoring System as an option available.

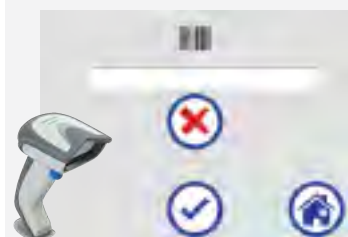


TA (A) is a standard

## Accessory examples



PTS System as an accessory



With the Barcode Scanner you can scan articles quickly and effi-

Technical data	HM 325	HM 375	HM 380
Crimp force (ton)	280	315	340
No grease: 20% less friction			
Control	B+	C.2 Touch	
SAE R15 4SH 1 piece	2"	3"	3"
SAE R15 4SH 2 pieces	2"	2 ½"	3"
Industry	5" (6" no Flanch)		
90 ° elbow	3"	3"	3"
Max. crimp range (mm) with dies	165		
Opening (mm)	+ 70		
Opening without dies	215 mm		
Die type	239 xx-Ø-yy, 237		
Speed (mm/sec)	23	23	23
Close / crimp	1,4	1,4	1,3
Open	33	33	33
Drive	4 kW		
Oil	100 l		
L x W x H (mm)	1200 x 600 x 1700		
Weight (kg)	750		
CGS (Conicity Guard System)			
HIDS (High Pressure Pump Dynamic System)			
Standard			
Control C.2 + TA(A) - (for HM325 Control B+ Touch)			
Options			
PFC (Pressure Force Control)			
FD Flow Divider			
Control C.2 for HM 325			
Speed (mm/sec)	29 / 2,0 / 44		23 / 1,9 / 44
Close / Crimp / Open			
Package			
Machine + PB Ø 17, 20, 24, 28, 32, 40, 44, 50, 57, 71			
+ 237.239.2L2 + QDC 239.5 + QDS 239 B			
+ TA (A) + Control C.2 (+ Control B+ for HM 325)			

More Accessories can be found on pages 15f, as well as on the inside of this catalogue's jacket.



# Production Crimper

## HM 450, HM 480, HM 485



Due to their compact, all-round accessible construction, high level of user friendliness, and long service life, the HM450, HM 480 and HM 485 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.



### Engineered solutions using quality components

HiLow cylinder - Maximum efficiency causing less heat

Compact machine for ergonomic work

Long master dies to crimp all types of pieces

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





HM 485 without dies, wide open, with a flange up to Ø 360 mm.



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

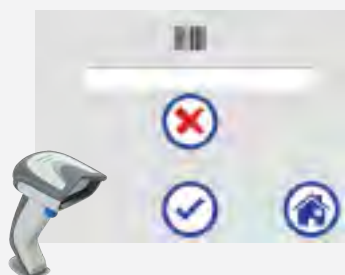


The machines are very compact and small from the side for a better work environment.

#### Accessory examples



PTS System as an accessory



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

Technical data	HM 450	HM 480	HM 485
Crimp force (ton)	400	450	450
No grease: 20% less friction			
Control	Control C.2 Touch		
SAE R15 4SH 1 piece	3"		
SAE R15 4SH 2 pieces	3"		
Industry	6"	8" / 12"	10"
Max. crimp range (mm) with dies	310	310	250
Opening (mm)	+ 130	+ 150	310
Opening without dies	360 mm	380 mm	360 mm
Die type	239, 237, 239 xx-Ø-yy		
Speed (mm/sec)			
Close	21	20	20
Crimp	1,6	1,5	1,5
Open	37	23	23
Drive	5,5 kW		
Oil	370 l	300 l	500 l
L x W x H (mm)	730 x 1590 x 1950	730 x 1590 x 2015	730 x 1590 x 2480
Weight (kg)	2600		2900
HiDS (High Pressure Pump Dynamic Suction)			
Standard			
Control C.2			
Options			
PFC (Pressure Force Controlling)			
FD Flow Divider			
Package			
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			

More Accessories can be found on pages 15f, as well as on the inside of this catalogue's jacket.



# Production Crimper

## 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 one 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 (depending on the fitting).



HM 660

### Engineered solutions using quality components

Smaller machine increases ergonomics

HiLow 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

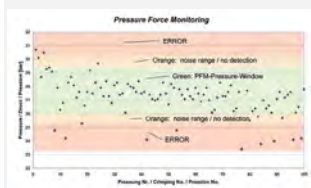
### CE compliant



Due to our 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.



Pressure Force Monitoring System as an accessory



TA(A) as a standard

## Accessory examples



PTS System as an accessory



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

Technical data	HM 660	HM 665	HM 1200
Crimp force (ton)	800	450	1200
No grease: 20% less friction			
Control	Control C.2 Touch		
SAE R15 4SH 1 piece	3"	3"	3"
SAE R15 4SH 2 pieces	3"	3"	3 "
Industry	10"	12"	10"
90 ° elbow	3"	3"	3"
Max. crimp range (mm) without dies	325	380	325
Opening (mm)	+120	+120	+120
Opening without dies	395 mm	450 mm	395 mm
Speed (mm/sec)	15 / 2	15 / 2	11 / 1,5
Close / crimp	15	15	11
Open			
Drive	18,5 kW	18,5 kW	18,5 kW
Oil	300 l	300 l	300 l
L x W x H (mm) Machine + aggregate	1400 x 1050 x 2470 700 x 1160 x 1360		1400 x 1130 x 2660 1100 x 1300 x 1500
Weight (kg)	4200 + 450		4480 + 450
HiDS ( High Pressure Pump Dynamic Suction)			
Standard			
Control C.2 Oilcooler			
Options			
PFC (Pressure Force Controlling) FD Flow Divider			



The HM 660 aggregate cools the oil to its correct temperature. Then the machine can crimp precisely each time.



# The new machine control C.2

## Control C.2



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





# Control C.2

Start the machine  
and its control:

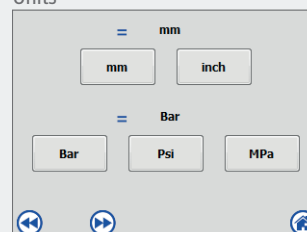
## START

Language



Language selection, other languages available upon request.

Units

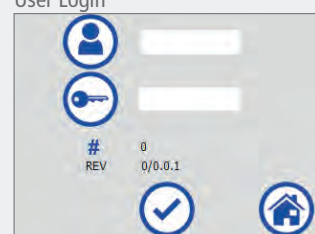


Configuration units.

Different users are possible:

## LOGIN

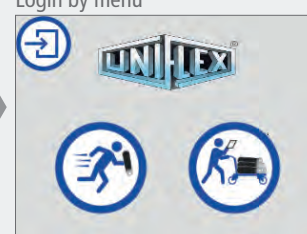
User Login



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

## MENU

Login by menu



Quick menu and production menu.

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

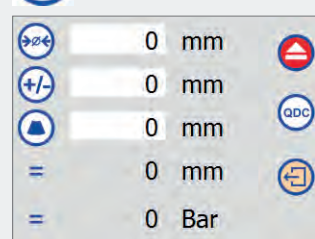


## Quick Menu

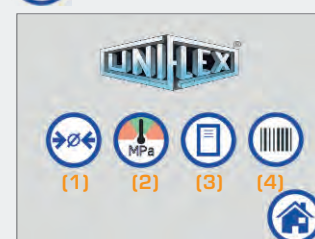
OR



## Production Menu



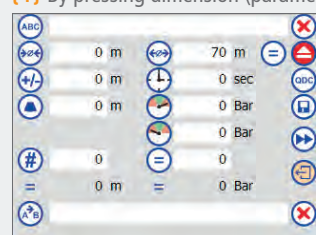
Input of the crimping dimension diameter, correction value and crimping dies (automatic).



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.

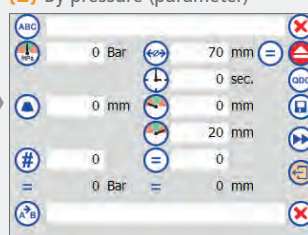
## Production Menu

(1) By pressing dimension (parameter)



Input of pressing dimension, correction value, hold time, aperture diameter, pre-selection of counter and crimping dies (automatic).

(2) By pressure (parameter)



Input of pressure, hold time, aperture diameter, pre-selection counter and crimping dies.

(3) Via the integrated database



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

(4) Barcode scanner



Scanner article data via barcode. (accessories)

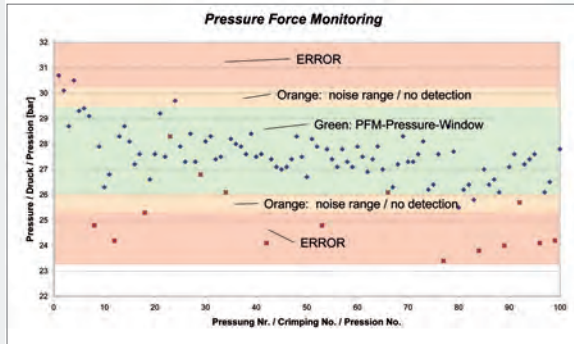


# Control C.2

## ACCESSORIES (can be retrofitted at any time)

Menus can be adapted individually on demand.

Order number: PFM



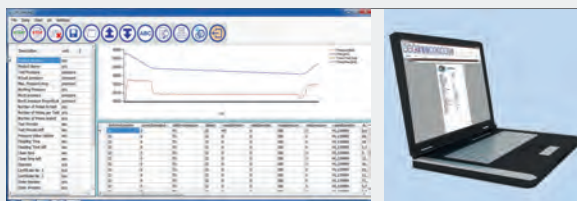
### PFM - Pressure Force Measuring

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 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.

Order number: UTS Ctrl C Package or separately available:

UTS Ctrl C.2 + Notebook 807.351

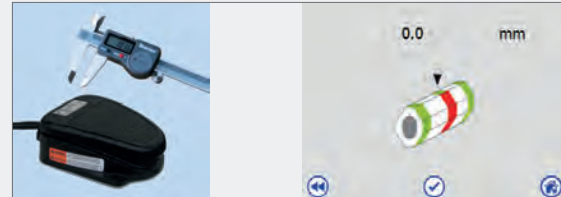


### UTS Ctrl C.2 Software + Notebook

Allows the reading and output of production data or measured data (including time stamps) for complete production documentation. The ability to block the machine's user interface against erroneous input increases the transparency of the production process.

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

Or Kit 800.610 + 800.609 / Caliper Ctrl C 4 inch



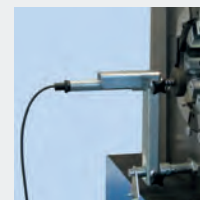
Measuring point menu with foot mouse / Vernier caliper (3 or 4"): Quality testing using calipers and foot mouse (as OK button). With the digital calipers, you can also check the pressing dimensions for conicity and ovality (number of measurement points). The pictogram-driven menu control guides you through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

Order number: Calp Ctrl C.2 (software + hardware)



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

Order number:  
TA(A)



Death stop

PS Double.2



Double footswitch

Order number:  
BCR Ctrl C.2



Barcode Scanner

:  
800.610



Fußmaus als separate  
Bestätigungstaste



UNIFLEX Product Catalogue

- Image Catalogue
  - Production Crimper
  - Service Crimper
- Peripheral Equipment
  - Proof and Clean
  - Special Equipment

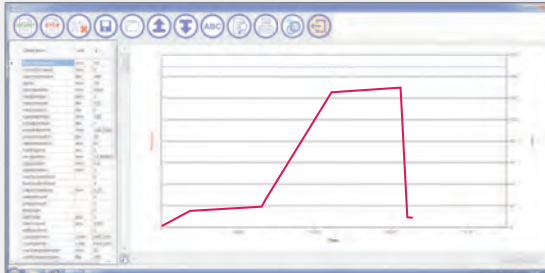
Voltages		Voltages	
HM3H	HM 3.3_HC.2_MVA - 220-480 Volt 60/50Hz 3Ph	HM450	HM 450.1_C.2_MVA - 220-480 Volt 60/50Hz 3Ph
HM220	HM_220.3CMVA - 220-480 Volt 60/50Hz 3Ph		HM 480.1_C.2_MVA - 220-480 Volt 60/50Hz 3Ph
HM225	HM_225.3CMVA - 220-480 Volt 60/50Hz 3Ph	HM480	HM 480.1_C.2_FD_MVA - 220-480 Volt 60/50Hz 3Ph
HM325	HM 325.1i_B00 - 380-420 Volt 50Hz3Ph		HM 480.1_PFC_C.2_MVA - 220-480 Volt 60/50Hz 3Ph
	HM 325.1i_B20 - 220-240 Volt 50/60Hz 3Ph	HM485	HM 485.1_C.2_MVA - 220-480 Volt 60/50Hz 3Ph
	HM 325.2i_C.2_MVA - 220-480 Volt 60/50Hz 3Ph		HM 485.1_C.2_FD_MVA - 220-480 Volt 60/50Hz 3Ph
	HM 325.2iHC.2_MVA - 220-480 Volt 60/50Hz 3Ph	HM660	HM 660.2_C.2_MVA - 220-480 Volt 60/50Hz 3Ph
	HM 325.2i_C.2_FD_MVA - 220-480 Volt 60/50Hz 3Ph		HM 660.2_C.2_MVA - 220-480 Volt 60/50Hz 3Ph
HM375	HM 3xx.2_PFC_C.2_MVA - 220-480 Volt 60/50Hz 3Ph	HM665	HM 665.2i_C.2_MVA - 220-480 Volt 60/50Hz 3Ph
	HM 375.2i_C.2_MVA - 220-480 Volt 60/50Hz 3Ph	HM1200	HM 1200i2i_C.2_MVA - 220-480 Volt 60/50Hz 3Ph
	HM 375.2i_C.2_FD_MVA - 220-480 Volt 60/50Hz 3Ph		
	HM 375.2iHC.2_MVA - 220-480 Volt 60/50Hz 3Ph		
HM380	HM 3xx.2_PFC_C.2_MVA - 220-480 Volt 60/50Hz 3Ph		
	HM 380.2i_C.2_MVA - 220-480 Volt 60/50Hz 3Ph		
	HM 380.2iHC.2_MVA - 220-480 Volt 60/50Hz 3Ph		
	HM 380.2i_C.2_FD_MVA - 220-480 Volt 60/50Hz 3Ph		
	HM 3xx.2_PFC_C.2_MVA - 220-480 Volt 60/50Hz 3Ph		

	Crimp-force (ton)	Control	SAE R 12 / 4SP	Indus- try	90° El- bow	Max. crimp range	Max. crimp path	Opening	Opening no dies	Die type	Speed Close/ Crimp/ Open	Drive	Noise level
HM3H	75	C.2 Touch	1"	2"	1 ½"	70 mm	8 mm	+35 mm	105 mm	239 -xx Ø-yy	8,3 / 8,3 / 13,8 10,5	5,5 kW	62 dBA
HM220	135	C.2 Touch	1¼"	2"	1½"	70 mm	8 mm	+35 mm	105 mm	239	/ 5 / 10,5 18,5 /	5,5 kW	53 dBA
HM225	160	C.2 Touch	1¼"	2"	1½"	70 mm	8 mm	+40 mm	110 mm	239 -xx-Ø -yy	1,5 / 18,5	5,5 kW	53 dBA
HM325	280	B+ Touch	2"	4" (6")	3"	165 mm	20 mm	+70 mm	215 mm	239 -xx- Ø-yy / 237L	23 / 1,4 / 33	4 kW	62 dBA
HM375	315	C.2 Touch	3"	4" (6")	3"	165 mm	20 mm	+70 mm	215 mm	239 -xx- Ø-yy / 237L	23 / 1,4 / 33	4 kW	62 dBA
HM380	340	C.2 Touch	3"	4" (6")	3"	165 mm	20 mm	+70 mm	215 mm	239 -xx- Ø-yy / 237L	23 / 1,3 / 33	4 kW	62 dBA
HM450	400	C.2 Touch	3"	6"	3"	310 mm	80 mm	+130 mm	360 mm	239 -xx- Ø-yy / 237L / 245	21 / 1,6 / 37	5,5 kW	62 dBA
HM480	450	C.2 Touch	3"	10"	3"	310 mm	80 mm	+150 mm	380 mm	239 -xx- Ø-yy / 237L / 245	20 / 1,5 / 23	5,5 kW	62 dBA
HM485	450	C.2 Touch	3"	10"	3"	250 mm	20 mm	+310 mm	360 mm	239 -xx- Ø-yy / 237L / 245	20 / 1,5 / 23	5,5 kW	62 dBA
HM660	800	C.2 Touch	3"	10"	3"	325 mm	50 mm	+120 mm	395 mm	239 -xx- Ø-yy / 237L / 246	15 / 2 / 15	18,5 kW	75 dBA
HM665	450	C.2 Touch	3"	10"	3"	380 mm	50 mm	+120 mm	450 mm	239 -xx- Ø-yy / 237L / 247	15 / 2 / 15	15 kW	75 dBA
HM 1200	1200	C.2 Touch	3"	10"	3"	325 mm	50 mm	+120 mm	395 mm	239 -xx- Ø-yy / 237L / 246	11 / 1,5 / 11	18,5 kW	75 dBA



## OPTION (ex works)

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.

Thus 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:

On demand:  
Schaltschrank XXL



For optional components.

Order number: 807.602



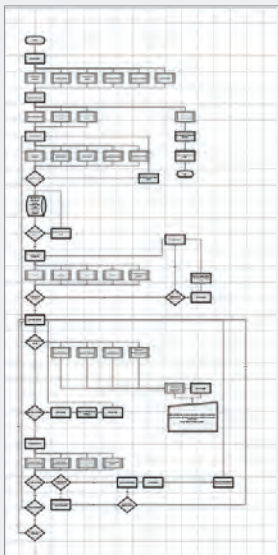
UX TOUCH 1800 mm cord

Order number: 807.496



TOUCH - non branded -  
1800 mm cord

## CORPORATE PROGRAMMING as a SPECIAL SOLUTION (ex works)



Would you like to have the controller be part of your overall branding scheme? Have it configured with your part or pictures of your products and make the operator's job easier and decrease potential liability? Make it interface with production operating system to increase productivity?

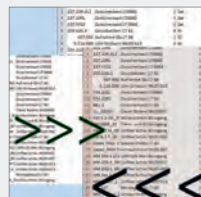
UNIFLEX can customize the operator interface to meet your needs. Simply compile your company solution from the v of menus, interfaces and options offered. Clients including EATON, CATERPILLAR and Intertraco are already advantage of our corporate programming solutions.

Paperless  
communication:



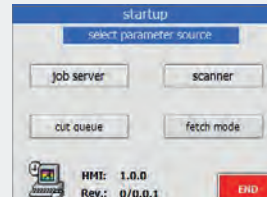
Communication with  
server or machine.  
Order management via

XML/CSV interface:



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

Operating mode configurations:



Communication with the server or with  
other machines.

Topics customized in line with  
corporate identity:



CI-compliant menus.

# Accessories



**QDS 239 C/T**  
Mobile storage for dies type 239 / 239 L (12 / 24 Satz) and 237 L (2 oder 4 Satz)



**QDS 239 S**  
Storage for dies 239 / 239 L and 237L directly on the machine or the wall; for type 239 to UX-table

**QDS 239 R**



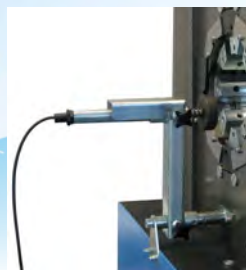
**Oil Cooler**  
Prevent the heating of hydraulic oil. A constant oil temperature leads to reproducible crimp results



**OCS 10 retro**  
Camera System - die alternative to the mirror, for a better sight line adjustment



**QDS 239 B + QDC 239.5**  
Standard in Machine packages



**TA (A)**  
Standard for HM 3xx series



**Mirror / SHS**



**LUS / LUF**  
LUS with LED and adapter  
LUF with Halogen adapter



**PTS SYSTEM**  
Marking and crimping in one step according to DIN 20066, EN 853, EN 854, EN 856, EN 857  
PTS 52: Zeichen/character 4 x 2,0 mm / marking depth ca. 0,3 - 0,5 mm  
PTS 32: character 3 x 1,5 mm / marking depth ca. 0,3 mm

## Anzahl Buchstaben Amount of characters

P 200, 202, 204, 213, 261, 265  
immer 10 Stck. / always 10 each  
P 262 / 263  
Ø 14 - 32 = 17 Stck. / each  
P 239  
Ø 14 - 24 = 12 Stck. / each  
Ø 26 - 50 = 17 Stck. / each  
P 239L  
Ø 14 - 22 = 14 Stck. / each  
Ø 24 - 40 = 15 Stck. / each  
Ø 44 - 50 = 10 Stck. / each  
P 232L  
Ø 17 - 20 = 21 Stck. / each  
Ø 24 - 28 = 22 Stck. / each  
Ø 40 - 44 = 24 Stck. / each  
Ø 47 - 62 = 10 Stck. / each  
Ø 67 - 90 = 11 Stck. / each  
P 237L  
Ø 54 - 67 = 24 Stck. / each  
Ø 71 - 121 = 11 Stck. / each  
P 266L  
Ø 54 - 78 = 10 Stck. / each

## TU QDS Die Storage System:

For PB 232 + 237 + 239 + 266 dies







Uniflex Innovationen – oft kopiert, nie erreicht!

Uniflex Special Innovations – often copied, never reached!

[www.uniflex.de](http://www.uniflex.de)



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