



# Special Equipment

Solutions for every requirement.



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# Special Equipment



## 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



## Environment friendly

- Engineered to last

## Customizing/Automation...

From the design of the machines in customer-specific colors to the complete automation of the systems, UNIFLEX is also a reliable partner for special requirements.

Testen Sie uns!  
Sales@uniflex.de

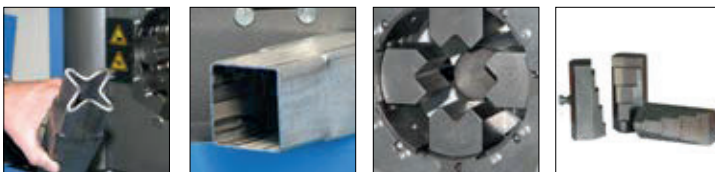
Our production crimping models HM 380, HM 465, HM 495, HM 660, HM 665 and HM 1200 are ideal for the crimping of insulators, cables, steel ropes and reinforcing steel elements.



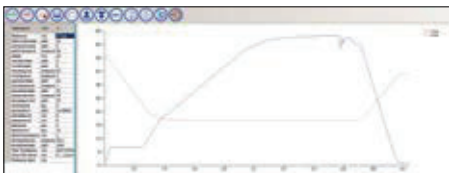
HM 380 | HM 465 | HM 480 | HM 495 | HM 660 | HM 665 | HM 1200



**Copper Cable    Rebar fasteners    Insulator    Heater    Aircon hose**

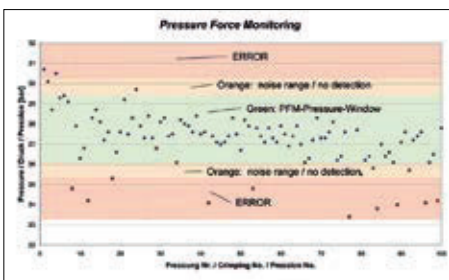


**Special dies for forming tubes with square or round ends.**



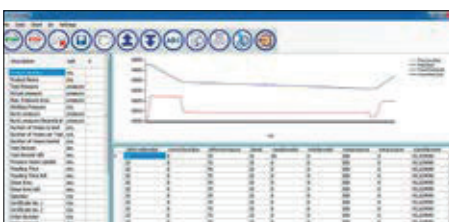
**Option: PFC**

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 crimping machine for you, please contact your local UNIFLEX salesperson.



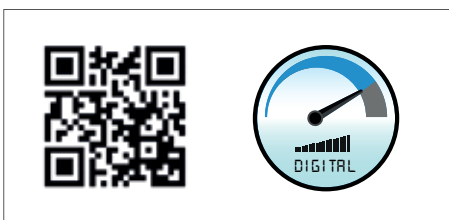
**Standard: PFM**

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: UDL**

Enables the import and output of produced/measured data (incl. time stamp) for seamless production and documentation. The option of locking the machine's user interface to prevent incorrect input increases the transparency of the production process.



**Digital Speed Control: Option**

Speed Control – digitally controlled flow divider for precise machine movement. With our new, digitally controlled flow divider for production presses, the hydraulic oil flow can be precisely regulated and the workpiece is formed more gently.



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



KS 6, KS 8, KS 10

Technical Data	KS 6	KS 8	KS 10
Crimp force (kN/Ton)	500/50	800/80	1,800/180
No grease: 20% less friction	✓	✓	✓
Control	Control C.2	Control C.2	Control C.2
Max. Crimp range (mm)	55	139	139
Opening (mm)	+27.5	+45	+45
Opening without dies (mm)	91.5	190	190
Type of dies	PBK 266	PBK 237	PBK 237
Speed (mm/sec)			
Close	12	7	3.5
Crimp	12	7	3.5
Open	30	15	6
Noise level	58 dBA	58 dBA	58 dBA
Drive	5.5 kW 3~VAC	5.5 kW 3~VAC	5.5 kW 3~VAC
Oil	80 l	80 l	80 l
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
Weight (kg)	470	570	570
<b>Options</b>			
IPC	✓	✓	✓

Type of dies	
Ø mm	mm
6.8	3
8	3
9	3
10	3
11	3
12	3
14	4
16	4
17	4
19	4
20	4.5
22	4.5
24	4.5
25	4.5
28	5
30	5
32	5
34	5
36	5
39	5
40	5
44	5
47	5

Type of dies	
Ø mm	mm
12	3
14	3
16	4
17	4
19	4
22	4.5
24	4.5
26	4.5
28	4.5
32	5
36	5
40	5
44	5
46	5
47	5
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



Press designed specifically for the production of automotive hoses. A good example for such a tailor-made solution is the 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 PFC 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 1-30



HM 245



Technical Data	HMC 1-30	HM 245
Crimp force (kN/Ton)	300/30	750/75
No grease: 20% less friction	✓	✓
Control	Control C.2	Control C.2
SAE R 12* 1 piece fitting		1"
SAE R 12* 2 piece fitting		3/4"
Industrial	1"	1"
Max. Crimp range (mm)	70	70
Opening without dies (mm)	90	100
Type of dies	239-38	239
Speed (mm/sec)		
Close	30	27
Crimp	5	5
Open	50	30
Noise level	< 80 dBA	53 dBA
Drive	4 kW	4 kW
Oil	80 l	100 l
L x W x H (mm)	650 x 590 x 1,700	1.020 x 950 x 1,450
Weight (kg)	320	610
<b>Options</b>		
IPC	✓	✓

\* According to the fitting.

Type of dies		Type of dies (HM 245)	
<b>239 - 38</b>		<b>239</b>	
∅ mm	mm	∅ mm	mm
6.8	38	6.8	50
9	38	9	50
10	38	10	50
12	38	12	50
14	38	14	60
16	38	16	60
17	38	17	60
19	38	19	60
20	38	20	60
22	38	22	60
24	38	24	60
26	38	26	75
28	38	28	75
30	38	30	75
31	38	31	75
32	38	32	75
34	38	34	75
36	38	36	75
38	38	38	75
39	38	39	75
40	38	40	75
44	38	44	75
47	38	47	75
50	38	50	75
54	38	54	75
57	38	57	75
62	38	62	75

## Description



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



Sliding table with handle.



Double head system.



Stability, innovation and strength characterize the HMC press series from UNIFLEX. The HMC 12-2000 offers maximum performance and is ideal for larger hoses, while its compact design even makes it suitable for mobile use. The HMC 5-200 is also a powerful solution for hoses up to 5 inches and 200 tons of press force. State-of-the-art FEM calculation and innovative materials make both models top performers in terms of precision, efficiency and user-friendliness.



HMC 5-200



HMC 12-2000

Technical Data	HMC 5-200	HMC 12-2000
Crimp force (kN/Ton)	2,000/200	20,000/2,000
No grease: 20% less friction	✓	✓
Control	Control C.2/IPC	Control C.2/IPC
SAE R15 4SH 1 piece fitting	2"	3"
SAE R15 4SH 2 piece fitting	1½"	3"
Industrial	5"	12"
90° Elbows	4"	3"
Max. Crimp range (mm) with master dies	165	380
Crimping range (mm)	Ø PB + 30	Ø PB + 50
Opening without dies (mm)	210	435
Die type	237, 239	247, 245, 237 L
Speed (mm/sec)	upon request,	upon request,
Close/Crimp/Open	depends on power unit	depends on power unit
Oil	100 liter	300 liter
L x W x H (mm)	1,100 x 810 x 1,750	2,000 x 750 x 2,400
Weight of tool (kg)	1,650	15,000

\* According to the fitting.

More technical data according to the adjacent image	HMC 5-200	HMC 12-2000
D1 = Max. axial diameter	210 mm	435 mm
D2 = Maximum workpiece raw-diameter	195 mm	335 mm
D3 = Max. radial opening	155 mm	350 mm
D4 = Max. flange diameter	300 mm	450 mm
D5 = Diameter basic dies	145 mm	330 mm
L1 = Wide basic dies	126 mm	300 mm

