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**

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.

**PFM – Standard on all machines with Control C.2**

**Multistep**

**Industrial calculator**

**UDL**

**UDL (UNIFLEX) data logging**

**Crimping by Pressure**
Start the machine and its control:

Different users are possible:

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

PRODUCTION MENU

Option: Corporate programming as a special solution
Accessories for C.2

Order number: Calb Ctrl 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.

Order number: 807.602
Touch panel with 1800 mm cord.

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.

Order number: 807.602
Touch panel with 1800 mm cord.
## Accessories and Options

### Uniflex Labelling System – ULS Ecoline

<table>
<thead>
<tr>
<th>Part numbers ULS ECOLINE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pos.</strong></td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
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</tbody>
</table>

### Exchange year Color

<table>
<thead>
<tr>
<th>Year</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>green</td>
</tr>
<tr>
<td>2020</td>
<td>yellow</td>
</tr>
<tr>
<td>2021</td>
<td>blue</td>
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<tr>
<td>2022</td>
<td>brown</td>
</tr>
<tr>
<td>2023</td>
<td>purple</td>
</tr>
<tr>
<td>2024</td>
<td>grey</td>
</tr>
</tbody>
</table>

### Advantages of Hose Assembly Management

- 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

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**ULS** (UNIFLEX labelling system)
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 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 UNIFLEX Paperless Management System (UPMS)

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

Customer Work order

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

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

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

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

4. Fetch Work order XML file from Server or SQL connection

5. 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.

C.2 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 7 Ultimate SP1, 64 Bit;
- Mül (de, en, fr, sp, it)
- 80 GB SSD
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.

Your ERP can then import the data from the XML file and import it into your system.

The crimpler sends all crimp data to the new XML file. (Diameter, pressure, holding time, ...) The crimpler adds a record for each crimp. It contains all settings as well as the reached pressure, the achievable measure, counter, date and customized values.
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.

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.
**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/marking depth ca. 0.3 - 0.5 mm

PTS 32: character 3.0 x 1.5 mm/marking depth ca. 0.3 mm

<table>
<thead>
<tr>
<th>Dies</th>
<th>Ø mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>261</td>
<td>14 - 47</td>
</tr>
<tr>
<td>263</td>
<td>14 - 32</td>
</tr>
<tr>
<td>265</td>
<td>54 - 71</td>
</tr>
<tr>
<td>266 L</td>
<td>54 - 78</td>
</tr>
<tr>
<td>239/239 L</td>
<td>14 - 50</td>
</tr>
<tr>
<td>232 L</td>
<td>14 - 90</td>
</tr>
<tr>
<td>237 L</td>
<td>54 - 121</td>
</tr>
<tr>
<td>554/246 L</td>
<td>on request</td>
</tr>
</tbody>
</table>

**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 P 239-x-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 34 - 67 = 24 each

Ø 71 - 121 = 11 each

P 266L

Ø 54 - 76 = 10 each

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

Weight: 160 kg

Drews L x W x H (mm):

2 = 584 x 572 x 50

2 = 584 x 572 x 100

Load Weight, Drawers: 75 kg
### Description

<table>
<thead>
<tr>
<th>Description</th>
<th>For</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TU</strong> Work Bench capable of supporting up to 800 kg</td>
<td>Universal</td>
<td><img src="image1.png" alt="Image" /> <img src="image2.png" alt="Image" /> <img src="image3.png" alt="Image" /></td>
</tr>
<tr>
<td><strong>TU-QDS F Basic</strong> Basic with screws</td>
<td>Universal work bench TU</td>
<td><img src="image4.png" alt="Image" /> <img src="image5.png" alt="Image" /> <img src="image6.png" alt="Image" /></td>
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<tr>
<td><strong>TU-QDS FXL Shelf</strong> Variable with screws</td>
<td>TU-QDS F Basic</td>
<td><img src="image7.png" alt="Image" /> <img src="image8.png" alt="Image" /></td>
</tr>
<tr>
<td><strong>TU-QDS F Shelf</strong> Variable with screws</td>
<td>TU-QDS F Basic QDS-S.2 single row QDS-S-2 double row</td>
<td><img src="image9.png" alt="Image" /> <img src="image10.png" alt="Image" /></td>
</tr>
<tr>
<td><strong>TU-QDS F 239I</strong> 3 pieces in set</td>
<td>TU-QDS FXL Shelf TU-QDS F Shelf</td>
<td><img src="image11.png" alt="Image" /> <img src="image12.png" alt="Image" /></td>
</tr>
<tr>
<td><strong>TU-QDS F Shelf PB280</strong> for PB 280</td>
<td>TU-QDS F Basic QDS-S.2 single row QDS-S-2 double row</td>
<td><img src="image13.png" alt="Image" /> <img src="image14.png" alt="Image" /></td>
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<tr>
<td><strong>QDS-S.2 single row</strong> Basic Support</td>
<td>HM 220.3 HM 225.3</td>
<td><img src="image15.png" alt="Image" /> <img src="image16.png" alt="Image" /></td>
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<tr>
<td><strong>QDS-S.2 double row</strong> Basic Support</td>
<td>HM3xx 2 S8.3A+C S8.2/S8.3 S10.2/S10.3 HM245.4</td>
<td><img src="image17.png" alt="Image" /> <img src="image18.png" alt="Image" /></td>
</tr>
<tr>
<td><strong>QDS 237.293S RAL5012</strong> Basic Support with TU-QDS 239i</td>
<td>HM3xx ab Bj 2010, HM3xx 2 S8.3 S8.2/S8.3 S10.2/S10.3 HM 245.2/HM 245.3/HM 245.4</td>
<td><img src="image19.png" alt="Image" /> <img src="image20.png" alt="Image" /></td>
</tr>
<tr>
<td>Description</td>
<td>For</td>
<td></td>
</tr>
<tr>
<td>----------------------------------</td>
<td>----------------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>QDS 239 S</strong>&lt;br&gt;Basic Support with TU-QDS 239i</td>
<td>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</td>
<td></td>
</tr>
<tr>
<td><strong>QDS 280 B RAL 7021</strong>&lt;br&gt;For 9 Set PB 280</td>
<td>PB 280</td>
<td></td>
</tr>
<tr>
<td><strong>QDS 239 B RAL 7021</strong>&lt;br&gt;For 9 Set PB 239</td>
<td>PB 239</td>
<td></td>
</tr>
<tr>
<td><strong>QDS 239 R</strong>&lt;br&gt;For 9 set PB 239</td>
<td>TU</td>
<td></td>
</tr>
<tr>
<td><strong>QDS 239 C</strong>&lt;br&gt;Wheeled support for 12 set PB 239</td>
<td>PB 239, PB 237</td>
<td></td>
</tr>
<tr>
<td><strong>QDS 239 T</strong>&lt;br&gt;Wheeled support for 24 set PB 239</td>
<td>PB 239, PB 237</td>
<td></td>
</tr>
<tr>
<td><strong>TROLLEY</strong>&lt;br&gt;Wheeled support 777.8&lt;br&gt;LxWxH (mm): 1720 x 660 x 200&lt;br&gt;Weight: 75 kg&lt;br&gt;Load Weight: 800 Kg</td>
<td>HM 3xx, HM 220/225, HM 245, S6/S8/10 EM 115</td>
<td></td>
</tr>
</tbody>
</table>
Options and Accessories
For Cutting Machines.
Options | Accessories 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: 216 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", OD 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 & EM 115
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

USH 4-50
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