



Proof and Clean

reliable, clean and eco-friendly

The best return on investment



Many times you see your focus on the best investment – here at UNIFLEX it is Quality and user-friendliness.

UNIFLEX cleaning benches reliably remove all rubbish that is being made during cutting or crimping hoses.

UNIFLEX test benches give you safety in questions of warranty.



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.

UNIFLEX Produkt Overview

- Image Catalogue
- Production Crimpers
- Service Crimpers
- Peripheral Equipment
- **Proof and Clean**
- Special Equipment

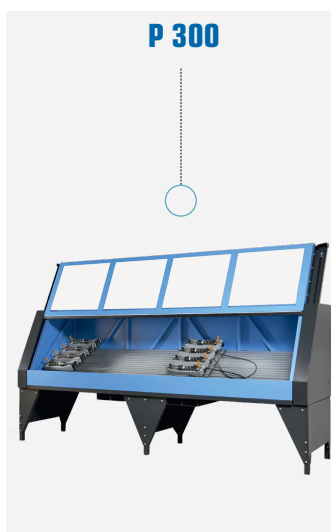
Proof and Clean



The best Return on Investment
Since 1972



Test Benches – Overview



Technical Data	P 160	P 160 Ecoline	P 200	P 300
Test pressure	150 - 1300 bar			100 - 1000 bar
Drive	Intensifier			Hydraulic aggregate 3kW with pressure intensifier
Tank dimensions	1590 x 795 x 370 mm	1200 x 600 x 250	1590 x 795 x 370 mm	3750 x 1450 x 870 mm
Capacity	7 bar, 20 NI/min		7 bar, 20 NI/min 400V / 50 Hz / 3 ph	

First Class Advantages

Universal				
Ecoline				
Integrated tank with filter				

Voltages

P 160 ECOLINE : Pneumatic P 160_Standard : Pneumatic P 160_V2A : Pneumatic with option stainless steel P 160_BTouch_23 : pneumatic + B touch + 230 Volt 50 Hz 1 phase P 160_BTouch_H_23 (high pressure option) : pneumatic + B touch + 230 Volt 50 Hz 1 phase P 160_BTouch_N_23 (low pressure option) : pneumatic + B touch + 230 Volt 50 Hz 1 phase	P 200_BTouch_00 : pneumatic + 380-420 Volt 50 Hz 3 phase P 200_BTouch_20 : pneumatic + 220-240 Volt 50-60 Hz 3 phase P 200_BTouch_H_00 (high pressure option) : pneumatic + 380-420 Volt 50 Hz 3 phase P 200_BTouch_N_00 (low pressure option) : pneumatic + 380-420 Volt 50 Hz 3 phase	P 300_Aggregat_MVA : 220-480 volt 50/60hz 3 phase P 300_Aggregat_2_MVA : 220-480 volt 50/60hz 3 phase P 300_Prüfkammer_S_2 : Zu P 300 aggregat
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Technische Änderungen vorbehalten. / We reserve the right to make technical changes without notice.
Daten abhängig von der Armatur / Data according to the fitting || Mit Grundbacken / with master dies
Optionen sind Maschinenbauteile, die nur ab Werk lieferbar sind und nicht nachrüstbar || Options are machine parts that can only be ordered while buying the machine.



The best Return on Investment
Since 1972



Cleaning Machines – Overview



Technical Data		RG 10	RG 2
	Max. air consumption	250 NI/min	100 NI/min
	Drive	Membrane pump, 7 bar Luft	
	Output	180 l/min	25 l/min
	Working range	Bis 2" ID	Bis 1 ¼ ID
First Class Advantages			
	Universal		
		RG 10.2 : Pneumatic	RG 2 : Pneumatic

The First Class Advantages are explained in the Image Catalogue.



Test benches

P 160



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

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



P 160



P 160 Ecoline

Quality and safety

Fully enclosed test chamber

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

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

Hood with gas springs and transparent Makrolon® safety pane

Environmentally friendly test medium (water-oil emulsion)

Easy and safe to operate

Test bench can be retrofitted with extension element

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

Compressed air filter with condenser

Innovative technology for fast processing

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

Fast filling and automatic pressure release of tested parts

CE compliant

Hood with gas springs and transparent Makrolon® safety pane



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



Option to preconfigure pressure for serial testing



P160 equipped with integrated tank and closed testing medium circuit



The P160 is also available in stainless steel



P160 extension element

Technical Data	P 160	P 160 Ecoline
Test pressure	150 - 1300 bar	
Drive	Oscillating pressure booster	
Flow rate	5 l/min	
Internal test bench size (LxWxH mm)	1590 x 795 x 370	1200 x 600 x 250
External test bench size	2210 x 950 x 1325	1400 x 600 x 1200
Max. permissible medium capacity	100 l	33 l
Rated connection values	7 bar, 20 NI/min	
Flushing pump	0,38 kW	-
Useful capacity	22 l	50 l
Aggregate	12 V	24 V
Weight (kg)	210 (leer)	120 (leer)
Noise level	72 dBA	
Standard		
Steck-O-System (only S Serie; DN 4/6/8/10/12/ G 1/2" 405.901 ODER R 1/4" / 3/8" / 1/2" / 3/4" / G 1/2" 405.902)		
Options		
Pressure filter 600.901 5µm Standard Control C.2 and Control B+ Touch Stainless steel version VA P 160 extension (2400 mm) (more on demand) P 160 extension trough (200 mm) Low pressure (20-1300 bar) High pressure (150-3000 bar)		
Accessories		
Suction filter 100µm, Compressed air maintenance unit, Steck-O-Adapters DN 4/6/8/10/12/ G 1/2" 405.901 ODER R 1/4" / 3/8" / 1/2" / 3/4" / G 1/2" 405.902 Corrosion inhibitor EM 10 l container Stainless steel tank (only P160)		
Package		
P 160 Package / P 160 Ecoline Package Machine + Steck-O-Adapter 405.901 + 405.902, EM 10 l		

More Accessories can be found on 13f, as well as on this catalogue's jacket pages.

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Test benches

P 200



Der The P 200 test bench with digital Control B+ Touch control and tight clamping system makes testing not only easier and quicker but also extremely flexible. Enter all test parameters at the user-friendly menu control and save them, if required with the relevant product number.

The test parameters for a product can then be reloaded at the push of a button, reducing tooling time while ensure reproducibility.

The patented tight clamping system does away with screws and threaded adapters. Pressure testing reveals any defects in the material or assembly at the earliest possible time.



P 200

Quality and safety

Fully enclosed test chamber

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

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

Hood with gas springs and transparent Makrolon® safety pane

Environmentally friendly test medium (water-oil emulsion)

Easy and safe to operate

Test bench can be retrofitted with extension element

Up to 120 tests per hour for a max. length of 2500 mm (DN 12-800 mm)

Innovative documentation management

Time saving product parameter memory

Proper documentation and controlling

Test reports printed on laser printer (optional)

CE compliant

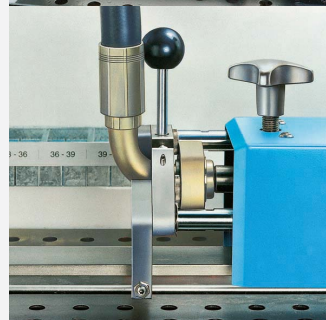
Hood with gas springs and transparent Makrolon® safety pane



Tight clamping system for easy test



The test bench caters for a wide range of fittings and hoses



Test logs and reports for proper documentation



The P160 extension element

Technical Data		P 200
Test pressure		150 - 1300 bar
Drive		Oscillating pressure booster
Test chamber size (LxWxH mm)		1590 x 795 x 370
Test bench size (LxWxH mm)		2210 x 950 x 1325
Connection		7 bar, 20 NI/min 400V / 50 Hz / 3 ph
Volumetric delivery		5 l/min
Max. permissible medium capacity		100 l
Electrical connection		400 V 50 Hz 3 Ph
Air pressure (bar)		7 bar, 20 NI/min
Weight (kg, empty)		210
Noise level (dBA)		72
Standard		
USB port		
Control B+ Touch		
Auxiliary flushin pump 0,38 kW (400V 50 Hz 3 Ph) 5l/min		
Suction filter 100µm		
Pressure filter 12µm		
Compressed air maintenance unit		
Corrosion inhibitor EM10 I		
Retaining disc sets (HS 400 Ø 8-10 / 10-12 / 12-15 / 15-18 / 18-21 / 21-24 / 24-27 / 27-30 / 30-33 / 33-36 / 36-39 / 39-42),		
Sealing cones (DSP 400-2 (30°- Ø 2,2) , DSP 400-3 (30°- Ø 3,8), DSP 400-4 (80°- Ø 2,2), DSP 400-5 (80°- Ø 3,8), DSP 400-7 (30°- Ø 11), DSP 400-8 (80°- Ø 6,5)),		
Dummy sealing cones (BDSP 400-1 (30°- Ø 2,2), BDSP 400-6 (80°- Ø 2,2), BDSP 400-9 (30°- Ø 11))		
Sealing discs (DS 400-1 (120°)),		
Options		
888.074 laser printer A4/ SW		
600.091 pressure filter 5µm		
VA (Stainless Steel) model		
Extensions available on request		
Low pressure (20-1300 bar)		
High pressure (150-3000 bar)		
Stainless steel tank		
Package		
P 200 package :		
+ BDSP, HS 400, EM 10 I + DS + DSP		

More Accessories can be found on 13f, as well as on this catalogue's jacket pages.

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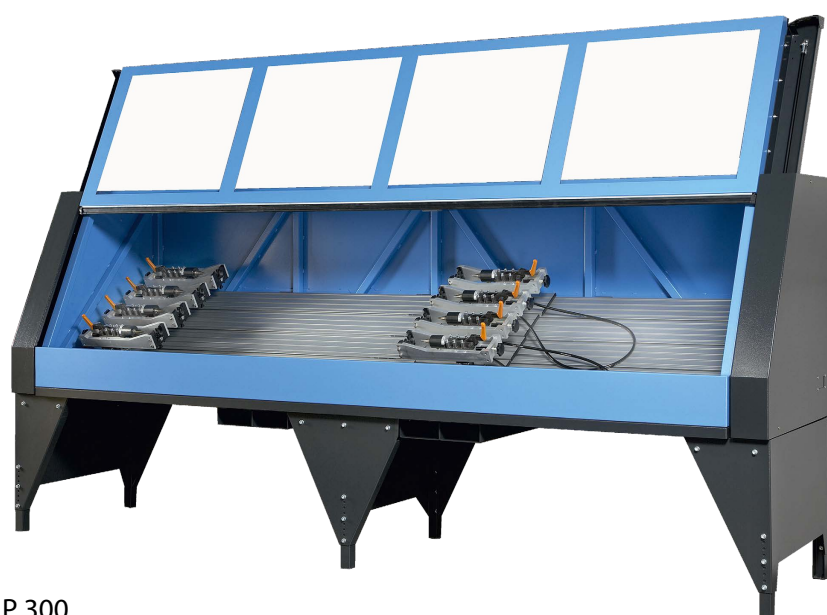
Test benches

P 300



Testing has never been easier and quicker. With the P300, you can perform precision tests of hoses of up to 2500 mm in length and with pressures up to 1000 bar.

Test up to 120 hoses per hour, making use of 4 parallel test lines and our quick-clamping system. You can choose between automated and manual setup mode. The P300 comes with a number of standard features such as an internal lighting and a portable power aggregate, and caters for individual test logging.



P 300

Innovation and quality

Testing of up to 120 hoses per hour

4 parallel test specimen

Combination of two test chambers (mirror arrangement)

Fast workflow thanks to separately running test chambers (for alternate setup and testing)

Quick-clamping system holding up to 4 hoses for parallel testing with customised settings

Internal lighting system, adjustable machine feet and top-quality internal gear pump

Quick changeover between automated and manual setup mode

Separate portable power aggregate (with 2m connecting cable)

Max. hose length 2500 mm

Safety and CE conformity

Automatic closing of test chamber

Large inspection window made in transparent Makrolon®

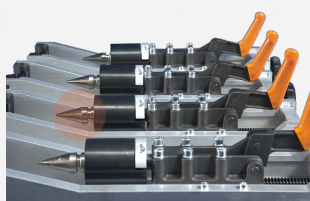
Display for bubble-free flooding on aggregate

Customisable test logs and reports (for storage and printing)

*depending on flooding time, hose length and diameter. Verified mean value.



P 300 Aggregate



Axially adjustable quick-change system with adjustable rotating head.



2 clamping discs per head, catering for various diameters (outside ø 8-42 mm).



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



The P 300 can be adjusted in height

Technical Data		P 300
Test pressure		100 - 1000 bar
Drive		3kW hydraulic aggregate with compressed air pressure booster
Flow rate		13 l/min
Air pressure (bar)		7 bar, 20 NI /min
Max. permissible medium capacity		140 l
Noise level (dBA)		70
Max. hose length		bis zu 2500 mm
Test chamber size (LxWxH mm) Modul S-2 open / closed		3750 x 2400 x 870 / 3750 x 1450 x 870
Ext. test bench size (LxWxH mm) - aggregate		830 x 740 x 1340
Weight test chamber (kg)		1000 (leer)
Elektrical connection		400 V 50 Hz 3 Ph
Weight aggregate (kg)		200 (empty)
Testing medium		Apresol
Standard		
Sealing cone set 888.074 Laser printer A4/ SW UTS software USB interface/port Pressure filter 12µm Compressed air maintenance unit Suction filter 100µm		
Options		
409.120 Flushing oil Second test chamber available on request P300_Aggregat_2_MVA(for 2 test chambers) - 400V 50 Hz 3 ph P300_Aggregat_MVA - 400V 50 Hz 3 ph		
Package		
P 300 modul package		

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Cleaning machines – at a glance

RG 10, RG 2



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



RG 10



RG 2



Flushing cone

Suction filter

Pressure filter

Technical Data	RG 10	RG 2
Drive	Diaphragm pump, 7 bar, air Diaphragm pump, 7 bar, air	
Flow rate	180 l/min	25 l/min
Max. air consumption	250 NI/min	100 NI/min
Working area	Bis 2" ID (Up to)	Bis 1 1/4" ID (up to)
Working surface	800 x 1600	350 x 750
Max. hose length (depending on DN)	20 m	2,5 m
Pressure filter	10 µm	5 µm
Tank capacity	215 l	38 l
Cleaning medium	Neutral detergent + corrosion inhibitor	
L x W x H (mm)	2000 x 860 x 1050	960 x 435 x 940
Weight (kg, empty)	160	55
Additional information		
PJ_HFL810 - RG 10 - Filter cover PJ_FE100 - RG 10 - Filter cartridge 10 µm 600.901 - RG 2 - Filter cover with display 600.4 - RG 10 + RG 2 - Fine filter cartridge 5 µm 600.5 - RG 10 + RG 2 - Filter cartridge 12 µm		

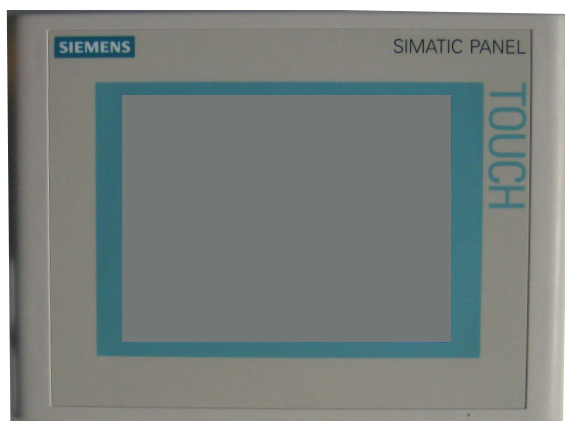


Machine Control B+ Touch

Control B for P160 B, P200 B



The P200 and P160 come with a UNIMATControl-B + TOUCH control system as standard and includes a product data memory catering for up to 1000 product records. Even inexperienced staff can thus operate the machine without difficulty. On-the-spot configurations are made manually.



Produktionsmanagement for serial production and customized cleaning

- FIFO product memory
- Dataset filtering for faster processing
- Scanner menu linked to product datasets
- Intuitive graphic user interface

Maintenance from network PC

- User-friendly management of changes and maintenance of product datasets
- Centralized job management from your desk saves time and money
- Windows system for easy cable network integration

Accessories:

- Printer - 888.074
- UTS - 807.350

P160 B:

Only product memory

P200:

Product memory +

Automated processing:

Flooding time, testing time, blow-out time and pressure reduction



Machine Control C.2 Touch

Control C.2 for P300

The new CONTROL C system of the P300 comes with an intuitive user interface for UNIFLEX hose presses, test benches and other machines and includes a colour touch screen. The system is based on the tried and tested Control B+ Touch.

It features additional standardised menus (quick start menu and production menu) as well as various customisation options for menus and functions of different applications. The CONTROL C system caters for centralised control via HID from Windows terminals.

In addition, it includes a PFM option for quality assurance documentation and the tracking of product and machine data.



Produktionsmanagement for serial production and customized cleaning

FIFO product memory
Dataset filtering for faster processing
Scanner menu linked to product datasets
Data input by scanner
Intuitive graphic user interface
Successor of FPM
Adjustable pressure switching point
Display: 6" real-time colour touch screen (16,7 million colours)

Maintenance from network PC

Centralized job management from your desk saves time and money
Windows system for easy cable network integration

Data upload and download

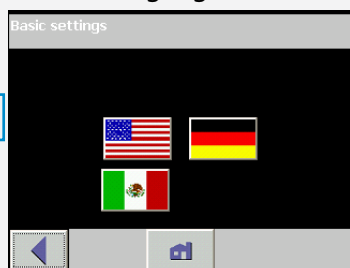
Easy data upload and download with UTS devices, making use of external databases, scanners, USB sticks, and even remote maintenance via the internet
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Machine Control C.2 Touch

Start: Language selection

01



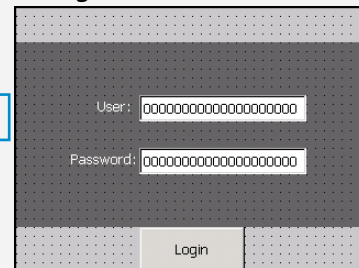
System settings

02



Login

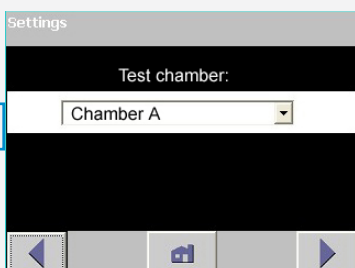
03



Manual Mode:

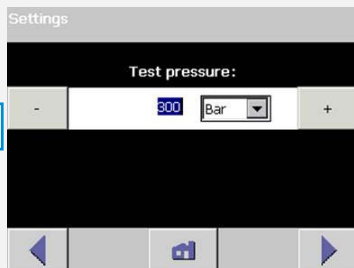
Chamber selection

04



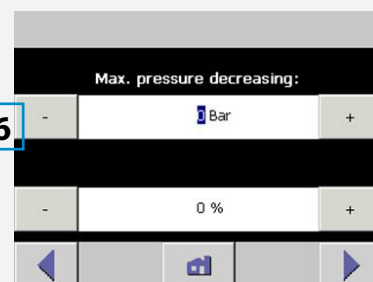
Test pressure

05



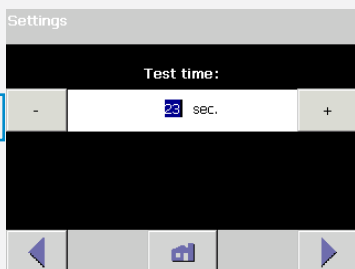
Max. pressure increase

06



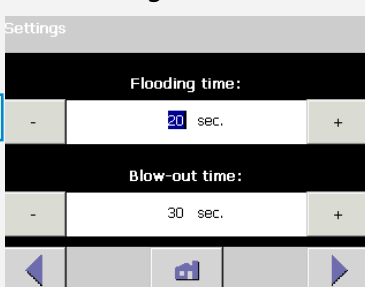
Test time

07



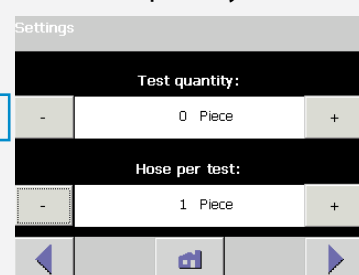
Flooding + Blow-out time

08



Test quantity

09



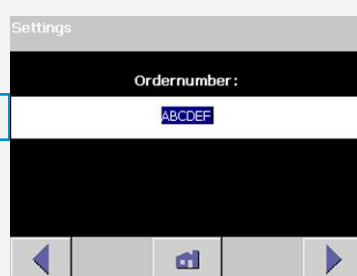
Job quantity

10



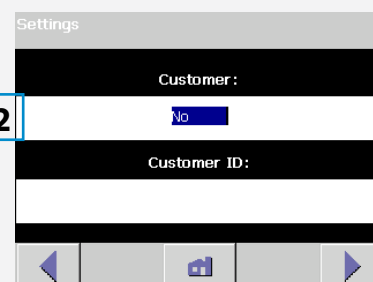
Order number

11



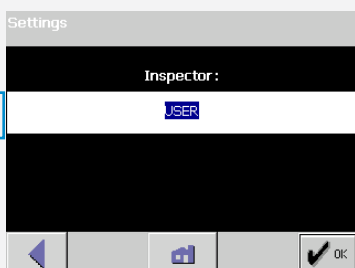
Customer number

12



Inspector

13



15



Automatic Mode:

Saving data

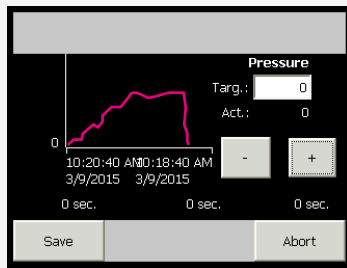
Select article and start with "OK"

Article number	A	
Target pres. / act.:	300 Bar /	1 Bar
Quantity set / actual	50 Piece /	0 Piece
Test time	23 sec.	
Flooding / Blow-out	20 sec. /	30 sec.

OK

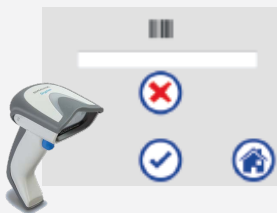
Manual First Assembly Test Process by pushing start each operation (flooding, test, blow out) are registered and saved. Next stay will be to save in the database for production testing.

Teach In

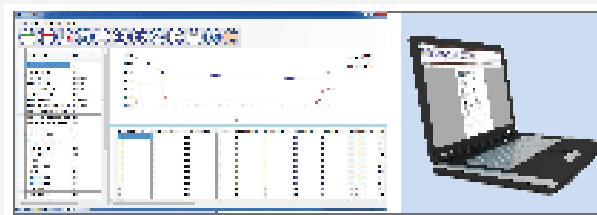


Options:

Scanner



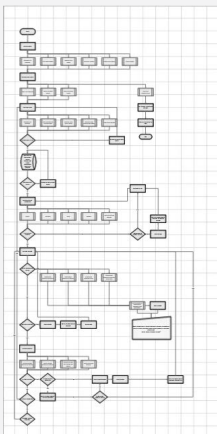
UTS Ctrl C.2 + notebook



CUSTOMISED CI PROGRAM INTERFACE (ex works)

Do you require a customised control system or graphic user interface elements based on your corporate identity?

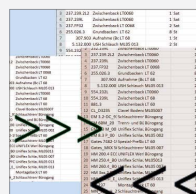
Choose from our wide range of menus, interfaces and control options to customise it to suit your needs, as has been done by many of our customers, including EATON, CATERPILLAR, Intertraco, etc.



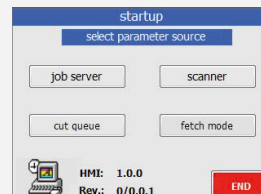
Allows for process controlled production



Communication with server/ machine server
Server-based job management



Link to external databases
Loading and saving of documented production data



Communication with server and other machines



CI conforme menus

[illegible]

Notes

[illegible]



Uniflex Innovationen – oft kopiert, nie erreicht!

Uniflex Special Innovations – often copied, never reached!

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