Test Benches & Cleaning Machines
Reliable, clean and eco-friendly.

Universal
For all types of hoses and fittings.

Ecoline
Value driven solution for less frequent use.

Integrated Tank
Saves work space and is quiet.
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 ECOLINE 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.

Quality and safety

- Fully enclosed test chamber
- Also suitable for 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 (P 160)
- Logging software/printer available as optional equipment (Control B+ Touch) (P 160)
- 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

Package

P 160 Package/
P 160 Ecoline Package
Machine
+ Steck-O-Adapter metric 405.901
+ Steck-O-Adapter imperial 405.902
+ Anticorrosion additive EM CO - 18 kg

Standard

Stack-O-System

Accessories

4 Steck-O-Adapter 405.6.
### Technical Data

<table>
<thead>
<tr>
<th></th>
<th>P 160 Ecoline</th>
<th>P 160</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test pressure</td>
<td>150 - 1 300 bar</td>
<td>150 - 1 300 bar</td>
</tr>
<tr>
<td>Drive</td>
<td>Intensifier</td>
<td>Intensifier</td>
</tr>
<tr>
<td>Flow</td>
<td>1,1 L/min</td>
<td>1,1 L/min</td>
</tr>
<tr>
<td>Capacity</td>
<td>7 bar, 20 N/min</td>
<td>7 bar, 20 N/min</td>
</tr>
<tr>
<td>Tank dimensions</td>
<td>1 200 x 600 x 250 mm</td>
<td>1 590 x 795 x 370 mm</td>
</tr>
<tr>
<td>Test bench dimensions</td>
<td>1 400 x 600 x 1 200 mm</td>
<td>2 210 x 950 x 1 325 mm</td>
</tr>
<tr>
<td>Reservoir capacity</td>
<td>33 L</td>
<td>100 L</td>
</tr>
<tr>
<td>Alternative drive</td>
<td>-</td>
<td>0,38 kW</td>
</tr>
<tr>
<td>Colour</td>
<td>RAL 5012 Blue</td>
<td>RAL 5012 Blue, RAL 7021 Grey</td>
</tr>
<tr>
<td>Weight</td>
<td>120 kg empty</td>
<td>210 kg empty</td>
</tr>
<tr>
<td>Noise level</td>
<td>72 dBA</td>
<td>72 dBA</td>
</tr>
</tbody>
</table>

#### Accessories

<table>
<thead>
<tr>
<th></th>
<th>✓ ✓</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suction filter</td>
<td></td>
</tr>
<tr>
<td>Air preparation unit</td>
<td></td>
</tr>
<tr>
<td>Steck-O-Adapter (s-series only)</td>
<td>DN 4/6/8/10/12/ G 1/2&quot; 405.901</td>
</tr>
<tr>
<td>Steck-O-Adapter (s-series only)</td>
<td>R 1/4&quot; / 3/8&quot; / 1/2&quot; / 3/4&quot; / G 1/2&quot; 405.902</td>
</tr>
<tr>
<td>Anticorrosion additive</td>
<td>EM 10 l</td>
</tr>
</tbody>
</table>

#### Options

<table>
<thead>
<tr>
<th></th>
<th>✓ ✓</th>
</tr>
</thead>
<tbody>
<tr>
<td>High pressure* (Steck-O-System not available)</td>
<td>- 150 - 3 000 bar</td>
</tr>
<tr>
<td>Low pressure*</td>
<td>- 20 - 1 300 bar</td>
</tr>
</tbody>
</table>

* Only one of the two options possible.

### Additional Information

- The P 160 is also available in stainless steel.
- P 160 extension element:
  - 407.3150: Total chamber length 3600 mm
  - 407.3250: Total chamber length 4400 mm
- Stock-O-System:
  - Clean, quick and reliable connection
  - Push-in system for easy assembly
  - Ample space in chamber
  - Adapter for fast connection
The P 250 Test Bench with Control C.2 IPC is a new modular test bench that can be adapted to your needs. It offers the possibility to test with Steck-o, Hand or Hydraulic quick cone system. You can also install a Euro Pallet inside. The Chamber also accepts a non-end extension if you prefer to test a hose lengthwise. The controller offers all parameters for a fully automatic test, with visualization of the pressure and may other features but also connectivity to your server or other machine in line with industry 4.0.

**Quality and safety**
- Fully enclosed test chamber
- Also suitable for static pressure testing of various hydraulic components such as valves, hydraulic cylinders, housings, quick-release couplings, etc.
- Safety switch - when the hood is opened, all pressure is automatically released within 1/10 second
- Environmentally friendly test medium (water-oil emulsion)
- Easy and safe to operate
- Quick changeover between automated and manual setup mode
- 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 printer (optional)

**CE compliant**
- Hood with gas springs and transparent Makrolon® safety pane

**Package**

**P 250**

**Machine**
- + Steck-O-Adapter 414.1000
- + Anticorrosion additive EM CO - 18 kg

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We reserve the right to make technical changes without notice. Options are machine parts that can only be ordered while buying the machine.
### Technical data

<table>
<thead>
<tr>
<th></th>
<th>P 250</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test pressure</td>
<td>150 - 1500 bar</td>
</tr>
<tr>
<td>Control</td>
<td>C.2 IPC</td>
</tr>
<tr>
<td>Drive</td>
<td>Intensifier</td>
</tr>
<tr>
<td>Flow rate (effectively)</td>
<td>7.5 L/min</td>
</tr>
<tr>
<td>Air supply</td>
<td>7 bar, 60 Nl/min</td>
</tr>
<tr>
<td>Tank dimensions</td>
<td>2194 x 890 x 470 mm</td>
</tr>
<tr>
<td>Test bench dimensions</td>
<td>2700 x 1450 x 1550 mm</td>
</tr>
<tr>
<td>Reservoir capacity</td>
<td>120 L</td>
</tr>
<tr>
<td>Loading</td>
<td>250 kg</td>
</tr>
<tr>
<td>Weight</td>
<td>570 kg</td>
</tr>
<tr>
<td>Noise level</td>
<td>75 dBA</td>
</tr>
<tr>
<td>Electrical connection</td>
<td>3~VAC</td>
</tr>
</tbody>
</table>

### Options

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>High pressure</td>
<td>150 - 3000 bar</td>
</tr>
<tr>
<td>Low pressure</td>
<td>20 - 3000 bar</td>
</tr>
<tr>
<td>Stainless steel tank</td>
<td>✓</td>
</tr>
</tbody>
</table>

### Technical Data

#### Steck-O adapter and screw connection:
- 1 x Steck-O up to 1500 bar: 414.1000
- 4 x Steck-O up to 1500 bar: 414.1012
- 1 x Screw connection up to 1500 bar: 414.1001
- 4 x Screw connection up to 3000 bar: 414.1008
- 1 x Screw connection up to 3000 bar: 414.1011
- 4 x Screw connection up to 3000 bar: 414.1013

#### Fast clamping system:
- 1 x Hand clamping cone up to 1500 bar: 414.1002
- 3 x Hand clamping cone up to 1500 bar: 414.1032
- 1 x Hand clamping cone up to 3000 bar: 414.1005
- 3 x Hand clamping cone up to 3000 bar: 414.1035
- 1 x Hydraulic clamping cone up to 1500 bar: 414.1003
- 3 x Hydraulic clamping cone up to 1500 bar: 414.1033
- 1 x Hydraulic clamping cone up to 3000 bar: 414.1004
- 3 x Hydraulic clamping cone up to 3000 bar: 414.1034

#### Tank Extension n°: 414.2100.0
- Extension kit 1 x Steck-O: 414.1290
- Extension kit 1 x Screw connection up to 1500 bar: 414.1290
- Extension kit 1 x Screw connection up to 3000 bar: 414.1298
- Extension kit 1 x Hand clamping cone up to 1500 bar: 414.1202
- Extension kit 3 x Hand clamping cone up to 1500 bar: 414.1232
- Extension kit 1 x Hand clamping cone up to 3000 bar: 414.1205
- Extension kit 3 x Hand clamping cone up to 3000 bar: 414.1235
- Extension kit 1 x Hydraulic clamping cone up to 1500 bar: 414.1203
- Extension kit 3 x Hydraulic clamping cone up to 1500 bar: 414.1233
- Extension kit 1 x Hydraulic clamping cone up to 3000 bar: 414.1204
- Extension kit 3 x Hydraulic clamping cone up to 3000 bar: 414.1234

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**Hand quick cone system**  **Hydraulic quick cone system**  **Different cones**  **Extension of quick system to 3 lines**  **Barcode Scanner BCR CT12E-Kit**
With the P 300, you can perform precision tests of hoses of up to 2 500 mm in length and with pressures up to 1 000 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. Our P 350 test bench unifies our years of experience with your advanced requirements for special hose equipment. The extra-large test chamber gives you the space you need for your challenge. Pallets with hoses as well as large, heavy hose coils can be easily supplied to the chamber by forklift. Hose samples are connected easily with adapter hose and quick connection to pressure ports.
**Technical data**

<table>
<thead>
<tr>
<th></th>
<th>P 300</th>
<th>P 350</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test pressure</td>
<td>150 - 1 000 bar</td>
<td>150 - 1 000 bar</td>
</tr>
<tr>
<td>Control</td>
<td>C.2 IPC</td>
<td>C.2 IPC</td>
</tr>
<tr>
<td>Drive</td>
<td>Diaphragm pump + Intensifier</td>
<td>Diaphragm pump + Intensifier</td>
</tr>
<tr>
<td>Flow rate (effectively)</td>
<td>5 L/min</td>
<td>12.5 L/min</td>
</tr>
<tr>
<td>Tank dimensions open/ closed</td>
<td>3 750 x 2 400 x 870 mm/ 3 750 x 1 450 x 870 mm</td>
<td>P 350 Container: External: 2 100 x 2 170 x 2 850 mm Internal: 1 950 x 1 950 x 2 200 mm P 350, Chamber-3 600: External: 4 100 x 950 x 1 325 mm Internal: 3 600 x 795 x 370 mm</td>
</tr>
<tr>
<td>Aggregate dimensions</td>
<td>830 x 740 x 1 340 mm</td>
<td>850 x 1 390 x 810 mm</td>
</tr>
<tr>
<td>Reservoir capacity</td>
<td>120 L</td>
<td>P 350 Container: 1040 L, P 350, Chamber-3 600: 330 L</td>
</tr>
<tr>
<td>Colour</td>
<td>RAL 5012 Blue, RAL 7021 Grey</td>
<td>RAL 5012 blue/RAL 7021 grey/RAL 9002 grey-white</td>
</tr>
<tr>
<td>Weight of tank</td>
<td>1 000 kg (empty)</td>
<td>P 350 Container: 650 kg P 350, Chamber-3 600: 390 kg</td>
</tr>
<tr>
<td>Weight of power unit</td>
<td>210 kg (empty)</td>
<td>210 kg</td>
</tr>
<tr>
<td>Noise level</td>
<td>75 dBA</td>
<td>75 dBA</td>
</tr>
<tr>
<td>Max. hose length</td>
<td>up to 2 500 mm</td>
<td></td>
</tr>
<tr>
<td>Test medium</td>
<td>Water-oil emulsion EM CD-18 kg</td>
<td>Water-oil emulsion EM CD-18 kg</td>
</tr>
</tbody>
</table>

**Accessories**

<table>
<thead>
<tr>
<th></th>
<th>P 300</th>
<th>P 350</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure + return filter</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Air preparation unit</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Sealing cone set</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

**Options**

<table>
<thead>
<tr>
<th></th>
<th>P 300</th>
<th>P 350</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second chambers are possible</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

**Standard P 300**

- Sealing cone set
- USB interface/port
- Pressure filter 12 µm
- Return filter 12 µm
- Compressed air maintenance unit

**Standard P 350**

- Quick connector set (SSKV)
- Automatic pressure control
- Pressure filter 5 µm
- Suction filter 100 µm
- Anticorrosion additive EM 10 L
- Fluid flow glass
- Integrated tank

**Additional Information**

- Rapid hose clamping system for the admission of up to four hoses with simultaneous checking (variable setting)
- Parallel test lines – four test lines per chamber
- Automatic starting of the given pressure values
- Two test chambers are possible – mirroring (one is loaded while a second chamber is testing)
- Test chamber standard size 3600 mm
- Depending on different factors (flooding time, length + diameter of the hoses) you can test approx. 120 hoses per hour
- Adjustable height
- Fitting cones 3/4” (DN 2.5 – 22 mm) easy to change via simple unlinking (6 different cone sizes are available in standard package)
UNIFLEX cleaning machines effectively remove residue and scale from hose cutting, crimping and press fitting.

**Package**
- RG 10 or RG 2
- Hakapur 21.5 L Cleaning Agent
- Flushing Cone Ø 4 and Ø 8 mm (0.15" and 0.31")

**Accessories**
- Flushing cone SK 3802.4 Ø 2 mm (0.08")
- Suction filter 400.031: RG2
- Pressure filter 600.901 5 μm

We reserve the right to make technical changes without notice. Options are machine parts that can only be ordered while buying the machine.
## Technical Data

<table>
<thead>
<tr>
<th>Technical data</th>
<th>RG 2</th>
<th>RG 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive</td>
<td>Diaphragm pump, 7 bar Air</td>
<td>Diaphragm pump, 7 bar Air</td>
</tr>
<tr>
<td>Maximum flow rate</td>
<td>25 l/min</td>
<td>180 l/min</td>
</tr>
<tr>
<td>Pressure filter</td>
<td>5 µm</td>
<td>10 µm</td>
</tr>
<tr>
<td>Air filter</td>
<td>5 µm</td>
<td>5 µm</td>
</tr>
<tr>
<td>Max. air consumption</td>
<td>100 Nl/min</td>
<td>250 Nl/min</td>
</tr>
<tr>
<td>Working range</td>
<td>up to 1½” ID</td>
<td>up to 2” ID</td>
</tr>
<tr>
<td>Max. length, depending on bore size</td>
<td>2.5 m/8 feet</td>
<td>20 m/65 feet</td>
</tr>
<tr>
<td>Tank capacity</td>
<td>38 L</td>
<td>215 L</td>
</tr>
<tr>
<td>Working area</td>
<td>390 x 750</td>
<td>800 x 1 600</td>
</tr>
<tr>
<td>Cleaning agent</td>
<td>Non-toxic and corrosion-free emulsion, water based.</td>
<td>Non-toxic and corrosion-free emulsion, water based.</td>
</tr>
<tr>
<td>L x W x H (mm)</td>
<td>960 x 435 x 940</td>
<td>2 000 x 840 x 1 050</td>
</tr>
<tr>
<td>Weight (empty)</td>
<td>55 kg</td>
<td>160 kg</td>
</tr>
</tbody>
</table>

### Accessories

- Hakapur 21,5 L - RG 2+RG 10 - concentrated cleaning agent.
- PJ_30.10.76 - RG 10 - Filter cartridge 5 µm
- PJ_30.10.60 - RG 10 - Filter cartridge 10 µm
- 600.4 - RG 2 - Filter cartridge 5 µm
- 600.5 - RG 2 - Filter cartridge 12 µm

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UNIFLEX cleaning machines effectively remove residue and scale from hose cutting, crimping and press fitting.
www.uxinside.net

Training and Certification.

Promote Quality!

Registration

UNIFLEX-Hydraulik GmbH Department:
Service and Training

E-Mail: training@uniflex.de
www.uxinside.net

Online Registration via QR-Code

Specialist workshop for hose assembling
Assembling hose and fittings with safety as priority No. 1

TRAINING CONCEPT

Advanced training is an important investment in the future of a company in order to maintain or enhance quality and safety. As a supplier of machinery for production of hose assemblies, we are continuously extending our product range to meet the requirements of the market. Furthermore, we supply the appropriate material to our customers and we offer training courses, which qualify for production of hose assemblies meeting the high requirements regarding safety and quality. First-Class skilled personnel with expert know-how provide decisive competitive advantages. The production of hose assemblies with the best machines available on the global market ensures quality and safety.

TRAINING

Interesting to know

In 2016, we commissioned a market study showing the following interesting results:

Many manufacturers of hose assemblies are using targeted trainings and practical trainings for the advanced training of their employees.

But only approximately 23% of the employees of those companies are qualified regarding hoses, even though 76.3% of all customers suppose that their supplier has properly trained personnel!

1. HOSE ASSEMBLING

Theory and practice

Target Group

Manufacturers of hydraulic hose assemblies, using UNIFLEX machinery for production. Employees of the hose assembly department, quality control, maintenance and sales departments.

Theory

The participants acquire basic knowledge about

- Types of hose selection
- Rubber and thermoplastic hoses
- International standards and regulations
- Storage and storage periods of hose
- Hose fittings and connection forms

Practice

- Production of hose assemblies with UNIFLEX machines
- Cutting hose
- Marking of hose fittings
- Skiving, internal and external
- Crimping with production and service crimpers
- Cleaning and inspection of the hose assemblies

2. MACHINE MAINTENANCE

Maintenance and repair of UNIFLEX machines

The participants acquire basic knowledge about the functioning of the machines, their maintenance and repair.

Practice

All types of machine maintenance work is carried out by our experienced service staff.

Duration of training

2 days:  Day 1 – basics of hose assembling, theory and practice
        Day 2 – machine maintenance

maximum 8 persons per course

Start: 09:00 h

Cost

Each participant 795,00 €/p.P.

The participation fee includes refreshments, lunch and course materials.

Info and Inscriptions

www.uxinside.net
Experience the Value using UNIFLEX Machines! Share it with your Customer.

UNIFLEX Machine + Certification + Training Your service and sales team. + ULS (UxInside Label)

Hose assembling with maximum safety Certification for Specialist workshop of hose assembling.

Workshop certified.

Specialist workshop for hose assembling

PROMOTE QUALITY!
Where we are and how to reach us.