

**PROFILE SOLUTIONS**

**SOLUTIONS**

**LEAK DETECTION +  
AUTOMATION TECHNOLOGY**

**Worlds fastest single head leak tester  
>17,000 test/hr on one head**

**LEAK DETECTION TECHNOLOGY  
Since 1993**

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See video on YouTube channel : Profile1963



# Leak testers for containers 10ml - 1000L + Technical Parts

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# **BOTTLE PACKAGING SOLUTIONS**

**Profile solutions has supplied a fully automatic bottle palletiser in early 2010 capable of speeds of up to 3000-6000 bottles per hour servicing multiple ASB 50's. Plus another in 2016 and one more in 2017 servicing multiple ASB 70's**

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# 6LD - PREMIUM SINGLE HEAD TESTER



- 0-6L range or 0-10L range
- >9500 tests per hour on one head with SIMPLE stop/start conveyor
- Up to >**17000** per hour with **VACUUM** control options\*
- Finds very small holes
- Worlds fastest single head leak tester.

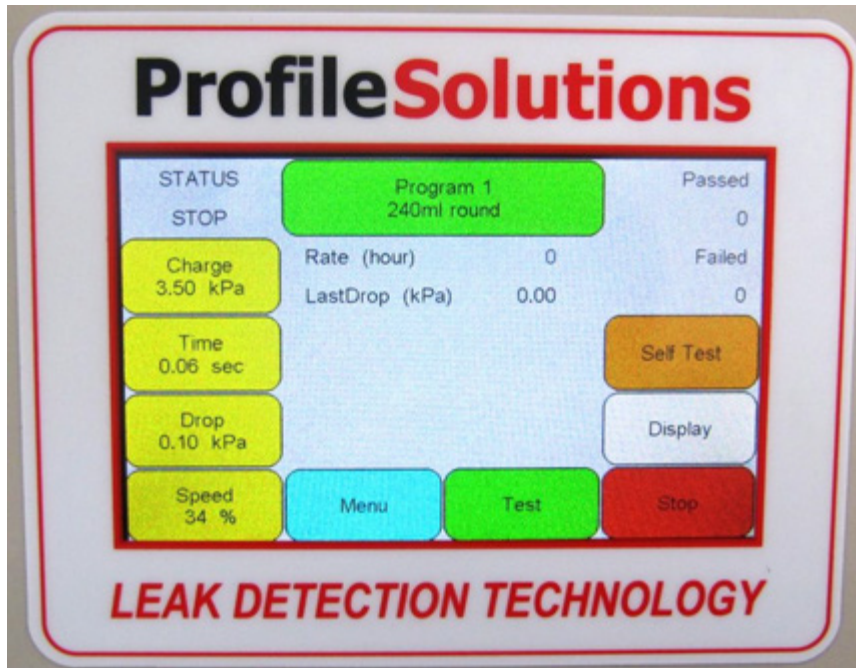
\*special new version of 6LD, current > 14,500/hr. Some will become standard, others will be optional, as not needed for most people unless making small containers at very high speed.

Does the job of many machines 2-3 times the cost on small bottles

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# Front Control Panel for 4LD, 6LD, 30LD, Multi Head



- Easy to use
- Hot keys for prime functions
- Comprehensive menu for options and parameters
- Program updates can be emailed & easily installed
- Serial COM's capability for report option , optional Ethernet

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# 4LD – MEDIUM SPEED

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- Up to 4,500+ bottles per hour on one head with simple stop/start conveyor
- Same accuracy as 6LD
- Finds very small holes
- As fast as some of our competitors high speed models
- Great value for money

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# 2LD – ENTRY LEVEL



New Bigger screen with multi-multi language options



- Up to 3600+ bottles per hour on one head with simple stop/start conveyor
- Same accuracy as 6LD
- Finds very small holes
- Our slowest, but still so much faster than dozens of others
- Great value for money
- **The one you can afford to have on every blow moulder**

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# 4&6LD – Uniloy retrofit, layflat trimmer

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Display can be mounted remotely too.

•Supply box only, leave existing cylinders or with new blow off's and cylinders



- Retrofit Leak testers for Uniloy and any brand of reciprocating screw blow moulder with **layflat trimmers**
- **Better than the ones that came with the blow moulders that only find 0.5mm or 20 thou in.**
- These blow moulders offer little time before testing but we find holes 8-11 thou in.
- Single, double, triple and even quad solutions. A single 6LD card with expansion can control 7 heads.

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# 30LD + LARGE DRUM TESTER

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- For 2 - 30 litre bottles
- Finds small holes
- Manual or with conveyors
- Same accuracy as 6LD
- High level testing of large drums
- Faster closed loop charge to pressure system.
- Drum testers available as manual or fully automatic
- **NEW super fast solutions for steel drums, fill and test in < 12 seconds for 0.2 mm**

- **Drums, steel and plastic to 220L**

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# LARGE DRUM TESTER

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**NEW** super fast solutions for steel drums, fill and test in < 12 seconds and still find for 0.2 mm holes.

↓ - Fully Automatic 250L tester with orientation, rim punching and optional weighing.



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# IBC TESTER – 1000 Litre

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# 30 LD + LDT ROUND DRUM ORIENTATION

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**NOW WITH  
EJECT UNDER  
THE HEAD  
FOR 30LD**

**Plus now multi head  
machines with orientation**



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# 30 LD + With Height Measuring & Top Load, Weighing , hole melting and Bung Insertion

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- PC connection for results of each test
- Proportional Pressure Regulator.
- Transducer for height to +/- 0.2 mm

Weighing, Automatic Hole melting & bung insertion.



Automatic bung  
insertion – 7 systems  
in 2016-2018

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+++ Multi-line Dust cap  
placers for drums.

# 6LD & 30LD MULTI HEAD

- Best for larger bottles 1-30 litres
- Up to 7 heads



Does the job of many machines  
2-3 times the cost

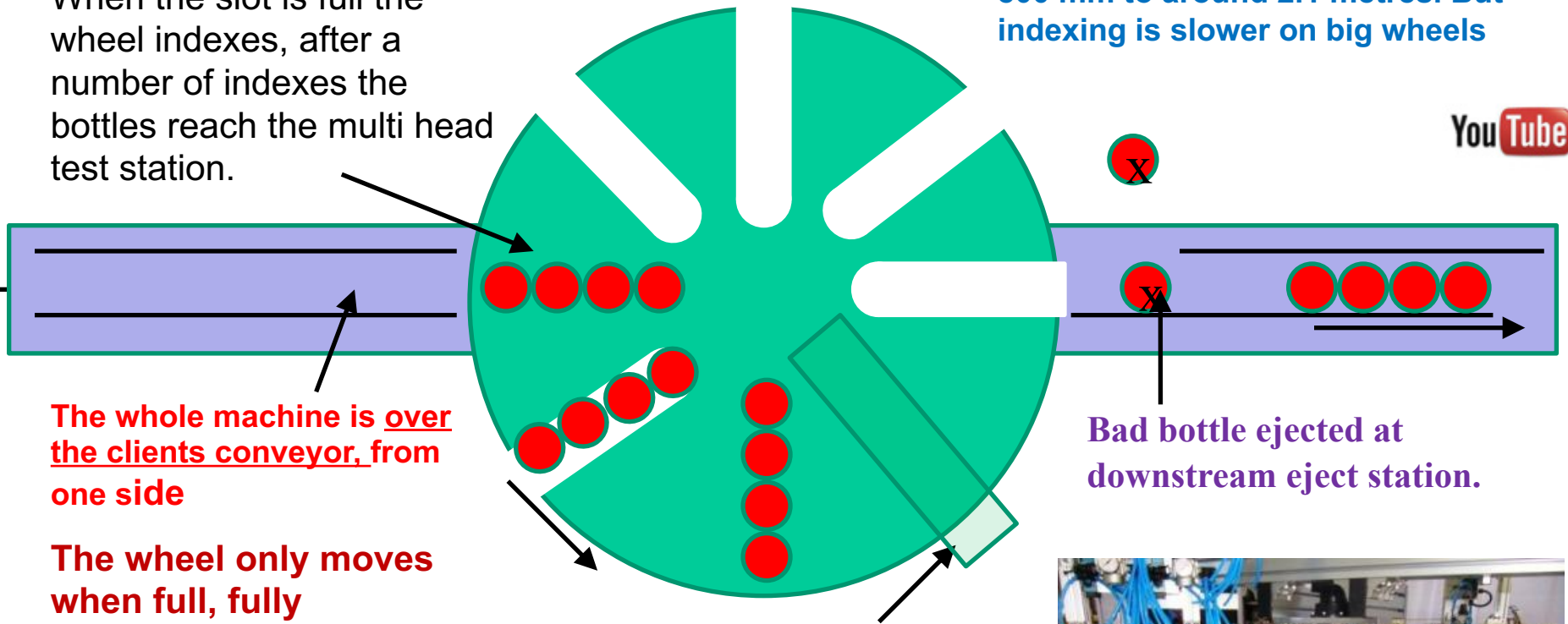
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# Wheel Spacer

When the slot is full the wheel indexes, after a number of indexes the bottles reach the multi head test station.

Wheel driven by German servo drive through a high end precision German gearbox for precision location. The wheel can vary from 800 mm to around 2.1 metres. But indexing is slower on big wheels



The whole machine is over the clients conveyor, from one side

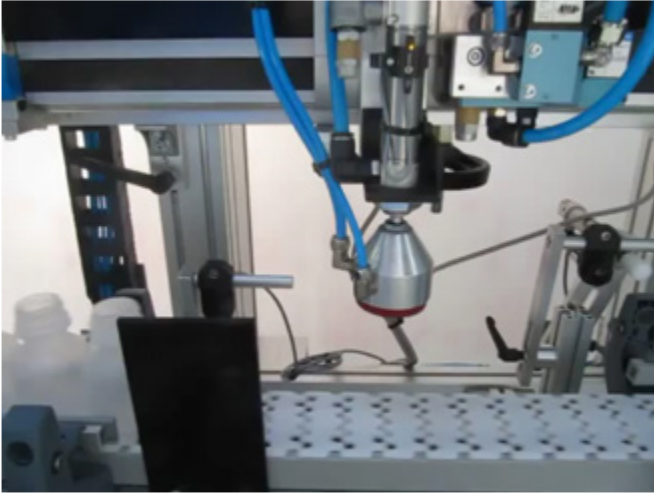
The wheel only moves when full, fully controlled smooth motion.

- **Replaces rotary testers at far lesser cost**

6LD level test heads

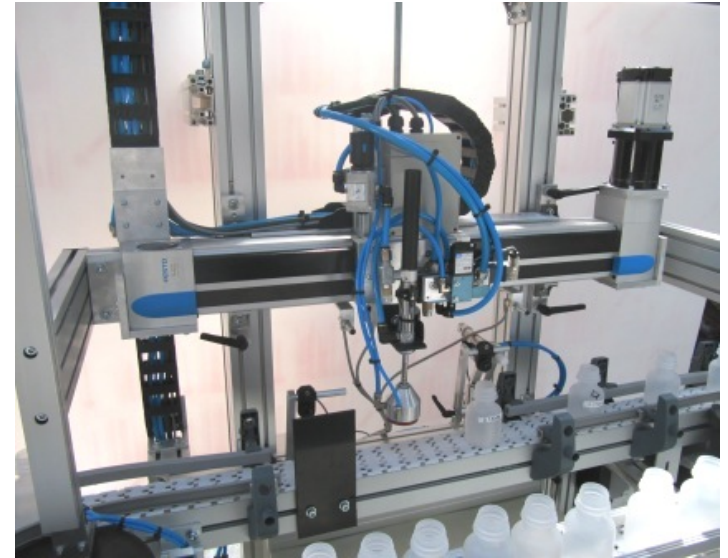
Example – 22,000+ bottles per hour x 240 ml tested by 7 heads on a 1200 mm disc, or 5 head x 1L at > 11,000 per hour.





# TRAVELLING HEAD – MULTI SECTION

- Incredibly fast
- Replaces rotary testers at far lesser cost
- Up to 5 heads each on there own servo linear unit, for highest speed.
- On one head we can test up to 9500+ small bottle per head.
- Two heads to 18000+/hr
- Three heads to 27000+/hr
- Four heads to 36000/hr
- Five head to 45000/hr



Super speed rotary  
testers coming late  
late 2017

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# Travelling head Scroll type

- With feed scrolls
- With vacuum conveyors
- Made to suit what you need
- At K2004, a 3 head on a 240 ml ran at 19,300/hr and 8 head would be > 46,000/hr.
- Optimised screws for small bottles would allow to >52,000 hr



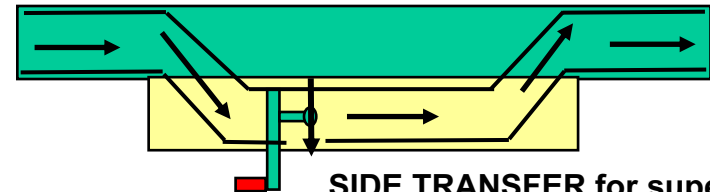
Super speed rotary  
testers coming late  
late 2017

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# FEATURE

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- Modular conveyors
- We can make the infeed and outfeed of your leak tester conveyor to any size you want.
- Or years later if you want to change it our design allows an easy change over



**SIDE TRANSFER** for superior testing

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# OPTIONS ON 6ld+1, MULTI, Traveling

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- Vacuum control for unstable bottles and more speed
- Close up the gaps between bottles
- Tests up to 20%-300% faster depending on the bottle.
- Available in several formats to suit your application.
- Gets the best test rates out of our high level head technology.
- [See videos on YouTube channel : Profile1963](#)



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# TECHNICAL PART TESTER

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- For blow moulded parts
- Injection moulded parts
- Pressure decay.
- Differential







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# NEW RELEASE

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## 2017-18

- Bench top technical part tester range with NEW LEAK3 control.
- With comprehensive, easy to use programmable Jig control, which allows the tester to control many cylinders on a jig which have to work sequentially, no PLC needed!
- More value than available from the current market leaders in this field
- Pressure decay 12 bit and 24 bit resolution.
- Differential with 24 bit high resolution board.
- New expanded PLC to do all the control of jigs inside the unit.



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# OPTIONS

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- Angle neck testers for those toilet cleaner bottles.



- With Inclusion checking deep into the neck.
- Up to 2000/hr on a single when vacuum used, most other suppliers require 3+ heads for these speeds
- Multi-heads available

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# OPTIONS

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- Hot stamp for batch coding
- Weighing



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# OPTIONS

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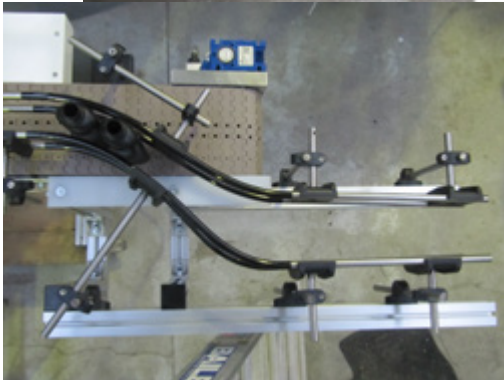
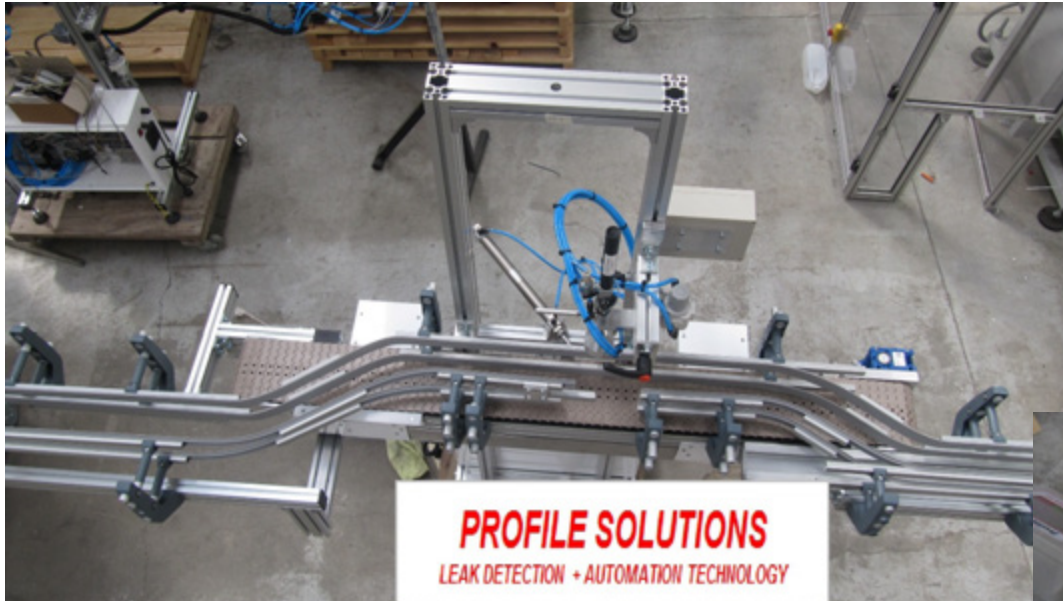
- Compact box Diverter for 4LD and 6LD
- Can handle the output of the 6LD.



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# Handling – Side Transfer

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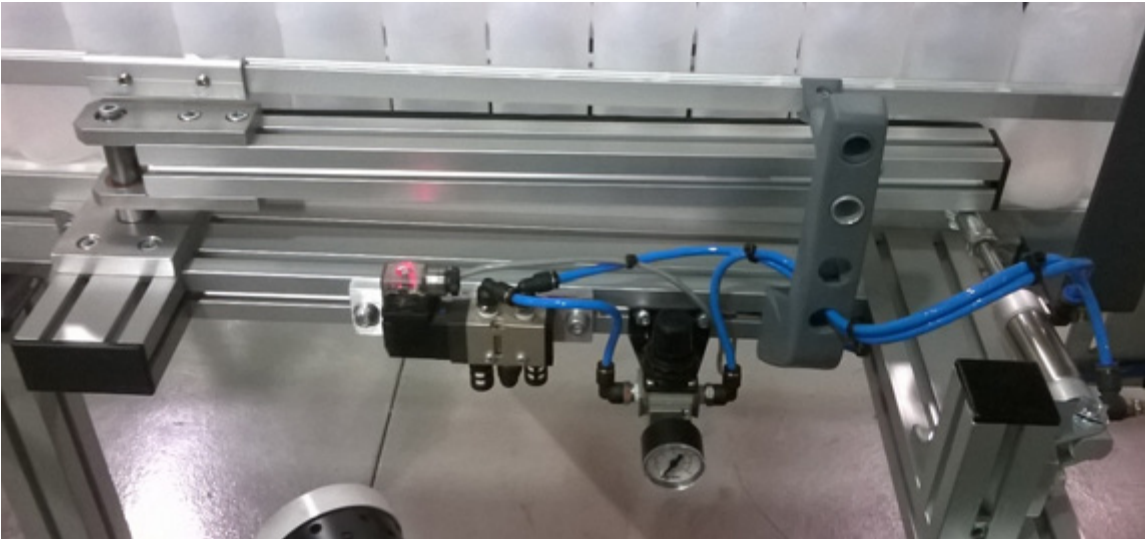
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# Handling

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- Downstream Jam systems to stop product backing into leak tester from labelers and baggers
- Upstream gates to control back pressure
- Overflow gate systems

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# Customisation

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- 75% of our testers have some level of customisation



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# OPTIONS

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- 90 degree infeed with hand wheel height adjustment of conveyor

- Extra up and down stream conveyors



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# OPTIONS – ProfileFlex Conveyors

## Modular Conveyor System

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A special conveyor  
or a complete bottle  
conveyor line.



[www.profileflex.com](http://www.profileflex.com)

This system is sold in  
over 20 countries in  
Europe and Asia, and  
now in North America



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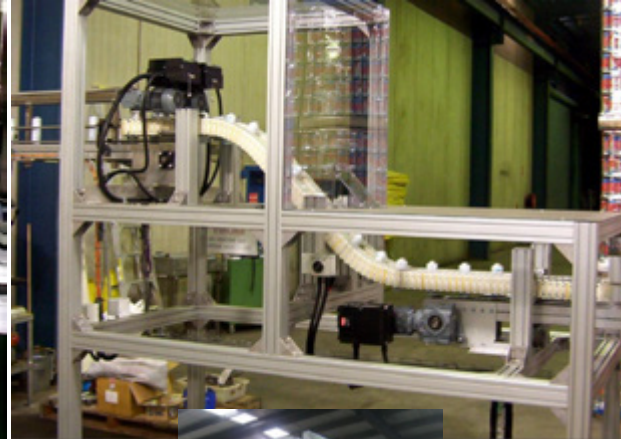
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# OPTIONS – ProfileFlex Conveyors

## Modular Conveyor System

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- Accumulation
- Elevation
- Gripping
- Conveying



•A special conveyor or a complete bottle conveyor line. 100% compatible with 6 sizes of another brand of flexible conveyors and less expensive. Soon [www.profileflex.com](http://www.profileflex.com)

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# OPTIONS – Bottle Lifter

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- Lifts bottles from low to high level.
- Controlled from the tester.
- Lift motion cushioned by shock absorbers for rapid motion.



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# OPTIONS

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- Collation tables
- Box packing via 3 axis robot, for one or many machines.
- **Bottle Weighing**
- Bottle Palletising.
- With Kuka 6 axis robots , palletise by row(s) or full layer, with pallet dispensong, layer pads and even top board + area automation.



# OPTIONS

## Bottle Palletising.

Palletising the output of 4 x Nissei ASB 50 machines simultaneously with **different neck sizes** with a Sepro Robot with 10m stroke.

The 6LD was used to control a **2 axis servo takeout** on each of the Nissei ASB 50 ISBM machines + leak test.



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# OPTIONS

## Nissei takeout.

A 6LD leak tester controller is controlling a 2 axis take-out on a Nissei ASB 50 PET machine with leak testing. **What about your AOKI?**

This uses the 6LD simple background PLC, and had recipe control too.

We can build take-outs for EBM's and other machines too.

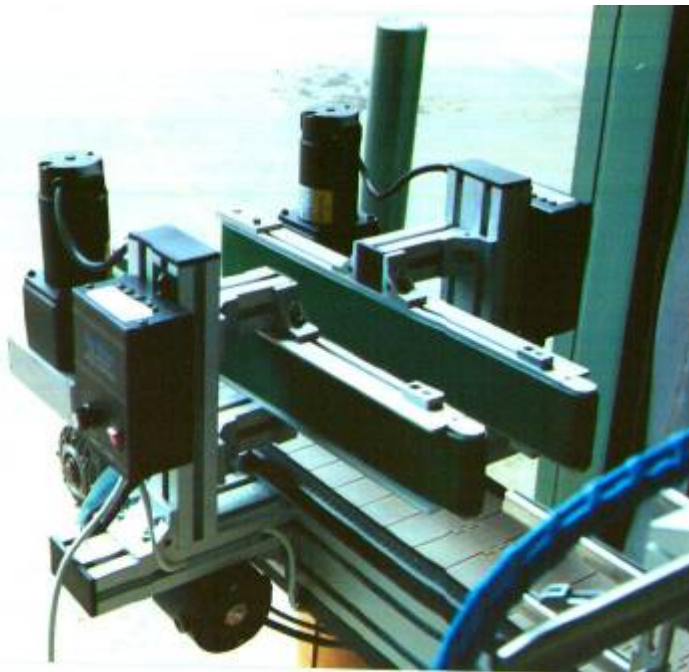
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# WE BUILD SPECIALS ON REQUEST

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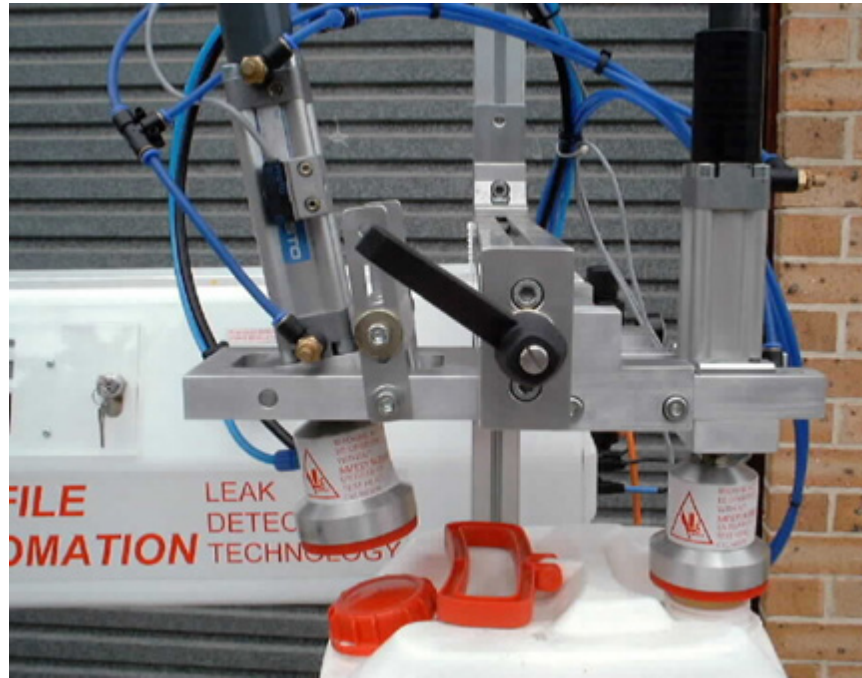
- For example this one.
- Powered outfeed conveyors for driving lightweight bottles into labelers



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# SPECIAL

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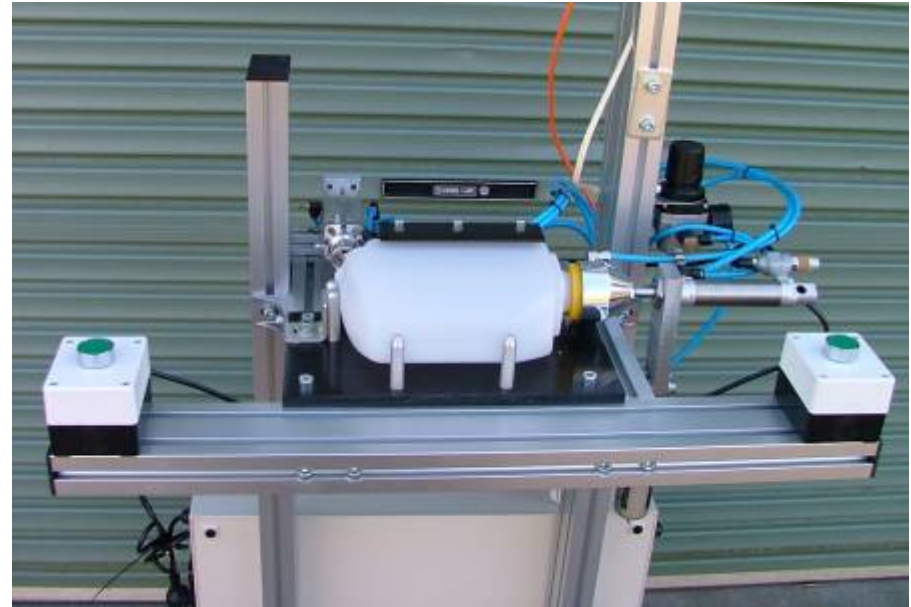
- TWIN HEAD NECKS FOR DRUMS WITH VARIABLE CENTRES AND VARIABLE NECK ANGLES

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# SPECIAL

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- TEST FOR SOAP DISPENSER WITH CAP PUSH AND HOLD WITH VACUUM
- AS IT WAS BUILT ON A STANDARD 4LD FRAME IT CAN BE CONVERTED INTO A STANDARD BY ADDING A CONVEYOR. EXTENDING THE LIFE CYCLE OF THE UNIT

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# SPECIAL

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- 15 -25 Litre Cube Inverter
- Inverts Cube style containers made on bottom blow machines for testing and/or labeling



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# Recycling

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- Upgrading our older testers and many brands
- Upgrade of Tronics shown with 2LD+



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# GALLERY

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- Pictures of interesting applications following

# Profile Solutions at Exhibitions – K, NPE, Chinaplas, Plastimagen



**K2004**



**K2010 below + ALSO K95,2004, 2007,2013 and K2016**



**Plastimagen 2004,8 & 10**



**NPE 2018, 2012 + 2003 & 2006**

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