

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

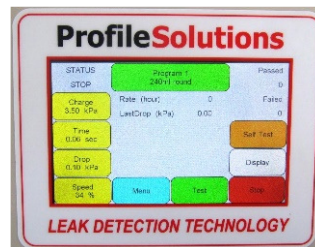
PROFILE SOLUTIONS

LEAK DETECTION + AUTOMATION TECHNOLOGY

See video on YouTube channel : Profile1963



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

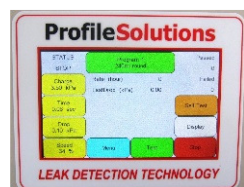


PROFILE SOLUTIONS
LEAK DETECTION + AUTOMATION TECHNOLOGY

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. Plus used 5-6 axis robots for palletising. Complex systems for palletising multiple SKU's of jerrycan

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 **17500+** per hour with **VACUUM** conveyor options*
- Finds very small holes
- Worlds fastest single head leak tester. Fastest per test head.

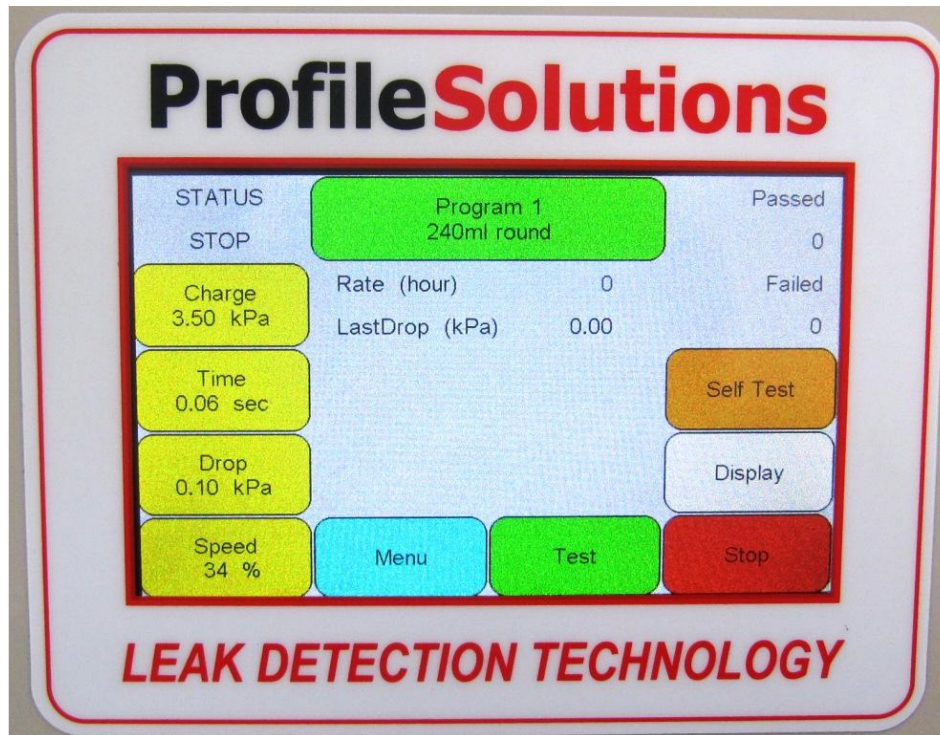
*

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

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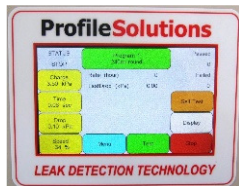
See video on YouTube channel : Profile1963

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 –
- Modbus 2 way interface option.

4LD – MEDIUM SPEED



- 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



- 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**



New Bigger screen with multi-multi language options

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4&6LD – Uniloy retrofit, layflat trimmer

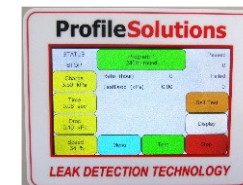


• Supply box only, leave existing cylinders or with new blow off's and cylinders

Display can be mounted remotely too.



- 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, we find much smaller.**
- **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.**

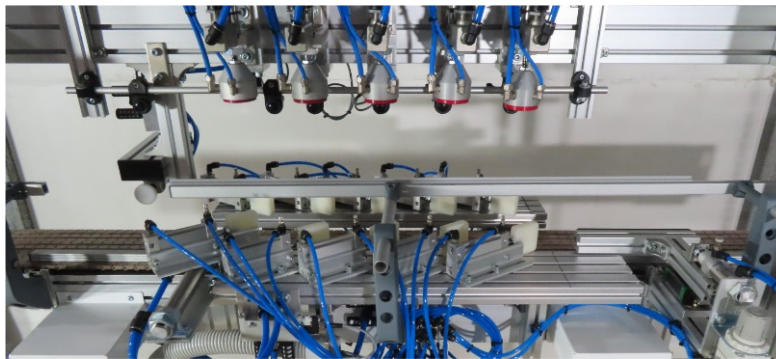


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6LD Single and Multi-head



- For small - 6L litre bottles
- Finds small holes
- Multihead up to 7 heads.
- Extraordinary performance.
- Motorised head movement options.
- Quick changeover options
- Can offer massive capital savings over other solutions.



See many multi-heads on YouTube channel:Profile1963

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30LD Single and Multi-head



- For 6 - 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.
- Multihead up to 7 heads.

LARGE DRUM TESTER



- Systems with **weighing**, rim punching or drilling
- Integrated with tester, and able to send data with ethernet option.
- Manual load and robot load.
- Plastic and steel drums. Low pressure and UN-DOT pressure unit (20-30kpa)
- Also checkweighers.



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LARGE DRUM TESTER



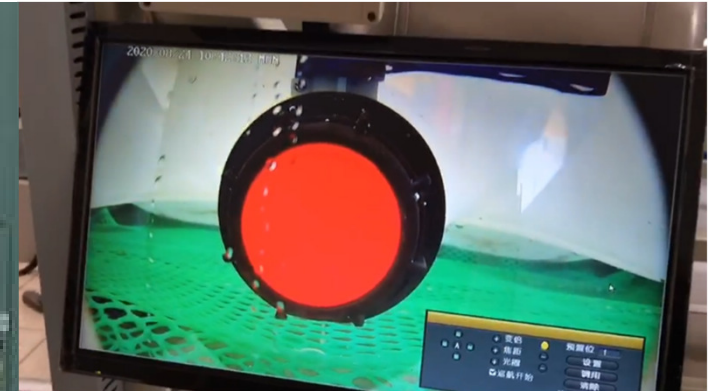
super fast solutions for steel drums, fill and test in < 12 seconds and still find for 0.2 mm holes. Ultrasonic.

↓ - Fully Automatic 250L tester with Weighing, Orientation, Rim Punching (WORP)

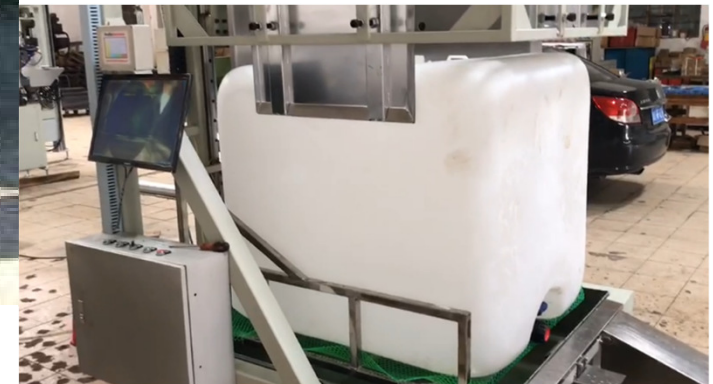


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IBC TESTER – 1000 Litre



- Underwater valve check via viewing camera.
- Plus constrained version for testing without cage.



30 LD + LDT ROUND DRUM ORIENTATION

**NOW WITH
EJECT UNDER
THE HEAD FOR
30LD single
head orientation**

**Plus now multi head
machines with
orientation**

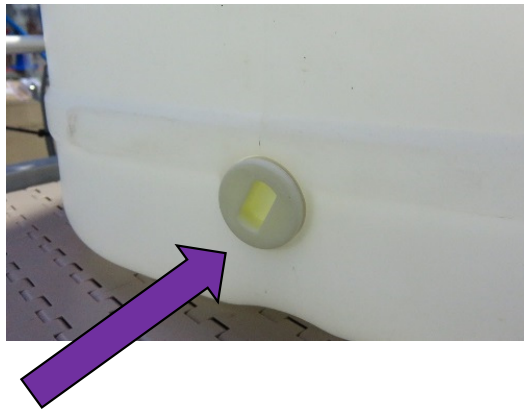


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30 LD + With Height Measuring & Top Load, Weighing , hole melting and Bung Insertion

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

Weighing (On & off or check weigher),
Automatic Hole melting & bung insertion.



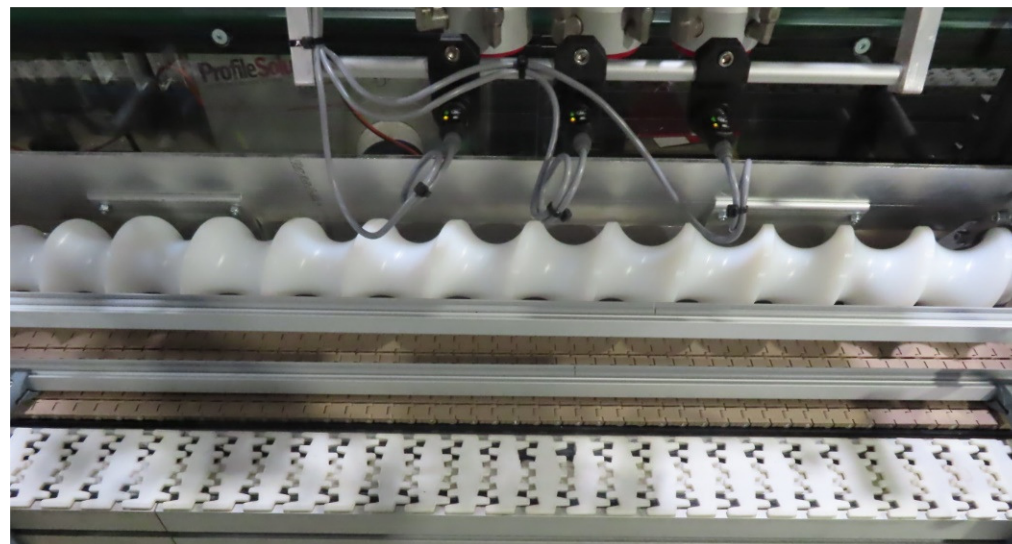
Automatic bung insertion –
8+ systems in 2016-2024.
2 and 4 axis servo.

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

6LD MULTI HEAD- Scroll

- Stop/start index machine with feed screw.
- Up to 7 heads
- Can handle bottles that vacuum cannot
- Up to 10-15% faster testing than normal multi-heads.
- So fast in some cases may save you a rotary like the other multi-heads.
- Extraordinary multi-heads.
- Motorised head movement option.



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

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

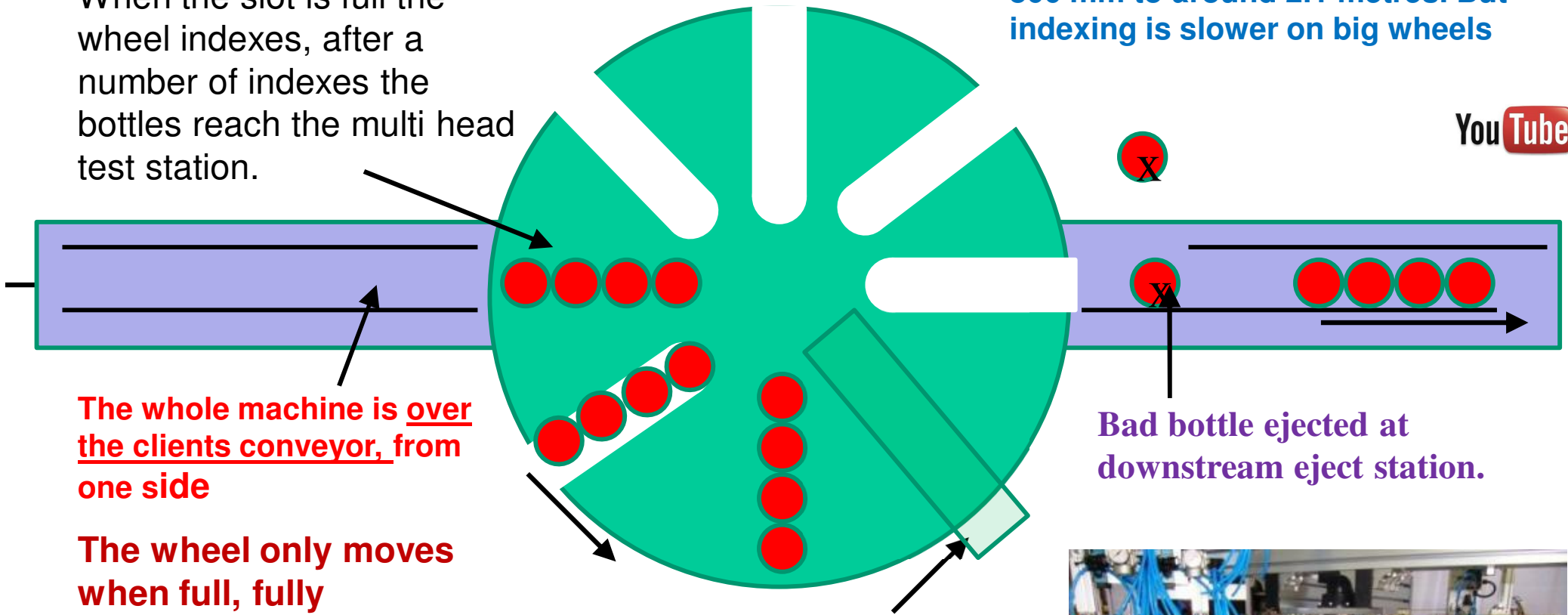
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LEAK DETECTION + AUTOMATION TECHNOLOGY

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

YouTube



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

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

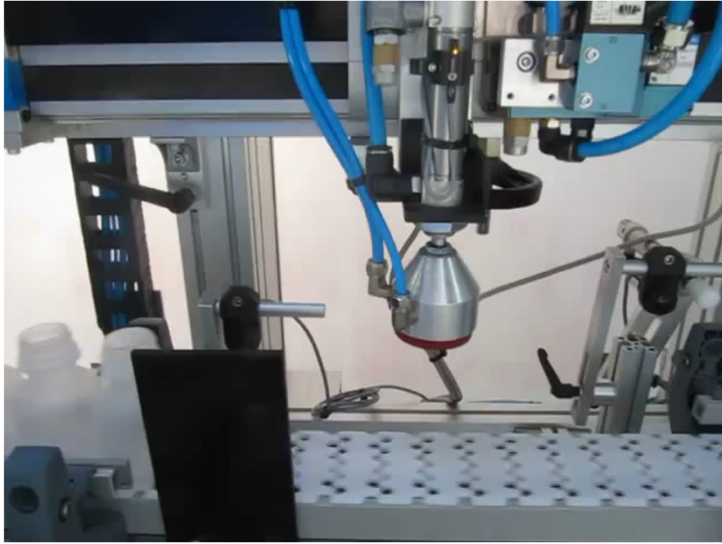
- Replaces rotary testers at far lesser cost.
- Much lower cost change parts

Bad bottle ejected at downstream eject station.

6LD level test heads

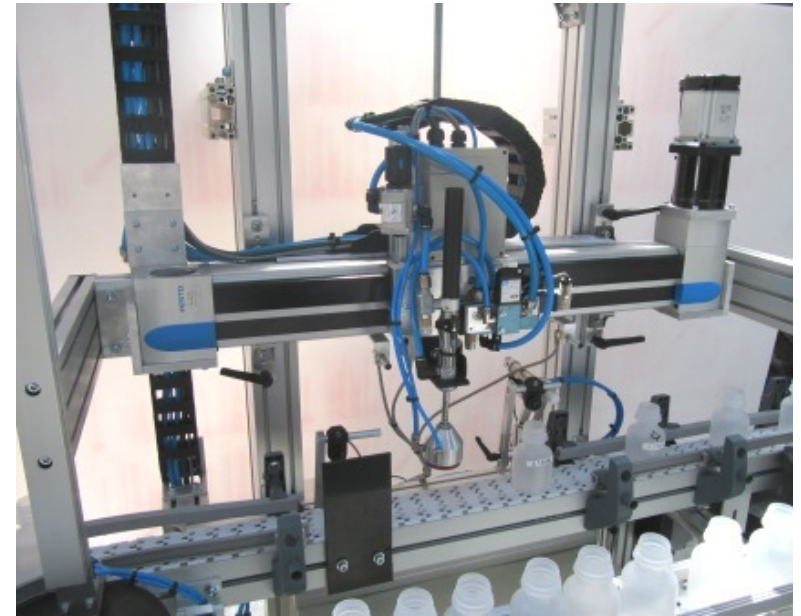
Example – 22,000+ bottles per hour x 240 ml tested by 7 heads on a 1200 mm disc, or 5 head x 1L at > 11,000 per hour.





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



If our high speed testing technology is applied to a rotary tester, twice the speed per test on smaller bottles

PROFILE SOLUTIONS

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 can be made with up to 7 heads.
- Optimised pitch screws for small bottles would allow to >52,000 hr

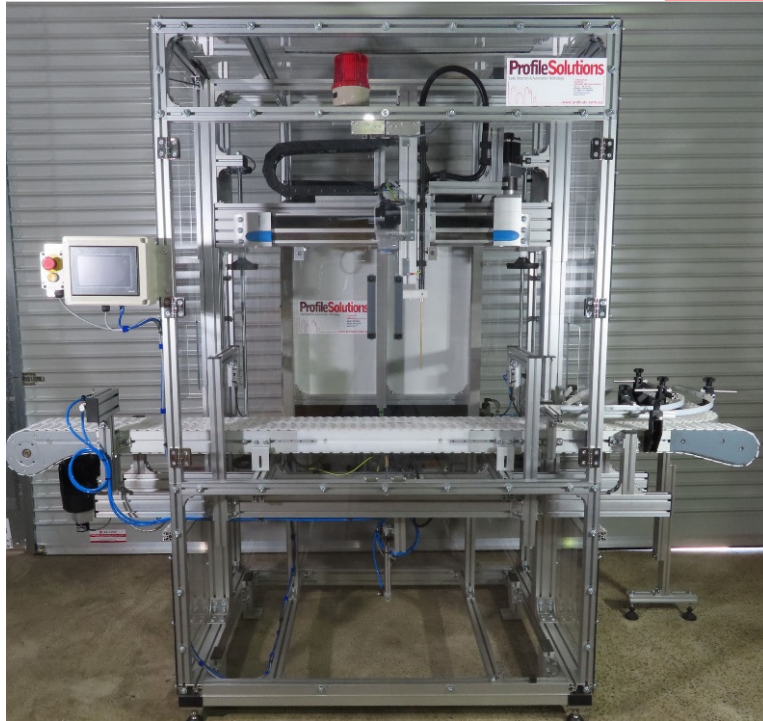


Super speed rotary
testers can be
made as well!!

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Spark tester



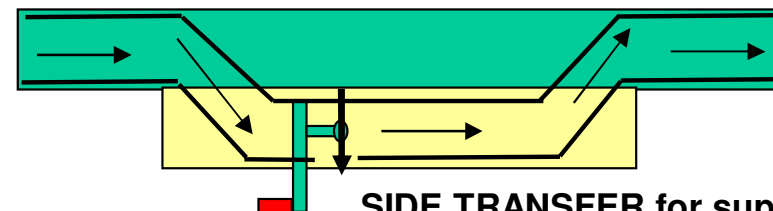
- **Single head up to > 9500+ bottles per hour on small bottle. 2L – 5000-5500 per hour.**
- **Travelling head**
- **Max 60 Kv spark**
- **Finds micro holes down to about 0.001mm**
- **Prime applications.**
- **PET bottle injection points**
- **Testing caps**
- **Medical parts.**
- **Budget stop/start version based on 6LDV**

PROFILE SOLUTIONS



FEATURE

- Modular conveyors
- We can make the infeed and outfeed of your leak tester conveyor to any size you want.
- Or years later want to change direction design is made to make this possible.



SIDE TRANSFER for superior testing

OPTIONS ON 6ld+1, MULTI, Traveling

- 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.
- **We have made hundreds (> 300) of these.**
- [See videos on YouTube channel : Profile1963](#)

TECHNICAL PART TESTER

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





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OPTIONS

- Angle neck testers for those toilet cleaner bottles.
- With Inclusion checking deep into the neck.
- Up to 2000/hr (3600/hr small bottles) on a single when **vacuum** used, most other suppliers require 3+ heads for these speeds.
- **Multi-heads available**



OPTIONS

- Hot stamp for batch coding
- Weighing – static and check weighing.
- Vision systems

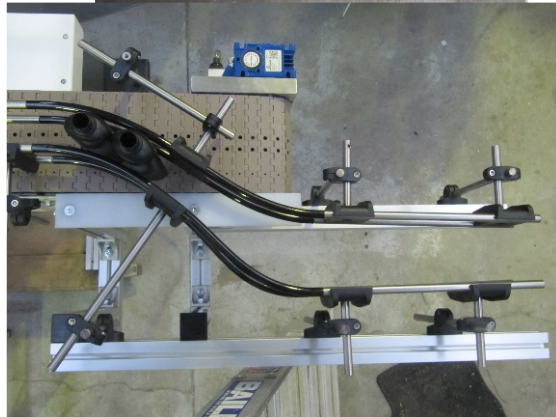
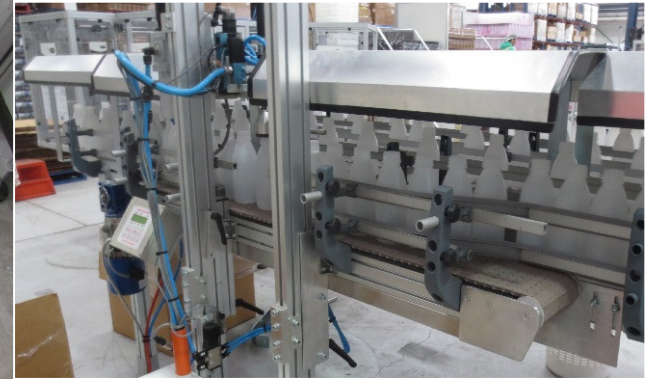
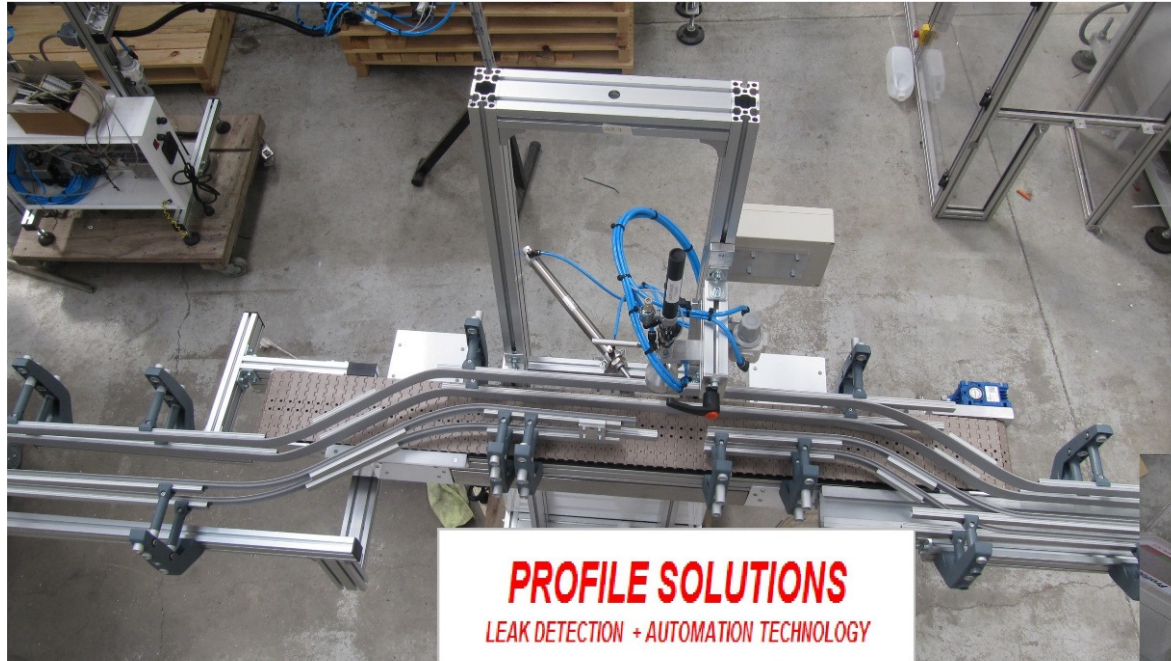


OPTIONS

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

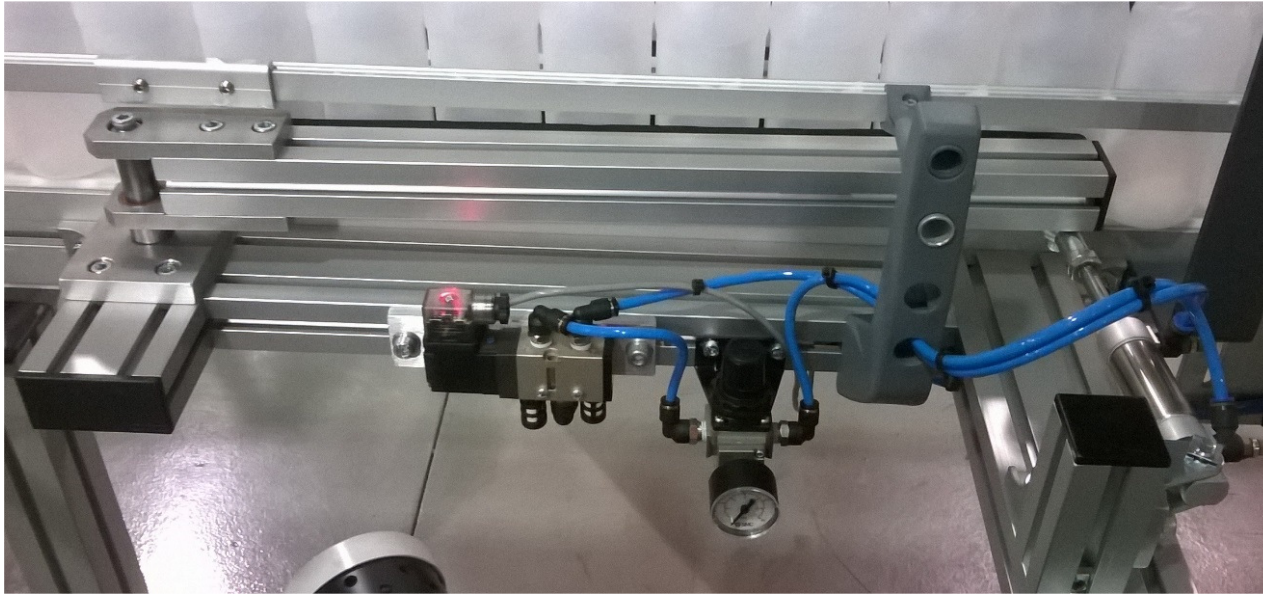


Handling – Side Transfer



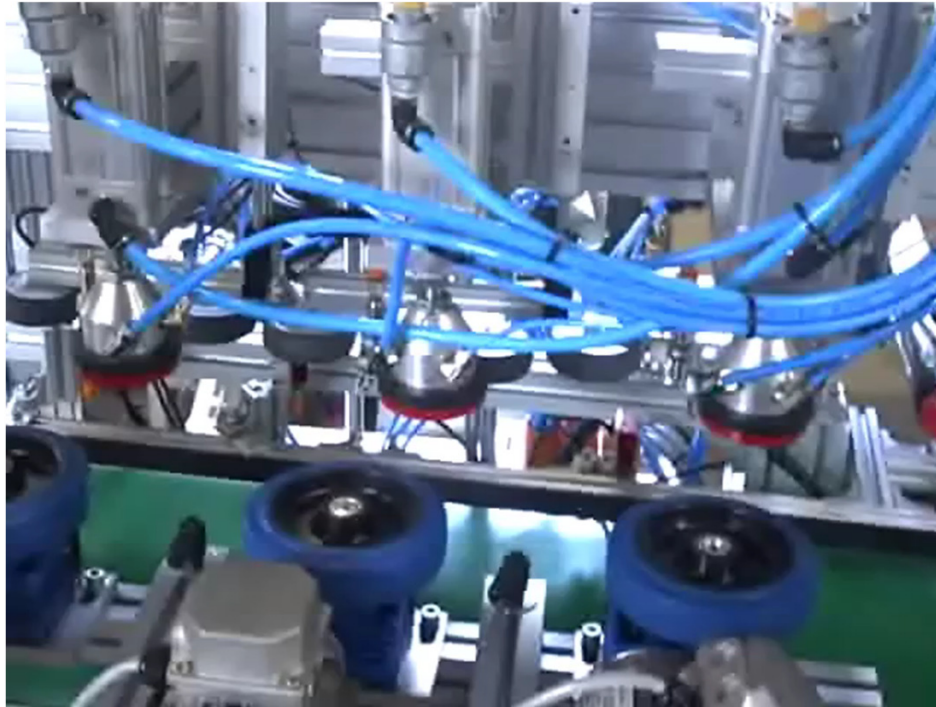
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Handling



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

Customisation



- 75% of our testers have some level of customisation



OPTIONS



- 90 degree infeed with hand wheel height adjustment of conveyor

- Extra up and down stream conveyors



OPTIONS – ProfileFlex Conveyors

Modular Conveyor System



A special conveyor
or a complete bottle
conveyor line.



www.profileflex.com
This system is sold in
over 20 countries in
Europe and Asia, and
now in North America

100% compatible with 11
sizes of Flexlink and >
25% less expensive.



PROFILE SOLUTIONS
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OPTIONS – ProfileFlex Conveyors

Modular Conveyor System



•A special conveyor or a complete bottle conveyor line. 100% compatible with 11 sizes of Flexlink and > 25% less expensive. Soon www.profileflex.com.

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OPTIONS – Bottle Lifter



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

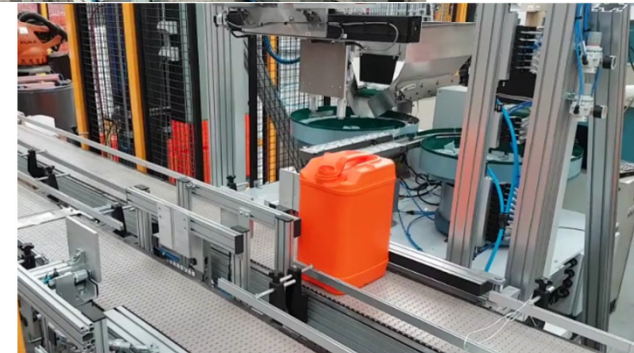
OPTIONS

- Collation & cooling tables
- Box packing via 3 axis robot, for one or many machines.
- **Bottle Weighing**
- Bottle Palletising.
- Semi & Full Auto Bagging
- With Kuka 5-6 axis robots , palletise by row(s) or full layer, with pallet dispensing, layer pads and even top board + area automation.



OPTIONS

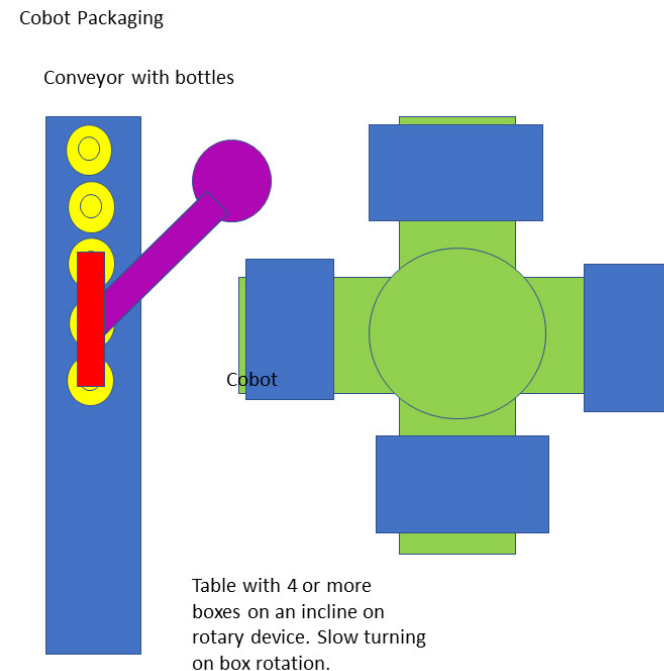
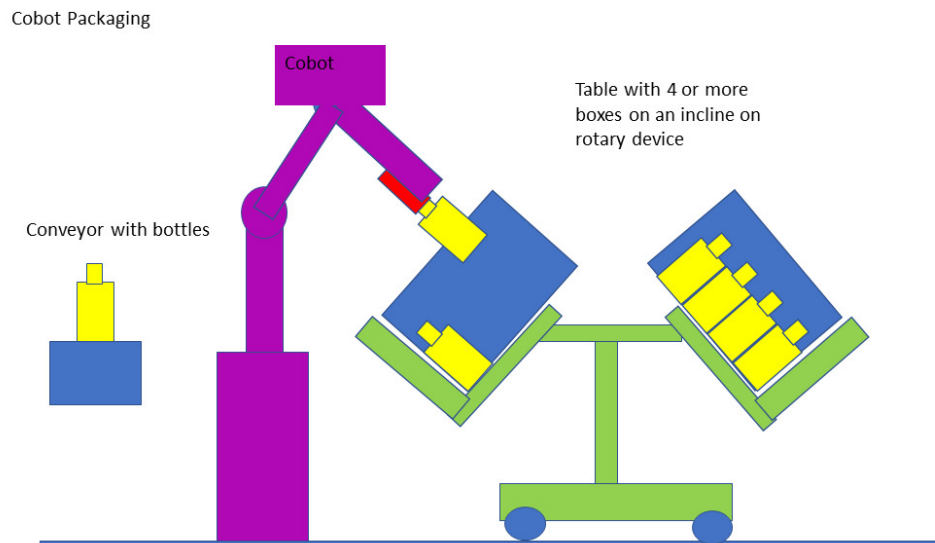
- With Kuka or **Sevro** 5-6 axis robots , palletise by row(s) or full layer, with pallet dispensing, layer pads and even top board + area automation. Pallet dispensers and pallet conveyors.



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OPTIONS

- Box packing with cobots or robots (Omron, Kuka, Sepro)
- Many possible layouts. Rotary or linear box feeders

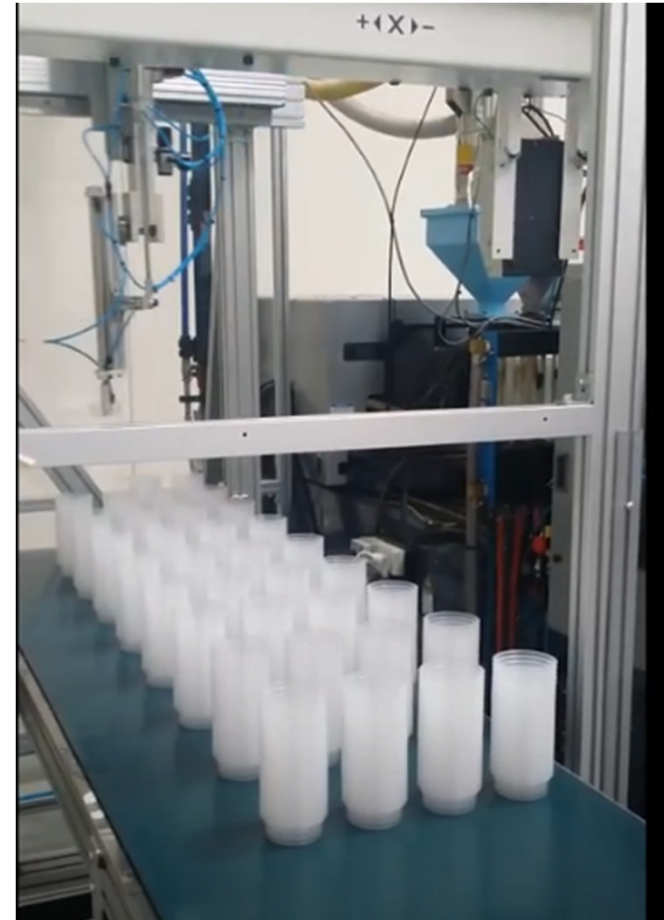
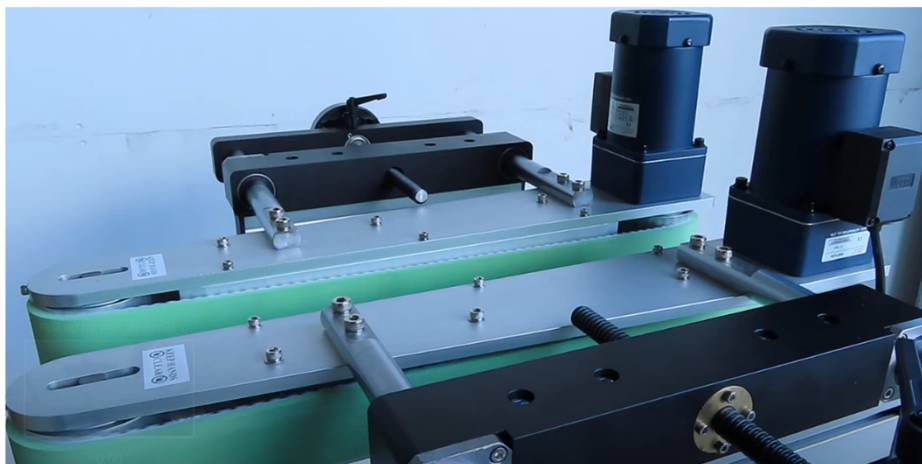


OPTIONS

- Bottle turner – many types



- Side gripper
- Large and small.
- Servo



- High speed servo stackers , less than 3.8 sec cycles.

OPTIONS

- Cooling and Accumulation table
- Cooling via fans
- Cooling by Air conditioners.
- Large mattop accumulation
- Table with infeed and outfeed conveyor and row control
- Over case semi auto tray packers.



OPTIONS

- Tray collators
- Case over packer
- Individually controlled or controlled by the background
- Cooling and collation tables



OPTIONS

- Rotary Index system for caps, parts and small bottles. Special hoppers for small bottles.



- Rotary Index system with weighing module and infeed conveyor control from the injection moulder

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. Several of this type done.

The 4LD was used to control a **2 axis servo takeout** on each of the Nissei ASB 50 ISBM machines + leak test.



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TECHNOLOGY**

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. We can offer systems for ASB 5,12 & 70

This uses the 6LD simple background PLC, and has recipe control too. 4 axes of simple servo control available.

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

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TECHNOLOGY***



OPTIONS

Aoki takeout.

We use the tried and tested Australian made PACWEL Aoki take-outs. They have made around 300 units to date , for single and double row AOKI ISBM's

We offer integration with these Aoki take-outs.

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TECHNOLOGY**



OPTIONS – Controls + Spout Insert

- PLC Control Systems (Any size)
 - Design & Construction
 - PLC Programming
 - Servo Drives, Motor Speed Control
 - Vision Systems



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TECHNOLOGY**

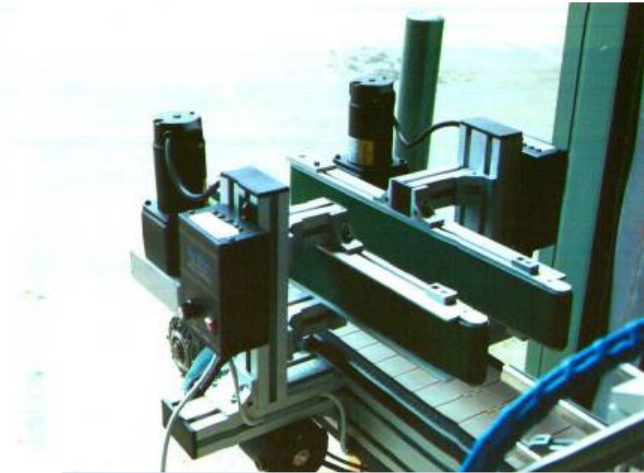
Spout inserters

- Single arm, inserts for up to 25-35+ per minutes, 2 types.
- Double arm up to 45-55 per minute.
- Optional Bulk hopper loader conveyors
- **Assembly machines**



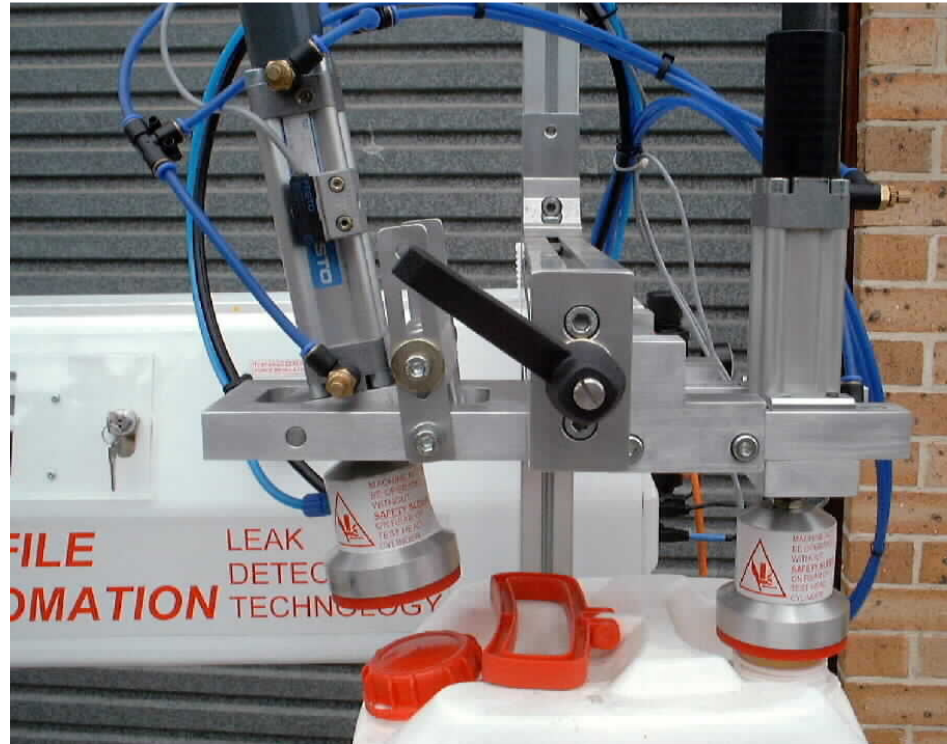
- **Bung Inserters**

WE BUILD SPECIALS ON REQUEST



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

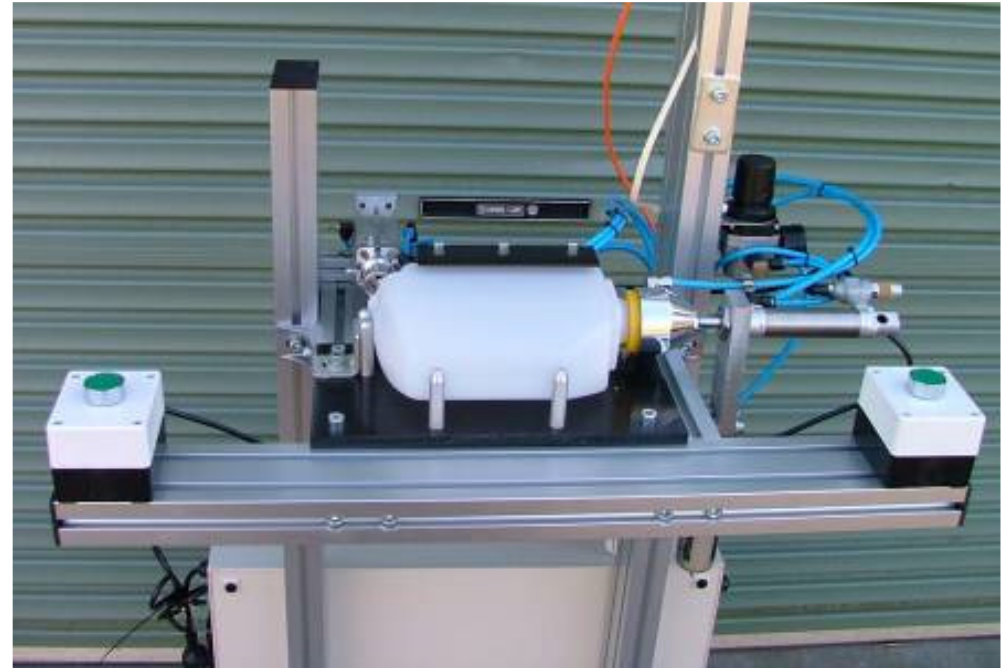
SPECIAL



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

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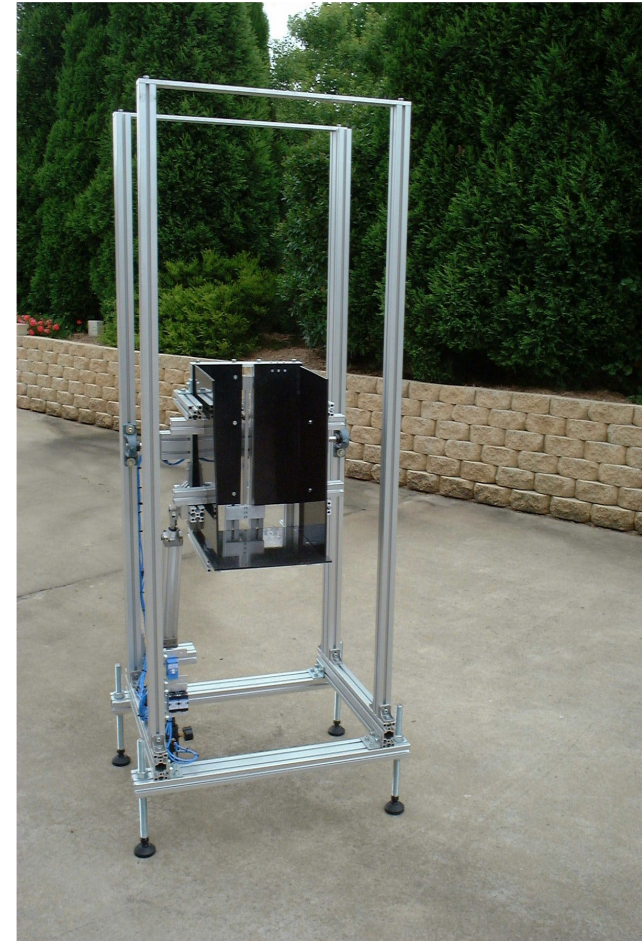
SPECIAL



- 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

SPECIAL

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



Recycling

- Upgrading our older testers and many brands So far Tronics, Sika, Kai Mei
- Upgrade of Tronics shown with 2LD+



GALLERY

- Pictures of interesting applications following

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



K2004



**K2010 below + ALSO K95,2004, 2007,2013
,K2016, K2019 + k2022**

Plastimagen 2004,8 &10



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

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[See video on YouTube channel : Profile1963](#)

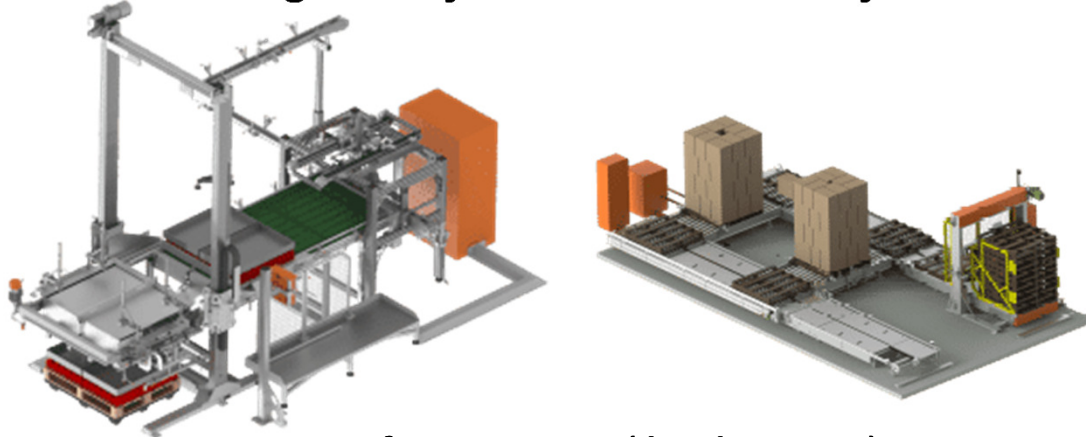
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Solutions Created

- Automation - Custom made machinery & solutions
- Combining locally made machinery and machinery from our partners



www.profauto.com.au (Leak testers)

www.profilesolutionsusa.com

www.mitchellindustries.com (plastic mc)

www.profileautomation.com.au (parts)

<https://www.youtube.com/@PROFILE1963/Videos>

<https://www.youtube.com/@profilenorthamerica4635>

<https://www.youtube.com/@MITCHINDOZ/videos>

ProfileSolutions

LEAK DETECTION + AUTOMATION TECHNOLOGY

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