

PROFILE Solutions

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White Paper – Packaging Gateway

6LD World's fastest head leak tester – Productivity benefits and capital savings.

The 6LD has been the world's fastest single head leak tester in the world for well over a decade. A few years ago we did a peak run at 17,475 small bottles per hour and this can be seen on our YouTube channel PROFILE1963

Many people think at speed we are only find large holes and that's why the rate is fast, this is an error they have made. Profile Solutions uses a 0.18m (7 thou in.) size hole to publish their rates.

At shows people have told us they did not believe we could do it.

Sometimes being a supplier from the bottom half of the world where 10% of the population lives we get overlooked, but this is at your cost to do so. We have exported to 35 countries to date. We have had a subsidiary in the USA for almost 3 years now.

Many other use 0.2mm or larger hole size. Even the difference between 0.18 to 0.2 mm may mean having to de-rate a 0.2mm test rate by 10-15% to compare to a 0.18mm rate. So be careful when rates are quote on even small hole size difference.

We use this size, as there hard wires are available that are used to clean glue gun nozzles that allow you to make tiny test holes more easily and far for lower in cost that uses a small twist drill.

So what are the benefit of a high speed single head?

- Simpler operation on one head. On stop/start multi-heads you have gate and gap cylinder to adjust and more adjustment. So less skill level and training are required to run them.
- The speed of single head leak testers was extended by the use of vacuum conveyors and we start making these in 2006, and found on some bottle like a 250ml we could go from a test rate of 3500/hr to > 10,000 due the superior handling. We have supplied well over 100 unit like this, and the demand is increasing and we have done a lot of R&D to get the best suction from the vacuum fan. **So it extends the limit where you need a multi head. In some case 3+ times.**
- Relatively inexpensive. **I have been to factories where moulders have paid up to 3 times the cost of this unit do the same job, as fast single head.** It's hard to get capital approved and the fast single head lowers that benchmark
- An example on a 20 oz., 600ml Gatorade bottle is we can test for 0.18mm hole at 6280 bottle per hour and you can see this on YouTube PROFILE1963. Our competition need a 3 head single section traveling head/speed glider style, we are 40% of the cost, and no change parts. Or a 2 section multi section travelling head and the cost ratio savings are the same.

So what are the benefit of a high speed multi-head?

- Less head, less capital cost

- An example on a 20 oz., 600ml Gatorade bottle is we can test for 0.18mm hole at 11,180 bottle per hour one 3 heads and you can see this on YouTube PROFILE1963. Our competition need a 4 head single section traveling head/speed glider style, we are 40% of the cost, and no change parts. Or a 3 section multi section travelling head and the cost ratio savings are the same.
- The benefits get even larger when you put this test head circuit in any style of travelling head or rotary. A 3 head multi section travelling head on bottle up to 200ml could easily test 24,000 + bottle per hour. This is normally rotary territory. So this extends the limits where you need to buy a rotary. Rotaries have very expensive change parts and if you can avoid going there why not.

In summary high speed test head technology per head at any level leads to simpler operation and very substantial capital savings.