

PROFILE SOLUTIONS

LEAK DETECTION + AUTOMATION TECHNOLOGY

ACCURATE, FAST, CONSISTENT, QUALITY ASSURANCE

High Performance Sprue Pickers with 0.3 sec takeout time.

Profile Solutions has released two new high performance sprue pickers. This is in addition to our world leading leak testers that can test up to 11000 small volume bottles on one test head, Profile Solutions have experience with making fast & reliable machines.

Unit 1 – Standard products unit

Unit 2 – High speed unit



with the option of 90 degree wrist and vacuum unit has 550 mm stroke. Larger strokes of 650, 750 and 850 mm are available upon request.

The machines controller has 2 inbuilt programs that can be copied and modified. The unit can store at least >25 programs. The electronics are based on the variant of the boards we have used in our leak testers for many years.

The controller has a simple statement style language and functionality like a simple PLC. The unit has spare I/O for working conveyors or granulators.

In the design - Profile Solutions have used only high quality components and designed the unit in such a way that it will last as well as being easy to use.

The high speed unit is able to do a basic takeout in > 0.3 seconds which is very fast. Also this unit is designed in such a way that it is ready for the next part in < 2.8 seconds after swinging and releasing the part in high speed mode.

This unit has a 500mm max. stroke, but we can also make shorter stroke units to go on small injection moulding machines.

Given that many high speed injection moulders do small low shot weight technical parts on very short cycles, especially on electrical injection presses we saw the need to offer such a unit.

The high speed unit only grips the sprue or parts for removal.

The standard unit has a longer takeout time around 0.6 -0.7 seconds and can handle a higher payload up to 1.5 -2 kg and is also available



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MODEL	High Speed Model PS5-EX	Standard Model PS55-ST
Stroke	500mm, smaller on request.	550, 650&750mm
Swing Motion	50-90 degrees on operator and non-operator side.	
Swing Motion	75 mm in a 320 mm range	
Payload	150 grams	1.5 kg
Wrist	Special Request	Standard Option
Vacuum	Special Request	Standard Option. Can be supplied as suction only or with air eject. Has adjustable vacuum switch.
Spare I/O for users functions like conveyor control.	Yes	
Simple PLC control of I/O	Yes, 2 in built programs, user configurable programming capability. Store 20+ programs and download via to PC. Our technology allows future programs to be sent via email and be downloaded into your sprue picker via any Windows PC without additional software	
Working Pressure	6 bar, 87 psi	
Power Supply	90 –265V AC single phase	
Power Consumption	1 amp	
Weight	Approx 55 kg	
Air consumption		
Min take out time	> 0.3 sec, maybe as low as 0.25 sec	0.6, 0.8, 1.0 sec
Min Cycle time	2.75 sec (20-25 cycles per minute	3.5, 3.7, 4.0 sec

TECHNICAL NOTES:

- 1) Control & Display is a 4 x 20 character LCD display with 24 keys in a user friendly remote pendant. All error messages in plain text.
- 2) Sprues and Moulding can be removed from the fixed or moving half of the mould, and deposited on either side of the machine.
- 3) The complete unit can be swung out of the way to allow moulds to be changed.
- 4) Alternative grippers can be supplied on request.
- 5) If compressed air fails the air in the vertical arm is locked into the cylinder preventing arm dropping.
- 6) Adaptation to the injection moulding machine via mechanical interface VDMA 24466, standard Euromap E5, E6 & E7 and electrical interface VDMA 24465? Euromap 12/SPI
- 7) The user can easily perform their own installation and commissioning

SPECIFICATION SUBJECT TO TECHNICAL ALTERATIONS