

LIAM: Lancet Inspection & Assy

A fully automatic stand alone assembly station complete with needle sharpness and protrusion inspection

Features:

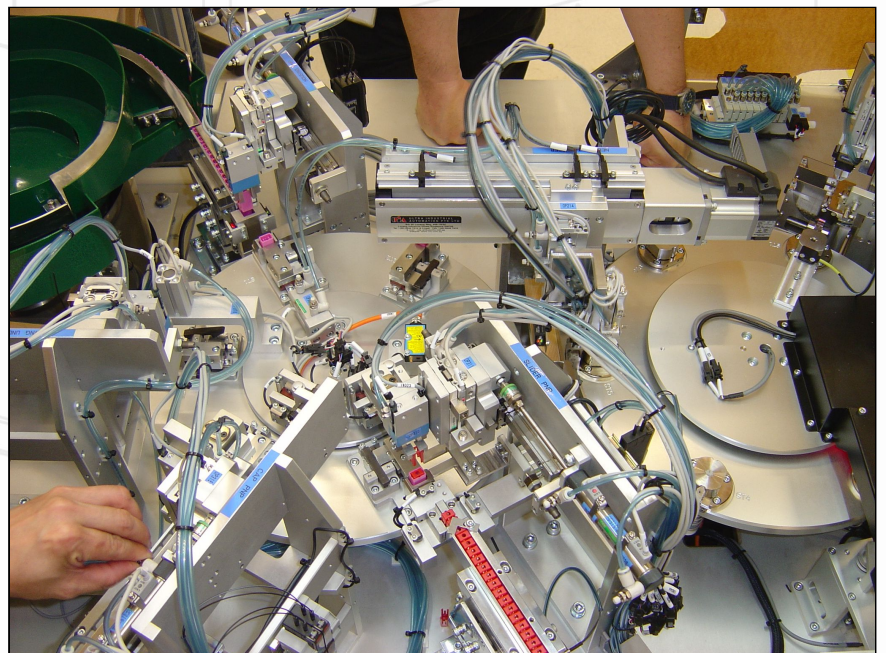
- 3.3 seconds per complete Lancet
- Automatic spring detangling machine (MAFU)
- Three stage insertion, (needle insert, check offset, complete insert)
- Vision software to check 180 degree rotational needle point sharpness
- Fully enclosed with clean room HEPA filtration
- Diagnostic "one cycle" software to check process and set up
- Full diagnostic history with image for "pass & fail" and process verification



The **LIAM** is complex assembly machine designed around two eight station rotary tables.

Table one:

- measure height of needle prior to insertion using Getech software a vision system
- insert needle to holder (needle sub-assembly), then check height
- check if needle is damaged after assembly into holder getech software a vision system
- Transfer "passed needle sub assy" or reject failed load housing



GETECH AUTOMATION PTE. LTD.

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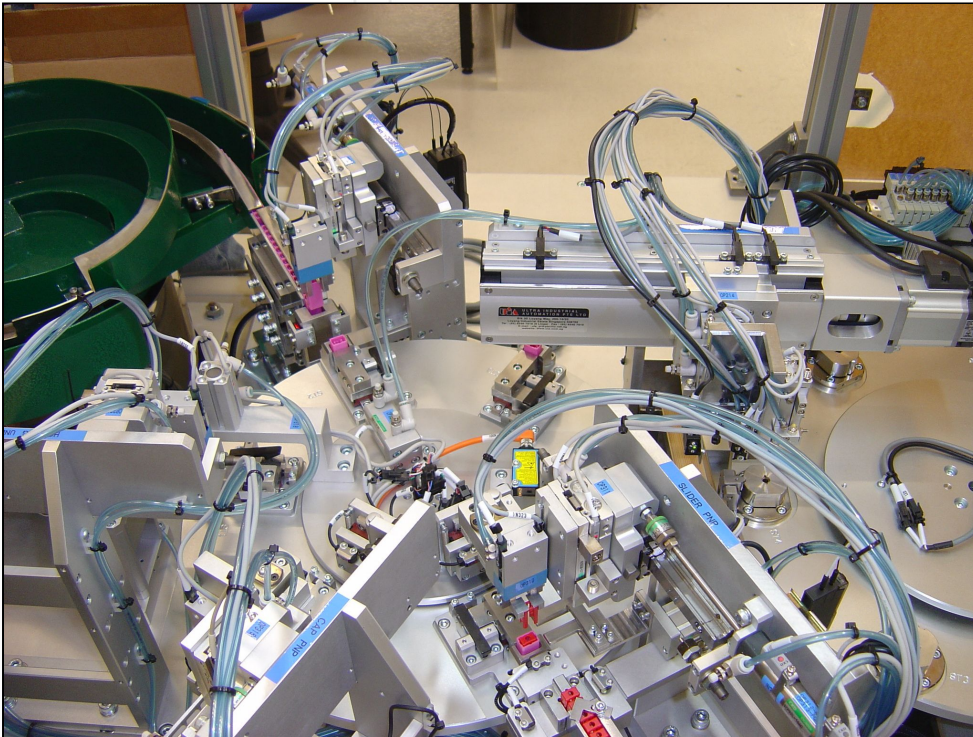


Table two

- place housing and check colour of housing for verification
- insert detangled spring (MAFU) into housing
- insert needle sub assembly onto spring and check height to verify latched into spring
- insert slider into housing and "arm"
- check if assembly has triggered
- place cap onto housing, check colour of housing

Sensors are used through out to determine part present and in the correct orientation.

Machine general specifications	
Cycle time per LANCET	<3.3 seconds
Number of rotary tables	2 each with 8 station
Number of motorized axis.	7 axis.
Positional Accuracy/Speed	0.1mm / Positional speed up to 500mm per sec.
Number of pneumatic axis	22 with soft stop
Parts loading	Vibratory bowl / MAFU spring de-tangle machine
Vision software	Getech vision software for needle form and bluntness
Machine External Dim.	1.3(L) x 1.2 (D) x 1.7 (H) (Approx, depending on tray size)
Options	Manual loaded spring tubes/trays

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