

**Pick & Place Machines for
Fine Pitch Surface Mount
Components**

**Motorised Lowering of Fine
Pitch Components, eg TQFP
160, 0.3 mm Pitch, for
Highest Precision**

Excellent Cost/Benefit Ratio



Features

The FP 904 range combines two different aspects. On the one hand the free movement of the original Pick & Place arrangement and on the other the stringent requirements regarding accuracy needed for the placement of Fine Pitch components. This allows ordinary SMDs and Fine Pitch components to be handled by the same machine. To meet the requirements of Fine Pitch all parts of the Pick & Place machine, contributing to its accuracy, have been re designed. For example, the bearings have been adjusted to suit the higher precision and a motorised lowering of Fine Pitch components has been introduced.

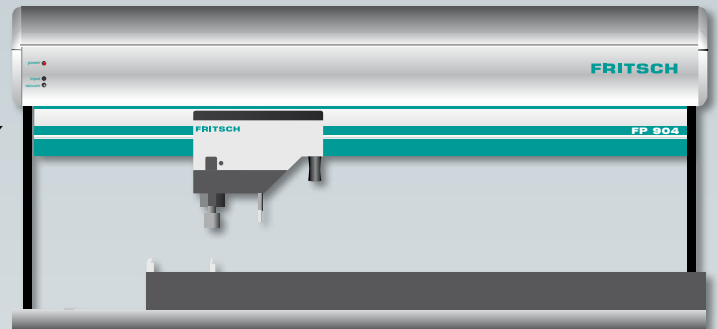
How it works

The FP 904.222 allows you to pick and place ordinary SMDs with the left arm. The right Pick & Place arm carries the Fine Pitch Adapter. Simply pick from the component pre centring fixture, roughly align and make fine adjustments by using the X,Y micrometer adjusters, place - done.

FP 904.110

Basic version for picking and placing of Fine Pitch components down to 0.3 mm pitch, with integrated Fine Pitch Adapter, X,Y Table, Locator Arm and Handrest, X,Y Locking.

Size of PCB 245 x 320 mm



FP 904.210

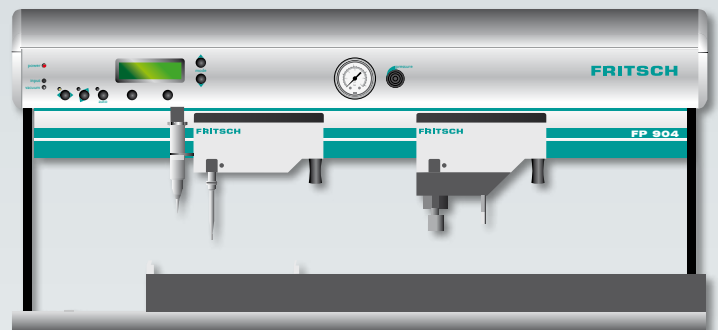
Same version as FP 904.110, expanded 100 mm

Size of PCB 245 x 420 mm

FP 904.222

Fine Pitch Pick & Place machine with integrated solder paste/adhesive dispensing and X,Y Locking. For handling ordinary SMDs and Fine Pitch components down to 0.3 mm pitch, with the second arm, which has an integrated Fine Pitch Adapter and X,Y Locking. X,Y Table and Handrest.

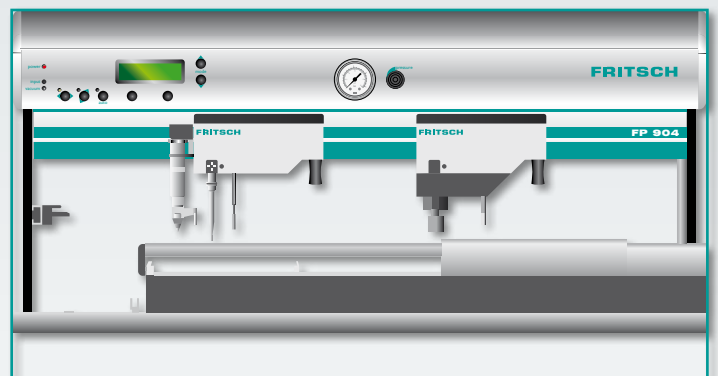
Size of PCB 310 x 420 mm



FP 904.320

Semi Automatic Fine Pitch Pick & Place machine for ordinary SMDs. Second arm with integrated Fine Pitch Adapter and X,Y Locking to suit QFPs down to 0.3 mm pitch. X,Y Table and Handrest.

Size of PCB 370 x 305 mm



FP 904.321

Semi Automatic Fine Pitch Pick & Place machine with integrated solder paste/adhesive dispensing for ordinary SMDs. Second arm with integrated Fine Pitch Adapter and X,Y Locking to suit QFPs down to 0.3 mm pitch. X, Y Table and Handrest.

Size of PCB 370 x 305 mm.

Please Note:

The illustrations above do not show Locator Arms or Handrests.

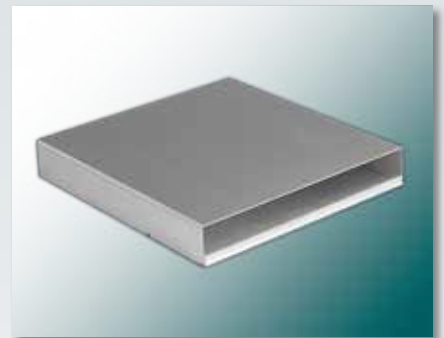
Component Pre-Locating Fixtures

For the Pre-location of Fine Pitch Components for FP904 Pick&Place Machines.

- 945.001** Pre-Location Fixture Housing
For the mounting the individual component nests.
- 945.084** Pre-Location Insert PLCC 84
- 945.100** Pre-Location Insert PQFP 64, 80, 100 EIAJ
- 945.101** Pre-Location Insert PQFP 100 JEDEC
- 945.120** Pre-Location Insert PQFP 120, 128, 160, 208, 256 EIAJ
- 945.132** Pre-Location Insert PQFP 132 JEDEC
- 945.144** Pre-Location Insert PQFP 144 EIAJ
- 945.196** Pre-Location Insert PQFP 196 JEDEC
- 945.240** Pre-Location Insert QFP 240 MQUAD
- 945.901** Pre-Location Insert, custom made
- 944.316** Tray Support for presenting components in trays.
Dimensions: 316 x 316 mm for up to two trays
- 944.136** Tray Support for presenting components in trays.
Dimensions: 136 x 316 mm for one tray



Component Pre-Locating
Fixture with Insert



Tray Support **944.316**

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