

QM1100-B

FULLY AUTOMATED TABLETOP PICK & PLACE MACHINE



A remarkable and economical Pick & Place machine intended for small batches & SMT prototype projects.

Features and Benefits

- Teledyne DALSA Vision System
- Two Heads for pick up
- PCB Fixture max size 12"(304mm)×12"(304mm) capable of holding one JEDEC Tray once PCB.
- Operates with pneumatic feeders, 20 ports installed in the front side, 20 more ports optional (for rear side)
- One up looking camera for part inspection before placement.
- One Down looking camera for Fiducial Recognition & feeder set up.
- Placement rate 3,000 Parts Per Hour
- Paste dispenser option available, for Auto dispensing
- FESTO Dual linear guide way with Ball Screws.
- Two day training session at SMTmax included



The QM1100-B is a fully automated pick & place machine intended for SMT manufacturing and producing prototypes, developed by SMTmax in Chino California. This remarkable, highly flexible and economical pick & place machine provides the need for a machine that produces small batches & prototypes for the SMT industry.

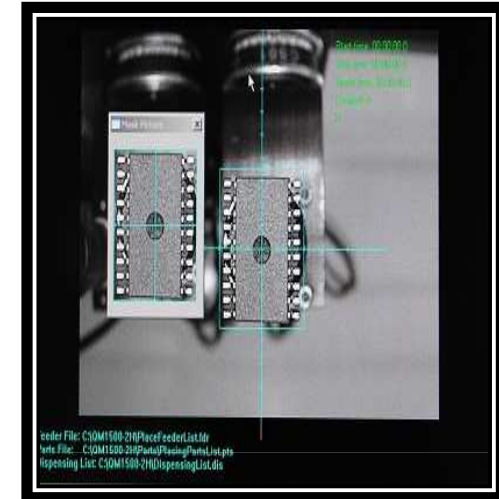
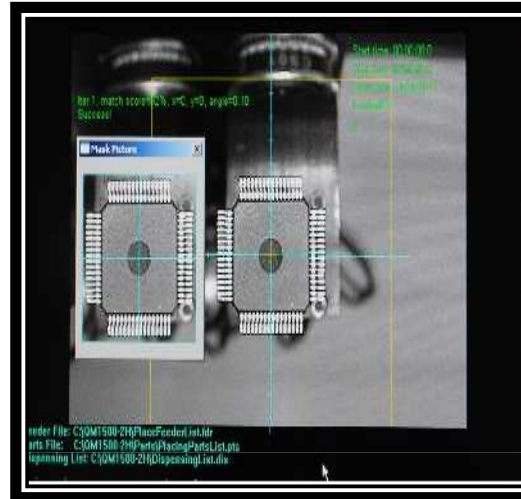
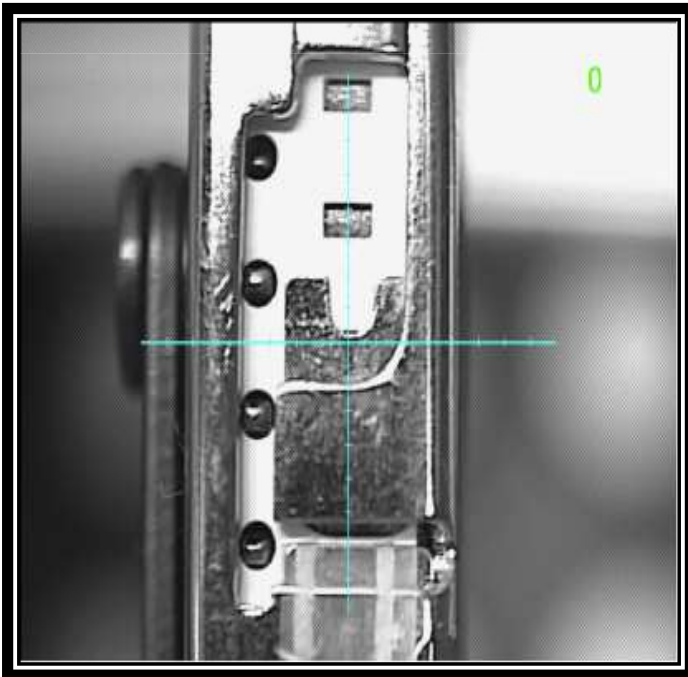


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High precision with Dalsa Vision system and camera

The QM1100-B is standard equipped with the latest generation Dalsa Vision system, which gives you repeatability and alignment correction before placement. One down looking camera is standard for fiducial recognition and feeder alignment. One up looking camera is standard for part correction down to 0402. A second camera with larger lens for placement of large fine pitch components is optional.

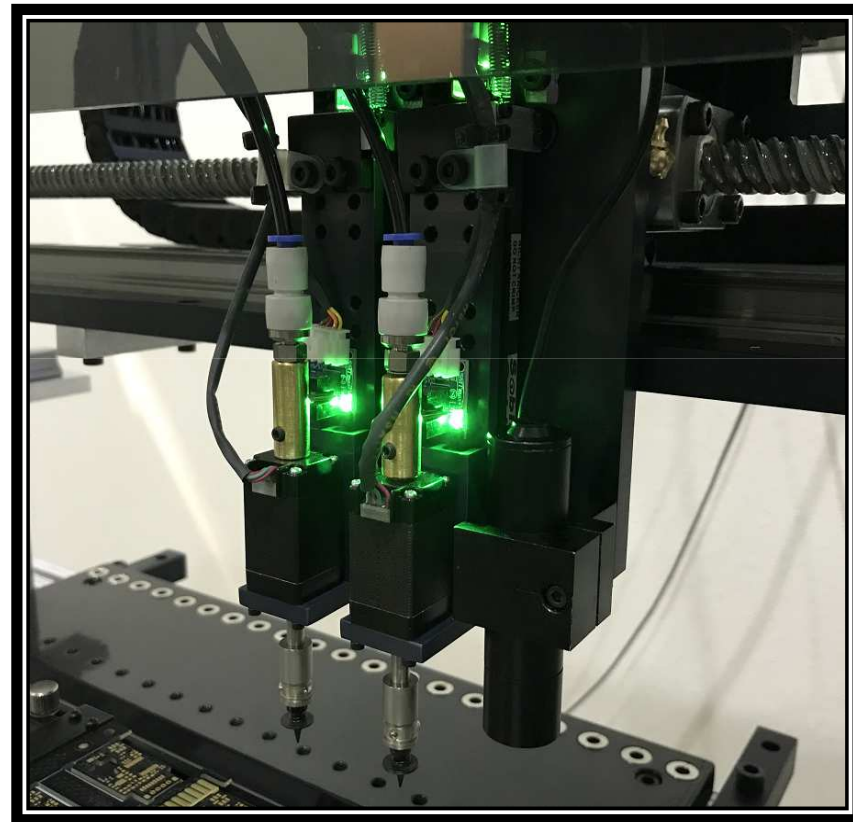
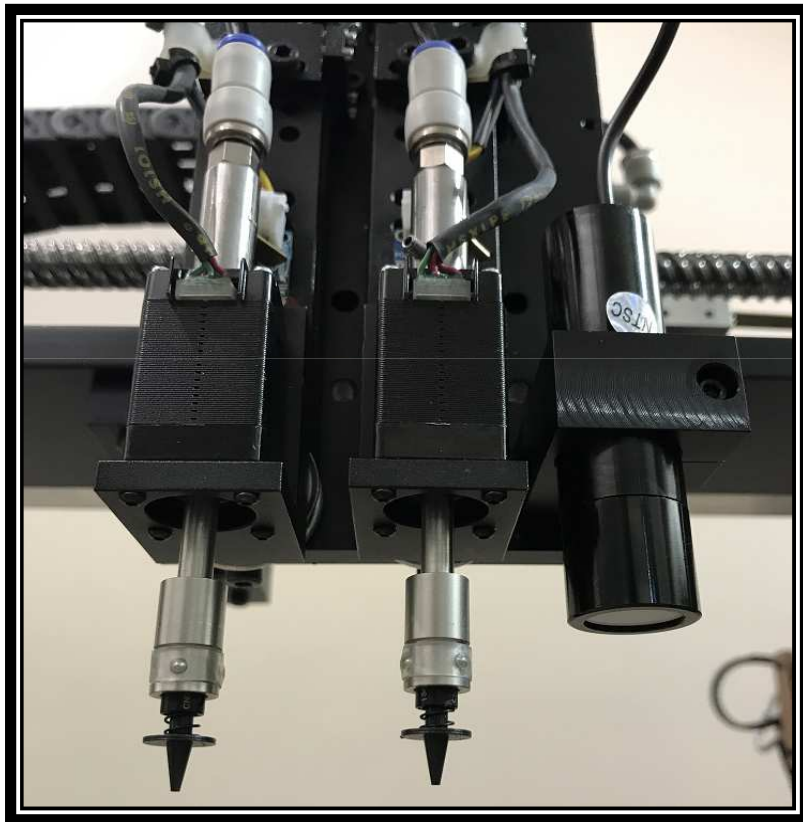


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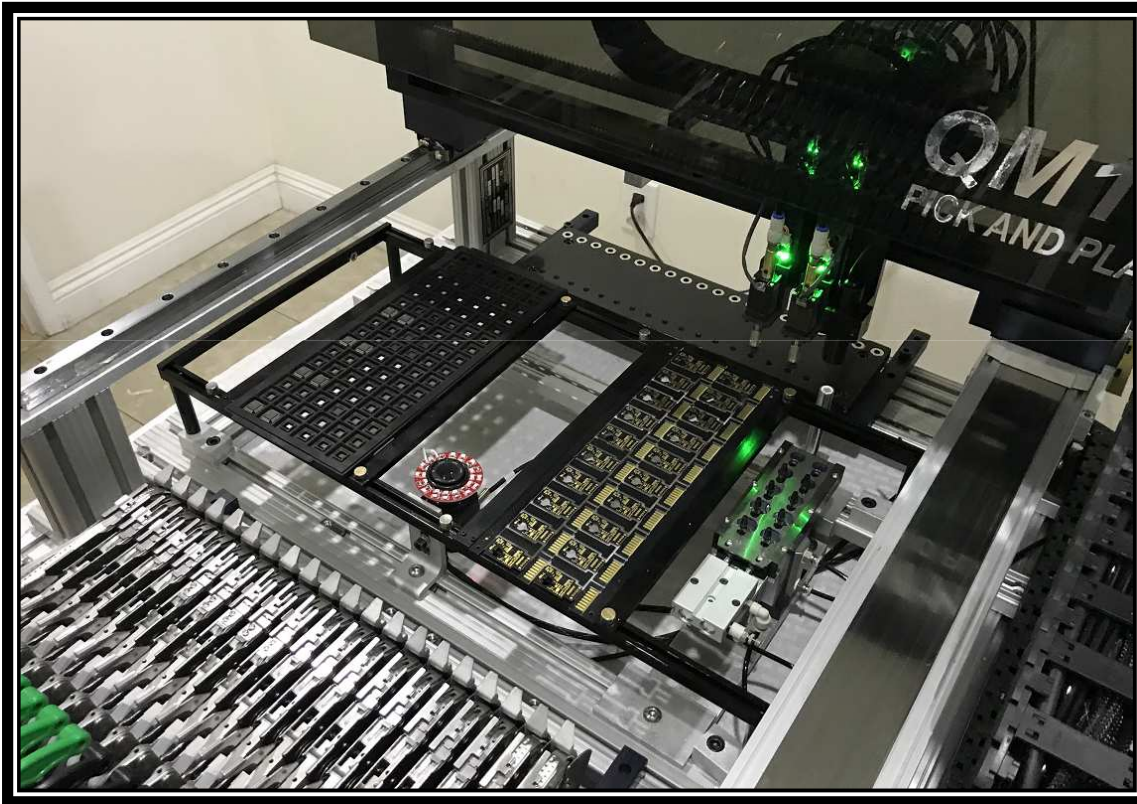
Two Head Placement

Two Placement heads with individual Z-axis control.



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Static PCB & JEDEC Tray Fixture

Static Fixture standard with maximum adjusting size 12"(304mm)× 12"(304mm) and minimum size of 1"(25mm) x 1"(25mm) Dual arms capable of holding one JEDEC Tray once PCB depending on overall PCB board size. Maximum head travel area 13"(330mm)×15"(381mm) In line Conveyor system is not optional.



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Pneumatic Feeders

The QM1100-B is standard equipped with a set of 20 feeder port carriers, mounted on the front side of the machine, each port can fit one single 8mm feeder, larger size feeders may take more space away, additional set of 20 feeder ports can be added to the rear of the machine for an additional cost. Feeders are not included and sold separately.



20 Additional ports



20 ports included

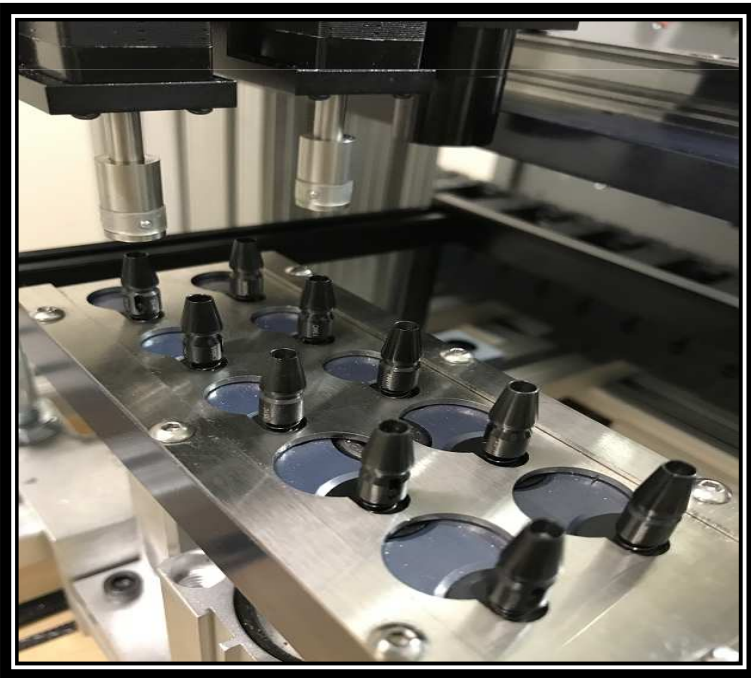


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Automatic nozzle Changer (optional)

The QM1100-B is standard equipped with Ten SMT nozzles ranging from 0.5mm up to 5.0mm and one nozzle stem. The nozzle changer fixture is designed for automatic nozzle exchanging and is highly recommended for placement of difference size SMT components. It can be program by using the down looking camera and software to automatically place back current nozzle and pick up required nozzle for larger or smaller component.

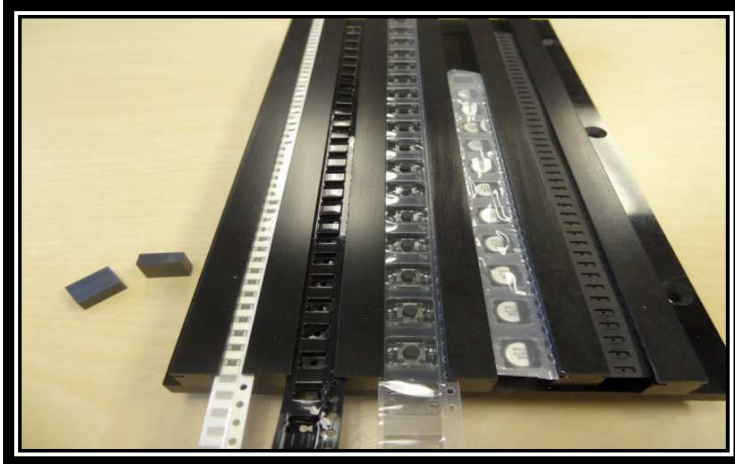
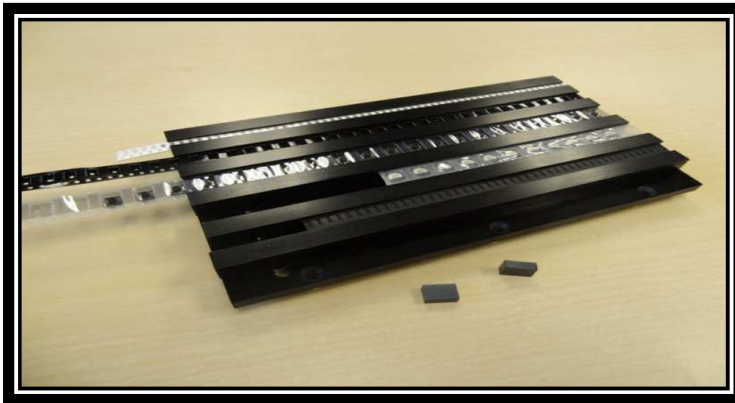


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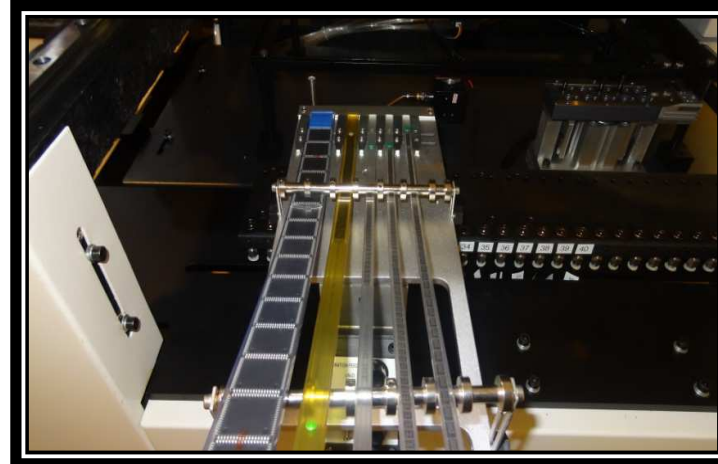
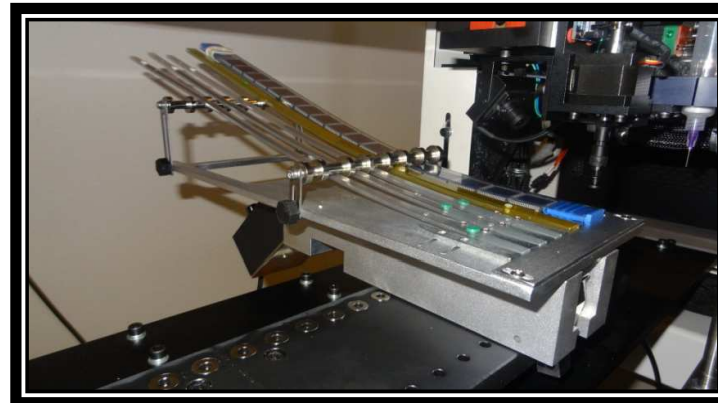
Manual Tape strip feeder (Optional)

For small strips of SMD tape we offer a five channel tape strip feeder that can be adjusted to any width of tape.



Vibratory Feeder (Optional)

For SMD components package in plastic tube, vibratory feeder can hold up to five tubes depending on tube width, each channel adjustable to any size.

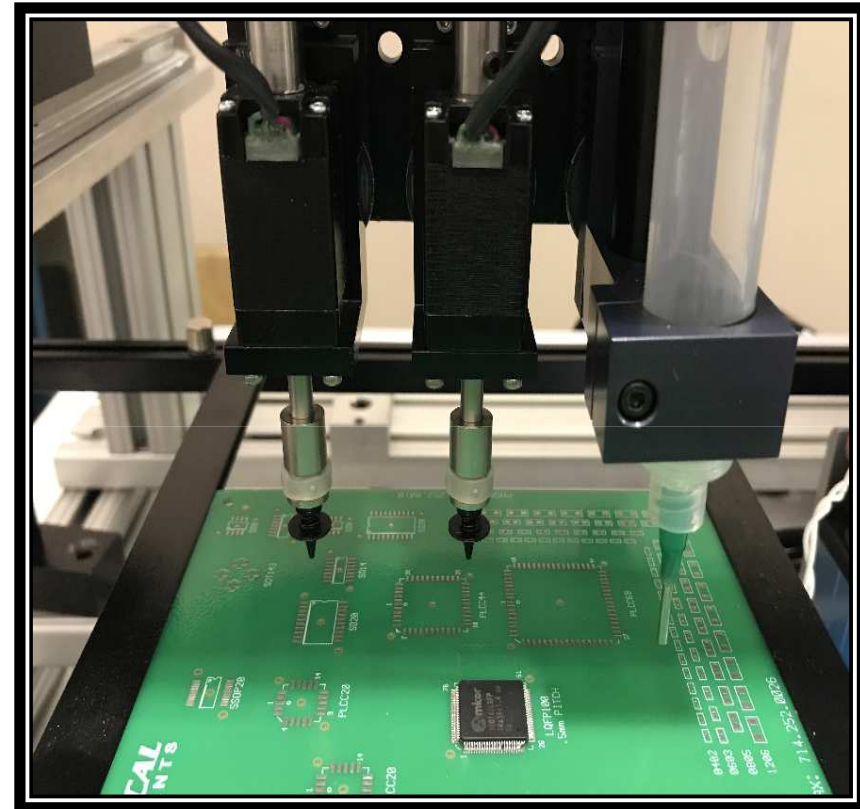
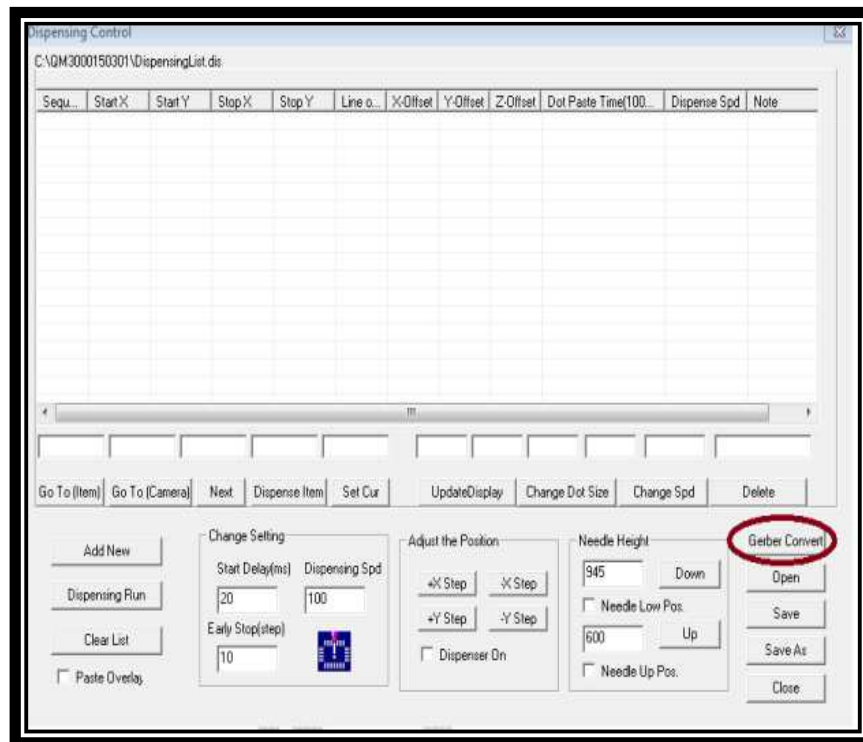


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Dispensing Adaptor (Optional)

Dispensing head option for applying solder paste or SMD-glue, controlled by the SMTmax software! The PCB's Gerber file can be converted into a dispensing list file providing all dispense positions, can also be programmed one at a time by teach mode, recommended for prototyping. Dispensing can be done directly from the 10cc syringe by time pressure.



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Specifications:

2 pick and place head
Standard

3,00 PPH Placement Rate

0.0005" resolution X and Y
axis

0.001" positioning
resolution, 0.045°
rotational resolution

0201 Minimum
Component Size

Computer vision
automatic centering
system for IC's (SOP, QFP,
BGA) and better
placement of small parts
included

12"(304mm)× 12"(304mm)
Maximum PCB fixture

Pneumatic feeders
20 feeder ports ready to
go, 20 additional optional

X & Y Axis standard with
servo motors with
encoder

1 JEDEC tray holder

12 month full factory
warranty - parts & labor

110V AC 60Hz, or 220 V
AC, 50Hz, 750 watts
electrical

37"w x 38"d x 19"h

MADE IN USA



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