

April 2010

MY500 Jet Printer Specification



SPECIFICATION MY500 JET PRINTER

JET PRINTING SPEED AND ACCURACY

JET PRINTING SPEED AND ACCURACY – SOLDER PASTE	
Rated speed (cph equivalent) ⁽¹⁾	30 000 cph
Reference board throughput ⁽²⁾	28 000 cph
Single dot repeatability 3σ (X, Y) ⁽³⁾	54 μm
Single dot accuracy @ Cpk=1.33 (X, Y) ⁽³⁾	80 μm
Deposit accuracy @ Cpk=1.33 (X, Y) QFP100C ⁽⁴⁾	33 μm
Deposit accuracy @ Cpk=1.33 (X, Y) 0603 ⁽⁴⁾	40 μm
Deposit repeatability 3σ (X, Y) QFP100C ⁽⁴⁾	19 μm
Deposit repeatability 3σ (X, Y) 0603 ⁽⁴⁾	24 μm

(1) Keeps pace with a P&P machine rated at 30 000 cph. Application dependent.

(2) For reference board information, see page 4.

(3) At default jetting height, 0.65 mm over the PCB.

(4) Calculated value from single dot accuracy.

DOT RANGE

DOT RANGE – SOLDER PASTE	
Minimum dot diameter ⁽⁵⁾	0.33 mm (0.013")
Maximum dot diameter	0.47 mm (0,019")
Minimum dot volume ⁽⁵⁾	5 nl
Maximum dot volume	15 nl
Single dot volume repeatability (5 nl dots)	12%
Single dot volume repeatability (15 nl dots)	8%
Deposit volume repeatability, QFP100C ⁽⁶⁾	4,0%
Deposit volume repeatability, 0603 ⁽⁶⁾	3,5%

(5) Dot diameter and dot volume required for 0.4 mm QFP, 0.5 mm BGA and 0201 components.

(6) Calculated value from single dot repeatability.

SYSTEM FEATURES

SYSTEM FEATURES MY500 JET PRINTER
Individual deposit programming – optimizing quality for every solder joint
Quick mode programming – automatch
Handling multi-level boards – editable jetting height
Automatic board stretch and board warpage compensation
Bad board mark handling
Automatic verification of paste type and due date
CAD / Gerber import, all common formats
On-the-spot revisions
No stencils required
Automatic conveyor width adjustment
Low paste waste
Closed system for solder paste – clean process
Operator independent quality

BOARD HANDLING

MY500 BOARD HANDLING	
Maximum board size	508 x 508 mm (20" x 20")
Minimum board size	70 x 50 mm (2.7" x 2")
Board thickness range	0.4 - 6.0 mm (0.016" - 0.24")
Board edge clearance, top	3 mm (0.12")
Board edge clearance, bottom	4 mm (0.16")
Bottom side clearance	20 mm (0.79")
Max board warp / bow/ twist ⁽⁷⁾	+/- 2 mm (0.08")
Max board weight	5 kg (11 lbs)
Board transport height	Conforms to SMEMA standard for conveyor height; height adjustable from 880-975 mm (34.6" - 38.4")
Operation mode	Inline, manual, inline odd-board, right-to-left, left-to-right

(7) +/- 0.4 % of PCB diagonal or 2 mm, whichever is lowest.

SOFTWARE

OFFLINE SOFTWARE MODULES (OPTIONAL)
Line automation – FlowLine
Factory level programming software – MYCam
MYDATA P&P interface – MYCam Express
Advanced Gerber import – MYCenter

OPTIONAL FEATURES

SMT ADHESIVE	
Reference board throughput ⁽²⁾	36 500 cph
Dot diameter range	0.43 - 0.54 mm (0.017" - 0.021")

INSPECT AND REPAIR	
Inspection type	Paste present
Active field of view	11 x 15 mm (0.43" x 0.59")
Inspection speed	200 mm ² / s
Repair	Auto / Manual

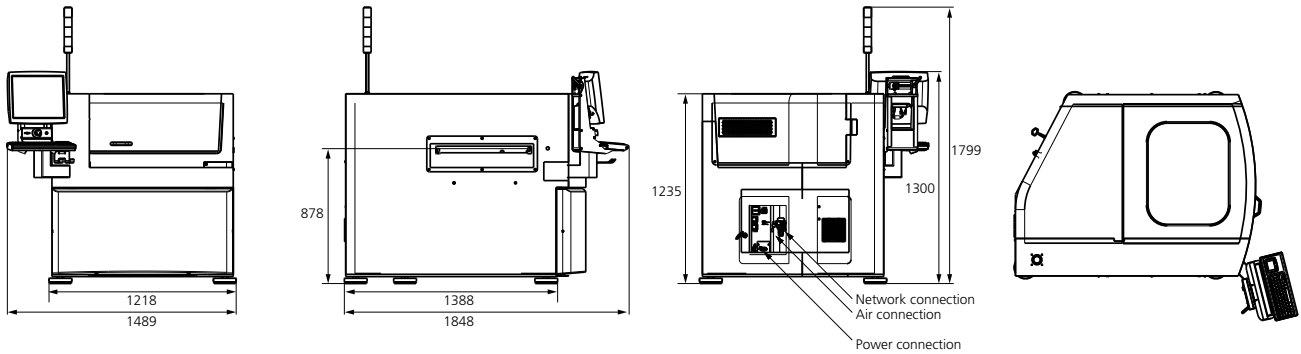
MISCELLANEOUS

INSTALLATION REQUIREMENTS	
Power Requirements	Single phase AC 1 700 VA
Power Consumption	1 200 W
Voltage	200 -240V +/-10%, 50/60 Hz, (100 -120V +/-10%, 50/60 Hz)
Air Supply	6 bar, 250 l/min
Ambient Temperature	+18°C to +30°C, 30-80% RH non condensing

MACHINE WEIGHT	
Weight	2 000 kg (4 400 lbs)

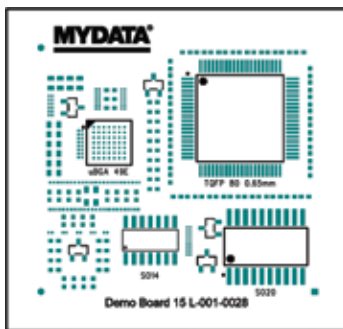
DIMENSIONS MY500 JET PRINTER

in mm.



REFERENCE BOARD

Panel of six PCBs. Reference board throughput includes board transfer, fiducial search, height measurement and jet printing.



Component list

Q201	65 pcs
Q402	73 pcs
Q603	12 pcs
SOT23	5 pcs
SO14	1 pcs
SO20	1 pcs
BGA49	1 pcs
QFP80	1 pcs

No. of pads 478



www.mydata.com
info@mydata.com

Micron Mydata AB
PO Box 3141
SE-183 03 Täby
Sweden

Visit: Nytorpsvägen 9, Täby
Tel: +46 8 638 52 00
Fax: +46 8 638 52 90

MYDATA Asia
Tel: +65 6281 7997
Fax: +65 6281 7667

MYDATA Benelux
Tel: +31 402 62 06 67
Fax: +31 402 62 06 68

MYDATA China
Tel: +86 21 6485 5389
Fax: +86 21 6485 7208

MYDATA France
Tel: +33 1 6959 2434
Fax: +33 1 6928 7100

MYDATA Germany
Tel: +49 8102 749090
Fax: +49 8102 749098

MYDATA Japan
Tel: +81 42 354 1334
Fax: +81 42 354 1335

MYDATA UK
Tel: +44 1 202 723 585
Fax: +44 1 202 723 269

MYDATA USA
Tel: +1 978 948 6919
Fax: +1 978 948 6915

Specifications are subject to change without notice.

MYDATA, MYDATA automation and MY, MY100, MY100DX, MY100SX, MY100LX, MY500 and MYSynergy, T3, T4, T5 and T6; HYDRA Speedmount, Midas, ISiC ; Agilis, Agilis Linear Magazine (ALM), Agilis Stick Magazine (ASM), MYDATA Tray Exchanger (TEX), MYDATA Tape Magazine (TM), MYDATA Tray Wagon Magazine (TWM); MYDATA Standard Vision System (SVS), MYDATA Dual Vision System (DVS), MYDATA Linescan Vision System (LVS), MYDATA HYDRA Vision System (HVS); MYDATA Assembly Process Management (APM) including: JPSys, TPSys, MYLabel, MYPlan, MYTrace, MYCam, Flowline and CAD Conversion are registered trademarks or trademarks of MYDATA automation AB. MYDATA is ISO 9001:2008 certified.