

## PCBA assembly capability SMT & PCBA Capability

### YAMAHA YSM SERIAL SMT ASSEMBLY MACHINE CAPABILITY

| Material Type                                          | Item           | Min                                           | Max                  |
|--------------------------------------------------------|----------------|-----------------------------------------------|----------------------|
| PCB                                                    | Dimension      | 50*50*0.6                                     | 400*339*3            |
|                                                        | Weight         |                                               | 1.8KG                |
|                                                        | Special        |                                               | 590*280*3            |
|                                                        | Material       | FR-4, CEM-1, CEM-3, Aluminium-based board,FPC |                      |
|                                                        | Surface finish | HAL,OSP,Immersion gold,Flash Gold,Gold Finger |                      |
| Components                                             | Chip & IC      | 01005 (0.4* 0.2)                              | 22*22                |
|                                                        | Special size   | 1.6*0.8                                       | 72mm                 |
|                                                        | BGA Pitch      | 0.35mm                                        | 1.0mm                |
|                                                        | QFP Pitch      | 0.35mm                                        | 1.0mm                |
| Components Type                                        | Speed(CPH)     | Accuracy(mm)                                  | Camera               |
| 1608Chip                                               | 52K/H          | 0.04                                          | Fly Camera           |
| 1005Chip                                               | 52K/H          | 0.04                                          | Fly Camera           |
| 0603Chip                                               | 52K/H          | 0.04                                          | Fly Camera           |
| SOP16                                                  | 30K/H          | 0.10                                          | Fly Camera           |
| QFP100                                                 | 20K/H          | 0.03                                          | Fixture Camera       |
| QFP256                                                 | 10K/H          | 0.03                                          | Fixture Camera       |
| BGA                                                    | 10K/H          | 0.03                                          | Fixture Camera       |
| Product Type                                           | Qty            | Normal lead time                              | Quick-turn lead time |
| SMD+connector                                          | 5~200          | 6WD                                           | 3WD                  |
| SMD+connector                                          | 201~2000       | 7WD                                           | 7WD                  |
| SMD+connector                                          | ≥ 2000         | 7 ~ 9WD                                       | 8 WD                 |
| SMD+DIP                                                | 5~200          | 5WD                                           | 4WD                  |
| SMD+DIP                                                | 201~2000       | 7WD                                           | 5 WD                 |
| SMD+DIP                                                | ≥ 2000         | 8WD                                           | 6 WD                 |
| Remark: The above lead time is just for assembly time. |                |                                               |                      |

## YAMAHA YSM20R SMT ASSEMBLY MACHINE CAPABILITY

| Material Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Item           | Min                                           | Max            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------|----------------|
| PCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Dimension      | 50*50*0.6                                     | 400*339*3      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Weight         |                                               | 1.8KG          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Special        |                                               | 590*280*3      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Material       | FR-4, CEM-1, CEM-3, Aluminium-based board,FPC |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Surface finish | HAL,OSP,Immersion gold,Flash Gold,Gold Finger |                |
| Components                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Chip & IC      | 01005 (0.4*0.2)                               | 22*22          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Special size   | 1.6*0.8                                       | 72mm           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BGA Pitch      | 0.3mm                                         | 1.0mm          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | QFP Pitch      | 0.3mm                                         | 1.0mm          |
| Components Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Speed(CPH)     | Accuracy(mm)                                  | Camera         |
| 1608Chip                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 52K/H          | 0.04                                          | Fly Camera     |
| 1005Chip                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 52K/H          | 0.04                                          | Fly Camera     |
| 0603Chip                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 52K/H          | 0.04                                          | Fly Camera     |
| SOP16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 30K/H          | 0.10                                          | Fly Camera     |
| QFP100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20K/H          | 0.03                                          | Fixture Camera |
| QFP256                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10K/H          | 0.03                                          | Fixture Camera |
| BGA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10K/H          | 0.03                                          | Fixture Camera |
| YAMAHA YSM20R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                                               |                |
| High Efficiency,High Reliability and High Flexibility:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                                               |                |
| 1.Micro Chip Accuracy:0.035mm±0.025mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                                               |                |
| 2.High Efficiency for the PCB moving                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                                               |                |
| 3.Autofeeder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                                               |                |
| 4.Mega Pixel Camera (Fly Camera, Fix Camera)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                                               |                |
| 5.Antistatic nozzle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |                                               |                |
| 6.The minimum size 01005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                                               |                |
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